



AGENDA

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

REGULAR MEETING BOARD OF DIRECTORS
ORANGE COUNTY WATER DISTRICT
Wednesday, November 20, 2024 – 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 Site:
10382 Bonnie Drive, Garden Grove
20 Civic Center, Santa Ana
1454 Madison Street, Tustin
8856 Citrus Avenue, Westminster
19 Cannery, Buena Park

* 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 – 27)

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 MEETINGS HELD OCTOBER 16 AND NOVEMBER 6, 2024

RECOMMENDATION: Approve as presented

3. K-2025-1: KRAEMER BASIN CHECK VALVE REPLACEMENTS: PUBLICATION OF NOTICE INVITING BIDS

RECOMMENDATION: 1. Authorize publication of Notice Inviting Bids for Contract No. K-2025-1: Kraemer Basin Check Valve Replacements project; and

2. Authorize filing of a Categorical Exemption for the Kraemer Basin Check Valve Replacements project in compliance with the California Environmental Quality Act (CEQA) guidelines

ITEMS RECOMMENDED FOR APPROVAL AT WATER ISSUES COMMITTEE MEETING HELD NOVEMBER 13 (ITEMS NO. 4–16)

4. CONTRACT GBM-2024-2 INSTALLATION OF THREE SHALLOW AQUIFER MONITORING WELLS NOTICE OF COMPLETION

RECOMMENDATION: Accept completion of the work and authorize filing a Notice of Completion for Contract GBM-2024-2, 2024 Shallow Aquifer Monitoring Wells

5. CONTRACT SG-2024-1 CONSTRUCTION OF OCWD-BS29 MONITORING WELL CLUSTER NOTICE OF COMPLETION AND AUTHORIZE AMENDMENT TO AGREEMENT WITH WOOD RODGERS FOR INSPECTION SERVICES

RECOMMENDATION: 1. Accept completion of work and authorize filing a Notice of Completion for Contract SG-2024-1 Construction of OCWD-BS29 Monitoring Well Cluster; and

2. Authorize issuance of Amendment No. 1 to Agreement No.1585 with Wood Rodgers in the amount of \$37,065 for additional field inspection services

6. GAP PROCESS BUILDING EXTERIOR STAIR REPLACEMENT - PUBLICATION OF NOTICE INVITING BIDS

RECOMMENDATION: Authorize publication of Notice Inviting Bids for Contract No. GA-2024-1: GAP Process Building Exterior Stair Replacement project

7. AWARD CONTRACT NO. GG-2024-1 GARDEN GROVE WELL 19 PFAS WATER TREATMENT PLANT TO R C FOSTER CORPORATION

- RECOMMENDATION:
1. Receive and file Affidavit of Publication of Notice Inviting Bids for Contract GG-2024-1 Garden Grove Well 19 PFAS Water Treatment Plant;
 2. Ratify issuance of Addenda 1-4;
 3. Reject the Bid of MMC, Inc. as non-responsive;
 4. Accept bid and award contract GG-2024-1 to the lowest responsive bid and responsible bidder, R C Foster Incorporated, in the amount of \$4,553,400; and
 5. Establish the Garden Grove Well 19 PFAS Water Treatment Plant Project budget in the amount of \$6,516,000

8. AUTHORIZE AGREEMENT WITH EVOQUA FOR PFAS TREATMENT PRESSURE VESSEL SYSTEMS

- RECOMMENDATION: Authorize issuance of an Agreement with Evoqua for an amount not to exceed \$1,595,050 for four additional PFAS Treatment Vessel Systems

9. INSTALLATION OF SHALLOW AQUIFER PIEZOMETERS AND TALBERT GAP MONITORING WELL CLUSTER

- RECOMMENDATION:
1. Authorize filing of a Categorical Exemption for the installation of two Shallow aquifer piezometers and one Talbert Gap monitoring well cluster in compliance with CEQA guidelines;
 2. Authorize installation of piezometers FM-41 and OM-12 and monitoring wells OCWD-M29RA and OCWD-M29RB;
 3. Authorize issuance of a Request for Proposals for inspection services during installation of Talbert Gap monitoring wells;
 4. Establish a project budget of \$256,000; and
 5. Authorize Notice Inviting Bids for piezometer and monitoring well installation

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

- RECOMMENDATION: Authorize issuance of Amendment No. 1 to Agreement No. 1558 with Butier Engineering Inc. for construction management and inspection services in the amount of \$460,830

11. EMERGENCY REPAIR WORK ORDER RATIFICATION

- RECOMMENDATION:
1. Ratify Work Order No. 8 of Agreement No. 1451 and payment to W.A. Rasic, Inc. for emergency repairs totaling \$14,299; and
 2. Ratify Work Order Nos. 9/9A of Agreement No. 1452 and payment to T.E. Roberts, Inc. for emergency repairs totaling \$55,650

12. AUTHORIZE AMENDMENT TO MKN FOR DESIGN SERVICES FOR THE ANAHEIM LAKE VALVE VAULT PROJECT
- RECOMMENDATION: Authorize issuance of Agreement to MKN for an amount not to exceed \$62,854 for design services for the Anaheim Lake Valve Vault Project
13. REQUEST FOR QUOTES FOR MONITORING WELL SC-4 REDEVELOPMENT AND PURCHASE ORDER TO WESTBAY INSTRUMENTS
- RECOMMENDATION: 1. Authorize issuance of Request for Quotes for services to redevelop monitoring well SC-4; and
2. Authorize issuance of a Purchase Order to Westbay Instruments for an amount not to exceed \$97,000 for replacement casing and packer components and tool rental
14. AUTHORIZE WORK ORDER TO ENVIRONMENTAL SCIENCE ASSOCIATES FOR ARCHEOLOGICAL MONITORING AT SA-2023-1
- RECOMMENDATION: Authorize Work Order 12 to Agreement 1135 with ESA, in the amount of \$38,760, to conduct archeological monitoring for portions of the construction of City of Santa Ana PFAS Water Treatment Plant Well Nos. 27 & 28
15. MICROFILTRATION WEST BASEMENT ACOUSTIC PANEL PROJECT: REQUEST FOR PROPOSALS
- RECOMMENDATION: 1. Create a new R&R project with an initial budget of \$60,000 for the MF West Basement Acoustic Panel Project;
2. Authorize issuance of a Request for Proposals for the Microfiltration West Basement Acoustic Panel Project
16. REVERSE OSMOSIS CIP VALVE RELOCATION PROJECT: AUTHORIZE NOTICE INVITING BIDS
- RECOMMENDATION: Authorize publication of Notice Inviting Bids for Contract No. GWRS-2024-1, Reverse Osmosis CIP Valve Relocation Project

ITEMS RECOMMENDED FOR APPROVAL AT ADMINISTRATION FINANCE COMMITTEE MEETING HELD NOVEMBER 14 (ITEMS NO. 17 – 27)

17. MONTHLY CASH CONTROL REPORTS
- RECOMMENDATION: Receive and file Summary Cash and Cash Equivalents Control Report dated October 31, 2024
18. INVESTMENT PORTFOLIO HOLDINGS REPORTS
- RECOMMENDATION: Receive and file the Investment Portfolio Holdings Reports dated October 31, 2024
19. AMENDMENTS TO AGREEMENTS WITH VARIOUS CHEMICAL VENDORS FOR THE SUPPLY AND DELIVERY OF WATER TREATMENT CHEMICALS

RECOMMENDATION: Authorize issuance of the following Amendments to Chemical Vendors for the supply and delivery of water treatment chemicals:

1. Amendment No.1 to Agreement No. 1562 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Hydrogen Peroxide,
2. Amendment No.1 to Agreement No. 1563 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Citric Acid,
3. Amendment No.1 to Agreement No. 1566 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Caustic Soda,
4. Amendment No.2 to Agreement No. 1564 with JCI Jones Chemical Inc., effective January 2025 to June 30, 2025, for a revised Sodium Hypochlorite rate of \$1.764/gallon, and
5. Amendment No.1 to Agreement No. 1565 with Univar Solutions USA, effective January 2025 to June 30, 2025, for a revised Sulfuric Acid rate of \$236/ton

20. ADD PERFORM AND ONBOARD MODULES TO EXISTING NEOGOV SYSTEM

RECOMMENDATION: Approve the addition of both the Perform and Onboard modules to the existing NeoGov System

21. PURCHASE REVERSE OSMOSIS MEMBRANE CLEANING CHEMICALS FROM AMERICAN WATER CHEMICALS, INC

RECOMMENDATION: Authorize issuance of Purchase Order to purchase 36,400 pounds of AWC C-227 RO membrane cleaning chemical from American Water Chemicals, Inc. for \$135,777

22. PURCHASE F-150 LIGHTNING TRUCK FROM VILLA FORD

RECOMMENDATION: Authorize issuance of Purchase Order to Villa Ford of Orange for \$73,172 to purchase an F-150 Lightning truck, and place T-78 on the surplus when the new truck is delivered

23. BOARDROOM AND CONFERENCE ROOM AUDIOVISUAL CONTRACTOR REQUEST FOR PROPOSALS

RECOMMENDATION: Authorize issuance of Request for Proposals (RFP) for an audiovisual contractor to provide equipment and services to replace the audiovisual systems in the Boardroom and C2 and C3 conference rooms

24. AWARD OF SERVICES AGREEMENTS FOR ON-CALL WEED ABATEMENT AND TRAIL MAINTENANCE SERVICES

RECOMMENDATION: Authorize issuance of an Agreements to Habitat West and the Santa Ana Watershed Association for a three (3) year term with an option to

extend for an additional one (1) year with General Manager approval for a total amount not to exceed \$344,810 for on-call weed abatement and trail maintenance services at OCWD facilities within Orange County and at Prado Wetlands in Corona

25. STATEMENT OF INVESTMENT POLICY FISCAL YEAR 2024-25

RECOMMENDATION: Adopt the Statement of Investment Policy for Fiscal Year 2024-2025

26. PRODUCERS WELL CONSTRUCTION LOAN PROGRAM

RECOMMENDATION: Approve the Producers Well Construction Loan Program draft template Agreement

27. BUDGET TO ACTUAL REPORT FOR FIRST QUARTER FY 2024–25

RECOMMENDATION: Receive and file the Budget to Actual Report for First Quarter of Fiscal Year 2024-25 ending September 30, 2024

INFORMATIONAL ITEMS

28. DRAFT LOCAL AGENCY FORMATION COMMISSION OF ORANGE COUNTY FEASIBILITY STUDY ON THE CONSOLIDATION OF THE ORANGE COUNTY WATER DISTRICT AND THE MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

29. SAWPA UPDATE

30. WATER RESOURCES SUMMARY

31. COMMITTEE/CONFERENCE/MEETING REPORTS

- ▶ Nov 07 - Communications and Legislative Committee (Chair Bilodeau)
- ▶ Nov 13 - Water Issues Committee (Chair Whitaker)
- ▶ Nov 14 - 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)

32. VERBAL REPORTS

- PRESIDENT'S REPORT
- GENERAL MANAGER'S REPORT
- DIRECTORS' REPORTS
- GENERAL COUNSEL REPORT

RECESS TO CLOSED SESSION

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

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: November 20, 2024

To: Board of Directors

From: John Kennedy

Staff Contact: M. Ochoa

Budgeted: N/A

Budgeted Amount:

Cost Estimate \$7,560,988.55

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 October 31, 2024 through November 13, 2024, including manual checks and wire transfers, staff is presenting cash disbursements totaling \$7,560,988.55 disbursed for each period as follows:

Accounts Payable:	
10/31/2024 - 11/06/2024	\$ 4,414,775.11
11/07/2024 - 11/13/2024	\$ 1,753,215.67
Payroll	\$ 1,392,997.77
Total Disbursements	\$ 7,560,988.55

RECOMMENDATION

Ratify/Authorize payment of bills

PRIOR RELEVANT BOARD ACTION(S)

Semi-monthly

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 1

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
804008	2024-11-06	ALTA FOODCRAFT	Inv# 12450027	BPO FIRST AID & COFFEE	\$153.98		
		Total for Check:	804008			\$153.98	\$6,264.33
804009	2024-11-06	IRON MOUNTAIN	Inv# JXHM740	BPO ARCHIVAL SERVICES	\$4,764.52		
		Total for Check:	804009			\$4,764.52	\$24,958.94
804010	2024-11-06	WESTAIR GASES & EQUIPMENT	Inv# 0011916315	nitrogens	\$151.50		
804010	2024-11-06	WESTAIR GASES & EQUIPMENT	Inv# 0011916315	haz.mtl, frt, fuel surcharge	\$59.12		
		Total for Check:	804010			\$210.62	\$43,930.16
804011	2024-11-06	WESTERN EXTERMINATOR COMPANY	Inv# 68607662	BPO RODENT & PEST CONTROL	\$499.30		
		Total for Check:	804011			\$499.30	\$4,035.50
Run Date:	11/5/2024				\$5,628.42	\$5,628.42	

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 1

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
119941	2024-09-18	SAN JOAQUIN TRACTOR CO.	Inv# 83582W	Incoming freight	(\$314.91)		
119941	2024-09-18	SAN JOAQUIN TRACTOR CO.	Inv# 83582W	RT-31 Mower attachment repair	(\$1,235.62)		
Total for Check: 119941						(\$1,550.53)	\$1,550.53
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607761	MF East Air Handler Repairs	\$1,239.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607761	MF East Air Handler Repairs	\$100.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607762	Annex AC Unit Frozen	\$1,593.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607762	Annex AC Unit Frozen	\$100.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607762	Annex AC Unit Frozen	\$43.50		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607762	Annex AC Unit Frozen	\$41.96		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607762	Annex AC Unit Frozen	\$25.90		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607788	NEMA Trailer HVAC Leak at RO B	\$1,062.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607788	NEMA Trailer HVAC Leak at RO B	\$100.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607788	NEMA Trailer HVAC Leak at RO B	\$50.00		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607788	NEMA Trailer HVAC Leak at RO B	\$27.19		
120602	2024-11-06	ACCO ENGINEERED SYSTEMS	Inv# 20607788	NEMA Trailer HVAC Leak at RO B	\$10.86		
Total for Check: 120602						\$4,393.41	\$126,266.33
120603	2024-11-06	ACWA JPIA	Inv# 463	Auto,General 10/1/2024-2025	\$530,116.42		
Total for Check: 120603						\$530,116.42	\$3,513,976.41
120604	2024-11-06	AECOM TECHNICAL SERVICES, INC.	Inv# 2000941649	8/24-9/20 PFAS IRWD OPA 1	\$260.00		
Total for Check: 120604						\$260.00	\$71,098.87
120605	2024-11-06	AGILENT TECHNOLOGIES, INC.	Inv# 9100946837	Supplies	\$8,916.24		
120605	2024-11-06	AGILENT TECHNOLOGIES, INC.	Inv# 9100946837	Nov 2024 - July 2025	\$7,925.55		
120605	2024-11-06	AGILENT TECHNOLOGIES, INC.	Inv# 9100946837	Oct 2024	\$990.69		
120605	2024-11-06	AGILENT TECHNOLOGIES, INC.	Inv# 9100946837		(\$8,916.24)		
Total for Check: 120605						\$8,916.24	\$143,991.65
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 176W-PJHY-9VCF	Generated by reorder 10/7/24 1	\$307.68		
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 19LQ-VJLV-JPK9	BARRIER REHAB EQUIPMENT	\$411.16		
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 19LQ-VJLV-JPK9	BARRIER REHAB EQUIPMENT	\$75.00		
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 19LQ-VJLV-JPK9	YADI	(\$20.56)		
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 1CHK-NC6X-19VT	AMAZON PARTS	\$24.25		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 2

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 1TP3-QFC6-VFFP		\$788.44		
120606	2024-11-06	AMAZON CAPITAL SERVICES, INC	Inv# 1YFQ-C73H-P7QK		\$114.20		
		Total for Check: 120606				\$1,700.17	\$15,679.95
120607	2024-11-06	AMAZON WEB SERVICES INC	Inv# 1KXV-MGWX-WCHN		\$62.60		
120607	2024-11-06	AMAZON WEB SERVICES INC	Inv# 1NVG-CVVVX-6V16		\$252.68		
		Total for Check: 120607				\$315.28	\$921.54
120608	2024-11-06	AMERICAN WATER CHEMICAL, INC	Inv# 52240621	PLANT CHEMICALS YADI/DERRICK	\$135,776.55		
120608	2024-11-06	AMERICAN WATER CHEMICAL, INC	Inv# 52241121	10/10 41000 lb antiscalant	\$48,103.96		
120608	2024-11-06	AMERICAN WATER CHEMICAL, INC	Inv# 52241121	10/10 41000 lb antiscalant	\$1,916.04		
		Total for Check: 120608				\$185,796.55	\$630,721.70
120609	2024-11-06	ARBOR ENVIRONMENTAL LLC	Inv# 9914	Respiratory	\$1,935.00		
120609	2024-11-06	ARBOR ENVIRONMENTAL LLC	Inv# 9914	Respiratory	\$1,665.00		
		Total for Check: 120609				\$3,600.00	\$3,600.00
120610	2024-11-06	BAY ALARM COMPANY	Inv# 21756969	1529	\$665.00		
		Total for Check: 120610				\$665.00	\$8,155.13
120611	2024-11-06	BC2 ENVIRONMENTAL, LLC	Inv# 24-30276.1	Prog.Pmt#2(final) GBM-2024-2	\$36,551.25		
		Total for Check: 120611				\$36,551.25	\$156,059.93
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578803	South Basin Water Disposal Con	\$1,011.16		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578804	South Basin Water Disposal Con	\$1,244.06		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578805	South Basin Water Disposal Con	\$835.50		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578806	South Basin Water Disposal Con	\$583.61		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578807	South Basin Water Disposal Con	\$580.01		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578808	South Basin Water Disposal Con	\$701.67		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578809	South Basin Water Disposal Con	\$849.33		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578810	South Basin Water Disposal Con	\$1,100.94		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578811	South Basin Water Disposal Con	\$1,069.28		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 3

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578812	South Basin Water Disposal Con	\$1,209.34		
120613	2024-11-06	BELSHIRE ENVIRONMENTAL SERVICES INC	Inv# 578813	South Basin Water Disposal Con	\$1,132.77		
Total for Check: 120613						\$10,317.67	\$11,142.67
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.002	Generated by reorder 10/7/24 1	\$305.82		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.002	Shipping	\$12.49		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.002	handling	\$4.34		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.002	Discount	(\$5.62)		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.003	Generated by reorder 10/7/24 1	\$458.73		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.003	Shipping	\$15.11		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.003	handling	\$4.35		
120614	2024-11-06	BPS SUPPLY GROUP	Inv# S3172428.003	Discount	(\$8.44)		
Total for Check: 120614						\$786.78	\$6,014.20
120615	2024-11-06	BRENNTAG PACIFIC INC.	Inv# BPI472168	10/31 21.36 ton H.Peroxide	\$10,680.00		
120615	2024-11-06	BRENNTAG PACIFIC INC.	Inv# BPI472168	discount	(\$213.60)		
Total for Check: 120615						\$10,466.40	\$598,148.36
120616	2024-11-06	C5 EQUIPMENT RENTALS LLC	Inv# 9533	BPO RENTAL EQUIPMENT	\$5,566.37		
120616	2024-11-06	C5 EQUIPMENT RENTALS LLC	Inv# 9533	Envr Fee	\$155.00		
120616	2024-11-06	C5 EQUIPMENT RENTALS LLC	Inv# 9535	BPO RENTAL EQUIPMENT	\$5,566.37		
120616	2024-11-06	C5 EQUIPMENT RENTALS LLC	Inv# 9535	Envr Fee	\$155.00		
Total for Check: 120616						\$11,442.74	\$25,285.48
120617	2024-11-06	CALIFORNIA CRANE SCHOOL	Inv# 9211	RECERTIFICATION TRAINING	\$3,885.00		
Total for Check: 120617						\$3,885.00	\$3,885.00
120618	2024-11-06	CAMBRIDGE ISOTOPE LABORATORIES	Inv# SI-00024766	Supplies	\$1,164.72		
120618	2024-11-06	CAMBRIDGE ISOTOPE LABORATORIES	Inv# SI-00024766	S&H	\$37.97		
Total for Check: 120618						\$1,202.69	\$6,741.02
120619	2024-11-06	CARDIO PARTNERS INC	Inv# INV3492383		\$343.65		
Total for Check: 120619						\$343.65	\$343.65
120620	2024-11-06	CDW GOVERNMENT, INC	Inv# AA9N27F		\$264.55		
120620	2024-11-06	CDW GOVERNMENT, INC	Inv# AA9N27F		\$5.00		
Total for Check: 120620						\$269.55	\$3,664.80

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 4

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD	
120621	2024-11-06	CEL ANALYTICAL INC	Inv# 240911-5472	WQ ANALYSIS	\$630.00			
120621	2024-11-06	CEL ANALYTICAL INC	Inv# 241009-5575	WQ ANALYSIS	\$420.00			
		Total for Check: 120621					\$1,050.00	\$4,830.00
120622	2024-11-06	CITY OF HUNTINGTON BEACH	Inv# 5386189_20241024	09/24/2024 - 10/24/2024	\$46.50			
		Total for Check: 120622					\$46.50	\$236.87
120623	2024-11-06	CITY OF ORANGE	Inv# 00030145-00_20241021	08/26/2024 - 10/18/2024	\$168.43			
120623	2024-11-06	CITY OF ORANGE	Inv# 00038354-00_20241021	08/26/2024 - 10/18/2024	\$578.81			
		Total for Check: 120623					\$747.24	\$3,378.89
120624	2024-11-06	COLE-PARMER INSTRUMENT CO.	Inv# 3838666	Lab Supplies	\$145.73			
120624	2024-11-06	COLE-PARMER INSTRUMENT CO.	Inv# 3838666	Freight	\$26.04			
120624	2024-11-06	COLE-PARMER INSTRUMENT CO.	Inv# 3839545		\$404.55			
		Total for Check: 120624					\$576.32	\$2,562.26
120625	2024-11-06	CONSTELLATION NEWENERGY INC.	Inv# 69354040201	09/04/2024 to 10/03/2024	\$2,117,261.53			
		Total for Check: 120625					\$2,117,261.53	\$7,561,310.75
120626	2024-11-06	CPI INTERNATIONAL	Inv# 20066928	SUPPLIES	\$400.20			
120626	2024-11-06	CPI INTERNATIONAL	Inv# 20066928	Discount	(\$7.36)			
		Total for Check: 120626					\$392.84	\$6,395.44
120627	2024-11-06	EAST ORANGE COUNTY WATER DISTRICT	Inv# PROP 84 SARRCUP INV 29		\$121,164.46			
		Total for Check: 120627					\$121,164.46	\$638,546.72
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 101-496792	BPO AUTO PARTS	\$65.24			
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 164-362779	BPO AUTO PARTS	\$50.01			
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 164-362915	Generated by reorder 10/2/24 1	\$57.40			
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 164-362915	Generated by reorder 10/2/24 1	\$28.48			
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 164-362915	Generated by reorder 10/2/24 1	\$19.16			
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 164-363383	BPO AUTO PARTS	\$160.91			
120628	2024-11-06	FACTORY MOTOR PARTS	Inv# 164-363383	Battery Fee	\$2.00			
		Total for Check: 120628					\$383.20	\$5,910.30
120629	2024-11-06	FEDERAL EXPRESS CORPORATION	Inv# 8-668-64324	Package Delivery	\$136.80			
120629	2024-11-06	FEDERAL EXPRESS CORPORATION	Inv# 8-668-64325	Package Delivery	\$164.35			
		Total for Check: 120629					\$301.15	\$5,915.43

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 5

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120630	2024-11-06	FILMTEC CORP	Inv# 951840871	MF MEMBRANE MODULES	\$324,592.65		
		Total for Check:	120630			\$324,592.65	\$1,666,571.27
120631	2024-11-06	FISHER SCIENTIFIC CO.	Inv# 5578507		\$67.64		
120631	2024-11-06	FISHER SCIENTIFIC CO.	Inv# 5578507		\$30.72		
120631	2024-11-06	FISHER SCIENTIFIC CO.	Inv# 5656653		\$28.86		
120631	2024-11-06	FISHER SCIENTIFIC CO.	Inv# 5656653		\$266.54		
		Total for Check:	120631			\$393.76	\$105,293.36
120632	2024-11-06	FRONTIER COMMUNICATIONS	Inv# 714-965-1308_20241022 11/21/2024	10/22/2024 to	\$298.59		
		Total for Check:	120632			\$298.59	\$22,259.67
120633	2024-11-06	FRUIT GROWERS LABORATORY INC	Inv# 413117A	BPO RADIOACTIVITY ANAYLSIS	\$604.00		
120633	2024-11-06	FRUIT GROWERS LABORATORY INC	Inv# 413601A	BPO RADIOACTIVITY ANAYLSIS	\$201.00		
120633	2024-11-06	FRUIT GROWERS LABORATORY INC	Inv# 414855A	BPO RADIOACTIVITY ANAYLSIS	\$63.00		
120633	2024-11-06	FRUIT GROWERS LABORATORY INC	Inv# 414856A	BPO RADIOACTIVITY ANAYLSIS	\$63.00		
120633	2024-11-06	FRUIT GROWERS LABORATORY INC	Inv# 415845A	BPO RADIOACTIVITY ANAYLSIS	\$73.00		
		Total for Check:	120633			\$1,004.00	\$13,970.00
120634	2024-11-06	FULLERTON, CITY OF	Inv# PROP 84 SARRCUP #30		\$5,459.98		
		Total for Check:	120634			\$5,459.98	\$5,459.98
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$570.94		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$337.15		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$278.62		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$250.12		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$153.67		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$153.66		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$150.08		
120636	2024-11-06	GEIGER	Inv# 5690496	S&H	\$110.60		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$81.57		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$81.56		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$54.16		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 6

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$54.16		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$49.87		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$46.22		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$41.48		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$39.97		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$25.01		
120636	2024-11-06	GEIGER	Inv# 5690496	BRANDED WEAR	\$19.99		
120636	2024-11-06	GEIGER	Inv# 5690496	Discount	(\$24.99)		
		Total for Check:	120636			\$2,473.84	\$33,771.68
120637	2024-11-06	GRAINGER INC.	Inv# 9275095835	BPO INDUSTRIAL SUPPLIES	\$370.02		
120637	2024-11-06	GRAINGER INC.	Inv# 9275095843	Generated by reorder 10/7/24 1	\$150.73		
120637	2024-11-06	GRAINGER INC.	Inv# 9277618675	BPO INDUSTRIAL SUPPLIES	\$25.70		
120637	2024-11-06	GRAINGER INC.	Inv# 9277963147	BPO INDUSTRIAL SUPPLIES	\$238.23		
120637	2024-11-06	GRAINGER INC.	Inv# 9279136908	Assorted - Grainger	\$948.21		
120637	2024-11-06	GRAINGER INC.	Inv# 9279136908	Assorted - Grainger	\$176.03		
120637	2024-11-06	GRAINGER INC.	Inv# 9279136908	Assorted - Grainger	\$190.72		
		Total for Check:	120637			\$2,099.64	\$84,005.62
120638	2024-11-06	GREAT SCOTT TREE SERVICES, INC.	Inv# 54476	1519	\$8,505.00		
		Total for Check:	120638			\$8,505.00	\$8,505.00
120639	2024-11-06	HOME DEPOT CREDIT SERVICES	Inv# 6625992	BPO INDUSTRIAL SUPPLIES	\$20.24		
		Total for Check:	120639			\$20.24	\$13,508.23
120640	2024-11-06	Harasty, Alicia	Inv# OCTOBER 11, 2024 TRAVEL ACWA 6-7	10/11 Coalinga	\$425.28		
		Total for Check:	120640			\$425.28	\$1,229.98
120641	2024-11-06	Hutchinson, Adam	Inv# OCTOBER 25, 2024 TRAVEL Council Meetin	10/25 Davis GRA	\$150.52		
		Total for Check:	120641			\$150.52	\$390.52
120642	2024-11-06	IRVINE PIPE & SUPPLY CO	Inv# S118762445.001	Generated by reorder 7/31/24 4	\$1,521.05		
120642	2024-11-06	IRVINE PIPE & SUPPLY CO	Inv# S118762445.001	S&H	\$54.38		
120642	2024-11-06	IRVINE PIPE & SUPPLY CO	Inv# S119250033.001	BPO PIPE SUPPLIES	\$217.50		
120642	2024-11-06	IRVINE PIPE & SUPPLY CO	Inv# S119250033.001		\$84.53		
120642	2024-11-06	IRVINE PIPE & SUPPLY CO	Inv# S119250033.001	S&H	\$30.34		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 7

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120642	2024-11-06	IRVINE PIPE & SUPPLY CO	Inv# S119250033.001	Discount	(\$5.55)		
		Total for Check:	120642			\$1,902.25	\$32,469.31
120643	2024-11-06	ISLE INC	Inv# INV-1905	Water Quality Sensors Partners	\$6,000.00		
		Total for Check:	120643			\$6,000.00	\$6,000.00
120644	2024-11-06	JACOBS ENGINEERING GROUP, INC.	Inv# W9Y31900-17	9/1-27 PFAS Tustin wo#1	\$6,560.00		
		Total for Check:	120644			\$6,560.00	\$55,570.17
120645	2024-11-06	KENNEDY/JENKS CONSULTANTS, INC.	Inv# 175065	Thru 9/27 PFAS Orange wo#2	\$53,512.75		
		Total for Check:	120645			\$53,512.75	\$247,595.25
120646	2024-11-06	LARSON O'BRIEN LLP	Inv# 20230	Sept24 legal/North Basin	\$550.00		
		Total for Check:	120646			\$550.00	\$2,915.00
120647	2024-11-06	LHOIST NORTH AMERICA	Inv# 1102421596	10/6 lime(2) 25.20 & 25.17 ton	\$22,573.82		
120647	2024-11-06	LHOIST NORTH AMERICA	Inv# 1102421693	10/8 lime(2) 24.99 & 25.28 ton	\$22,529.02		
		Total for Check:	120647			\$45,102.84	\$602,717.08
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$1,454.61		
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$454.11		
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$409.23		
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$220.89		
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$190.67		
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$150.00		
120648	2024-11-06	LINE-X OF ORANGE COUNTY	Inv# 12010	(R24026) T-173 accessories	\$129.24		
		Total for Check:	120648			\$3,008.75	\$5,230.61
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$83.74		
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$81.57		
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$81.56		
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$81.56		
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$81.56		
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$81.56		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 8

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$81.56		
120649	2024-11-06	MANHATTAN STITCHING COMPANY INC	Inv# 104506		\$50.00		
Total for Check: 120649						\$623.11	\$3,752.94
120650	2024-11-06	MCFADDEN-DALE HARDWARE CO.	Inv# 3874633	Discount	(\$3.94)		
120650	2024-11-06	MCFADDEN-DALE HARDWARE CO.	Inv# 560160/5	BPO INDUSTRIAL SUPPLIES	\$19.72		
120650	2024-11-06	MCFADDEN-DALE HARDWARE CO.	Inv# 560160/5		(\$0.55)		
120650	2024-11-06	MCFADDEN-DALE HARDWARE CO.	Inv# 3874633	BPO INDUSTRIAL SUPPLIES	\$143.34		
Total for Check: 120650						\$158.57	\$3,163.83
120651	2024-11-06	MCMaster-CARR SUPPLY COMPANY	Inv# 35567610	air flow gauge for UF pilot 1	\$206.52		
120651	2024-11-06	MCMaster-CARR SUPPLY COMPANY	Inv# 35567610		\$8.92		
120651	2024-11-06	MCMaster-CARR SUPPLY COMPANY	Inv# 35567610		(\$4.13)		
Total for Check: 120651						\$211.31	\$6,335.30
120652	2024-11-06	MILLER & AXLINE	Inv# 11520	11/1 legal/Sabic	\$8,995.75		
Total for Check: 120652						\$8,995.75	\$44,322.99
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137200	BPO TRUCK PARTS	\$484.51		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137200	BPO TRUCK PARTS	\$25.35		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137467	BPO TRUCK PARTS	\$103.41		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137567	Credit INV#137467	(\$103.41)		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137839	BPO TRUCK PARTS	\$148.31		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137982	BPO TRUCK PARTS	\$251.53		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 137982		(\$5.03)		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 138088	BPO TRUCK PARTS	\$23.69		
120653	2024-11-06	NAPA AUTO PARTS	Inv# 138088		(\$0.47)		
Total for Check: 120653						\$927.89	\$7,161.61
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 4022024 CREDIT	Credit	(\$36.91)		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 702930 CREDIT	Credit	(\$36.91)		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729157	BPO AUTO PARTS	\$47.83		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 9

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729157		(\$0.96)		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729249	BPO AUTO PARTS	\$72.50		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729249		(\$1.45)		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729724	BPO AUTO PARTS	\$25.82		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729724		(\$0.58)		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729770	BPO AUTO PARTS	\$25.41		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729770		(\$0.51)		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729771	BPO AUTO PARTS	\$65.08		
120655	2024-11-06	NAPA/ORANGE COUNTY AUTO PARTS	Inv# 729771		(\$1.30)		
		Total for Check: 120655				\$158.02	\$1,345.86
120656	2024-11-06	NORTHWEST MOSQUITO AND VECTOR	Inv# 1690	BPO FOR MOSQUITO CONTROL	\$804.75		
		Total for Check: 120656				\$804.75	\$1,739.47
120657	2024-11-06	ODP BUSINESS SOLUTIONS LLC	Inv# 389817178001	Toner for Lisa's printer	\$185.18		
120657	2024-11-06	ODP BUSINESS SOLUTIONS LLC	Inv# 390360924001	Office Supplies	\$110.03		
120657	2024-11-06	ODP BUSINESS SOLUTIONS LLC	Inv# 392131430001	Office Supplies	\$84.24		
		Total for Check: 120657				\$379.45	\$1,338.93
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007664855.002	M21-375-C-342 .375" X 7 JHAMM	\$160.12		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007673602.002	BPO ELECTRICAL SUPPLIES	\$54.23		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007673602.002	Discount	(\$0.50)		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007677214.001	Generated by reorder 10/7/24 1	\$344.80		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007677214.001	Generated by reorder 10/7/24 1	\$195.74		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007677214.001	Generated by reorder 10/7/24 1	\$172.38		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007677214.001	S&H	\$13.63		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007677214.001	Discount	(\$6.56)		
120658	2024-11-06	ONESOURCE DISTRIBUTORS INC.	Inv# S007664855.002	Discount	(\$1.47)		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 10

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
		Total for Check:	120658			\$932.37	\$18,815.08
120659	2024-11-06	OSCAR'S LOCK & SAFE	Inv# 29056	BPO LOCK SERVICE	\$198.83		
		Total for Check:	120659			\$198.83	\$1,405.47
120660	2024-11-06	PACIFIC OFFICE AUTOMATION	Inv# 809210	BPO KONICA SERVICE	\$158.26		
		Total for Check:	120660			\$158.26	\$536.05
120661	2024-11-06	PARKHOUSE TIRE, INC.	Inv# 1020287475	RT-31 BG attachment flat repai	\$890.38		
120661	2024-11-06	PARKHOUSE TIRE, INC.	Inv# 1020287475	RT-31 BG attachment flat repai	\$440.00		
120661	2024-11-06	PARKHOUSE TIRE, INC.	Inv# 1020287475	RT-31 BG attachment flat repai	\$43.50		
120661	2024-11-06	PARKHOUSE TIRE, INC.	Inv# 1020287475	RT-31 BG attachment flat repai	\$28.00		
120661	2024-11-06	PARKHOUSE TIRE, INC.	Inv# 1020287475	RT-31 BG attachment flat repai	\$20.00		
120661	2024-11-06	PARKHOUSE TIRE, INC.	Inv# 1020287475	RT-31 BG attachment flat repai	\$3.50		
		Total for Check:	120661			\$1,425.38	\$107,608.21
120662	2024-11-06	PERKINELMER U.S LLC	Inv# 441173259	lab supplies	\$505.69		
120662	2024-11-06	PERKINELMER U.S LLC	Inv# 441173259	Freight	\$55.00		
		Total for Check:	120662			\$560.69	\$560.69
120663	2024-11-06	PHENOVA INC	Inv# 209272	SUPPLIES	\$107.45		
120663	2024-11-06	PHENOVA INC	Inv# 209272	SUPPLIES	\$94.72		
120663	2024-11-06	PHENOVA INC	Inv# 209272	F&H	\$19.55		
120663	2024-11-06	PHENOVA INC	Inv# 209272	F&H	\$19.55		
		Total for Check:	120663			\$241.27	\$4,505.94
120664	2024-11-06	PROMOCHROM TECHNOLOGIES LTD	Inv# 1758	Supplies	\$82,755.00		
		Total for Check:	120664			\$82,755.00	\$82,755.00
120665	2024-11-06	PRUDENTIAL GROUP INSURANCE	Inv# C#00694,B#252925 NOV24	Life Insurance NOV24	\$37,858.01		
		Total for Check:	120665			\$37,858.01	\$188,962.16
120666	2024-11-06	PURCOR PEST SOLUTIONS	Inv# 11894957	BPO RODENT CONTROL	\$185.00		
		Total for Check:	120666			\$185.00	\$3,025.00
120667	2024-11-06	QUINN COMPANY	Inv# PC830426859	BPO EQUIPMENT & SUPPLIES	\$53.41		
120667	2024-11-06	QUINN COMPANY	Inv# PC830427022		\$2,998.77		
120667	2024-11-06	QUINN COMPANY	Inv# PC830427022		\$165.41		
120667	2024-11-06	QUINN COMPANY	Inv# PC830427022		\$5.34		
		Total for Check:	120667			\$3,222.93	\$51,999.27
120668	2024-11-06	RAYMOND HANDLING SOLUTIONS	Inv# W11721673	BPO FORKLIFT SERVICE	\$79.00		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 11

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
		Total for Check:	120668			\$79.00	\$784.00
120669	2024-11-06	RED WING SHOE CO. INC.	Inv# 789-1-70575	BPO WORK BOOTS	\$200.00		
120669	2024-11-06	RED WING SHOE CO. INC.	Inv# 789-1-70588	BPO WORK BOOTS	\$200.00		
120669	2024-11-06	RED WING SHOE CO. INC.	Inv# 789-1-70696	BPO WORK BOOTS	\$200.00		
		Total for Check:	120669			\$600.00	\$4,615.11
120670	2024-11-06	Ramirez, Adrian	Inv# AUGUST-OCTOBER 2024 REIMB		\$222.69		
		Total for Check:	120670			\$222.69	\$222.69
120671	2024-11-06	SAN JOAQUIN TRACTOR CO.	Inv# 83582W	RT-31 Mower attachment repair	\$1,235.62		
120671	2024-11-06	SAN JOAQUIN TRACTOR CO.	Inv# 83582W	Incoming freight	\$314.91		
		Total for Check:	120671			\$1,550.53	\$1,550.53
120672	2024-11-06	SOUTHERN CALIFORNIA EDISON CO.	Inv# 700546365072_20241028		\$77,513.15		
		Total for Check:	120672			\$77,513.15	\$2,604,772.29
120673	2024-11-06	SOUTHERN TIRE MART LLC	Inv# 7090035350	BPO TIRES	\$186.48		
120673	2024-11-06	SOUTHERN TIRE MART LLC	Inv# 7090035350	Other	\$1.75		
		Total for Check:	120673			\$188.23	\$2,594.25
120674	2024-11-06	SOUTHWEST VALVE & EQUIPMENT INC.	Inv# 38234B27129	Generated by reorder 9/4/24 7:	\$645.98		
120674	2024-11-06	SOUTHWEST VALVE & EQUIPMENT INC.	Inv# 38234B27129	Freight	\$22.75		
		Total for Check:	120674			\$668.73	\$668.73
120675	2024-11-06	SWAINS ELECTRIC MOTORS	Inv# B08249	Repair Wilo Submersible Pump	\$5,043.67		
120675	2024-11-06	SWAINS ELECTRIC MOTORS	Inv# B08249	Repair Wilo Submersible Pump	\$5,040.00		
120675	2024-11-06	SWAINS ELECTRIC MOTORS	Inv# B08249	Repair Wilo Submersible Pump	\$160.00		
		Total for Check:	120675			\$10,243.67	\$10,243.67
120676	2024-11-06	TETRA TECH, INC.	Inv# 52292639	Thru 7/26 Talbert I24 & I25	\$23,940.00		
120676	2024-11-06	TETRA TECH, INC.	Inv# 52292640	Thru 7/26 PFAS Orange 28 wo#7	\$21,000.00		
120676	2024-11-06	TETRA TECH, INC.	Inv# 52303815	1336 Thru 8/23 Santiago P.St	\$2,925.00		
120676	2024-11-06	TETRA TECH, INC.	Inv# 52303841	Thru 8/23 Talbert I24 & I25	\$3,779.00		
120676	2024-11-06	TETRA TECH, INC.	Inv# 52303842	Thru 8/23 PFAS Orange 28 wo#7	\$19,269.25		
120676	2024-11-06	TETRA TECH, INC.	Inv# 52318873	thru 10/4 PFAS F.Main wo#4	\$72,291.26		
120676	2024-11-06	TETRA TECH, INC.	Inv# 52318873	thru 10/4 PFAS F.Main wo#4	\$148.99		
		Total for Check:	120676			\$143,353.50	\$458,847.97

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 12

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120677	2024-11-06	TROJAN TECHNOLOGIES, INC.	Inv# 200 / 29490	Generated by reorder 9/23/24 7	\$9,814.14		
120677	2024-11-06	TROJAN TECHNOLOGIES, INC.	Inv# 200 / 29490	Generated by reorder 9/23/24 7	\$450.00		
120677	2024-11-06	TROJAN TECHNOLOGIES, INC.	Inv# 200 / 29606	Generated by reorder 10/3/24 6	\$46,831.75		
120677	2024-11-06	TROJAN TECHNOLOGIES, INC.	Inv# 200 / 29606	Generated by reorder 10/3/24 6	\$675.00		
Total for Check: 120677						\$57,770.89	\$461,640.19
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242017	1557	\$52.70		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242018	1557	\$16.77		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242019	1557	\$288.33		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242020	1557	\$10.78		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242021	1557	\$525.21		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242022	1557	\$123.68		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2190242023	1557	\$28.05		
120678	2024-11-06	UNIFIRST CORPORATION	Inv# 2200187368	1557	\$49.86		
Total for Check: 120678						\$1,095.38	\$19,090.97
120679	2024-11-06	UNITED PARCEL SERVICE	Inv# 0000X81601444_20241102		\$18.26		
Total for Check: 120679						\$18.26	\$2,457.86
120680	2024-11-06	UNIVAR SOLUTIONS USA	Inv# 52537857	discount	(\$104.34)		
120680	2024-11-06	UNIVAR SOLUTIONS USA	Inv# 52537859	10/30 22.813 ton sulfuric acid	\$5,155.74		
120680	2024-11-06	UNIVAR SOLUTIONS USA	Inv# 52537859	discount	(\$103.11)		
120680	2024-11-06	UNIVAR SOLUTIONS USA	Inv# 52539459	10/31 500 gal s.bisulfite	\$1,027.69		
120680	2024-11-06	UNIVAR SOLUTIONS USA	Inv# 52539459	discount	(\$20.55)		
120680	2024-11-06	UNIVAR SOLUTIONS USA	Inv# 52537857	10/30 23.085 ton sulfuric acid	\$5,217.21		
Total for Check: 120680						\$11,172.64	\$182,649.75
120681	2024-11-06	US POSTAL SERVICE	Inv# POB 8300, POB 20845 24/25 POB8300,20845	EPS 1000098547	\$1,740.00		
120681	2024-11-06	US POSTAL SERVICE	Inv# POB 8300, POB 20845 24/25 POB8300,20845	EPS 1000098547	\$1,740.00		
Total for Check: 120681						\$3,480.00	\$3,480.00
120682	2024-11-06	UTILIQUEST LLC	Inv# 337705-Q	9/29-10/5 screen/mark pipes	\$1,257.80		
120682	2024-11-06	UTILIQUEST LLC	Inv# 337705-Q	9/29-10/5 screen/mark pipes	\$733.72		
120682	2024-11-06	UTILIQUEST LLC	Inv# 337705-Q	9/29-10/5 screen/mark pipes	\$89.93		
120682	2024-11-06	UTILIQUEST LLC	Inv# 337705-Q	9/29-10/5 screen/mark pipes	\$14.88		
Total for Check: 120682						\$2,096.33	\$36,803.23

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 13

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120683	2024-11-06	VELODYNE	Inv# 0000027476	Generated by reorder 9/23/24 6	\$1,582.31		
120683	2024-11-06	VELODYNE	Inv# 0000027476	Shipping	\$14.14		
		Total for Check:	120683			\$1,596.45	\$1,596.45
120684	2024-11-06	VEOLIA WTS SERVICES USA, INC.	Inv# 902916470	BPO DI WATER SERVICE	\$548.10		
		Total for Check:	120684			\$548.10	\$1,096.20
120685	2024-11-06	VHG LABORATORIES INC.	Inv# 105287538	Lab Supplies	\$77.00		
120685	2024-11-06	VHG LABORATORIES INC.	Inv# 105287538	Lab Supplies	\$77.00		
120685	2024-11-06	VHG LABORATORIES INC.	Inv# 105287538	Lab Supplies	\$75.00		
120685	2024-11-06	VHG LABORATORIES INC.	Inv# 105287538	Lab Supplies	\$70.00		
120685	2024-11-06	VHG LABORATORIES INC.	Inv# 105287538	Freight	\$42.00		
		Total for Check:	120685			\$341.00	\$571.00
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Replacement switches	\$15,552.34		
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Replacement switches	\$5,184.11		
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Replacement switches	\$4,284.00		
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Replacement switches	\$1,411.58		
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Replacement switches	\$753.69		
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Replacement switches	\$54.00		
120686	2024-11-06	VIBRANT TECHNOLOGIES, INC.	Inv# 318162	Freight	\$13.96		
		Total for Check:	120686			\$27,253.68	\$27,253.68
120687	2024-11-06	VWR INTERNATIONAL LLC	Inv# 8817312083		\$129.98		
		Total for Check:	120687			\$129.98	\$26,431.79
120688	2024-11-06	W. A. RASIC CONSTRUCTION COMPANY, INC.	Inv# 345371	Aug24 wo#9 wtr.pipe leak@FHQ	\$8,566.41		
		Total for Check:	120688			\$8,566.41	\$24,225.99
120689	2024-11-06	WASTE MANAGEMENT CORPORATE SERVICES INC	Inv# 1125291-4946-3	11/01/2024 - 11/30/2024	\$324.03		
		Total for Check:	120689			\$324.03	\$1,620.15
120690	2024-11-06	WESTRUX INTERNATIONAL	Inv# 01P191186	BPO EQUIPMENT PARTS	\$411.78		
120690	2024-11-06	WESTRUX INTERNATIONAL	Inv# 01P191186	Miscellaneous	\$2.00		
		Total for Check:	120690			\$413.78	\$413.78
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953959	10/21 4893 gal s.hypochlorite	\$8,425.26		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953959	CA mill	\$206.42		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953959	discount	(\$168.51)		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 14

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953960	10/21 5030 gal s.hypochlorite	\$8,661.16		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953960	CA mill	\$212.20		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953960	discount	(\$173.22)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953961	10/21 4863 gal s.hypochlorite	\$8,373.60		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953961	CA mill	\$205.15		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953961	discount	(\$167.47)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953962	10/21 4982 gal s.hypochlorite	\$8,578.51		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953962	CA mill	\$210.17		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 953962	discount	(\$171.57)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954063	10/22 4930 gal s.hypochlorite	\$8,488.97		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954063	CA mill	\$207.98		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954063	discount	(\$169.78)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954070	10/22 4873 gal s.hypochlorite	\$8,390.82		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954070	CA mill	\$205.58		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954070	discount	(\$167.82)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954071	10/22 4861 gal s.hypochlorite	\$8,370.16		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954071	CA mill	\$205.07		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954071	discount	(\$167.40)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954087	10/22 4707 gal s.hypochlorite	\$8,104.98		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954087	CA mill	\$198.57		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954087	discount	(\$162.10)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954286	10/24 4828 gal s.hypochlorite	\$8,313.33		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954286	CA mill	\$203.68		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954286	discount	(\$166.27)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954287	10/24 4875 gal s.hypochlorite	\$8,394.26		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954287	CA mill	\$205.66		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954287	discount	(\$167.89)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954288	10/24 4954 gal s.hypochlorite	\$8,530.29		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954288	CA mill	\$208.99		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954288	discount	(\$170.61)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954387	10/25 5004 gal s.hypochlorite	\$8,616.39		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954387	CA mill	\$211.10		

Orange County Water District

Check Register

Begin Date: 2024-10-31

End Date: 2024-11-06

Page: 15

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954387	discount	(\$172.33)		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954388	10/25 4822 gal s.hypochlorite	\$8,303.00		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954388	CA mill	\$203.42		
978578	2024-10-31	JCI JONES CHEMICAL, INC	Inv# 954388	discount	(\$166.06)		
		Total for Check:	978578			\$110,043.69	\$1,949,299.07
978579	2024-10-31	WELLS FARGO BANK	Inv# NOVEMBER 1, 24 #6911	Nov.1,24 Dir PR#11	\$19,195.24		
		Total for Check:	978579			\$19,195.24	\$9,112,685.39
978580	2024-11-01	FIDELITY INVESTMENTS	Inv# NOVEMBER 1, 24 401A	Fidelity Plan 89137	\$7,041.69		
		Total for Check:	978580			\$7,041.69	\$2,297,539.14
978581	2024-11-01	FIDELITY INVESTMENTS	Inv# NOVEMBER 1, 24 457B	Plan 89148	\$6,528.39		
		Total for Check:	978581			\$6,528.39	\$982,184.94
978582	2024-11-06	U.S. BANK NA	Inv# COP 2003A INT 10.02-11.05		\$291,729.06		
		Total for Check:	978582			\$291,729.06	\$12,928,119.13
978583	2024-11-06	CITIBANK NA NEW YORK, ABA	Inv# 2007B SWAPPMT 10.02-11.06		\$4,889.32		
		Total for Check:	978583			\$4,889.32	\$23,769.75
Run Date:	11/5/2024				\$4,441,912.01	\$4,441,912.01	

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 1

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
804012	2024-11-13	ALTA FOODCRAFT	Inv# 12451656	BPO FIRST AID & COFFEE	\$166.43		
Total for Check: 804012						\$166.43	\$6,430.76
804013	2024-11-13	IRON MOUNTAIN	Inv# 202928190	BPO ARCHIVAL SERVICES	\$159.54		
Total for Check: 804013						\$159.54	\$25,118.48
804014	2024-11-13	SIGMA-ALDRICH, INC.	Inv# 563843741		\$377.36		
804014	2024-11-13	SIGMA-ALDRICH, INC.	Inv# 563843741		\$21.18		
804014	2024-11-13	SIGMA-ALDRICH, INC.	Inv# 563849001	Lab Supplies	\$189.23		
804014	2024-11-13	SIGMA-ALDRICH, INC.	Inv# 563849001	SHIPPING/HANDLING	\$19.30		
Total for Check: 804014						\$607.07	\$10,483.03
804015	2024-11-13	THERMO ELECTRON NORTH AMERICA LLC	Inv# 9021499331	Lab Supplies	\$1,957.50		
804015	2024-11-13	THERMO ELECTRON NORTH AMERICA LLC	Inv# 9021499331	Shipping and Handling	\$21.75		
804015	2024-11-13	THERMO ELECTRON NORTH AMERICA LLC	Inv# 9021499722	Lab Supplies	\$2,172.83		
804015	2024-11-13	THERMO ELECTRON NORTH AMERICA LLC	Inv# 9021499722	Shipping Handling	\$51.11		
Total for Check: 804015						\$4,203.19	\$31,301.55
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J0991	BPO WATER ANALYSIS	\$130.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J0997	BPO WATER ANALYSIS	\$130.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J1184	BPO WATER ANALYSIS	\$130.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J1186	BPO WATER ANALYSIS	\$120.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J1188	BPO WATER ANALYSIS	\$70.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J1189	BPO WATER ANALYSIS	\$70.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J1296	BPO WATER ANALYSIS	\$300.00		
804016	2024-11-13	WECK LABORATORIES, INC.	Inv# W4J1297	BPO WATER ANALYSIS	\$300.00		
Total for Check: 804016						\$1,250.00	\$14,961.50
804017	2024-11-13	WESTAIR GASES & EQUIPMENT	Inv# 0011918966	helium, nitrogen	\$3,413.25		
804017	2024-11-13	WESTAIR GASES & EQUIPMENT	Inv# 0011918966	haz.mtl, frt, fuel surcharge	\$59.12		
804017	2024-11-13	WESTAIR GASES & EQUIPMENT	Inv# 0011919149	supplies	\$378.56		
804017	2024-11-13	WESTAIR GASES & EQUIPMENT	Inv# 0011919149	hazardous material	\$5.31		
Total for Check: 804017						\$3,856.24	\$47,786.40

Run Date: 11/13/2024

\$10,242.47

\$10,242.47

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 1

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120197	2024-10-09	E & L ELECTRIC	Inv# 86345N	Shipping and Handling	(\$195.88)		
120197	2024-10-09	E & L ELECTRIC	Inv# 86345N	Generated by reorder 8/13/24 8	(\$4,445.07)		
Total for Check: 120197						(\$4,640.95)	\$8,730.90
120691	2024-11-13	AB SCIEX LLC	Inv# 210246582	Supplies	\$1,760.91		
120691	2024-11-13	AB SCIEX LLC	Inv# 210246582	Shipping and Handling	\$54.49		
Total for Check: 120691						\$1,815.40	\$146,012.89
120692	2024-11-13	ACCO ENGINEERED SYSTEMS	Inv# 20613425	540 AC1 Compressor Trip	\$2,478.00		
120692	2024-11-13	ACCO ENGINEERED SYSTEMS	Inv# 20613425	540 AC1 Compressor Trip	\$100.00		
Total for Check: 120692						\$2,578.00	\$128,844.33
120693	2024-11-13	ACE CRANE SERVICE, INC.	Inv# 32450	Crane Inspection - 3rd Quarter	\$3,356.00		
Total for Check: 120693						\$3,356.00	\$6,712.00
120694	2024-11-13	AGILENT TECHNOLOGIES, INC.	Inv# 128783401	Supplies	\$1,948.47		
120694	2024-11-13	AGILENT TECHNOLOGIES, INC.	Inv# 128783401	SHIPPING/HANDLING	\$9.25		
Total for Check: 120694						\$1,957.72	\$145,949.37
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 11XL-D47X-HMVL		\$130.78		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 13L6-PCGJ-CPPF	EMERGENCY/ OFFICE	\$149.68		
			SUPPLIES				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 13L6-PCGJ-CPPF	EMERGENCY/ OFFICE	\$78.40		
			SUPPLIES				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 13L6-PCGJ-CPPF	EMERGENCY/ OFFICE	\$75.98		
			SUPPLIES				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 13L6-PCGJ-CPPF	EMERGENCY/ OFFICE	\$54.36		
			SUPPLIES				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 13L6-PCGJ-CPPF	EMERGENCY/ OFFICE	\$52.18		
			SUPPLIES				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 16MN-WR3H-RQPG		\$367.58		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1GDR-RPDL-L43P	MONITOR FOR ALEX	\$247.81		
			BANUELOS				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1GDR-RPDL-L43P	MONITOR FOR ALEX	\$5.00		
			BANUELOS				
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1PF3-7DYT-FHNW	AMAZON PARTS	\$327.72		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1V97-HN3P-G3YN	Generated by reorder 10/10/24	\$220.90		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1WH3-M4KJ-FJKD	AMAZON PARTS	\$25.33		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1XGC-Y93K-PL4C		\$99.62		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1XGC-Y93K-PL4C		\$70.68		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 2

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1XGC-Y93K-PL4C		\$57.86		
120696	2024-11-13	AMAZON CAPITAL SERVICES, INC	Inv# 1XGC-Y93K-PL4C		\$19.62		
Total for Check:		120696				\$1,983.50	\$17,663.45
120697	2024-11-13	AMERICAN ACADEMY OF ENVIRONMENTAL	Inv# 8843		\$225.00		
Total for Check:		120697				\$225.00	\$225.00
120698	2024-11-13	AT & T	Inv# 000022461652	09/17/2024 - 10/16/2024	\$427.77		
Total for Check:		120698				\$427.77	\$1,587.67
120699	2024-11-13	AVIVA ENERGY CORP.	Inv# 8-1233	1633	\$4,000.00		
Total for Check:		120699				\$4,000.00	\$4,000.00
120700	2024-11-13	AYALA, GINA	Inv# SEPT 15 AND 26, 2024 TRAV		\$30.00		
Total for Check:		120700				\$30.00	\$44.00
120701	2024-11-13	BC2 ENVIRONMENTAL, LLC	Inv# 24-30195	Prog.Pmt#1 (final) SG-2024-1	\$334,974.75		
120701	2024-11-13	BC2 ENVIRONMENTAL, LLC	Inv# 24-30195	Prog.Pmt#1 (final) SG-2024-1	\$12,088.75		
Total for Check:		120701				\$347,063.50	\$503,123.43
120702	2024-11-13	BEDARD AUTOMOTIVE, INC.	Inv# 41410	Annual smog check of even numb	\$60.00		
120702	2024-11-13	BEDARD AUTOMOTIVE, INC.	Inv# 41411	Annual smog check of even numb	\$60.00		
Total for Check:		120702				\$120.00	\$840.00
120703	2024-11-13	BIOTAGE LLC	Inv# 205778	Supplies	\$1,445.61		
Total for Check:		120703				\$1,445.61	\$28,609.02
120704	2024-11-13	BLUESPACE INTERIORS	Inv# 1-02258131	Replacement chair armrests Zac	\$108.75		
120704	2024-11-13	BLUESPACE INTERIORS	Inv# I-02257824	Generated by reorder 9/23/24 7	\$2,370.75		
120704	2024-11-13	BLUESPACE INTERIORS	Inv# I-02257824	Fuel Surcharge	\$2.99		
Total for Check:		120704				\$2,482.49	\$6,231.04
120705	2024-11-13	BOOT BARN INC.	Inv# INV00412631	BPO BOOTS	\$200.00		
120705	2024-11-13	BOOT BARN INC.	Inv# INV00412632	BPO BOOTS	\$121.21		
120705	2024-11-13	BOOT BARN INC.	Inv# INV00412633	BPO BOOTS	\$200.00		
120705	2024-11-13	BOOT BARN INC.	Inv# INV00414112	BPO BOOTS	\$200.00		
Total for Check:		120705				\$721.21	\$2,948.66
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473019	11/4 21.75 ton citric acid	\$28,714.90		
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473019	discount	(\$574.30)		
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473718	11/6 21.77 ton H.Peroxide	\$10,885.00		
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473718	discount	(\$217.70)		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 3

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473719	11/6 11.1749 ton caustic soda	\$8,215.22		
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473719	superfund tax	\$8.99		
120706	2024-11-13	BRENNTAG PACIFIC INC.	Inv# BPI473719	discount	(\$164.48)		
		Total for Check:	120706			\$46,867.63	\$645,015.99
120707	2024-11-13	BURLINGTON SAFETY LABORATORY, INC.	Inv# 96859	Rubber Insulating Gloves Retes	\$157.50		
120707	2024-11-13	BURLINGTON SAFETY LABORATORY, INC.	Inv# 96859	Freight	\$20.00		
120707	2024-11-13	BURLINGTON SAFETY LABORATORY, INC.	Inv# 96859	Discount	(\$1.58)		
		Total for Check:	120707			\$175.92	\$2,119.74
120708	2024-11-13	BUTIER ENGINEERING, INC.	Inv# OCWD 1558 010	Sept24 PFAS TUS-2022-1	\$106,839.44		
		Total for Check:	120708			\$106,839.44	\$454,930.01
120709	2024-11-13	C5 EQUIPMENT RENTALS LLC	Inv# 9534	BPO RENTAL EQUIPMENT	\$5,566.37		
120709	2024-11-13	C5 EQUIPMENT RENTALS LLC	Inv# 9534	Envr fee	\$155.00		
120709	2024-11-13	C5 EQUIPMENT RENTALS LLC	Inv# 9536	BPO RENTAL EQUIPMENT	\$5,566.37		
120709	2024-11-13	C5 EQUIPMENT RENTALS LLC	Inv# 9536	Envr Fee	\$155.00		
120709	2024-11-13	C5 EQUIPMENT RENTALS LLC	Inv# 9554	BPO RENTAL EQUIPMENT	\$4,173.16		
120709	2024-11-13	C5 EQUIPMENT RENTALS LLC	Inv# 9554	Envr Fee	\$116.00		
		Total for Check:	120709			\$15,731.90	\$41,017.38
120710	2024-11-13	COASTLINE EQUIPMENT COMPANY, INC.	Inv# 1178241	JOHN DEERE 450 BULLDOZER	\$211,996.98		
120710	2024-11-13	COASTLINE EQUIPMENT COMPANY, INC.	Inv# 1178241	JOHN DEERE 450 BULLDOZER	\$695.00		
		Total for Check:	120710			\$212,691.98	\$213,397.77
120711	2024-11-13	COLE-PARMER INSTRUMENT CO.	Inv# 3844213	conductivity calib. stand HAN	\$60.90		
120711	2024-11-13	COLE-PARMER INSTRUMENT CO.	Inv# 3844213	Freight	\$21.22		
		Total for Check:	120711			\$82.12	\$2,644.38
120712	2024-11-13	CONSTELLATION NEWENERGY INC.	Inv# 69461162401	07/23/2024 to 08/21/2024	\$18,262.67		
120712	2024-11-13	CONSTELLATION NEWENERGY INC.	Inv# 69461162601	08/21/2024 to 09/20/2024	\$19,866.23		
120712	2024-11-13	CONSTELLATION NEWENERGY INC.	Inv# 69469248001	09/20/2024 to 10/21/2024	\$16,195.20		
		Total for Check:	120712			\$54,324.10	\$7,615,634.85

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 4

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120713	2024-11-13	CPI INTERNATIONAL	Inv# 20066984	Lab Supplies	\$152.25		
120713	2024-11-13	CPI INTERNATIONAL	Inv# 20066984	Discount	(\$2.80)		
		Total for Check:	120713			\$149.45	\$6,544.89
120714	2024-11-13	EMERSON PROCESS MANAGEMENT LLLP	Inv# 30830214	Generated by reorder 8/29/24 9	\$10,766.05		
120714	2024-11-13	EMERSON PROCESS MANAGEMENT LLLP	Inv# 30830214	Frt&Handling	\$11.40		
		Total for Check:	120714			\$10,777.45	\$67,797.77
120715	2024-11-13	EPPENDORF NORTH AMERICA INC.	Inv# 4009200251	SAMPLE ANALYSIS	\$1,466.40		
		Total for Check:	120715			\$1,466.40	\$3,034.08
120716	2024-11-13	EVANTEC CORPORATION	Inv# 202401574	Generated by reorder 10/7/24 1	\$430.65		
120716	2024-11-13	EVANTEC CORPORATION	Inv# 202401574	S&H	\$53.00		
		Total for Check:	120716			\$483.65	\$25,655.47
120717	2024-11-13	FACTORY MOTOR PARTS	Inv# 164-364358	BPO AUTO PARTS	\$44.86		
		Total for Check:	120717			\$44.86	\$5,955.16
120718	2024-11-13	FEDERAL EXPRESS CORPORATION	Inv# 2-328-06650	Package Delivery	\$3.49		
120718	2024-11-13	FEDERAL EXPRESS CORPORATION	Inv# 8-675-60425	Package Delivery	\$491.23		
		Total for Check:	120718			\$494.72	\$6,410.15
120719	2024-11-13	FILMTEC CORP	Inv# 951851235	MF MEMBRANE MODULES	\$292,133.38		
120719	2024-11-13	FILMTEC CORP	Inv# 951851235	MF MEMBRANE MODULES	\$44,000.00		
		Total for Check:	120719			\$336,133.38	\$2,002,704.65
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5801702		\$480.25		
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5801703	Supplies	\$47.25		
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5837393	Supplies	\$244.19		
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5837393	Supplies	\$75.74		
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5837394	Supplies	\$927.33		
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5873246	Supplies	\$132.22		
120720	2024-11-13	FISHER SCIENTIFIC CO.	Inv# 5873247	Supplies	\$143.53		
		Total for Check:	120720			\$2,050.51	\$107,343.87
120721	2024-11-13	FRONTIER COMMUNICATIONS	Inv# 323-171-0001_20241026	10/26/2024 to 11/25/2024	\$555.00		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 5

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
		Total for Check:	120721			\$555.00	\$22,891.29
120722	2024-11-13	FRONTIER COMMUNICATIONS	Inv# 714-964-1492_20241028	10/28/2024 to	\$76.62		
			11/27/2024				
		Total for Check:	120722			\$76.62	\$22,891.29
120723	2024-11-13	FRUIT GROWERS LABORATORY INC	Inv# 414850A	BPO RADIOACTIVITY ANAYLSIS	\$103.00		
120723	2024-11-13	FRUIT GROWERS LABORATORY INC	Inv# 415846A	BPO RADIOACTIVITY ANAYLSIS	\$201.00		
		Total for Check:	120723			\$304.00	\$14,274.00
120724	2024-11-13	GANAHL LUMBER COMPANY	Inv# 021080491	Room Rental Fee	\$200.00		
		Total for Check:	120724			\$200.00	\$433.65
120726	2024-11-13	GRAINGER INC.	Inv# 9280912263	BPO INDUSTRIAL SUPPLIES	\$45.92		
120726	2024-11-13	GRAINGER INC.	Inv# 9280912263	BPO INDUSTRIAL SUPPLIES	\$28.33		
120726	2024-11-13	GRAINGER INC.	Inv# 9282145706	BPO INDUSTRIAL SUPPLIES	\$93.18		
120726	2024-11-13	GRAINGER INC.	Inv# 9283992668	BPO INDUSTRIAL SUPPLIES	\$59.89		
120726	2024-11-13	GRAINGER INC.	Inv# 9285261732	BPO INDUSTRIAL SUPPLIES	\$170.33		
120726	2024-11-13	GRAINGER INC.	Inv# 9284727196	BPO INDUSTRIAL SUPPLIES	\$56.11		
120726	2024-11-13	GRAINGER INC.	Inv# 9285357902	BPO INDUSTRIAL SUPPLIES	\$43.46		
120726	2024-11-13	GRAINGER INC.	Inv# 9285574936		\$1,207.71		
120726	2024-11-13	GRAINGER INC.	Inv# 9285574936		\$1,028.73		
120726	2024-11-13	GRAINGER INC.	Inv# 9285574936		\$472.93		
120726	2024-11-13	GRAINGER INC.	Inv# 9285574936		\$301.59		
120726	2024-11-13	GRAINGER INC.	Inv# 9285574936		\$104.24		
		Total for Check:	120726			\$3,612.42	\$87,618.04
120727	2024-11-13	HACH COMPANY	Inv# 14225849	Reagent KitEZ1022 H2 JHAMMER	\$556.80		
120727	2024-11-13	HACH COMPANY	Inv# 14225849	Reagent KitEZ1022 H2 JHAMMER	\$18.70		
		Total for Check:	120727			\$575.50	\$19,341.28
120728	2024-11-13	HOME DEPOT CREDIT SERVICES	Inv# 5283409	BPO INDUSTRIAL SUPPLIES	\$34.21		
120728	2024-11-13	HOME DEPOT CREDIT SERVICES	Inv# 8542018	BPO INDUSTRIAL SUPPLIES	\$85.79		
		Total for Check:	120728			\$120.00	\$13,628.23
120729	2024-11-13	Haney, Lisa	Inv# DEC 7-9, 2023 TRAVEL	12/7/23 meal deduction	(\$14.25)		
120729	2024-11-13	Haney, Lisa	Inv# NOV23-OCT24 STIPENDS	11/30/23-10/29/24	\$440.00		
			stipends(11)				
		Total for Check:	120729			\$425.75	\$425.75

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 6

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120730	2024-11-13	INNOVAPREP LLC	Inv# 19045	Julio Polanco	\$828.00		
120730	2024-11-13	INNOVAPREP LLC	Inv# 19045	Julio Polanco	\$32.37		
Total for Check: 120730						\$860.37	\$4,299.37
120731	2024-11-13	IRVINE PIPE & SUPPLY CO	Inv# S118989938.003	Generated by reorder 9/4/24 7:	\$82.43		
120731	2024-11-13	IRVINE PIPE & SUPPLY CO	Inv# S118989938.003		\$10.17		
120731	2024-11-13	IRVINE PIPE & SUPPLY CO	Inv# S118989938.003		(\$1.52)		
Total for Check: 120731						\$91.08	\$32,560.39
120732	2024-11-13	KONICA MINOLTA BUSINESS SOLUTIONS USA IN	Inv# 296451793	BPO COPY CHARGES	\$29.15		
120732	2024-11-13	KONICA MINOLTA BUSINESS SOLUTIONS USA IN	Inv# 296452158	BPO COPY CHARGES	\$65.31		
120732	2024-11-13	KONICA MINOLTA BUSINESS SOLUTIONS USA IN	Inv# 296452417	BPO COPY CHARGES	\$39.73		
Total for Check: 120732						\$134.19	\$20,421.91
120733	2024-11-13	LHOIST NORTH AMERICA	Inv# 1102422126	10/13 lime(2)25.17, 24.78 tons	\$22,385.59		
Total for Check: 120733						\$22,385.59	\$625,102.67
120734	2024-11-13	LILLESTRAND LEADERSHIP CONSULTING	Inv# 8067	10/2-10 leadership consulting	\$2,250.00		
Total for Check: 120734						\$2,250.00	\$15,275.00
120735	2024-11-13	LONG BEACH COMPRESSOR INC	Inv# 13666	Atlas Copco Compressor B02 Co	\$2,773.13		
120735	2024-11-13	LONG BEACH COMPRESSOR INC	Inv# 13666	Atlas Copco Compressor B02 Co	\$650.00		
120735	2024-11-13	LONG BEACH COMPRESSOR INC	Inv# 13666	Atlas Copco Compressor B02 Co	\$57.00		
120735	2024-11-13	LONG BEACH COMPRESSOR INC	Inv# 13666	Inbound Freight	\$55.67		
Total for Check: 120735						\$3,535.80	\$4,184.32
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6734	OCWD Fiber Repair. Broke Out a	\$527.08		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6734	OCWD Fiber Repair. Broke Out a	\$257.70		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6734	OCWD Fiber Repair. Broke Out a	\$97.20		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6734	OCWD Fiber Repair. Broke Out a	\$81.25		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6747	Emergency Fiber Repairs Pipeli	\$379.08		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6747	Emergency Fiber Repairs Pipeli	\$263.48		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6747	Emergency Fiber Repairs Pipeli	\$100.52		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6747	Emergency Fiber Repairs Pipeli	\$30.00		
120736	2024-11-13	M.B. HERZOG ELECTRIC INC.	Inv# 6734	OCWD Fiber Repair. Broke Out a	\$30.00		
Total for Check: 120736						\$1,766.31	\$1,766.31

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 7

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120737	2024-11-13	MAIL DELIVERY SERVICE CO.	Inv# 22637	OCWD	\$353.56		
120737	2024-11-13	MAIL DELIVERY SERVICE CO.	Inv# 22637	MWDOC	\$38.94		
120737	2024-11-13	MAIL DELIVERY SERVICE CO.	Inv# 22637	Fuel SC	\$21.17		
120737	2024-11-13	MAIL DELIVERY SERVICE CO.	Inv# 22637	Fuel SC	\$2.33		
Total for Check: 120737						\$416.00	\$2,053.50
120738	2024-11-13	MCFADDEN-DALE HARDWARE CO.	Inv# 388272/3	BPO INDUSTRIAL SUPPLIES	\$79.64		
120738	2024-11-13	MCFADDEN-DALE HARDWARE CO.	Inv# 388272/3		(\$2.19)		
Total for Check: 120738						\$77.45	\$3,241.28
120739	2024-11-13	MCMaster-CARR SUPPLY COMPANY	Inv# 35794474	R24024 - Basin aerator project	\$781.19		
120739	2024-11-13	MCMaster-CARR SUPPLY COMPANY	Inv# 35794474		\$15.54		
120739	2024-11-13	MCMaster-CARR SUPPLY COMPANY	Inv# 35794474		(\$15.62)		
120739	2024-11-13	MCMaster-CARR SUPPLY COMPANY	Inv# 36142735	BPO INDUSTRIAL SUPPLIES	\$78.87		
120739	2024-11-13	MCMaster-CARR SUPPLY COMPANY	Inv# 36142735	Shipping	\$8.33		
120739	2024-11-13	MCMaster-CARR SUPPLY COMPANY	Inv# 36142735	Discount	(\$1.58)		
Total for Check: 120739						\$866.73	\$7,202.03
120740	2024-11-13	MICROTECH SCIENTIFIC	Inv# 37308	SAMPLE BOTTLES	\$454.37		
120740	2024-11-13	MICROTECH SCIENTIFIC	Inv# 37308	Freight	\$19.31		
Total for Check: 120740						\$473.68	\$473.68
120741	2024-11-13	MUNICIPAL WATER DISTRICT OF OC	Inv# 11603	September 2024 water	\$110,753.27		
Total for Check: 120741						\$110,753.27	\$1,240,728.73
120742	2024-11-13	NAPA AUTO PARTS	Inv# 136961	BPO TRUCK PARTS	\$334.01		
Total for Check: 120742						\$334.01	\$7,495.62
120743	2024-11-13	NORTHERN SAFETY COMPANY	Inv# 906484237	FIELD SAFETY WEAR	\$97.88		
120743	2024-11-13	NORTHERN SAFETY COMPANY	Inv# 906484237	FIELD SAFETY WEAR	\$97.87		
120743	2024-11-13	NORTHERN SAFETY COMPANY	Inv# 906484237	FIELD SAFETY WEAR	\$44.57		
Total for Check: 120743						\$240.32	\$240.32
120744	2024-11-13	ODP BUSINESS SOLUTIONS LLC	Inv# 392655779001	Generated by reorder 10/16/24	\$42.85		
120744	2024-11-13	ODP BUSINESS SOLUTIONS LLC	Inv# 393729029001		\$180.70		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 8

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
		Total for Check:	120744			\$223.55	\$1,562.48
120745	2024-11-13	ORANGE COUNTY EMPLOYEE ASSOCIATION	Inv# OCEAOCT2024	BAL DUE OCEA DUES Oct2024	\$2,875.95		
		Total for Check:	120745			\$2,875.95	\$15,569.40
120746	2024-11-13	POWER PROS	Inv# 6241758-560	Battery Changeout Extended Bat	\$6,019.00		
120746	2024-11-13	POWER PROS	Inv# 6241758-560	Battery Changeout Extended Bat	\$2,664.00		
120746	2024-11-13	POWER PROS	Inv# 6241758-560	Battery Changeout Extended Bat	\$375.00		
		Total for Check:	120746			\$9,058.00	\$22,768.00
120747	2024-11-13	PURCOR PEST SOLUTIONS	Inv# 11894959	BPO RODENT CONTROL	\$525.00		
		Total for Check:	120747			\$525.00	\$3,550.00
120748	2024-11-13	QUINN COMPANY	Inv# PC830427152	BPO EQUIPMENT & SUPPLIES	\$53.41		
120748	2024-11-13	QUINN COMPANY	Inv# PC830427193	(R24025) TL-36 Undercarriage r	\$2,478.25		
120748	2024-11-13	QUINN COMPANY	Inv# PC830427193	Freight In	\$204.92		
		Total for Check:	120748			\$2,736.58	\$54,735.85
120749	2024-11-13	POWERPLAN OIB	Inv# P8505035	BPO HEAVY EQUIPMENT SUPPLIES	\$197.41		
		Total for Check:	120749			\$197.41	\$8,389.37
120750	2024-11-13	RADWELL INTERNATIONAL INC.	Inv# 34827230	Micro Line PowerSupply JHAMMER	\$294.72		
120750	2024-11-13	RADWELL INTERNATIONAL INC.	Inv# 34827230	Micro Line PowerSupply JHAMMER	\$129.97		
120750	2024-11-13	RADWELL INTERNATIONAL INC.	Inv# 34827230	Freight	\$21.96		
120750	2024-11-13	RADWELL INTERNATIONAL INC.	Inv# 34827230	Micro Line PowerSupply JHAMMER	\$16.32		
		Total for Check:	120750			\$462.97	\$1,979.26
120751	2024-11-13	RAINBOW DISPOSAL CO INC	Inv# 0605-001132604	BPO TRASH SERVICE	\$6,735.66		
		Total for Check:	120751			\$6,735.66	\$33,211.10
120752	2024-11-13	RAYMOND HANDLING SOLUTIONS	Inv# W11722809	BPO FORKLIFT SERVICE	\$117.00		
120752	2024-11-13	RAYMOND HANDLING SOLUTIONS	Inv# W11722810	BPO FORKLIFT SERVICE	\$117.00		
120752	2024-11-13	RAYMOND HANDLING SOLUTIONS	Inv# W11723269	BPO FORKLIFT SERVICE	\$79.00		
		Total for Check:	120752			\$313.00	\$1,097.00
120753	2024-11-13	RED WING SHOE CO. INC.	Inv# 789-1-70837	BPO WORK BOOTS	\$200.00		
		Total for Check:	120753			\$200.00	\$4,815.11
120754	2024-11-13	SALAMON ART INC	Inv# 56929	FRAME FOR MISSION STMNT	\$70.69		
		Total for Check:	120754			\$70.69	\$70.69
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$3,175.11		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$1,102.96		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 9

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$402.00		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$346.83		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$344.09		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$280.88		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$151.18		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$150.56		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$128.11		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$97.71		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$88.73		
120756	2024-11-13	SC FUELS	Inv# 0949504	BPO UNLEADED FUEL	\$49.38		
Total for Check: 120756						\$6,317.54	\$43,097.92
120757	2024-11-13	SEAL ANALYTICAL	Inv# 65084	Lab Supplies	\$200.64		
120757	2024-11-13	SEAL ANALYTICAL	Inv# 65084	Lab Supplies	\$189.88		
120757	2024-11-13	SEAL ANALYTICAL	Inv# 65084	Lab Supplies	\$48.94		
120757	2024-11-13	SEAL ANALYTICAL	Inv# 65084	Shipping	\$25.00		
Total for Check: 120757						\$464.46	\$13,232.06
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569159-001	MAINTENANCE SUPPLIES YADI	\$292.13		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569159-001	Discount	(\$5.35)		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569334-001	MAINTENANCE SUPPLIES YADI	\$292.13		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569334-001	Discount	(\$5.35)		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569505-001	Discount	(\$5.35)		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569761-001	BPO LANDSCAPE SUPPLIES	\$137.71		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569761-001	Discount	(\$2.52)		
120758	2024-11-13	SITEONE LANDSCAPE SUPPLY	Inv# 147569505-001	MAINTENANCE SUPPLIES YADI	\$292.13		
Total for Check: 120758						\$995.53	\$1,669.68
120759	2024-11-13	SOUTH COAST A.Q.M.D.	Inv# 4435130		\$541.04		
120759	2024-11-13	SOUTH COAST A.Q.M.D.	Inv# 4437561		\$165.96		
Total for Check: 120759						\$707.00	\$10,890.93
120760	2024-11-13	SOUTHERN CALIFORNIA EDISON CO.	Inv# 700306425771_20241101		\$70,465.06		
Total for Check: 120760						\$70,465.06	\$2,675,237.35
120761	2024-11-13	SOUTHWEST MATERIAL HANDLING INC.	Inv# PSVI-219860	BPO FOR FORKLIFT SERVICE	\$152.00		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 10

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120761	2024-11-13	SOUTHWEST MATERIAL HANDLING INC.	Inv# PSVI-219860		\$68.08		
120761	2024-11-13	SOUTHWEST MATERIAL HANDLING INC.	Inv# SPINV-078556	RO:E-26 REPLACE MOTOR	\$1,504.28		
120761	2024-11-13	SOUTHWEST MATERIAL HANDLING INC.	Inv# SPINV-078556	Freight	\$55.00		
Total for Check: 120761						\$1,779.36	\$3,988.48
120762	2024-11-13	STANTEC CONSULTING INC. (SCI)	Inv# 2298146	thru 9/27 PFAS SA 38 wo#1	\$55,570.65		
120762	2024-11-13	STANTEC CONSULTING INC. (SCI)	Inv# 2298146	thru 9/27 PFAS SA 38 wo#1	\$518.40		
Total for Check: 120762						\$56,089.05	\$225,658.26
120763	2024-11-13	STATE WATER RESOURCES CONTROL BOARD	Inv# EA-AM-1024-1114		\$1,950.00		
Total for Check: 120763						\$1,950.00	\$6,217.23
120764	2024-11-13	STERLITECH CORPORATION	Inv# INV146189	NAWI RO RICE MFS PROJECT	\$58,766.53		
120764	2024-11-13	STERLITECH CORPORATION	Inv# INV146189	Shipping	\$622.36		
Total for Check: 120764						\$59,388.89	\$59,388.89
120765	2024-11-13	SUNSET INDUSTRIAL PARTS	Inv# INV75339	Generated by reorder 10/22/24	\$1,323.34		
120765	2024-11-13	SUNSET INDUSTRIAL PARTS	Inv# INV75339		(\$12.17)		
120765	2024-11-13	SUNSET INDUSTRIAL PARTS	Inv# INV75379	Generated by reorder 8/20/24 2	\$4,848.39		
Total for Check: 120765						\$6,159.56	\$12,259.72
120766	2024-11-13	SUNSTATE EQUIPMENT CO.	Inv# 12827457-001	BPO EQUIPMENT RENTAL	\$846.63		
120766	2024-11-13	SUNSTATE EQUIPMENT CO.	Inv# 12827457-001	BPO EQUIPMENT RENTAL	\$114.75		
Total for Check: 120766						\$961.38	\$1,255.55
120767	2024-11-13	SWRCB	Inv# RW-1047253		\$25,093.80		
Total for Check: 120767						\$25,093.80	\$25,093.80
120768	2024-11-13	TAB ANSWER NETWORK CALL CENTER	Inv# 1505410172024		\$91.56		
Total for Check: 120768						\$91.56	\$437.17
120769	2024-11-13	TOM'S TRUCK CENTER, INC	Inv# 1350063	BPO FORD PARTS	\$57.42		
120769	2024-11-13	TOM'S TRUCK CENTER, INC	Inv# 1350063	Freight	\$27.00		
Total for Check: 120769						\$84.42	\$2,952.87
120770	2024-11-13	U-LINE	Inv# 184504261	Generated by reorder 10/16/24	\$239.38		
120770	2024-11-13	U-LINE	Inv# 184504261	Generated by reorder 10/16/24	\$40.84		
Total for Check: 120770						\$280.22	\$5,376.90

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 11

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120771	2024-11-13	U.S. BANK	Inv# 14489683	09.01-09.30.24	\$1,145.67		
Total for Check: 120771						\$1,145.67	\$14,006.75
120772	2024-11-13	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# CMF OCTOBER 2024 CC		\$1,443.22		
120772	2024-11-13	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# JLK OCTOBER 2024 CC		\$5,086.97		
120772	2024-11-13	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# LAV OCTOBER 2024 CC		\$2,233.75		
120772	2024-11-13	U.S. BANK CORPORATE PAYMENT SYSTEM	Inv# MW OCTOBER 2024 CC		\$25,512.59		
Total for Check: 120772						\$34,276.53	\$205,661.36
120773	2024-11-13	UCT LLC	Inv# INL111006		\$4,080.85		
Total for Check: 120773						\$4,080.85	\$9,968.51
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190241562	1557	\$272.45		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190241562	1557	\$8.32		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245180	1557	\$52.70		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245181	1557	\$16.77		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245182	1557	\$277.55		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245183	1557	\$10.78		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245184	1557	\$448.41		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245185	1557	\$118.80		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2190245186	1557	\$28.05		
120774	2024-11-13	UNIFIRST CORPORATION	Inv# 2200189934	1557	\$49.86		
Total for Check: 120774						\$1,283.69	\$20,374.66
120775	2024-11-13	UNITED PARCEL SERVICE	Inv# 0000X81601454_20241109		\$331.42		
Total for Check: 120775						\$331.42	\$2,789.28
120776	2024-11-13	UNIVERSAL BACKGROUND SCREENING INC	Inv# 202410008258	BPO BACKGROUND CHECK	\$869.05		
Total for Check: 120776						\$869.05	\$3,435.10
120777	2024-11-13	UTILIQUEST LLC	Inv# 337880-Q	10/6-12 screen/mark pipes	\$1,058.73		
120777	2024-11-13	UTILIQUEST LLC	Inv# 337880-Q	10/6-12 screen/mark pipes	\$617.60		
120777	2024-11-13	UTILIQUEST LLC	Inv# 337880-Q	10/6-12 screen/mark pipes	\$75.70		
120777	2024-11-13	UTILIQUEST LLC	Inv# 337880-Q	10/6-12 screen/mark pipes	\$12.53		
Total for Check: 120777						\$1,764.56	\$38,567.79

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 12

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
120778	2024-11-13	VWR INTERNATIONAL LLC	Inv# 8817381779		\$90.99		
120778	2024-11-13	VWR INTERNATIONAL LLC	Inv# 8817381781		\$4,500.51		
Total for Check: 120778						\$4,591.50	\$31,023.29
120779	2024-11-13	WALTERS WHOLESALE ELECTRIC CO.	Inv# S126607625.001	Generated by reorder 10/23/24	\$255.22		
120779	2024-11-13	WALTERS WHOLESALE ELECTRIC CO.	Inv# S126607625.001	Generated by reorder 10/23/24	\$242.08		
120779	2024-11-13	WALTERS WHOLESALE ELECTRIC CO.	Inv# S126607625.001	Shipping	\$23.30		
120779	2024-11-13	WALTERS WHOLESALE ELECTRIC CO.	Inv# S126607625.001	Discount	(\$9.23)		
Total for Check: 120779						\$511.37	\$8,930.93
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954483	10/28 4950 gal s.hypochlorite	\$8,523.41		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954483	CA mill	\$208.82		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954483	discount	(\$170.47)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954484	10/28 4972 gal s.hypochlorite	\$8,561.29		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954484	CA mill	\$209.75		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954484	discount	(\$171.23)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954488	10/28 4812 gal s.hypochlorite	\$8,285.78		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954488	CA mill	\$203.00		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954488	discount	(\$165.72)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954489	10/28 4816 gal s.hypochlorite	\$8,292.67		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954489	CA mill	\$203.17		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954568	10/29 4840 gal s.hypochlorite	\$8,334.00		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954568	CA mill	\$204.18		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954568	discount	(\$166.68)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954569	10/29 4782 gal s.hypochlorite	\$8,234.13		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954569	CA mill	\$201.74		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954569	discount	(\$164.68)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954570	10/29 4879 gal s.hypochlorite	\$8,401.15		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954570	CA mill	\$205.83		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954570	discount	(\$168.02)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954571	10/29 4813 gal s.hypochlorite	\$8,287.50		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954571	CA mill	\$203.04		

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 13

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954571	discount	(\$165.75)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954744	10/31 4848 gal s.hypochlorite	\$8,347.77		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954744	CA mill	\$204.52		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954744	discount	(\$166.96)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954745	10/31 5024 gal s.hypochlorite	\$8,650.83		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954745	CA mill	\$211.95		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954745	discount	(\$173.02)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954746	10/31 4875 gal s.hypochlorite	\$8,394.26		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954746	CA mill	\$205.66		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954746	discount	(\$167.89)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954902	11/1 4812 gal s.hypochlorite	\$8,285.78		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954902	CA mill	\$203.00		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954902	discount	(\$165.72)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954903	11/1 4861 gal s.hypochlorite	\$8,370.16		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954903	CA mill	\$205.07		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954903	discount	(\$167.40)		
978584	2024-11-07	JCI JONES CHEMICAL, INC	Inv# 954489	discount	(\$165.85)		
Total for Check:		978584				\$109,459.07	\$2,058,758.14
978585	2024-11-07	U.S. ENVIRONMENTAL PROTECTION AGENCY	Inv# N17116CA FEE02 2024	N17116CA GWRSFE	\$9,500.00		
Total for Check:		978585				\$9,500.00	\$28,500.00
978586	2024-11-07	U.S. ENVIRONMENTAL PROTECTION AGENCY	Inv# N20116CA FEE02 2024	N20116CA FEE02 PFAS	\$19,000.00		
Total for Check:		978586				\$19,000.00	\$28,500.00
978587	2024-11-12	WELLS FARGO BANK	Inv# NOVEMBER 13, 2024 #6527	Nov.13,24 PR#23	\$39,145.61		
Total for Check:		978587				\$39,145.61	\$10,122,707.18
978588	2024-11-12	WELLS FARGO BANK	Inv# NOVEMBER 13, 2024 #6911	Nov.13, 24 PR#23	\$968,726.50		
Total for Check:		978588				\$968,726.50	\$10,122,707.18
978589	2024-11-12	WELLS FARGO BANK	Inv# NOVEMBER 13, 24 GARNCREG	Nov.13,24 PR#23	\$359.38		
Total for Check:		978589				\$359.38	\$10,122,707.18

Orange County Water District

Check Register

Begin Date: 2024-11-07

End Date: 2024-11-13

Page: 14

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

Check No.	Date	Vendor Name	Invoice #	Purpose	Invoice Amount	Check Amount	FYTD
978590	2024-11-12	WELLS FARGO BANK	Inv# NOVEMBER 13, 24 GARNABF GARNABF	Nov.13,24 PR#23	\$1,790.30		
Total for Check:		978590				\$1,790.30	\$10,122,707.18
978591	2024-11-13	FIDELITY INVESTMENTS	Inv# NOVEMBER 13, 2024 401A	Plan 89137	\$245,798.81		
Total for Check:		978591				\$245,798.81	\$2,543,337.95
978592	2024-11-13	FIDELITY INVESTMENTS	Inv# NOVEMBER 13, 24 457B	Plan 89148	\$104,411.85		
Total for Check:		978592				\$104,411.85	\$1,086,596.79
Run Date: 11/13/2024					\$3,103,205.65	\$3,103,205.65	

MINUTES OF MEETING
BOARD OF DIRECTORS, ORANGE COUNTY WATER DISTRICT
October 16, 2024 5:30 p.m.

President Green called to order the October 16, 2024 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
Dina Nguyen
Natalie Meeks
Stephen Sheldon (absent)
Van Tran
Erik Weigand
Bruce Whitaker (participated as public)
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 Senior Hydrogeologist David Field.

VISITOR PARTICIPATION

Mesa Water District General Manager Paul Shoenberger congratulated OCWD on the Appellate Court's ruling on the Irvine Ranch Water District (IRWD) litigation.

CONSENT CALENDAR

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

Ayes: Amezcua, Bilodeau, Green, Meeks, Nguyen, Tran, Weigand, Yoh

Absent: Sheldon, Whitaker

1. Approval of Cash Disbursements

MOTION NO. 24-95
APPROVING CASH DISBURSEMENTS

Payment of bills for the period of September 26, 2024 through October 09, 2024 in the total amount of \$6,421,024.88 is ratified and approved.

2. Minutes of Board of Directors Meetings held September 18 and October 2, 2024

MOTION NO. 24-96
APPROVING MINUTES OF BOARD OF DIRECTORS MEETINGS

The Minutes of the Board of Directors meetings held September 18 and October 2, 2024 are hereby approved as presented.

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

3. Operational Efficiency Study – Booky Oren Global Water Technologies

RESOLUTION NO. 24-10-125
AUTHORIZING AGREEMENT TO BOOKY OREN GLOBAL WATER TECHNOLOGIES LTD FOR OPERATIONAL EFFICIENCY STUDY

RESOLVED, that issuance of Agreement to Booky Oren Global Water Technologies Ltd. is authorized in an amount not to exceed \$60,000 in accordance with its proposal dated September 1, 2024; and, upon approval as to form by District General Counsel, its execution by the District officers is authorized.

4. Replacement of the Groundwater Replenishment System Fountain Valley Campus Fire Panels from Edwards Est-3 Series to Est-4 Series Due to Obsolescence

RESOLUTION NO. 24-10-126
AUTHORIZING AGREEMENT TO TRL SYSTEMS FOR SERVICES AND MATERIALS TO PERMIT, REPLACE, PROGRAM, TEST AND CERTIFY THE FACP SYSTEM

RESOLVED, that issuance of Agreement to TRL Systems is authorized in the amount of \$589,239 for services and materials to permit, replace, program, test and certify the FACP system.

5. Purchase Order to Thermo Scientific for One Ion Chromatograph Tandem Mass Spectrometer (IC-MS/MS)

RESOLUTION NO. 24-10-127
AUTHORIZING ISSUANCE OF PURCHASE ORDER TO THERMO SCIENTIFIC FOR ONE ION CHROMATOGRAPH TANDEM MASS SPECTROMETER (IC-MS/MS)

Authorize issuance of Purchase Order to Thermo Scientific for the total amount of \$334,845 for one Thermo Scientific Ion Chromatograph tandem Mass Spectrometer coupled with a TSQ Quantis Plus Triple Quadrupole (TQ) Mass Spectrometer, Genius XE35 Nitrogen generator, and AS-AP autosampler with temperature control option.

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

6. Monthly Cash Control Report

MOTION NO. 24-97
RECEIVING AND FILING THE MONTHLY CASH CONTROL REPORTS

The Summary Cash and Cash Equivalents Control Reports dated September 30, 2024 are hereby received and filed.

7. Investment Portfolio Holdings Reports

MOTION NO. 24-98
RECEIVING AND FILING INVESTMENT PORTFOLIO HOLDINGS REPORTS

The Investment Portfolio Holdings Reports dated September 30, 2024 are hereby received and filed.

8. Services Agreement to West Coast Arborist, Inc. to Provide Tree Trimming Services for the Recharge

RESOLUTION NO. 24-10-128
AUTHORIZING AGREEMENT TO WEST COAST ARBORIST, INC FOR TREE TRIMMING SERVICES FOR THE RECHARGE FACILITIES

RESOLVED, that issuance of a Services Agreement to West Coast Arborist, Inc. for a three-year term for an amount not to exceed \$60,000 per year to provide tree trimming services for the District's Recharge Facilities.

9. Surplus of Lab Equipment, Tools, Obsolete Parts, and Computer Equipment

MOTION NO. 24-99
SURPLUS OF LAB EQUIPMENT, TOOLS, OBSOLETE PARTS, AND COMPUTER EQUIPMENT

Items on the Surplus List dated September 10, 2024 are hereby declared surplus, and the sale and disposal thereof is authorized.

10. Establish Prado Access Control Project Budget and Authorize Purchase Order to ASSI

RESOLUTION NO. 24-10-129
AUTHORIZING ISSUANCE OF PURCHASE ORDER TO ASSI TO PROCURE, INSTALL, AND INTEGRATE THE PRADO ACCESS CONTROL

Authorize issuance of Purchase Order to ASSI for \$16,442 to procure, install, and integrate the Prado Access Control and approve a project budget for Prado Access Control in the amount of \$20,000 funded by the District's Replacement and Refurbishment Fund.

11. District Travel / Expense Reports – FY 2023–24

MOTION NO. 24-100
RECEIVING AND FILING DISTRICT TRAVEL EXPENSE REPORTS

The District Travel and Expense reports for Fiscal Year 2023-24 are hereby received and filed.

12. Independent Auditors Report for the Fiscal Year Ended June 30, 2024

MOTION NO. 24-101
RECEIVING AND FILING INDEPENDENT AUDIT REPORTS PREPARED BY LANCE, SOLL &
LUNGHARD, LLP FOR THE PERIOD ENDED JUNE 30, 2024

The Audit Reports prepared by Lance, Soll & Lunghard, LLP for the period ended June 30, 2024 are hereby received and filed.

INFORMATIONAL ITEMS

13. Urban Runoff Optimization Study Update

Senior Planner Kevin O'Toole recalled that the dry weather diversion program began in the early 2000s in response to beach closures in Huntington Beach from elevated bacteria. He reported that the program expanded to allow up to 10 MGD of dry weather urban runoff to the sewer. He noted there are 21 active diversions, currently 3 MGD diverted. He advised that diverted urban runoff ultimately becomes inflow for GWRS. Mr. O'Toole stated that OCWD views urban runoff as a valuable resource and noted dry weather diversions are an opportunity to improve local surface water quality while simultaneously increasing water supply to GWRS. He reported that OCWD will continue to advocate for urban runoff as a local water resource for groundwater recharge.

14. SAWPA Update

Director Whitaker provided an update on recent SAWPA activities.

15. Water Resources Summary

General Manager John Kennedy stated the report was in the packet and noted that the first quarter of the fiscal year was completed with numbers tracking on budget.

16. 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.

- Oct. 03 - Communications and Legislative Committee
- Oct. 09 - Water Issues Committee
- Oct. 10- Administration and Finance Issues Committee
- Oct. 14- GWRS Steering Committee

17. Verbal Reports

President Green stated that she and General Manager John Kennedy attended Association of California Water Agencies (ACWA) Region 10 Event held at the Yorba Linda Water District where ACWA members shared valuable insights about current water quality challenges, including emerging contaminants and PFAS impacts.

RECESS TO CLOSED SESSION

- CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956. 9(d)(1)]–1 case: Irvine Ranch Water District v.OCWD,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 6:42 p.m.

Christina Fuller, District Secretary

Cathy Green, President

MINUTES OF MEETING
BOARD OF DIRECTORS, ORANGE COUNTY WATER DISTRICT
November 6, 2024, 5:30 p.m.

President Green called to order the November 6, 2024 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
Dina Nguyen
Natalie Meeks
Stephen Sheldon (absent)
Van Tran
Erik Weigand
Bruce Whitaker
Roger Yoh

Staff

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

VISITOR PARTICIPATION

James Kim provided information on the Friends of Santa Ana Zoo which is a non-profit organization that works to raise funds for and spread awareness of the Zoo. Santa Ana Zoo Director Ethan Fisher provided an update on the new Santiago Creek Eco Center and current outreach to the community. Lauren Bergh, Santa Ana Zoo representative, advised of the new programs at the Eco Center.

CONSENT CALENDAR

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

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

Absent: Sheldon

*Director Bilodeau disclosed that on Items No. 4 and 5, the County of Orange is his employer; however, he has no financial interest in these items.

1. Approval of Cash Disbursements

MOTION NO. 24-102
APPROVING CASH DISBURSEMENTS

Payment of bills for the period of October 10, 2024 through October 30, 2024 in the total amount of \$14,176,302.03 is ratified and approved.

ITEMS RECOMMENDED FOR APPROVAL AT RETIREMENT COMMITTEE MEETING HELD
OCTOBER 22

2. 457(b) Deferred Compensation Plan Investment Line-Up Review and 401(a) Red Flag Fund Review

MOTION NO. 24-103
 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(b) Items for Review	
INVESTMENT FUNDS	ACTION
Delaware Ivy Mid Cap Growth I (IYMIX)	Remove and map to T. Rowe Price Diversified Mid Cap Gr I
457(a) Items for Review	
American Funds New Perspective (RNPGX)	Keep Red Flag
Carillon Scout Mid Cap I (UMBMX)	Red Flag

ITEMS RECOMMENDED FOR APPROVAL AT PROPERTY MANAGEMENT COMMITTEE MEETING HELD OCTOBER 25

3. License Agreement West of Highway 71/Prado Basin

RESOLUTION NO. 24-11-130
 APPROVING AGREEMENT WITH RENE BANUELOS AND CARLOS SANCHEZ FOR ACCESS
 ACROSS DISTRICT’S PROPERTY, LOCATED WEST OF HIGHWAY 71

WHEREAS, the District owns property located west of Highway 71 (Corona Expressway), approximately two miles north of the 91 Freeway in unincorporated Riverside County (APN 101-050-010).

WHEREAS, neighboring property owners, Mr. Rene Banuelos and Mr. Carlos Sanchez, have requested a License Agreement to use the District’s road through the entry gate on Highway 71, allowing access to their landlocked properties; and

WHEREAS, the Property Management Committee of this Board has recommended execution of such License Agreements with Rene Banuelos and Carlos Sanchez for access across District’s Property, located west of Highway 71, for a five-year period, with a License Fee of \$1,148;

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby approve the aforementioned License Agreements as outlined herein, and, upon approval as to form by District General Counsel, execution on behalf of the District by the President or Vice President and General Manager or District Secretary is authorized.

4. Repair and Improvements of Orange County Flood Control Facilities at Santiago Basin

RESOLUTION NO. 24-11-131
 AUTHORIZING APPROVAL FOR ORANGE FLOOD CONTROL DISTRICT TO CONDUCT
 REPAIRS AND IMPROVEMENTS TO THEIR FLOOD CONTROL FACILITIES ON
 DISTRICT PROPERTY

RESOLVED, that written approval is authorized for the Orange Flood Control District to conduct repairs and improvements to their flood control facilities on District property located at Villa Park Road, City of Orange, in accordance with the Easement Deed granted on June 20, 1990 and, upon approval as to form by District General Counsel, its execution by the District officers is authorized.

5. License Agreement with Orange County Flood Control District for Alamitos Seawater Barrier Project

RESOLUTION NO. 24-11-132

AUTHORIZING AGREEMENT TO WITH ORANGE COUNTY FLOOD CONTROL DISTRICT FOR
ALAMITOS SEAWATER BARRIER PROJECT

WHEREAS, in 1965, the Orange County Water District (OCWD) and the Los Angeles County Flood Control District established the Alamitos Seawater Barrier to prevent seawater intrusion into local groundwater basins; and

WHEREAS, a portion of the Alamitos Barrier facilities, which consist of monitoring wells, injection wells, and pipelines, is within Orange County Flood Control District's (County) right-of-way, and its operation and maintenance is allowed under several permits issued by the County; and

WHEREAS, the County has now proposed consolidating existing permits into a new 10-year License Agreement with an annual fee and additional insurance requirements.

WHEREAS, the Property Management Committee has recommended the General Manager finalize negotiations and execute a License Agreement with Orange County Flood Control District for the Alamitos Barrier Project facilities for a ten year term with an initial annual use fee not to exceed \$16,000 with an increase of \$200 annually.

WHEREAS, the Property Management Committee has recommended the General Manager finalize negotiations and execute a pollution liability insurance policy with \$1 million coverage as required by the Orange County Flood Control District License Agreement for an initial term of 3 years, including payment of the initial premium in an amount not to exceed \$11,769.

WHEREAS, the Property Management Committee has further recommended the General Manager finalize negotiations and execute an increase in general liability insurance coverage to \$5 million as required by the Orange County Flood Control District License Agreement, including payment of the initial premium increase in an amount not to exceed \$31,000.

NOW, THEREFORE, the Board of Directors of the Orange County Water District does hereby approve the aforementioned actions as outlined herein, and, upon approval as to form by District General Counsel, execution on behalf of the District by the President and General Manager or District Secretary is authorized.

INFORMATIONAL ITEMS

6. Santa Ana River Bike Trail

Santa Ana Watershed Project Authority (SAWPA) Senior Watershed Manager Ian Achimore provided an update on Santa Ana River Trail and Parkway (SARTP).

7. SAWPA Update

Director Whitaker 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.

- October 22 – Retirement Committee
- October 23- Joint Planning Committee
- October 25 - Property Management Committee

9. Verbal Reports

There were no verbal reports provided this evening.

RECESS TO CLOSED SESSION

- CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956.9 (a),(d) – OCWD v. Sanmina Corp. (South Basin)
- CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956.9(a),(d)] – OCWD v. 3M Company et al.
- CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION, [Government Code Section 54956. 9(d)(1)]–1 case: Irvine Ranch Water District v.OCWD,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 6:51 p.m.

Christina Fuller, District Secretary

Cathy Green, President

AGENDA ITEM SUBMITTAL

Meeting Date: November 20, 2024

To: Board of Directors

From: John Kennedy

Staff Contact: M. Patel/B. Smith

Budgeted: Yes

Budgeted Amount: \$200,000

Cost Estimate: \$200,000

Funding Source: R&R

Program/Line Item No.: R24020

General Counsel Approval: N/A

Engineers Report: N/A

CEQA Compliance: Cat. Ex.

**Subject: K-2025-1: KRAEMER BASIN CHECK VALVE REPLACEMENTS:
PUBLICATION OF NOTICE INVITING BIDS**

SUMMARY

The bid package, consisting of plans and technical specifications, for the Kraemer Basin Check Valve Replacements project has been prepared. The project includes replacement of three existing large diameter ball check valves that have failed with new rubber flapper swing check valves.

RECOMMENDATION

1. Authorize publication of Notice Inviting Bids for Contract No. K-2025-1: Kraemer Basin Check Valve Replacements project; and
2. Authorize filing of a Categorical Exemption for the Kraemer Basin Check Valve Replacements project in compliance with the California Environmental Quality Act (CEQA) guidelines.

BACKGROUND/ANALYSIS

The Kraemer Basin pump station and associated piping were constructed in 1990. The 34-year-old pump station is used to dewater the basin for cleaning and to maximize storage for stormwater capture. The pumping system includes three pumps with a 30-inch check valve on each one's discharge piping. The check valves ensure that water only travels away from the pumps, thereby preventing water from entering the basin in way that would cause the pumps to spin backwards. The original ball check valves have failed, and staff have programmed downstream butterfly valves to behave like check valves. This interim solution introduces risk to the system because it requires valves to operate in a fashion for which they were not originally designed. It also relies on computer-initiated controls when a physical failsafe device is the industry standard. Thirdly, it is placing undue wear and tear on the motor actuators of the butterfly valves.

Staff have assembled a bid package of plans and specifications to replace the ball check valves with rubber flapper swing check valves, including the necessary piping adjustments to accommodate the new valve dimensions. The check valves are submerged in Kraemer Basin for at least half of the year, so the construction window to replace them will be relatively short. This window normally occurs in summer months when recharge basins can be drained for cleaning under lower Santa Ana River flow

conditions. Staff recommends authorization of publication of the Notice Inviting Bids for the Kraemer Basin Check Valve Replacements project. Table 1 shows the anticipated schedule for the project.

Table 1: Project Schedule

Description	Date
Complete Design	November 2024
Advertise for Construction	December 2024
Award Construction Contract	February 2025
Construction Completion	October 2025

The project is consistent with the Categorical Exemption for replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced (Class 2). This is because it consists of replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.

PRIOR RELEVANT BOARD ACTION(S)

N/A

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Herndon/D. Field

Budgeted: Yes

Budgeted Amount: \$125,000

Final Cost: \$100,143

Funding Source: CIP

Program/ Line Item No.: C23003

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: Yes

**Subject: CONTRACT GBM-2024-2 INSTALLATION OF THREE SHALLOW
AQUIFER MONITORING WELLS NOTICE OF COMPLETION**

SUMMARY

BC2 Environmental, LLC (BC2) has completed all work under Contract GBM-2024-2 for construction of Shallow aquifer monitoring wells AM-62, IDM-5, and IDM-6. The final cost was \$100,143, which is \$672 under the awarded contract amount.

Attachments:

- Figure 1 Shallow Aquifer Monitoring Wells AM-62, IDM-5, and IDM-6 Locations
- Change Order No. 1

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board Meeting: Accept completion of the work and authorize filing a Notice of Completion for Contract GBM-2024-2, 2024 Shallow Aquifer Monitoring Wells.

BACKGROUND/ANALYSIS

The Board approved construction of three Shallow aquifer monitoring wells (AM-62, IDM-5, and IDM-6) in October 2023. The purpose of these wells is to provide groundwater level data for the Shallow aquifer near the basin margins where no wells exist (Figure 1). Groundwater level data at those locations will help refine basin storage calculations in those areas. The Notice Inviting Bids for Contract GBM-2024-2 was issued on March 28, 2024. The Board awarded Contract GBM-2024-2 to BC2 in the amount of \$100,815 in May 2024. BC2 completed construction of the wells in September 2024.

Change Order No. 1

Several bid item adjustments were made to reconcile the original bid quantities with the actual quantities of work materials completed/installed. The total of these adjustments

resulted in a \$672 decrease in the awarded Contract amount which was approved under the General Manager’s authority as Change Order No. 1.

Table 1 below summarizes the budget and expenditures for the Project.

Table 1: Shallow Monitoring Well Construction Project Budget

Task	Approved Budget	Actual Expenditures
Wells AM-62, IDM-5, & IDM-6 Construction	\$ 125,000	
Award Contract GBM-2024-2	--	\$ 100,815
Change Order No. 1	--	(672)
Subtotal Contract GBM-2024-2	\$ 125,000	\$ 100,143
Construction Inspection Services ¹	0	0
Well Survey	12,000	6,928
Project Contingency	13,000	0
TOTAL:	\$ 150,000	\$ 107,071

¹Inspection services completed in-house by OCWD geologists.

PRIOR RELEVANT BOARD ACTIONS

5/15/24, R24-5-48, Award Contract GBM-2024-2, 2024 Shallow Aquifer Monitoring Wells, to BC2 Environmental, LLC.

10/18/23, R23-10-137 Authorize construction of three Shallow Aquifer monitoring wells.

3/15/23, R23-3-34 Award Contract No. GBM-2023-1, 2023 Shallow Aquifer Monitoring Wells, to BC2 Environmental, LLC.

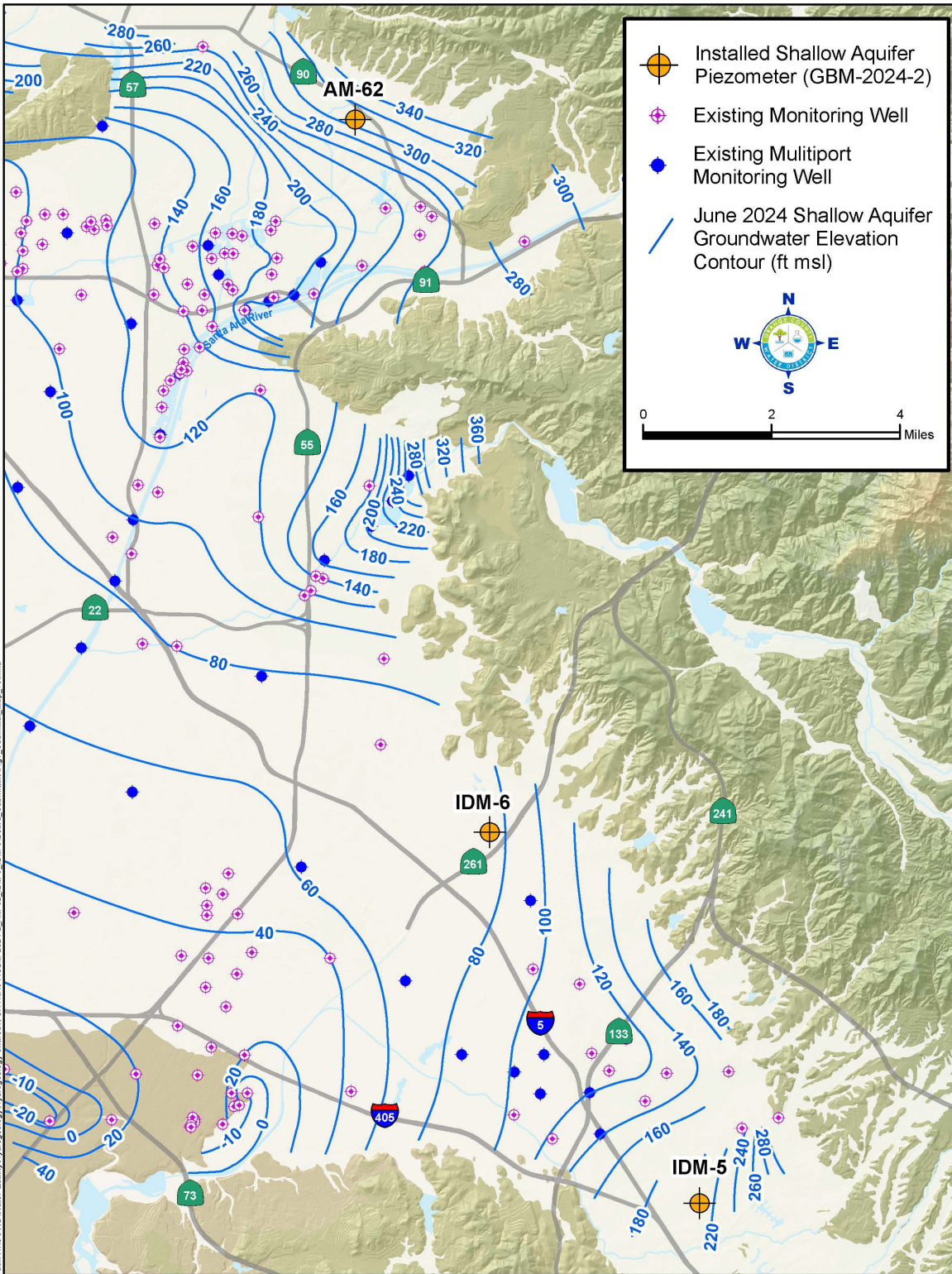
12/21/22, R22-12-169 Approve installation of two Shallow Aquifer monitoring wells for annual water level maps and storage calculation.

3/16/22, R22-3-23 Award Contract No. GBM-2022-1, 2022 Shallow Aquifer Monitoring Wells, to BC2 Environmental, LLC.

10/20/21, R21-10-154 Approve installation of two Shallow Aquifer monitoring wells for annual water level maps and storage calculation.

3/21/07 M07-44 Receive and file staff report titled “Evaluation of Orange County Groundwater Basin Storage and Operational Strategy,” and adopt new three-layer storage change methodology with the associated new full basin condition.

Figure 1: Shallow Aquifer Monitoring Wells AM-62, IDM-5 and IDM-6 Locations





CHANGE ORDER NO. 1
CONTRACT NO. GBM-2024-2

TO: BC2 Environmental, LLC
1150 West Trenton Avenue
Orange, CA 92867

You are hereby directed to provide the extra work necessary to comply with this Change Order.

DESCRIPTION OF CHANGE:

Change Order No. 1 dated October 10, 2024 includes the following bid item adjustments:

1. Increase Bid Item 4 by 25 Linear Feet, Borehole Drilling: \$1,125.00.
2. Reduce Bid Item 5 by 6 Linear Feet, Well Casing & Screen: (\$168.00).
3. Increase Bid Item 6 by 7 Linear Feet, 8x20 Filter Pack: \$98.00.
4. Reduce Bid Item 7 by 7 Linear Feet, Bentonite & Cement Seals: (\$175.00).
5. Reduce Bid Item 8 by 1 Hour, Well Development: (\$247.50).
6. Reduce Bid Item 9 by 1 Each, Video Survey: (975.00).
7. Remove Bid Item 10, Borehole Abandonment: (\$330.00).

PAYMENT: Net Contract adjustment (\$672.50)

CONTRACT TIME: Increase contract time by 68 calendar days.

ACCEPTANCE:

Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract.

Contractor agrees to perform the above-described work in accordance with the above terms and in compliance with applicable sections of the Contract Documents

This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Provisions of the Contract Documents.

ORANGE COUNTY WATER DISTRICT

By: [Signature] 10/9/24
Project Manager Date

By: [Signature] 10/9/24
District Hydrogeologist Date

By: [Signature] 10/9/24
Executive Director Date

By: [Signature] 10/9/24
General Manager Date

CONTRACTOR

By: [Signature] 10/09/2024
Date

Title: Diego Torices - Project Manager

By: [Signature] 10/09/2024
Date

Title: Kurt Magee - Operations Manager

CONTRACT GBM-2024-2
CHANGE ORDER
COST TABLE

ITEM NO.	CONDENSED DESCRIPTION	UNITS	BC2 BID			ACTUAL INVOICES		CHANGE ORDER NO. 1	
			QTY.	UNIT PRICE	TOTAL	Qty.	TOTAL	Qty.	TOTAL
1	Mobilization	Each	3	\$5,000.00	\$15,000.00	3	\$15,000.00	0	\$0.00
2	Demobilize	Each	3	\$3,000.00	\$9,000.00	3	\$9,000.00	0	\$0.00
3	Contain & Dispose	Each	3	\$10,250.00	\$30,750.00	3	\$30,750.00	0	\$0.00
4	Borehole Drilling (HSA)	Liner Feet	330	\$45.00	\$14,850.00	355	\$15,975.00	25	\$1,125.00
5	Well Casing & Screen	Liner Feet	315	\$28.00	\$8,820.00	309	\$8,652.00	(6)	(\$168.00)
6	8x20 Filter Pack	Liner Feet	90	\$14.00	\$1,260.00	97	\$1,358.00	7	\$98.00
7	Bentonite & Cement Seals	Liner Feet	240	\$25.00	\$6,000.00	233	\$5,825.00	(7)	(\$175.00)
8	Well Development	Hour	24	\$495.00	\$11,880.00	24	\$11,632.50	(1)	(\$247.50)
9	Video Survey	Each	3	\$975.00	\$2,925.00	2	\$1,950.00	(1)	(\$975.00)
10	Borehole Abandonment	Liner Feet	110	\$3.00	\$330.00	0	\$0.00	(110)	(\$330.00)
11	Sheeting, Shoring, & Bracing	Lump Sum	1	\$0.00	\$0.00	0	\$0.00	(1)	\$0.00
12	Miscellaneous	15%	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00
TOTAL: \$100,815.00						\$100,142.50	(\$672.50)		

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Herndon/D. Field

Budgeted: Yes

Budgeted Amount: \$500,000

Cost Estimate: \$37,065

Funding Source: CIP

Program/ Line Item No.: C23004

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: Yes

**Subject: CONTRACT SG-2024-1 CONSTRUCTION OF OCWD-BS29
MONITORING WELL CLUSTER NOTICE OF COMPLETION AND
AUTHORIZE AMENDMENT TO AGREEMENT WITH WOOD RODGERS
FOR INSPECTION SERVICES**

SUMMARY

BC2 Environmental, LLC (BC2) has completed all work under Contract SG-2024-1 for the construction of seawater intrusion monitoring well cluster OCWD-BS29 (BS29). The final cost was \$365,330, which is \$275 under the approved amount. During construction, problems and delays were encountered that required additional field inspection services by Wood Rodgers in the amount of \$37,065.

Attachments:

- Figure 1 OCWD-BS29 monitoring well cluster in the city of Huntington Beach
- BC2 Change Order No. 1 and supporting back-up
- BC2 Change Order No. 2 and adjusted costs
- Wood Rodgers' October 4, 2024 letter explaining the costs of out-of-scope and additional work requested by OCWD staff

RECOMMENDATIONS

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting:

1. Accept completion of work and authorize filing a Notice of Completion for Contract SG-2024-1 Construction of OCWD-BS29 Monitoring Well Cluster; and
2. Authorize issuance of Amendment No. 1 to Agreement No.1585 with Wood Rodgers in the amount of \$37,065 for additional field inspection services.

BACKGROUND/ANALYSIS

The purpose of the BS29 monitoring well cluster is to fill an important data gap where seawater intrusion potentially occurs across the Bolsa-Fairview Fault to the north beneath the Bolsa Chica Mesa and into the southeastern portion of Sunset Gap (Figure 1). Confirmation of this potential intrusion pathway or lack thereof will help define the lateral extent and depth of intrusion and support the development of potential remedial actions in Sunset Gap.

The Board approved construction of the BS29 monitoring well cluster and associated construction inspection services in September 2023. In March 2024, the Board awarded Contract SG-2024-1 to BC2 and authorized issuance of a Services Agreement to Wood Rodgers for construction inspection services.

Between July and October 2024, BC2 completed construction of four-well monitoring well cluster BS29. The deep 400-foot well was constructed using direct mud rotary drilling equipment. The three shallow wells were constructed using rotary sonic drilling equipment. During drilling and construction of the deep well, several problems and delays were encountered, including borehole drilling that was slower than anticipated and a minor borehole collapse. The borehole collapse was discovered during geophysical logging which required redrilling of the borehole and repeating the geophysical logs. In addition, during construction of the deep well, the heat of hydration of the emplaced cement seal melted the PVC well casing. Fortunately, the contractor was able to save the well by over drilling and replacing the damaged casing section. Development (cleaning) of the deep well also took longer than anticipated. The contractor experienced numerous equipment breakdowns during drilling of the shallow wells. Additional construction costs were not incurred by the District due to these problems and delays; however, additional construction inspection time was necessary.

BC2 Change Order No. 1

Prior to construction, staff modified the scope of work to include installation of a shallow large-diameter permanent surface casing for the deep well. The purpose of the surface casing is to provide near-surface borehole stability and to seal off the shallow artesian conditions that exist at the BS29 well site. Change Order No. 1 was approved under the General Manager's authority in the amount of \$13,000.

BC2 Change Order No. 2

Several bid item adjustments were made to reconcile the original bid quantities with the actual quantities of work and materials completed/installed. The total of these adjustments resulted in a \$275 decrease in the awarded Contract amount (including Change Order No. 1). Change Order No. 2 was approved under the General Manager's authority.

Wood Rodgers Amendment No. 1 to Agreement 1585

Installation of the large-diameter surface casing required additional out-of-scope inspection hours not covered in Agreement No. 1585 with Wood Rodgers. Also, due to

the problems and delays encountered during drilling, construction, and development of the monitoring wells, staff requested Wood Rodgers provide additional construction inspection services. The total of these added costs is \$37,065, as described in Wood Rodgers' letter dated October 4, 2024 (Attachment to this submittal). Therefore, staff requests Board authorization of Amendment No. 1 to the Agreement with Wood Rodgers.

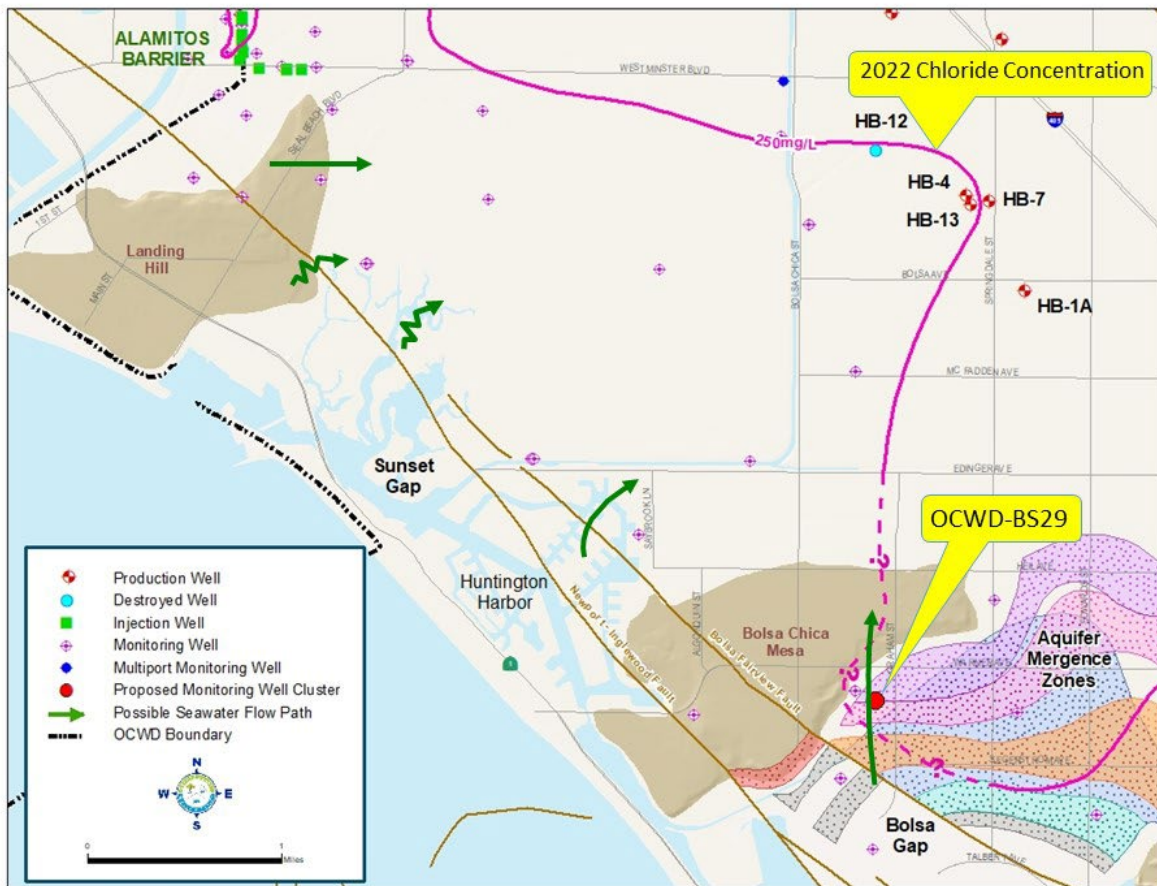
Wood Rodgers is currently preparing the final Construction Report for this Project and is projected to complete all tasks within the new budget, assuming the Board approves Amendment No. 1.

Table 1 below summarizes the approved budget and expenditures. Even with BC2 Change Orders and Wood Rodgers' Amendment, the project is anticipated to be completed within the approved budget.

Table 1. Summary of OCWD-BS29 Monitoring Well Cluster Construction Budget and Expenditures

Task	Approved Budget	Expenditures
BS29 Monitoring Well Cluster Construction	\$ 380,000	
Award Contract GBM-2024-2	--	\$ 352,605
Change Order No. 1	--	13,000
Change Order No. 2	--	(275)
Subtotal Contract SG-2024-1	\$ 380,000	\$ 365,330
Construction Inspection Services & Well Survey	82,000	
Wood Rodgers Agreement No. 1585	--	80,646
Amendment No. 1	--	37,065
Subtotal Inspection & Well Survey	82,000	117,711
Project Contingency	38,000	0
TOTAL:	\$ 500,000	\$ 483,041

Figure 1: OCWD-BS29 monitoring well cluster in the city of Huntington Beach.



PRIOR RELEVANT BOARD ACTIONS

3/20/2024 4 R24-3-20 – Award Contract SG-2024-1 for construction of OCWD-BS29 monitoring well cluster to BC2 Environmental, LLC and authorize Agreement with Wood Rodgers for construction inspection services.

9/20/2023 R23-9-119 – Authorize construction of OCWD-BS29 monitoring well cluster.

6/16/2021 R21-6-90 - Receive and file Affidavit of Publication of Notice Inviting Bids for Contract No. SG-2021-1, waive the BC2 Environmental, LLC inconsequential bid informalities, and accept bid and award Contract SG-2021-1 to BC2 Environmental, LLC for an amount not to exceed \$1,038,730.

1/20/21 R21-1-6 – Authorize issuance of a services agreement to ENGEO for construction management and surveying services during the installation of additional Sunset Gap monitoring wells for an amount not to exceed \$198,347.

10/21/20 R20-10-140 - Adopt resolution certifying the Final IS/MND, authorizing to file the Notice of Determination, approving the Geologist's Report, approving the proposed Sunset Gap Additional Monitoring Well Project, establishing a project budget of \$1,600,000, authorizing issuance of a Notice Inviting Bids for well construction, authorizing necessary permitting documents by the General Manager from regulatory agencies, and authorizing issuance of an RFP for construction management services.

8/5/20 R20-8-97 – Authorize execution of a 30-year no-fee License Agreement for proposed monitoring wells OCWD-BS26A and OCWD-BS26B with The Boeing Company for well construction, monitoring, and maintenance.

8/15/18 R18-8-112 – Receive and file Affidavit of Publication of Notice Inviting Bids for Contract No. SG-2018-1; Accept bid and award Contract No. SG-2018-1 to ABC Liovin Drilling, Inc. for an amount not to exceed \$807,646; and Authorize issuance of services agreement to Geotechnical Consultants, Inc. for inspection services during construction of the OCWD-BS13 and OCWD-BS24 monitoring well clusters for an amount not to exceed \$203,000.

2/21/18 R18-2-12 – Adopt the Final Initial Study/Mitigated Negative Declaration for Sunset Gap Monitoring Well Clusters BS13 and BS24, and the Bolsa Chica Channel Levee Repair Project; Approve the proposed construction of BS13 and BS24 Monitoring Well Clusters and proposed repairs to the Bolsa Chica Flood Control Levee; Authorize a budget increase in the amount of \$1,648,771 to establish a revised project budget of \$4,054,711 covering R7R projects R12030 and R14026, and complete capital project C13005; Authorize issuance of a Request for Proposals for inspection services during the construction of BS13 and BS24 well clusters; Authorize issuance of the Notice Inviting Bids for construction of BS13 and BS24 Monitoring Well Clusters; Authorize issuance of the Notice Inviting Bids for Repair of the Bolsa Chica Flood Channel; and Authorize staff to file the Notice of Determination.

2/15/17 R17-2-11 – Authorize issuance of Amendment No. 2 to Agreement No. 1087 with Ninyo & Moore in the amount of \$20,789 for additional out-of-scope geotechnical services required for the OCWD-BS13 well site geotechnical investigation.

12/7/16 R16-12-168 – Award Contract SG-2016-1 for monitoring well OCWD-BS24C construction to BEKS Acquisition Inc. dba BC2 Environmental in the amount of \$177,425.

10/19/16 R16-10-143 – Authorize General Manager to execute an amendment to Contract SG-2015-1 to reflect Change Order No. 1 for out-of-scope costs associated with the destruction of the OCWD-BSO9 monitoring wells and abandonment of the OCWD-BS24 borehole and to terminate the contract without fault to either party.

9/16/16 R15-9-123 – Award Contract SG-2015-1 for destruction of Sunset Gap OCWD-BSO9 monitoring wells and construction of replacement monitoring well OCWD-BS24 to Cascade Drilling in the amount of \$464,074.

7/20/16 R16-7-102 – Authorize issuance of agreement to Intera, Inc., in an amount not to exceed \$135,032, to expand and recalibrate the Alamitos Gap groundwater model into the Sunset Gap.

5/18/16 R16-5-61 – Authorize Amendment No. 1 in the amount of \$19,904 to agreement with Ninyo & Moore for geotechnical investigation.

4/20/16 R16-4-41 – Approve Department of Navy license agreements for monitoring wells and geotechnical investigation at Naval Weapons Station and authorize payment of fees.

6/17/15 R15-6-77 – Authorize filing Notice of Exemption for the construction of monitoring well BS24; authorize destruction of monitoring wells BSO9A, BSO9B and BSO9C, and construction of replacement monitoring well OCWD-BS24; and authorize issuance of Amendment No. 2 to Agreement No. 0958 with CDM Smith in the amount of \$56,550 for additional field inspection services required for the destruction of BSO9A, BSO9B and BSO9C, and construction of monitoring well OCWD-BS24.

6/17/15 R15-6-81 – Authorize issuance of Amendment No. 1 to Agreement No. 0958 with CDM Smith in the amount of \$127,935 for additional field inspection services required for the Sunset Gap Project and issuance of agreement to Ninyo & Moore for geotechnical services at the OCWD-BS13 well site for an amount not to exceed \$58,078.

3/15/15 R15-3-30 – Approve modification to license agreement with the Department of the Navy for the Sunset Gap Seawater Intrusion Investigation.

5/21/14 R14-5-66 – Award Contract No. SG-2014-1 to Yellow Jacket Drilling for \$1,477,295 for construction of six monitoring wells and destruction of three monitoring wells.

12/18/13 R13-12-00 – Authorize agreement with CDM Smith for an amount not to exceed \$194,117 for construction management of the Sunset Gap monitoring well installations and destructions.

9/18/13 R13-9-121 – Receive and file Geologist's Report and approve Sunset Gap Groundwater Investigation including the construction of four new monitoring wells, two replacement monitoring wells, and destruction of three unusable monitoring wells for a combined capital and R&R budget of \$1,896,400; authorize issuance of an RFP for field inspection services; authorize filing a Notice of Determination.

6/20/12 R12-6-70 – Authorize application for California Department of Water Resources Local Groundwater Assistance Grant.



**CHANGE ORDER NO. 1
CONTRACT NO. SG-2024-1**

TO: BC2 Environmental, LLC
1150 West Trenton Avenue
Orange, CA 92867

You are hereby directed to provide the extra work necessary to comply with this Change Order.

DESCRIPTION OF CHANGE: Change Order No. 1 dated May 2, 2024 includes the following:

Furnish, install, and cement a nominal 20-inch diameter mild steel surface casing in a minimum 24-inch diameter borehole to an anticipated depth of 20 feet below ground surface to provide surface stability during conductor casing installation and to counteract near-surface artesian site conditions.

PAYMENT: Total increase to contract price is \$13,000 (\$650/linear foot of surface casing installed)

CONTRACT TIME: No Extension

ACCEPTANCE:

Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract.

Contractor agrees to perform the above-described work in accordance with the above terms and in compliance with applicable sections of the Contract Documents

This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Provisions of the Contract Documents.

ORANGE COUNTY WATER DISTRICT

By: *Naveed M. Field* 5/2/24
Project Manager Date

By: *Ray L. Plenden* 5/3/24
District Hydrogeologist Date

By: *[Signature]* 5/6/24
Executive Director Date

By: *John C. [Signature]* 5/4/24
General Manager Date

CONTRACTOR

By: *[Signature]* 5/2/2024
Date

Title: Project Manager

By: *[Signature]*
Date

Title: General Manager 5/2/2024

Change Order No. 1 Back-up



1150 West Trenton Avenue
Orange, CA 92667
Tel (714) 744-2990 Fax (714) 744-2991

Proposal: 24-199A
of Pages: 1

Quote for Drilling Services

To: David Field
Company: OCWD
Email: dfield@ocwd.com
Tel: (714) 378-3237

From: Diego Torices
Project: OCWD - BS29D Well
Date: May 2, 2024
Timing: 5/20/2024

Installation of one 20-inch steel permanent surface casing to a max depth of 20ft. bgs.

The surface casing will be installed in a 24-inch diameter borehole, allowing for minimum 2-inch annular seal
The surface casing will be cemented in with portland cement grout, using tremie pipe from bottom up, displacing fluids
The cement will be allowed to cure a minimum 12hrs prior to any additional work performed on this same borehole
Final set depth will be determined by field conditions, but not to exceed 20ft bgs.

Item	Description	Unit	Estimated Quantity	Unit Price	Extension
1	Footage Rate Installation of 20-inch Permanent Surface Casing	Foot	20	\$650.00	\$13,000.00
Estimated Project Total					\$13,000.00

Notes: BC2 assumes that other parties will provide site access, useable on-site water access, drilling and well permits, and clear the location of utilities on the property. Drill rig hourly rates will be charged for all standby time and for time associated with returning to previously-drilled boreholes. BC2 is not responsible for damage to underground improvements. Client is responsible for naming BC2 Environmental, LLC on USA Dig Alert Ticket as the excavating contractor.



CHANGE ORDER NO. 2
CONTRACT NO. SG-2024-1

TO: BC2 Environmental, LLC
1150 West Trenton Avenue
Orange, CA 92867

You are hereby directed to provide the extra work necessary to comply with this Change Order.

DESCRIPTION OF CHANGE:

Change Order No. 2 dated October 14, 2024 includes the following bid item adjustments:

1. Increase Bid Item 8 by 20 Linear Feet, Drill Borehole by Direct Rotary Method: \$2,200.00.
2. Reduce Bid Item 9 by 72 Linear Feet, Drill borehole by Rotary Sonic Method: (\$7,200.00).
3. Remove Bid Item 10, Rock Clause: (\$750.00).
4. Increase Bid Item 12 by 10 Linear Feet, Well Casing & Screen Direct Rotary Method: \$400.00.
5. Reduce Bid Item 13 by 27 Linear Feet, Well Casing & Screen Rotary Sonic Method: (\$945.00).
6. Increase Bid Item 14 by 14 Linear Feet, 8x20 Filter Pack Direct Rotary Method: \$392.00.
7. Reduce Bid Item 15 by 38 Linear Feet, 8x20 Filter Pack Rotary Sonic Method: (\$988.00).
8. Increase Bid Item 16 by 6 Linear Feet, Bentonite & Cement Seals Direct Rotary Method: \$168.00.
9. Reduce Bid Item 17 by 34 Linear Feet, Bentonite & Cement Seals Rotary Sonic Method: (\$952.00).
10. Increase Bid Item 18 by 15 Hour, Well Development: \$9,000.00.
11. Remove Bid Item 22, Borehole Abandonment: (\$1,600.00).

PAYMENT: Net Contract adjustment (\$275.00)

CONTRACT TIME: Increase contract time by 63 calendar days.

ACCEPTANCE:

Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract.

Contractor agrees to perform the above-described work in accordance with the above terms and in compliance with applicable sections of the Contract Documents

This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Provisions of the Contract Documents.

ORANGE COUNTY WATER DISTRICT

By: David M Field 10/14/24
Project Manager Date

By: Paul J. Anderson 10/15/24
District Hydrogeologist Date

By: [Signature] 10/16/24
Executive Director Date

By: Jahel H. 10/16/24
General Manager Date

CONTRACTOR

By: Scott Traub 10/14/2024
Date

Title: General Manager

By: [Signature] 10/14/2024
Date

Title: Project Manager

CONTRACT SG-2024-1
CHANGE ORDER
COST TABLE

ITEM NO.	CONDENSED DESCRIPTION	UNITS	QTY.	BC2 BID		ACTUAL INVOICES		CHANGE ORDER #2	
				UNIT PRICE	TOTAL	Qty.	TOTAL	Qty.	TOTAL
1	Mobilize DMR	Lump Sum	1	\$22,000.00	\$22,000.00	1	\$22,000.00	0	\$0.00
2	Mobilize Sonic	Lump Sum	1	\$16,000.00	\$16,000.00	1	\$16,000.00	0	\$0.00
3	Demobilize DMR	Lump Sum	1	\$10,000.00	\$10,000.00	1	\$10,000.00	0	\$0.00
4	Demobilize Sonic	Lump Sum	1	\$10,000.00	\$10,000.00	1	\$10,000.00	0	\$0.00
5	Contain and Dispose	Lump Sum	1	\$75,000.00	\$75,000.00	1	\$75,000.00	0	\$0.00
6	Noise Barrier Wall	Lump Sum	1	\$10,000.00	\$10,000.00	1	\$10,000.00	0	\$0.00
7	Furnish and Install Conductor Casing	Linear Feet	50	\$225.00	\$11,250.00	50	\$11,250.00	0.00	\$0.00
8	Borehole Drilling DMR	Linear Feet	350	\$110.00	\$38,500.00	370	\$40,700.00	20.00	\$2,200.00
9	Borehole Drilling Sonic	Linear Feet	470	\$100.00	\$47,000.00	398	\$39,800.00	(72.00)	(\$7,200.00)
10	Rock Clause	Hours	5	\$150.00	\$750.00	0	\$0.00	(5)	(\$750.00)
11	Geophysical Survey	Lump Sum	1	\$15,750.00	\$15,750.00	1	\$15,750.00	0	\$0.00
12	Well Casing & Screen DMR	Linear Feet	365	\$40.00	\$14,600.00	375	\$15,000.00	10.00	\$400.00
13	Well Casing & Screen Sonic	Linear Feet	425	\$35.00	\$14,875.00	398	\$13,930.00	(27.00)	(\$945.00)
14	8x20 Filter Pack DMR	Linear Feet	30	\$28.00	\$840.00	44	\$1,232.00	14.00	\$392.00
15	8x20 Filter Pack Sonic	Linear Feet	90	\$26.00	\$2,340.00	52	\$1,352.00	(38.00)	(\$988.00)
16	Bentonite & Cement Seals DMR	Linear Feet	370	\$28.00	\$10,360.00	376	\$10,528.00	6.00	\$168.00
17	Bentonite & Cement Seals Sonic	Linear Feet	380	\$28.00	\$10,640.00	346	\$9,688.00	(34.00)	(\$952.00)
18	Well Development	Hours	40	\$600.00	\$24,000.00	55	\$33,000.00	15.00	\$9,000.00
19	Chemical Development	Each	2	\$3,750.00	\$7,500.00	2	\$7,500.00	0.00	\$0.00
20	Well Disinfection	Lump Sum	1	\$3,100.00	\$3,100.00	1	\$3,100.00	0	\$0.00
21	Video Survey	Lump Sum	1	\$6,500.00	\$6,500.00	1	\$6,500.00	0	\$0.00
22	Borehole Abandonment	Linear Feet	400	\$4.00	\$1,600.00	0	\$0.00	(400.00)	(\$1,600.00)
23	Miscellaneous	Cost+15%	0	\$0.00	\$0.00	0	\$0.00	0.00	\$0.00
24	CO#1 - Surface Casing	Linear Feet	20	\$650.00	\$13,000.00	20	\$13,000.00	0.00	\$0.00

TOTAL LINE ITEMS 1-24: \$365,605.00 \$365,330.00 (\$275.00)



October 4, 2024

Project No. 8644.004

Mr. David Field, PG
Senior Hydrogeologist
Orange County Water District
18700 Ward Street,
Fountain Valley, CA 92708

**Subject: Agreement Number 1585, Orange County Water District BS29 Monitoring Well
Contract Amendment No. 1 Request**

Dear Mr. Field:

Wood Rodgers respectfully submits this Contract Amendment No. 1 to Orange County Water District (OCWD) to request an increase to our contract budget for inspection services under Agreement Number 1585 (Agreement), executed on May 1, 2024. The Agreement included nine tasks (i.e., Tasks 1 through 9) to provide part-time and full-time inspection for contractor activities related to the drilling, construction, and development of the BS29 Monitoring Well cluster. Tasks 2 through 6 required full-time inspection. Tasks 8 and 9, Well Survey and Well Construction Report, respectively, are the only two tasks that have not been completed and do not require additional effort.

In parallel with OCWD contracting Wood Rodgers, OCWD advertised bids for the drilling and construction of BS29 Monitoring Well, which BC2 Environmental, LLC (BC2) of Orange, California was awarded the contract. Wood Rodgers estimated our inspection effort based on the drilling contractor's bid schedule within the Request for Proposal prepared by OCWD, and estimated drilling rates on anticipated lithologic conditions.

The project was initially slated to commence in May 2024; however, due to permitting issues with the City of Huntington Beach, the project commenced in the first week of July 2024. At the onset of the project, OCWD identified a nearby monitoring well cluster, BS20, that had two completions, A and B, with well screen intervals from 6 - 11 feet and 70 - 80 feet below ground surface (bgs), respectively, of which both have historically experienced artesian groundwater conditions. The historical hydrograph showed groundwater elevations typically above ground surface from the beginning of the year through mid-summer (i.e., July), suggesting the groundwater was likely to exhibit artesian conditions at the time of the schedule site work. As such, OCWD decided to include a surface casing to the BS29D monitoring well design to mitigate artesian conditions during the drilling of the conductor casing.

During project execution, out of scope items presented during the construction of BS29D, requiring additional effort by Wood Rodgers including for:

- Borehole stability requiring additional reaming
- Casing failure, requiring over drilling and casing replacement

- Excessive sediment fill, requiring additional sediment removal and additional well development
- Rejected camera survey, requiring a repeat camera inspection

This addition of the surface casing was not included in Wood Rodgers' original contract and were requested by OCWD to provide full-time inspection for the drilling and construction of the surface casing.

OCWD requested and provided authorization for Wood Rodgers to provide full-time observation services during the drilling and construction of the surface casing, over drilling and replacement of BS29D PVC casing, and additional development of the BS29D monitoring well. In addition to this effort, mechanical breakdowns that occurred with the sonic and mud rotary drilling rigs, required additional unforeseen effort. To minimize additional effort, Wood Rodgers communicated with BC2 on estimated repair times and had inspectors leave the project site where long downtimes were estimated by BC2. These mechanical breakdowns occurred on July 17 and 23, 2024, and August 1, 2, 5, and 9, 2024, resulting in Wood Rodgers utilizing 23 hours of inspection time. Considering these events, Wood Rodgers exceeded our original contracted budget to provide Inspection Services for the OCWD BS29 Monitoring Well Cluster.

The additional effort is provided in detail below.

Surface Casing

BC2 mobilized to the OCWD BS29 Monitoring Well site on July 8, 2024. The surface and conductor casings were drilled and constructed through July 9 - 12, 2024.

Borehole Stability

The pilot borehole was drilled to initial depth of 403 feet bgs and the drilling occurred from July 15 – 19, 2024. After achieving a total depth, the geophysical surveys were intended to be performed throughout the entire depth of the borehole. However, during geophysical logging the survey tools were only able to log to a depth of 373 feet bgs due to the borehole caving in. This resulted in BC2 having to redrill BS29D, which they determined to target a total borehole depth of 420 feet to allow the geophysical logging to occur to the desired depth of 400 feet. The redrilling of BS29D occurred from July 22 - 24, 2024 and resulted in a total borehole depth of 420 feet. The borehole was geophysical logged per the contract requirements and OCWD submitted a final well design on July 25, 2024.

Casing Failure

BC2 proceeded with the construction of BS29D from July 25 – 27, 2024. The well casing gravel, and bentonite seals were installed. During the installation of the neat cement, BC2 prepared one batch of neat cement and installed it from 247.5 to 173.8 feet bgs on July 26, 2024. The following day, they prepared multiple neat cement batches and installed it from 173.8 to 19 feet bgs. It should be noted that all neat cement batches met the specification mixture and total lift requirements. BC2 returned on July 29, 2024 to install the remaining neat cement within the annular seal. Prior to installation of the neat cement, BC2 tagged the inside of the well casing. The tagging tool was unable to be deployed greater than a depth of 82 feet bgs. Wood Rodgers and OCWD agreed that a section of the casing had collapsed due to a faulty PVC pipe considering

the collapsed section of PVC occurred near the top of the second lift. Wood Rodgers did not provide inspection when BC2 attempted to pump and run a snake-camera down the BS29D monitoring well; however, OCWD provided oversight. The well would pump water; however, would not clear up to allow observation of the collapsed section of monitoring well casing. BC2 elected to proceed with the drilling and construction of the remaining monitoring wells, BS29A – C, using the sonic rotary method, and revisit the BS29D after completion.

On August 28, 2024, BC2 began over-drilling the annular seal for the BS29D monitoring well while maintaining the 2-inch Schedule 40 blank PVC pipe. The over-drilling occurred to a depth of approximately 92 feet bgs and was reached on August 29, 2024. On that same day, BC2 installed a tool below the collapsed section of casing and inflated allowing the well casing to be secured and unthreaded. The casing joint identified at a depth of approximately 91 feet bgs was successfully unthreaded and new PVC casing was threaded into the BS29D monitoring well. BC2 proceeded with the installation of the remaining neat cement, which was successfully installed to ground surface. The inside of the BS29D monitoring well was tagged at 349 feet bgs indicating approximately 26 feet of heavy mud and sediment fill material had accumulated.

Excessive Sediment Fill

Development occurred from September 3 - 6, 2024, with airlifting, airlifting and surging, surge blocking, injection and extraction of PFD, and well purging for all monitoring wells. The BS29D monitoring well was tagged and airline was installed within the bottom of the well, 375 feet bgs, during well development. Water quality sampling occurred on September 5, 2024, and was held meet water quality stabilization criteria.

The turbidity before water quality sampling was reported at 3.02 Nephelometric Turbidity Units (NTU). All monitoring wells were disinfected with liquid sodium hypochlorite. The chlorine solution was injected and allowed to soak for 12-hours prior to extraction. The downhole video surveys were conducted on September 9, 2024, and during the video survey of BS29D monitoring well bentonite and mud was observed on well screen interval at 352.6 feet bgs and continued down the remaining of the well. The downhole camera could not be deployed below a depth of 361.4 feet bgs and the remainder of the well structure could not be observed.

Wood Rodgers and OCWD were in agreeance that the well was not acceptable and that BC2 would be required to removed sediment, debris, redevelop, inject and extract PFD, disinfect, and re-video. On September 13, 2024, BC2 attempted to remove the bentonite and debris by installing a surge block tool and a bailer. The surge block and the bailer would not pass a depth of 352 feet bgs and was unsuccessful at removing material. At the end of the working day, BC2 injected 2.5 gallons of PFD in an attempt to breakdown and dislodge the mud and debris observed within the well casing.

BC2 returned on September 16, 2024, and deployed a bailer to retrieve any sediment which was unsuccessful after multiple attempts. Prior to bailing the well was tagged at 374.5 feet bgs. BC2 proceeded with a brushing tool; however, the brushing tool was unable to pass the mud and debris within the well casing. Airline was installed to approximately 340 feet bgs; however, resulted in no flow and when raising the airline to 325 feet bgs low flow was reported. After five hours of airlifting and surging, a bailer was deployed and was unsuccessful at retrieving any

sediment material from the well. The following day, BC2 installed a scraping tool, which successfully dislodged debris from the well casing and was deployed to 373 feet bgs. The scraping tool was removed and the well was airlifted, surge blocked, and bailed. BC2 was successful at removing the sediment fill material and bentonite to the total well depth of 375 feet bgs. All of these activities resulted in a total of 33.5 working hours of which 10.5 hours were used for airlifting and surging. The final discharge was reported to be less than 11.7 NTU's after 5 minutes of surging and initial samples resulted in less than 0.1 cubic centimeters. The BS29D monitoring well was re-disinfected at the completion of development on September 19, 2024, and the chlorine was extracted via the airlifting method on the following day.

Repeat Downhole Video Survey

The downhole video survey occurred on September 23, 2024, and during the downhole video survey the camera began to glitch with various color schemes occurring within the down-view only, beginning at a depth of 100 feet bgs, and for the remainder of the video to the total well depth. Wood Rodgers rejected the video based on the various color schemes with the occasional glitching due to it being difficult to assess the PVC blank casing.

Pacific Surveys agreed to re-video the well at no charge to the owner or BC2. The re-video was performed on September 27, 2024, which Pacific Surveys utilized a 360-degree camera that records with the down-view and the side-scan simultaneously. The downhole video survey was accepted and BC2 demobilized from the site with most of the punch list items completed as of September 27, 2024. Wood Rodgers and OCWD held a final site walk through addressing remaining punch list items on October 4, 2024. Each well location will be surveyed by Wood Rodgers, subcontractor, on October 9, 2024.

Contract Amendment Request

This contract amendment includes the additional inspection incurred through the completion of Tasks 1- 8 of this project. Our site visits consisted of part- and full-time inspection while BC2 was onsite during the drilling, development, construction, and mobilization/demobilization activities for the BS29D Monitoring Well.

A detailed breakdown of the estimated number of inspection hours versus the actual hours is provided as **Exhibit A**. Wood Rodgers originally estimated 22 contractor days and 240 hours of construction management and inspection for Task 1 through 7. However, due to the activities identified in the section above, a total of 56 contractor days and 428 hours of construction management and inspection hours were required for Tasks 1 through 7. It should be noted that direct expenses for the month of September included only mileage.

The additional budget to provide full time oversight as a result of contractor overages in tasks through field observation tasks is \$37,065, including direct expenses. Wood Rodgers is requesting OCWD increase the total contract amount of \$80,646 by \$37,065 to cover the additional costs incurred during the project. The total requested contract amount is \$117,711 for the Inspection Services for Construction of the OCWD BS29 Monitoring Well Cluster.

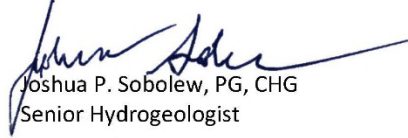
If you have any questions or require additional information, we would be pleased to respond.

Sincerely,

*Mr. David Field, PG
Orange County Water District
October 4, 2024
Page 5*



Sean Spaeth, PG, CHG
Principal Hydrogeologist



Joshua P. Sobolew, PG, CHG
Senior Hydrogeologist

Cc: Mr. Roy Herndon

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EXHIBIT A



Orange County Water District
 Inspection Services Construction of OCWD BS-29 Monitoring Well Cluster: Contract Amendment No. 1 Request

	Estimated Number of Contractor Days	Estimated Contract Work Hours Per Day	Estimated Number of Contractor Hours	Estimated Number of Inspection Hours	Estimated Number of Construction Management Hours	Actual Number of Days	Actual Number of Inspection Hours	Actual Number of Construction Management Hours	Additional Number of Inspection Hours	Additional Number of Construction Management Hours	Labor		Direct Costs	Total
											\$175 Amount	\$180 Amount		
1.0 Well Construction Management and Inspection														
1.0 Mobilization (Part-Time)	2	10	24	14	8	8	18.75	9.75	7.25	8.75	\$ 894	\$ 1,538	\$ 22	\$ 2,007
Surface Casing (Full-Time)						2	14.25	6.5	14.75	0.00	\$ 2,494	\$ 118	\$ 41	\$ 2,616
2.0 Concrete Casing (Full-Time)	1	12	12	11	5	2	19.5	4	6.50	1.00	\$ 1,138	\$ 238	\$ 22	\$ 1,398
3.0 Borehole Drilling (Full-Time)	5	10	60	65	10	15	129	16.25	64.00	6.25	\$ 11,200	\$ 1,408	\$ 223	\$ 12,831
4.0 Geophysical Logging (Full-Time)	2	10	20	28	14	1	6.75	4.75	-1.25	-9.25	\$ (3,729)	\$ (2,796)	\$ (22)	\$ (6,550)
5.0 Well Construction (Full-Time)	4	10	40	42	4	11	82	8.75	40.00	2.75	\$ 7,510	\$ 646	\$ (56)	\$ 7,802
6.0 Well Development (Full-Time)	6	10	60	60	6	16	122.75	8.25	67.75	7.50	\$ 10,981	\$ 678	\$ 223	\$ 11,782
7.0 Installation (Part-Time)	2	8	16	18	7	8	97.5	11.25	19.50	4.75	\$ 3,415	\$ 993	\$ 89	\$ 4,502
GRAND TOTAL:	22	70	232	210	47	56	428	61.5	188.00	14.50	\$ 32,900	\$ 3,096	\$ 750	\$ 37,063

*Deductions are denoted by (-)



AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/M. Patel/
F. Almario

Budgeted: Yes

Budgeted Amount: \$400,000

Cost Estimate: \$400,000

Funding Source: R&R

Program/Line Item No.: R23009

General Counsel Approval: N/A

Engineers Report: N/A

CEQA Compliance: N/A

**Subject: GAP PROCESS BUILDING EXTERIOR STAIR REPLACEMENT -
PUBLICATION OF NOTICE INVITING BIDS**

SUMMARY

The Green Acres Project (GAP) Process Building Exterior Stair Replacement project plans and technical specifications have been prepared. The project includes removal and replacement of the existing cast-in-place concrete stairs located on the east end of the GAP process building due to irreparable damage.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize publication of Notice Inviting Bids for Contract No. GA-2024-1: GAP Process Building Exterior Stair Replacement project.

BACKGROUND/ANALYSIS

The GAP Process Building (including exterior stairs) was constructed in 1990. The stairs included in this Project are located on the eastern exterior of the process building. The existing stairs are cast-in-place concrete rising approximately 17 feet from the exterior finished grade to the roof of the process building.

Many locations throughout the stair structure exhibit excess cracking and are showing signs of internal reinforcing steel corrosion. Landing/riser connections and railing post pockets are the primary areas where water has infiltrated the structure over time (30+ years) and caused the internal reinforcing steel to corrode, expand, and crack the concrete. Staff has performed repair of the damaged areas in the past by applying mortar patches and steel/stainless steel plating to slow the deterioration of the structure. However, this localized repair approach is no longer sufficient to maintain the integrity of the cast-in-place concrete staircase, and it must be replaced.

Staff issued a Request for Proposals (RFP) in June 2022 to evaluate the existing stairs and develop design drawings with technical specifications for their replacement. Scheevel Engineering was selected by the District to perform this work. The plans and specifications are complete, and the bid documents are currently being generated. Staff

recommends authorizing publication of the Notice Inviting Bids for the GAP Process Building Exterior Stari Replacement Project. Table 1 shows the proposed schedule for the project:

Table 1: Project Schedule

Description	Date
Complete Design	October 2024
Advertise for Construction	December 2024
Award Construction Contract	January 2025
Construction Complete	June 2025

PRIOR RELEVANT BOARD ACTION(S)

N/A.

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley

Budgeted: Yes

Proposed Budget: \$6,516,000

Cost Estimate: \$4,553,400

Funding Source: CIP

Program/Line Item No.: C23002

General Counsel Approval: Yes

Engineers Report: Completed

CEQA Compliance: Cat. Ex.

**Subject: AWARD CONTRACT NO. GG-2024-1 GARDEN GROVE WELL 19 PFAS
WATER TREATMENT PLANT TO R C FOSTER CORPORATION**

SUMMARY

A total of seven construction bids were received on October 22, 2024 for the City of Garden Grove Well 19 PFAS Water Treatment Plant Project, Contract GG-2024-1 (the "Project"). Based on a review of the bids received, staff recommends rejecting the bid of MMC Incorporated (MMC) as non-responsive and awarding a contract to R C Foster Corporation (R C Foster) as the responsible bidder submitting the lowest responsive bid, in the amount of \$4,553,400. Staff also recommends establishing a total project budget of \$6,516,000.

Attachment: Affidavit of Publication for Notice Inviting Bids for Contract GG-2024-1

RECOMMENDATION

RECOMMENDED BY COMMITTEE

1. Receive and file Affidavit of Publication of Notice Inviting Bids for Contract GG-2024-1 Garden Grove Well 19 PFAS Water Treatment Plant;
2. Ratify issuance of Addenda 1-4;
3. Reject the Bid of MMC, Inc. as non-responsive;
4. Accept bid and award contract GG-2024-1 to the lowest responsive bid and responsible bidder, R C Foster Incorporated, in the amount of \$4,553,400; and
5. Establish the Garden Grove Well 19 PFAS Water Treatment Plant Project budget in the amount of \$6,516,000.

BACKGROUND/ANALYSIS

Design of the Well 19 PFAS treatment plant began in June 2020. During the design process, design was halted for the City of Garden Grove (City) to evaluate the condition of the well. There was a possibility the City could have decided to abandon the well altogether, but the City determined that the well was in good condition and only needed

to be rehabilitated. In order for the well to remain functional with PFAS treatment, Well 19 needs a new well pump and motor, site improvements to the wall and enclosure around the motor, a new electrical drive, and installation of SCADA controls. The City's consultant (Civiltec) designed these upgrades, and these improvements will be partially reimbursed by the City (approximately \$1.9M).

The project was advertised for bid on August 27, and Addenda No. 1 – 4 were issued to revise the Bid Opening date, provide revised project plans and specifications, and to provide responses to potential bidder's questions. Seven construction bids were received on October 22, 2024, and a summary of these bids is shown below in Table 1.

Table 1: GG-2024-1 Garden Grove Well 19 PFAS Water Treatment Plant Bid Summary

Contractor	Bid Price
MMC Incorporated	\$4,321,850
R C Foster Corporation	\$4,553,400
Pacific Hydrotech Corporation	\$4,609,260
Pyramid Building and Engineering, Inc.	\$4,612,960
Caliagua Incorporated	\$5,233,814
T E Roberts, Inc.	\$6,110,558
R2Build DBA R2B Engineering	\$6,439,575

On October 23, 2024, R C Foster submitted a bid protest related to the bid submitted by MMC on the grounds that (1) MMC failed to provide the subcontractor information required by P-12 of the Bid Package for subcontractors performing more than one half of one percent of the total bid, in accordance with the information required by Public Contract Code Section 4100 et seq.; and (2) because MMC failed to provide the required subcontractor information, MMC would not comply with Contract General Provision 8.C. 3 which requires a contractor who does not submit subcontractor information to certify that it is fully qualified to perform that portion of work itself. R C Foster stated that MMC does not hold the C-10 classification required to perform electrical work in-house as specified in California Code of Regulations Title 16, Division 8, Article 3, and MMC has not provided documentation to establish that it does hold the requisite classification and in-house qualification.

Section 21042 of the Public Contract Code, and Section 6.1 of the Orange County Water District Policies and Procedures Manual requires contracts for capital projects for the amount of \$40,000 or more to be awarded to the lowest and best bidder who submits a responsive bid after publication of a notice calling for bids. (*See also D.H. Williams Construction, Inc. v. Clovis Unified School Dist.* (2007) 146 Cal.App.4th 757, 764.) To be responsive, a bid must conform to all specifications and bid requirements. (*Bay Cities Paving & Grading, Inc. v. City of San Leandro* (2014) 223 Cal.App.4th 1181, 1188.) Public entities may generally waive inconsequential variations from bid specifications when the variance is determined not to impact the price of the bid or give the bidder an unfair advantage over other bidders. (*Ibid.*)

District staff reviewed the bid protest and the bid of MMC and determined that, as alleged in the bid protest, MMC failed to list at least one subcontractor that would be performing work in excess of 0.5% of the total bid in violation of the bid specifications and incorporated Public Contract Code Section 4104. District staff believe that this deviation is consequential and material in several respects, and potentially confers an undue benefit to MMC over other bidders, particularly because MMC has not demonstrated that it holds the requisite qualification to perform a portion of the contract work. Thus, District Staff and Counsel are of the opinion that this bid defect is not waivable. Staff reviewed the bid of the second low bidder, R C Foster, and found it to be responsive. Staff also checked R C Foster's references, and confirmed that their contractor's license is current, active, and in good standing with the State of California. Staff recommends awarding the construction contract to R C Foster as the lowest responsible bidder that submitted a responsive bid in the amount of \$4,553,400. The project budget for the City of Garden Grove Well 19 PFAS Water Treatment Plant Project, Contract GG-2024-1, is summarized in Table 2.

Table 2: GG-2024-1 Garden Grove Well 19 PFAS Water Treatment Plant Budget Summary

Description	Budget
Design and Construction Management	
Design-Work Order 4 Well 19 (CDM Smith)	\$190,000
Work Order 4A (CM Services)	\$631,940
Design and CM Subtotal	\$821,940
Construction	
Contract GG-2024-1	\$4,553,400
Treatment Vessels	\$427,000
IX Resin	\$376,800
Permits and Advertisement Costs	\$50,000
Staff Expenses	\$60,000
Construction Subtotal	\$5,467,200
Project Contingency (5% of Contract Amount)	\$226,860
Total Project Budget	\$6,516,000
City of Garden Grove Contribution Appx.	\$1,910,400
Total Cost to OCWD	\$4,605,600

The expected project schedule is shown below in Table 3.

Table 3: GG-2024-1 Garden Grove Well 19 PFAS Water Treatment Plant Schedule Summary

Description	Date
Design	Aug 2020 – June 2024
DDW Permitting	Nov 2024 – Sep 2026
Construction Contract GG-2024-1	Dec 2024 – Nov 2026

On November 7, 2024, District staff provided notice of the recommended action described herein to MMC as well as a copy of this staff report recommending rejection of MMC’s bid. MMC has therefore been notified, in writing, that District staff is recommending rejection of its bid as non-responsive. District staff also provided MMC notice that the District Board of Directors would be considering the bid award for the Project at meetings on November 13 and November 20, 2024.

PRIOR RELEVANT BOARD ACTION(S)

12/2/20, R20-12-160: Receive and file the Engineer's Report for the Garden Grove Wells 19, 21, 23, 28, 29, and 30 PFAS Water Treatment Plants and determine the project feasible, necessary and beneficial to the lands of the District; Authorize filing of a Categorical Exemption in compliance with the California Environmental Quality Act (CEQA) guidelines; Authorize publication of a Request for Proposals to Procure and Install Ion Exchange Resin Media for the Garden Grove Wells 21, 23, 28, 29, and 30 PFAS Water Treatment Plants; and Authorize publication of Notice Inviting Bids for Contract No. GG-2020-1, Garden Grove Wells 21, 23, 28, 29, and 30 PFAS Water Treatment Plants.

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley

Budgeted: No

Budgeted Amount: N/A

Cost Estimate: \$1,595,050

Funding Source: Paygo

Program/ Line Item No. C23002,C23005

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: AUTHORIZE AGREEMENT WITH EVOQUA FOR PFAS TREATMENT
PRESSURE VESSEL SYSTEMS**

SUMMARY

OCWD previously entered into an agreement with Evoqua to manufacture PFAS Treatment Vessel Systems to remove perfluoroalkyl substances (PFAS) from water produced by Producers' affected wells. Staff recommends authorizing a new agreement with Evoqua to purchase four additional vessel systems for continued "Round 1" PFAS Treatment projects in Garden Grove and Fullerton.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of an Agreement with Evoqua for an amount not to exceed \$1,595,050 for four additional PFAS Treatment Vessel Systems.

BACKGROUND/ANALYSIS

In May of 2020, OCWD issued an Agreement to Evoqua to purchase 30 PFAS Treatment Vessel Systems (systems). There have been several modifications to Evoqua's "standard" systems that OCWD is using in order to meet the California Department of Drinking Water's Permit requirements. OCWD has assigned all the original 30 systems to projects, and there are two more projects from "Round 1" that require systems for treatment that are close to construction. The following projects require four systems: Garden Grove Well 19 (1 system) and Fullerton Wells Kim2 and Sunclipse 10 (3 systems). Both Producers currently use Evoqua Systems on their other "Round 1" projects.

Evoqua recently notified staff that they have extra PFAS treatment vessel systems that were produced to OCWD's specifications, including all the modifications made to the original 30 systems. There are four systems that Evoqua has already built without a buyer under contract. Evoqua is willing to sell these systems to OCWD for the unit price of \$398,762.50 - their price as of the date production was ordered. This represents a total savings of \$200,000 off the current price for new orders for four systems. Staff recommends authorizing issuance of an Agreement with Evoqua for an amount not to exceed \$1,595,050 for four additional PFAS Treatment Vessel Systems.

PRIOR RELEVANT BOARD ACTIONS

7/17/24, R24-7-82: Authorize issuance of Amendment No. 7 to Agreement No. 1423 with Evoqua, for an amount not to exceed \$137,664.15.

8/16/23, R23-8-102: Authorize issuance of Amendment No. 6 to Agreement No. 1423 with Evoqua, for an amount not to exceed \$376,350 and establish a total project budget of \$2,500,000.

12/7/22, R22-12-167: Authorize issuance of Amendment No. 5 to Agreement No. 1423 with Evoqua, for an amount not to exceed \$165,716.

05/19/21, R21-5-79: Authorize issuance of Amendment No. 3 to Agreement No. 1422 with Aqueous Vets, for an amount not to exceed \$208,313; and authorize issuance of Amendment No. 4 to Agreement No. 1423 with Evoqua, for an amount not to exceed \$131,854.

04/21/21, R21-4-64: Authorize issuance of Amendment No. 3 to Agreement No. 1423 with Evoqua to increase the size of five PFAS Treatment Vessel Systems from 1220 to 1240 Systems, for an amount not to exceed \$282,571.

10/21/20, R20-10-135: Authorize issuance of Amendment No. 1 to Agreement No. 1422 with Aqueous Vets, for an amount not to exceed \$306,338 to substitute Cla-Val Pressure Reducing Valves for the originally proposed rupture disks and authorize issuance of Amendment No. 2 to Agreement No. 1423 with Evoqua, for an amount not to exceed \$533,593 to substitute Cla-Val Pressure Reducing Valves for the originally proposed rupture disks and NSF-61 certified expansion joints for the originally proposed expansion joints.

09/16/20, R20-9-121: Authorize issuance of Amendment No. 1 to Agreement No. 1423 with Evoqua to increase the PFAS Treatment Vessel System pressure rating of four vessel systems to 150 psi, for an amount not to exceed \$71,840.

05/06/20, R20-5-56: Authorize 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.

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024 **Budgeted:** Yes
To: Water Issues Committee **Budgeted Amount:** \$256,000
Board of Directors **Cost Estimate:** \$256,000
From: John Kennedy **Funding Source:** CIP
 Program/ Line Item No.: C24009
Staff Contact: R.Herndon/D.Field **General Counsel Approval:** N/A
 Engineers/Feasibility Report: N/A
 CEQA Compliance: Categorical Exemption to be filed
upon project approval.

**Subject: INSTALLATION OF SHALLOW AQUIFER PIEZOMETERS AND
 TALBERT GAP MONITORING WELL CLUSTER**

SUMMARY

Staff has identified data gaps in the Shallow aquifer in the cities of Fullerton and Orange where the installation of small-diameter shallow wells (piezometers) will improve the accuracy of annual groundwater elevation contour maps and aid in the basin storage calculation. Additionally, staff recommends installing a two-monitoring well cluster to track changes in salinity and monitor the performance of the Talbert Seawater Barrier in controlling intrusion in the southwest portion of the Talbert Gap.

Attachments:

Figure 1 – Shallow Aquifer Piezometer Locations
Figure 2 – Talbert Gap Monitoring Well Locations

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting:

1. Authorize filing of a Categorical Exemption for the installation of two Shallow aquifer piezometers and one Talbert Gap monitoring well cluster in compliance with CEQA guidelines;
2. Authorize installation of piezometers FM-41 and OM-12 and monitoring wells OCWD-M29RA and OCWD-M29RB;
3. Authorize issuance of a Request for Proposals for inspection services during installation of Talbert Gap monitoring wells;
4. Establish a project budget of \$256,000; and
5. Authorize Notice Inviting Bids for piezometer and monitoring well installation.

BACKGROUND/ANALYSIS FOR SHALLOW AQUIFER PIEZOMETERS

Each year, staff collects and interprets groundwater level data throughout the basin, constructing groundwater elevation contour maps which are then used to determine the annual water level change ultimately used to calculate the change in groundwater storage and accumulated overdraft. This process is done for the three primary aquifer systems in the basin: the Shallow, Principal and Deep.

Since the Shallow aquifer in the Forebay area (generally north of the 5 Freeway) behaves as an unconfined water table aquifer, most of the storage change in the basin typically occurs due to the rise and fall of this water table in this region. Shallow sediments in the Forebay area typically have higher percentages of coarse sands and gravels than the central and coastal portions of the basin. Although over 90% of basin pumping typically comes from wells screened in the Principal aquifer, most of the pumped groundwater originates from the Shallow aquifer, which in turn is replenished by the District's recharge activities and natural infiltration of rainfall. For these reasons, the largest storage change typically occurs in the Shallow aquifer.

In the last several years with Board approval, the District has improved the accuracy of the annual basin storage calculation by constructing Shallow aquifer piezometers (a term for small-diameter monitoring wells specifically to measure groundwater levels) at seven locations along the basin margins where no wells existed (Figure 1). Data from these wells will also be useful in improving the calibration (accuracy) of the basin computer model. The two proposed Shallow aquifer piezometers would fill data gaps in the cities of Fullerton (FM-41) and Orange (OM-12), as shown in Figure 1. The anticipated depth of these two proposed wells is approximately 150 (FM-41) and 220 (OM-12) feet.

BACKGROUND/ANALYSIS FOR TALBERT GAP MONITORING WELL CLUSTER

Former monitoring well OCWD-M29 (M29) was installed by the District in 1969 with an 80-ft long screened interval across the entire depth of the Talbert aquifer. From 1969-1983, chloride concentrations doubled from 6,000 to 12,000 mg/L. Sometime shortly after 1983, M29 was lost when the site was developed, and the well was most likely paved over during construction. The proposed monitoring well cluster M29R would serve as a replacement for lost M29.

Figure 2 shows the location of former well M29 and proposed monitoring well cluster M29R on the west side of the Talbert Gap. The proposed two-well cluster will be installed in the upper and lower depths of the Talbert aquifer which will provide vertical resolution of seawater intrusion in this area. The Talbert aquifer on the west side of Talbert Gap is thought to be a preferential flow path for seawater intrusion due to relatively coarse-grained sediments relative to the rest of Talbert Gap and higher chloride concentrations (Figure 2). In addition to improving staff's ability to track salinity changes, proposed monitoring well cluster M29R will be an important calibration target for upcoming refinement of the OCWD Talbert Gap computer model.

California Environmental Quality Act

Staff has evaluated the project and determined that it qualifies for an exemption from the California Environmental Quality Act (CEQA) under Class 3 (new construction of small structures), Section 15303, as the project involves limited construction of narrow-diameter piezometers at sites devoid of sensitive habitat and occurring within previously developed roadways.

Table 1 below summarizes the proposed budget based on the geologist’s estimated costs for construction of Shallow aquifer piezometers FM-41 and OM-12 and Talbert Gap seawater intrusion monitoring well cluster OCWD-M29R.

Table 1: Construction Budget for Shallow Piezometers and Talbert Monitoring Well Cluster

Task	Cost Estimate
Shallow Aquifer Piezometer Construction (FM-41 & OM-12)	\$ 75,000
Shallow Aquifer Piezometer Construction Inspection Services ¹	0
Talbert Gap Seawater Intrusion Monitoring Well Cluster (OCWD-M29R)	110,000
Talbert Gap Seawater Intrusion Monitoring Well Cluster Inspection Services	38,000
Well Survey (all wells)	10,000
SUBTOTAL:	233,000
CONTINGENCY:	23,000
TOTAL:	\$ 256,000

¹Inspection services to be completed in-house by OCWD geologists.

PRIOR RELEVANT BOARD ACTIONS

10/18/2023, R23-10-137 Approve installation of three Shallow aquifer monitoring wells for annual water level maps and storage calculation.

3/15/23, R23-3-34 Award Contract No. GBM-2023-1, 2023 Shallow Aquifer Monitoring Wells, to BC2 Environmental, LLC.

12/21/22, R22-12-169 Approve installation of two Shallow aquifer monitoring wells for annual water level maps and storage calculation.

3/16/22, R22-3-23 Award Contract No. GBM-2022-1, 2022 Shallow Aquifer Monitoring Wells, to BC2 Environmental, LLC.

10/20/21, R21-10-154 Approve installation of two Shallow aquifer monitoring wells for annual water level maps and storage calculation.

3/21/07 M07-44 Receive and file staff report titled “Evaluation of Orange County Groundwater Basin Storage and Operational Strategy,” and adopt new three-layer storage change methodology with the associated new full basin condition.

Figure 1: Locations of proposed and previously installed Shallow aquifer piezometers to improve accuracy of annual water level maps and groundwater storage calculations.

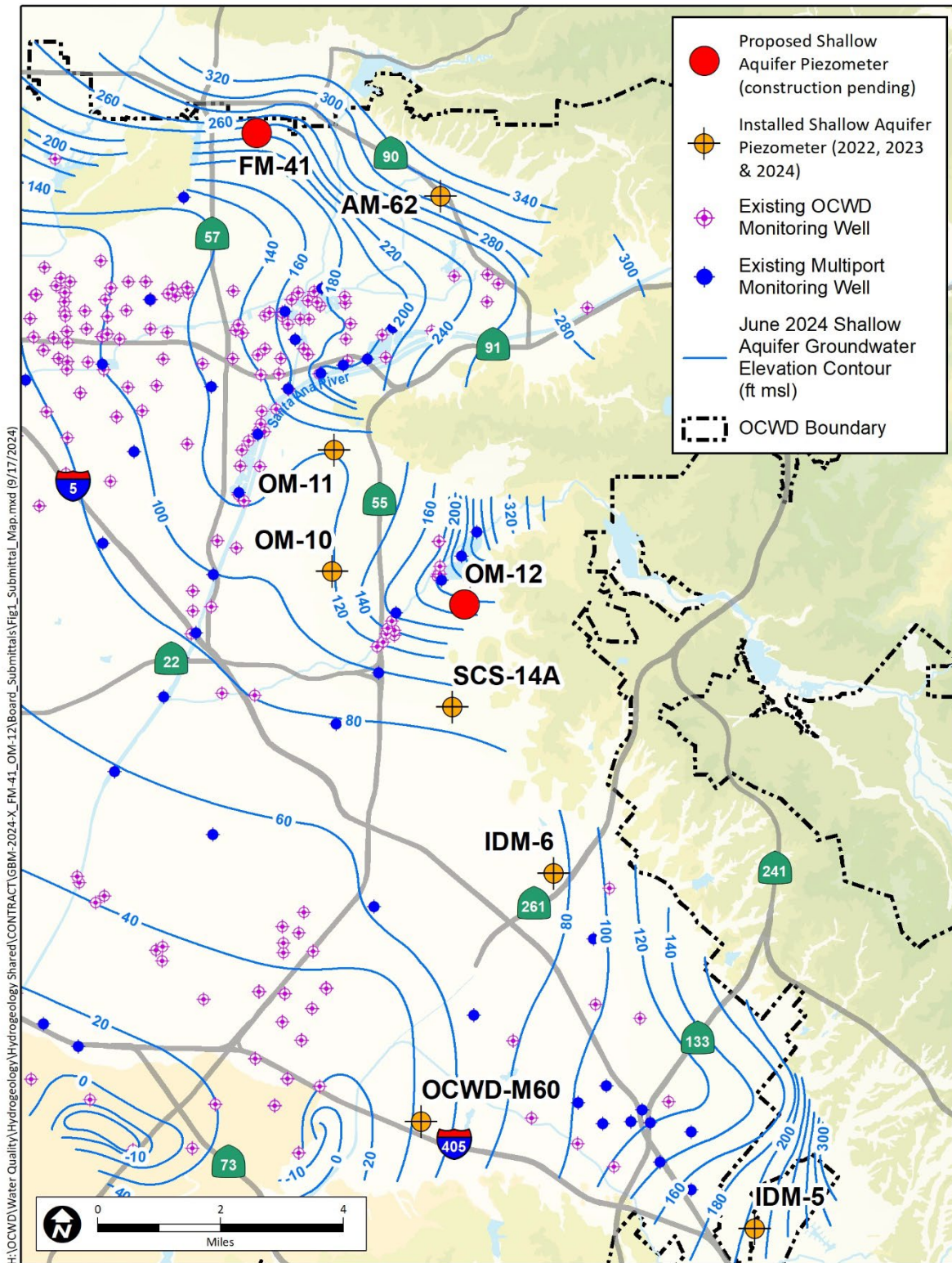
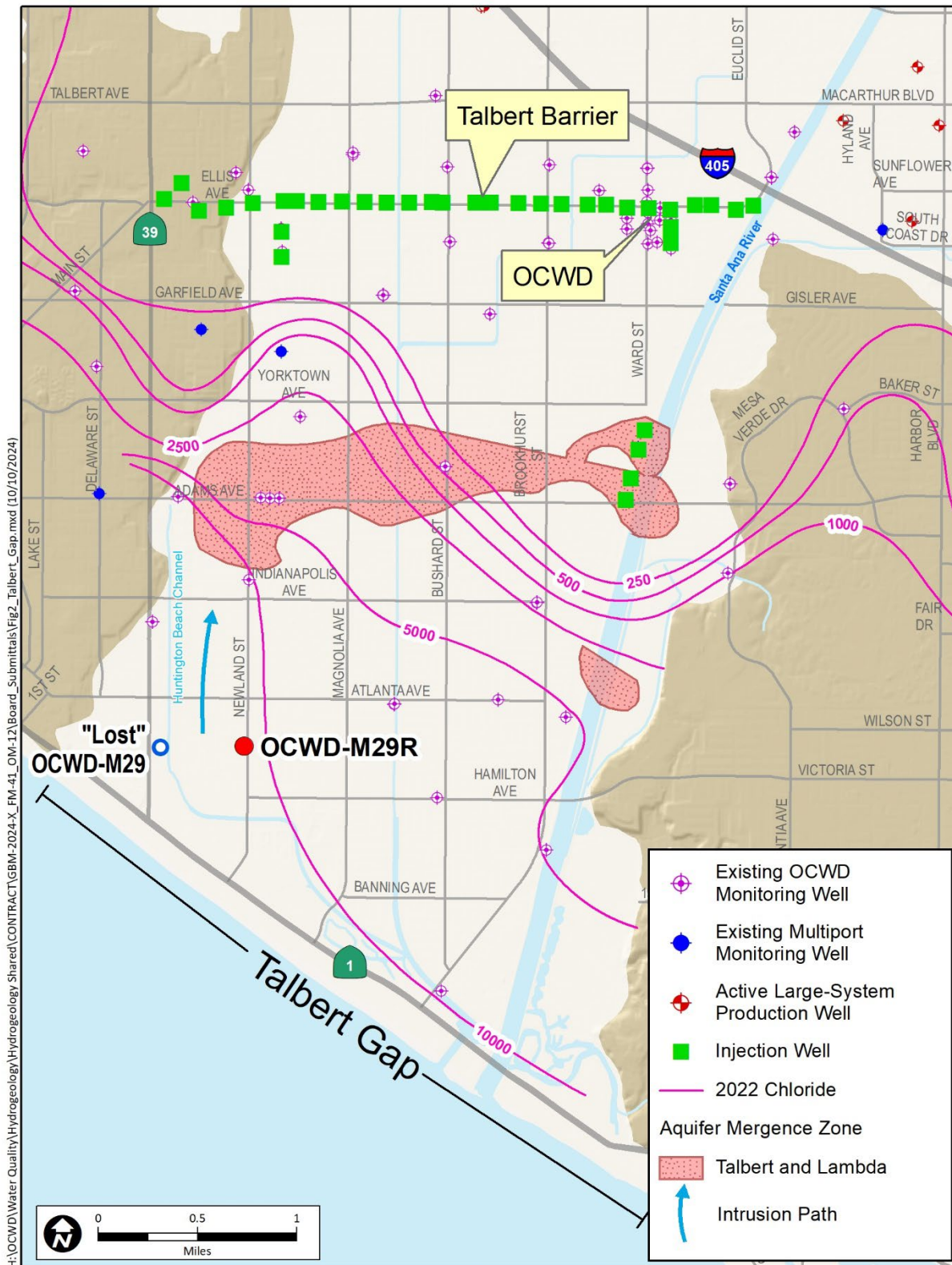


Figure 2: Locations of proposed Talbert Gap monitoring well cluster OCWD-M29R, existing OCWD-owned monitoring wells, and large system production wells.



AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

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: \$460,830

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 TO BUTIER ENGINEERING

SUMMARY

Construction of the PFAS water treatment plant at the city of Tustin Main Street Plant is underway. Due to the specific construction impacts and changes to the project schedule, staff recommends authorizing the issuance of an Amendment to Agreement No. 1558 with Butier Engineering Inc. for additional construction management and inspection services in the amount of \$460,830.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board Meeting: Authorize issuance of an Amendment No. 1 to Agreement No. 1558 with Butier Engineering Inc. for construction management and inspection services in the amount of \$460,830.

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 February 2025. The PFAS treatment plant is scheduled to go online in December 2024, but additional months 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 an Amendment to Agreement No. 1558 with Butier Engineering Inc. for additional construction management and inspection services in the amount of \$460,830. 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 5/2024	Proposed Budget 11/2024
Design, Construction Management, Permitting		
Design and CM (Jacobs Engineering)	\$2,272,041	\$2,272,041
CM (Butier)	\$652,488	\$652,488
<i>Amendment No. 1</i>		\$460,830
Permitting, Reimbursements, Advertising	\$15,000	\$15,000
Construction		
Contract TUS-2022-1	\$19,771,700	\$26,103,102
Change orders 1-4 (3.3% of contract)	\$658,822	
Change order 5 (0.4% of contract)	\$172,580	
Revised pipeline construction – change order 6	\$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
Project Contingency	\$988,585	\$527,749
Total Project Cost:	\$32,716,975	\$32,716,975
Estimated Grant Funding	\$0	(\$15,000,000)

PRIOR RELEVANT BOARD ACTION(S)

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: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/M. Patel/
F. Almario

Budgeted: Yes

Budgeted Amount: \$300,000

Cost Estimate: \$69,949

Funding Source: R&R

Program/Line Item No.: R24009

General Counsel Approval: N/A

Engineers Report: N/A

CEQA Compliance: N/A

Subject: EMERGENCY REPAIR WORK ORDER RATIFICATION

SUMMARY

The District annually establishes an emergency repair budget to facilitate a rapid response to periodic infrastructure failures and repairs. This budget item is funded from the District's Replacement and Refurbishment (R&R) reserves. Emergency expenditures in this fiscal year have totaled \$69,949.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting:

1. Ratify Work Order No. 8 of Agreement No. 1451 and payment to W.A. Rasic, Inc. for emergency repairs totaling \$14,299;
2. Ratify Work Order Nos. 9/9A of Agreement No. 1452 and payment to T.E. Roberts, Inc. for emergency repairs totaling \$55,650.

BACKGROUND/ANALYSIS

The District has implemented several measures to facilitate rapid response to emergency repairs, such as situations threatening loss of life or property. These measures are needed to respond immediately to emergencies that cannot wait for the District's normal processes to scope, design, bid, award, and execute construction work. The District has multi-year agreements in place with three contractors to respond to emergencies. The General Manager has been authorized to issue Work Orders in accordance with the emergency agreements. The District establishes an annual line item in each year's budget that is funded by the Replacement and Refurbishment (R&R) fund for emergency work. A budget of \$300,000 was established for FY 2024-25. A brief description of the emergency repairs are provided below:

On July 26, 2024, staff discovered a small sinkhole on Garfield Avenue, just south of the Fountain Valley campus. The sinkhole was located in the vicinity of a GAP 24" pipeline, GWRS 78" pipeline, and southeast barrier 54" pipeline. The General Manager

authorized emergency repair Work Order No. 8 to W.A. Rasic to investigate and perform the repairs. It was determined that the sinkhole was caused by inadequate soil compaction during pipeline construction and not as a result of leaking pipelines. The contractor excavated and disposed of the loose material and imported clean fill. The fill was adequately compacted, and the pavement was restored. Total contractor invoicing for this repair amounted to \$14,299.

On August 21, 2024, staff noticed damaged and inadequate pipe supports on the reverse osmosis decarb product water pipeline in the RO building basement. Work Order No. 9 was issued to T.E. Roberts to make the appropriate repairs as well as install additional pipe supports to mitigate pipe deflection. Work Order No. 9A was issued to cover the additional cost of labor and materials. Total contractor invoicing for this repair amounted to \$55,650.

Table 1: FY 2024-25 Emergency Repair Budget Summary

Description	Budget
Sinkhole in Fountain Valley – July 2024	
W.A. Rasic W.O.8	\$ 14,299
RO Pipe Supports – August 2024	
T.E. Roberts W.O. 9/9A	\$ 55,650
Emergency Repairs Total:	\$ 69,949
Remaining Repair Budget in FY 2024-25	\$ 230,051
Total Budget	\$ 300,000

Staff recommends ratification of Work Orders and payments to W.A. Rasic and T.E. Roberts.

PRIOR RELEVANT BOARD ACTION(S)

3/20/24; R24-3-19: Authorize Amendments to Agreements for Emergency On-Call Repair Services with W.A. Rasic Construction Company, Inc., Doty Bros. Equipment Company, and T.E. Roberts, Inc. for Emergency On-Call Repair Services; and Authorize General Manager to Initiate Emergency Repairs with On-Call Firms.

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

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: \$62,854

Funding Source: R&R

Program/Line Item No. R24032

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: AUTHORIZE AGREEMENT TO MKN FOR DESIGN SERVICES FOR
THE ANAHEIM LAKE VALVE VAULT PROJECT**

SUMMARY

The Board authorized an agreement to Gannett Fleming for design services for the Anaheim Lake Valve Vault Project on August 31, 2018. However, the project was placed on hold to prioritize the design and construction of PFAS treatment projects. In May 2021, Gannett Fleming completed 100% design and submitted pertinent job files and the agreement with Gannett Fleming was closed. The Engineer of Record who completed design with Gannett Fleming is now employed at MKN, and staff recommends an agreement with MKN to review and update the 100% design and complete the bid documents.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of Agreement to MKN for an amount not to exceed \$62,854 for design services for the Anaheim Lake Valve Vault Project.

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. There are several connections to the Anaheim Pipeline that are directly buried within a small area just north of the spillway between OC-28 and Anaheim Lake – inaccessible without deep excavation. These connections were constructed 30 – 40 years ago. During construction, these valves were directly buried and access to the valves for maintenance and repairs has been nonexistent.

Two of the existing valves within the project limits are 48-inch butterfly valves that transfer water from the Warner Pipeline to the Anaheim Pipeline. The two valves are at the end of their expected lifespan and are in need of replacement. This project will replace the two valves and will also include the construction of a subterranean vault that

would house a total of three valves. The three valves include the two 48-inch butterfly valves from the Warner Pipeline to the Anaheim pipeline and one 72-inch valve that allows the District to distribute Metropolitan Water District deliveries via OC-28 to the Anaheim Pipeline. Also within the project limits, but not included in the vault, are two additional 48-inch valves that allow the District to release water into the Atwood Channel. The project location can be seen in Figure 1.

Figure 1: Existing Anaheim Lake Buried Valve Location



A Request for Proposals (RFP) for design services of the Anaheim Lake Valve Vault Project was publicized on May 7, 2018. The District entered into an agreement with Gannett Fleming in October 2018 to analyze the benefits of a single or dual side-by-side vault and to produce construction plans and specifications for the project. Amendment No. 1 for additional design services was authorized on March 20, 2019 and Gannett Fleming completed 100% design in May 2021.

Around that time, the project was placed on indefinite hold to prioritize District resources and staff in the design and construction of PFAS treatment projects and the agreement with Gannett Fleming was closed. With the completion of several PFAS projects staff is available to finalize contract documents and construct the Anaheim Lake Valve Vault Project in order to replace ageing infrastructure and allow for safe and efficient operation of these recharge basins. The Engineer of Record who completed design with Gannett Fleming is now employed at MKN. Staff met with MKN to review District comments the 100% design and requested a proposal from MKN to review and update the drawings to current structural and electrical code and provide bid phase services. Staff has received a proposal from MKN to complete this scope of work and

recommends authorizing issuance of an agreement to MKN for an amount not to exceed \$62,854 for design services for the Anaheim Lake Valve Vault Project.

PRIOR RELEVANT BOARD ACTION(S)

3/20/19, R19-3-38: Approving amendment to Gannett Fleming for Anaheim Lake Valve Vault Project.

10/17/18, 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.

8/15/18, R18-8-110: Authorize agreement to KEH & Associates for design services for Anaheim Lake Valve Vault Project.

12/20/17, M17-170: Authorize Issuance of RFP for the Anaheim Lake Valve Vault Project.

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Herndon/D. Field

Budgeted: Yes

Budgeted Amount: \$290,000

Cost Estimate: \$290,000

Funding Source: R&R

Program/ Line Item No.: R24034

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A.

**Subject: REQUEST FOR QUOTES FOR MONITORING WELL SC-4
REDEVELOPMENT AND PURCHASE ORDER TO WESTBAY
INSTRUMENTS**

SUMMARY

Staff has determined that the 33-year-old inflatable packers separating aquifer zones in OCWD's Westbay-type monitoring well SC-4 have lost pressure and have exceeded their useful life, thus requiring replacement. Following removal of the old packers, staff recommends that the well screens be redeveloped prior to installation of new components. Staff anticipates that this replacement and refurbishment activity will extend the useful life of well SC-4 another 20 years or more.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting:

1. Authorize issuance of Request for Quotes for services to redevelop monitoring well SC-4; and
2. Authorize issuance of a Purchase Order to Westbay Instruments for an amount not to exceed \$97,000 for replacement casing and packer components and tool rental.

BACKGROUND/ANALYSIS

Monitoring well SC-4 was constructed in 1990 and is 1,148 feet deep with 9 screen intervals at various depths. The well is located in the city of Orange adjacent to Santiago Creek, on County of Orange Flood Control Property (Figure 1). The well is among the 56 Westbay-type wells installed by OCWD between 1988 and 2002. These multi-level wells are the backbone of the District's basin-wide monitoring well network, comprising more than 550 depth-specific monitoring points. They have provided the data integral to the development and operation of the OCWD basin model and continued water level and water quality monitoring including the annual basin accumulated overdraft calculation.

SC-4 is constructed of 4-inch diameter steel casing with 9 depth-discrete screened intervals that are hydraulically separated by annular seals outside the well casing and permanently inflated packers inside the casing. The packers in this well were believed to have a 6- to 10-year life expectancy when installed in 1991; however, the actual useful life of the components was approximately 33 years. Review of data indicated that the packers have lost pressure and are no longer isolating the zones in the upper part of the well. Staff recommends performing the necessary maintenance which entails removing and replacing the 1.25-inch diameter PVC Westbay casing and packer components, and redeveloping the well screens. Removal of the Westbay components requires rental of specialized tools that the District does not own. Westbay reports that the new packers have a life expectancy of 30 to 40 years.

Table 1 below provides a summary of the proposed budget based on estimated costs for Westbay components, Westbay tool rental, and well redevelopment.

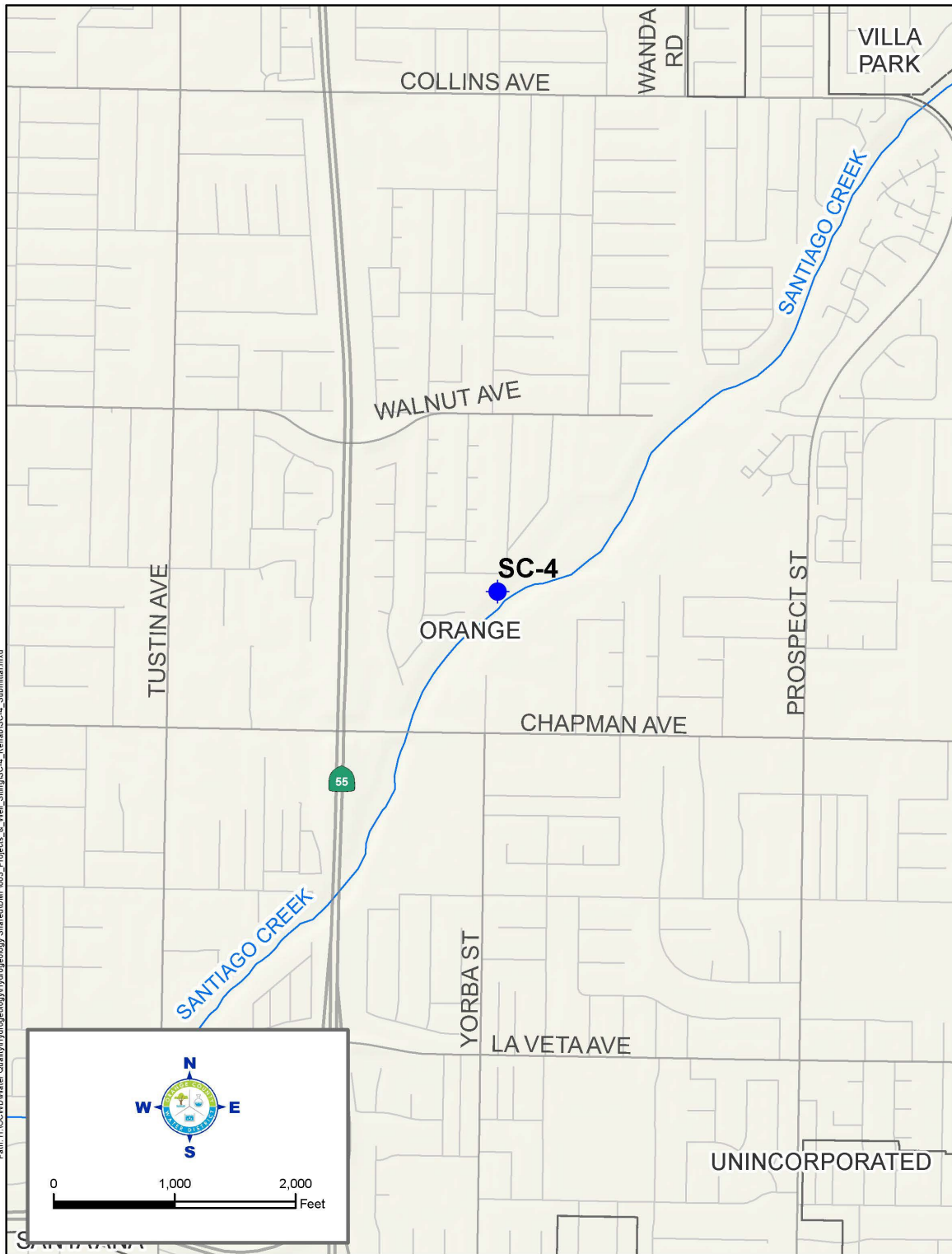
Table 1 SC-4 Redevelopment and Retrofit Budget

Task	Cost Estimate
Well Redevelopment (contractor)	\$ 193,000
Replacement Westbay Components	92,000
Westbay Tool Rental	5,000
TOTAL:	\$ 290,000

PRIOR RELEVANT BOARD ACTION(S)

4/20/1988, R88-4-81, Determine Westbay Instruments to be sole-source provider of multi-level monitoring equipment.

Figure 1 Westbay Well SC-4 Location Map



AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/A. Perry

Budgeted: Yes

Proposed Budget: \$38,760

Cost Estimate: \$38,760

Funding Source: WIFIA; SWRCB

Program/Line Item No.: C19020

General Counsel Approval: Yes

Engineers Report: Completed

CEQA Compliance: Cat. Ex.

**Subject: AUTHORIZE WORK ORDER TO ENVIRONMENTAL SCIENCE
ASSOCIATES FOR ARCHEOLOGICAL MONITORING AT SA-2023-1**

SUMMARY

The conditions of approval for the SWRCB Principal Forgiveness Grant that is partially funding construction of the City of Santa Ana PFAS Water Treatment Plant Well Nos. 27 & 28 require the implementation of archeological construction monitoring. Staff recommends authorizing Work Order 12 to Agreement 1135 with Environmental Science Associates (ESA), in the amount of \$38,760, to conduct archeological monitoring during portions of the construction of the facilities.

Attachment: ESA archeological monitoring proposal dated October 2, 2024

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize Work Order 12 to Agreement 1135 with ESA, in the amount of \$38,760, to conduct archeological monitoring for portions of the construction of City of Santa Ana PFAS Water Treatment Plant Well Nos. 27 & 28.

BACKGROUND/ANALYSIS

To restore the use of groundwater supplies impacted by PFAS contaminants, the Board previously approved the Engineer's Report for the City of Santa Ana Wells SA-27, SA-28, and SA-31 PFAS Water Treatment Plant Projects in December of 2021 and subsequently awarded Contract SA-2023-1 to Caliagua Incorporated for the construction of PFAS treatment at Wells SA-27 and SA-28. The Wells SA-27 & SA-28 project received approval for a SWRCB Principal Forgiveness Grant with the City as the grant applicant that will fund up to 50% of OCWD's project costs up to \$5M. The conditions of approval of this grant require the implementation of archeological monitoring during the portions of the construction that require new ground disturbances.

Staff received a proposal for the archeological monitoring from the consulting firm ESA, who is currently approved on the District's On-Call environmental consultants list. ESA has demonstrated expertise in conducting archeological construction monitoring.

Recently, ESA has conducted archeological construction monitoring on behalf of OCWD in support of the GWRS Final Expansion project as well as during the implementation of a monitoring well in Seal Beach that was a component of the Sunset Gap Monitoring Wells project. Staff recommends authorizing Work Order 12 to Agreement 1135 with ESA, in the amount of \$38,760, to conduct archeological monitoring for portions of the construction of City of Santa Ana PFAS Water Treatment Plant Well Nos. 27 & 28.

PRIOR RELEVANT BOARD ACTION(S)

06/19/2024, R24-6-63: Award Contract SA-2023-1 City of Santa Ana PFAS Water Treatment Plant Wells No. 27 & 28 to Caliagua Incorporated.

12/15/2021, R21-12-177: Approve the Engineer's Report for the City of Santa Ana Wells SA-27, SA-28, SA-31, and SA-40 PFAS Water Treatment Plant Project and determine the project feasible, necessary and beneficial to the lands of the District; Authorize the General Manager to execute the Agreement Regarding Temporary Right of Entry between the District and the Redwoods Homeowners Association.

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

To: Water Issues Committee
Board of Directors

From: John Kennedy

Staff Contact: R. Bouley/A. Perry

Budgeted: No

Proposed Budget: \$60,000

Cost Estimate: \$60,000

Funding Source: R&R

Program/Line Item No.: R24xxx

General Counsel Approval: Yes

Engineers Report: N/A

CEQA Compliance: N/A

**Subject: MICROFILTRATION WEST BASEMENT ACOUSTIC PANEL PROJECT:
REQUEST FOR PROPOSALS**

SUMMARY

Staff working in the Microfiltration West (MF West) basement have noticed the sound levels are higher than other areas of the basement and are high enough to require full time hearing protection. Plans and specifications for installation of additional sound absorption panels have nearly been completed by Black and Veatch under their GWRS Final Expansion Agreement. Staff recommends creating a new R&R project with an initial budget of \$60,000 and authorizing issuing a Notice Inviting Bids for the MF West Basement Acoustic Panel Project construction contract.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting:

1. Create a new R&R project with an initial budget of \$60,000 for the MF West Basement Acoustic Panel Project;
2. Authorize issuance of a Request for Proposals for the Microfiltration West Basement Acoustic Panel Project

BACKGROUND/ANALYSIS

As part of the GWRS Final Expansion, MF West was expanded to fit twelve additional below grade concrete basins or cells. The expansion included extending the basement and ground floors of the building. Once the new cells were in operation, it was determined that the noise level in the MF West basement was considerably higher than the other existing areas of the basement. Several other areas of the GWRS plant utilize sound panels mounted to the concrete walls to absorb and prevent reflection of soundwaves generated by the pumps and other equipment in the plant. This includes other portions of the MF West basement and the entire MF East basement, both built previously. Staff requested Black and Veatch produce construction exhibits and specifications for new acoustic panels to be installed in the MF West basement utilizing existing budget in their GWRS Final Expansion design agreement with OCWD. The

new acoustic panels will match the existing aesthetic and layout of the existing panels throughout the existing MF basement and will allow staff to work in the basement under safer conditions.

There is not currently a project in the R&R budget to retrofit the MF West basement walls with acoustic panels. Staff recommends creating a new R&R project that would install sound absorption panels in the high noise areas of the MF West basement to reduce sound levels. The estimated project budget is \$60,000 and would be updated upon award of an Agreement.

Since the MF West basement is an existing functional part of the GWRS plant that requires operators to perform work on a regular basis, staff recommends issuance of a Request for Proposals for the MF West Basement Acoustic Panel Project to allow installation to be completed as soon as possible. Table 1 shows the proposed project schedule.

**Table 1: MF West Basement Acoustic Panel Project
Schedule Summary**

Description	Completion Date
Design	November 2024
Request for Proposals	December 2024
Proposals Opening	January 2024
Award	February 2024
Construction	March 2024 - June 2024

PRIOR RELEVANT BOARD ACTION(S)

None

AGENDA ITEM SUBMITTAL

Meeting Date: November 13, 2024

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: REVERSE OSMOSIS CIP VALVE RELOCATION PROJECT: AUTHORIZE NOTICE INVITING BIDS

SUMMARY

The final plans and specifications for the Reverse Osmosis Clean-In-Place (CIP) Valve Relocation project have been completed. Staff recommends issuing a Notice Inviting Bids for the construction contract.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize publication of Notice Inviting Bids for Contract No. GWRS-2024-1, Reverse Osmosis CIP Valve Relocation Project

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.

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. The CIP Valve Relocation Project will be added to the currently budgeted CIP PVC Piping System Replacement Project, and staff will establish the budget for the RO CIP Valve Relocation portion of the project upon requesting award early next year.

Table 1 shows the overall project schedule summary.

**Table 1: Reverse Osmosis CIP Valve Relocation Project
Schedule Summary**

Description	Completion Date
Design	October 2024
Advertise for Bids	January 2024
Bid Opening	February 2024
Construction	May 2024

Staff recommends authorizing the Publication of the Notice Inviting Bids for Contract No. GWRS-2024-1, Reverse Osmosis CIP Valve Relocation Project.

PRIOR RELEVANT BOARD ACTION(S)

None

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

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 November 20 Board meeting: Receive and file Summary Cash and Cash Equivalents Control Reports dated October 31, 2024.

PRIOR RELEVANT BOARD ACTIONS

Monthly

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

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 October 31, 2024.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Receive and file the Investment Portfolio Holdings Reports dated October 31, 2024.

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)	\$5,779,644	\$4,359,560
Required Collateral	None	None
Duration/Maturity	261 Days or 0.72 years	264 Days or 0.72 years
Rate of Return/Yield	3.428%	3.313%

- The yield on the one-year Treasury note as of the month end is at 4.27%; two-year at 4.16% and the five-year at 4.15%. The last Federal Open Market committee (FOMC) meeting was held on September 17-18, 2024. The FOMC lowered the Federal fund benchmark interest rate by 50 basis points (bps) or (1/2) half a percentage point to 4.75% to 5.00%. This is the rate prime banks lend

to each other.

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

To: Administration/Finance Issues Cte
Board of Directors

From: John Kennedy

Staff Contact: M. Patel/R. Fick

Budgeted: Yes

Budgeted Amount: \$5,272,750

Cost Estimate: \$5,369,847

Funding Source: General Fund

Program/Line Item No.: 1050.54050;
1050.54030; 1050.54001; 1050.54020; 1050.54033

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: AMENDMENTS TO AGREEMENTS WITH VARIOUS CHEMICAL VENDORS FOR THE SUPPLY AND DELIVERY OF WATER TREATMENT CHEMICALS

SUMMARY

On December 20, 2023, the Board approved the award of Agreements to various Chemical Vendors for the supply and delivery of water treatment chemicals that are used by the GWRS Advanced Water Purification Facility and Green Acres treatment process. The Agreements were for a one-year period with the option to renew for an additional six months. The Agreements are set to expire on December 31, 2024, and staff recommends the approval and issuance of Amendments for an additional six months to the Chemical Agreements.

Attachments:

- Department of Pesticide Regulation – Mill Assessment
- Revised JCI Pricing including Mill Assessment, dated 10/1/2024
- Revised Univar Pricing Proposal, dated 10/9/2024

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of the following Amendments to Chemical Vendors for the supply and delivery of water treatment chemicals:

1. Amendment No.1 to Agreement No. 1562 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Hydrogen Peroxide
2. Amendment No.1 to Agreement No. 1563 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Citric Acid
3. Amendment No.1 to Agreement No. 1566 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Caustic Soda
4. Amendment No.2 to Agreement No. 1564 with JCI Jones Chemical Inc., effective January 2025 to June 30, 2025, for a revised Sodium Hypochlorite rate of \$1.764/gallon;
5. Amendment No.1 to Agreement No. 1565 with Univar Solutions USA, effective January 2025 to June 30, 2025, for a revised Sulfuric Acid rate of \$236/ton

BACKGROUND/ANALYSIS

In November 2023, staff issued Request for Proposals for five bulk chemicals: Hydrogen Peroxide, Citric Acid, Sodium Hypochlorite, Sulfuric Acid, and Caustic Soda. And On December 20, 2023, the Board approved the award of Agreements to Brenntag for the supply and delivery of Hydrogen Peroxide, Citric Acid, and Caustic Soda, Univar was awarded for the supply and Delivery of Sulfuric Acid, and, JCI Jones was awarded for the supply and delivery of Sodium Hypochlorite. An Amendment No.1 to Agreement No 1564 with JCI Jones was executed in March 2024 to include the Mill Assessment fee \$0.0362/gal which was not originally included in the unit pricing.

Staff reached out to the three chemical vendors, Brenntag Pacific, Univar Solutions USA and JCI Jones Chemicals, Inc. where they all agreed to a six month time extension. Brenntag Pacific will be keeping its chemical pricing the same for the supply and delivery of Hydrogen peroxide, Citric Acid, and Caustic Soda. Whereas Univar and JCI Jones have an increase in rates. Univar is increasing its rate to \$236/ton from \$226/ton for Sulfuric Acid due to an increase in its supplier costs, therefore staff recommends an approval of this rate increase. JCI Jones is keeping the same chemical bid pricing for Sodium Hypochlorite at \$1.7219/gallon, but due to a Mill Assessment Fee governed by the California Department of Pesticide Regulation, sodium hypochlorite is considered a registered pesticide and therefore this fee is assessed. In JCI Jones original proposal the Mill Assessment Fee was not included and not requested as part of the Request for Proposal, therefore staff recommends including the Mill Assessment Fee rate increase effective January 1, 2025 to June 30, 2025 of \$0.0421/gal for a total rate of \$1.764/gallon.

Table 1 shows the old price, new Agreement pricing, and recommended new rate increases.

Table 1:

Vendor	Chemical	Old Price/Unit 12/31/24 & Prior	New Price/Unit Through 12/31/24	Revised New Price/Unit 1/1/25-6/30/25
Brenntag Pacific	Hydrogen Peroxide	\$545/ton	\$500/ton	\$500/ton
Brenntag Pacific	Citric Acid	\$2,760/ton	\$1,214/ton	\$1,214/ton
JCI Jones	Sodium Hypochlorite	\$2.15/gal	\$1.7581/gal	\$1.764/gal
Univar	Sulfuric Acid	\$248/ton	\$226/ton	\$236/ton
Brenntag Pacific	Caustic Soda	\$864/ton	\$676/ton	\$676/ton

Staff recommends issuance of an amendment to all five chemical supplied contracts as described above and pricing shown in Table 1 for a six month time extension through June 30, 2025. This time extension also ensures that all the chemical supply contract end dates will correspond with the end date of the OCWD fiscal year.

PRIOR RELEVANT BOARD ACTION(S)

3/20/24 R24-3-22 - Authorize issuance of Amendment No.1 to Agreement No.1564 with JCI Jones Chemical Inc., effective from January 1, 2024, to December 31, 2024, for a revised sodium hypochlorite rate of \$1.7581/gallon to include the Mill Assessment Fee.

12/20/23 R23-12-167 - Authorize issuance of the following Agreements to vendors for the purchase of water treatment chemicals:

- 1) Hydrogen Peroxide: Brenntag Pacific, Inc. @ \$500/ton
- 2) Citric Acid: Brenntag Specialties, Inc. @ \$1,214/ton
- 3) Sodium Hypochlorite: JCI Jones @ \$1.7219/gal. (one year only)
- 4) Sulfuric Acid: Univar Solutions USA @ \$226/ton (one year only)
- 5) Caustic Soda (sodium hydroxide): Brenntag Pacific, Inc. @ \$676/ton

12/21/22 R22-12-177 - Authorize issuance of the following Agreements to vendors for the purchase of water treatment chemicals:

- 1) Hydrogen Peroxide: USP Technologies @ \$545/ton
- 2) Citric Acid: Brenntag Specialties, Inc. @ \$2760/ton
- 3) Sodium Hypochlorite: Olin Corporation @ \$2.15/gal. (one year only)
- 4) Sulfuric Acid: Univar Solutions USA @ \$248/ton (one year only)
- 5) Caustic Soda (sodium hydroxide): Univar Solutions USA @ \$864/ton

12/15/21 R21-12-179 - Authorize issuance of the following Agreements to vendors for the purchase of water treatment chemicals:

- 1) Hydrogen Peroxide: USP Technologies @ \$435.89/ton
- 2) Citric Acid: Brenntag Specialties, Inc. @ \$3260/ton (quarterly price protection)
- 3) Sodium Hypochlorite: Olin Corporation @ \$1.30/gal. (one year only)
- 4) Sulfuric Acid: Univar Solutions USA @ \$198/ton (one year only)
- 5) Caustic Soda (sodium hydroxide): Univar Solutions USA @ \$784/ton

12/16/20 R20-12-169 - Authorize issuance of the following Agreements to vendors for the purchase of water treatment chemicals:

- 1) Brenntag Pacific; hydrogen peroxide, at \$425/ton with a 3% 10 net 30 term discount, to commence on January 1, 2021,
- 2) Brenntag Pacific citric acid, at \$870/ton with a 3% 10 net 30 term discount, to commence on January 1, 2021,
- 3) Olin Chlor Alkali Products for sodium hypochlorite, at \$0.74/gal to
- 4) Univar USA, sulfuric acid, at \$151/ton, with a 2% 10 net 30 term discount, to commence on January 1, 2021,
- 5) Brenntag Pacific caustic soda, at \$490/ton with a 2% 10 net 30 term discount,
- 6) American Water Chemicals for supply and delivery of RO antiscalant at \$0.869/lb, to commence on January 1, 2021, and terminate on June 30, 2021

10/19/19 R 19-10-153 - Authorize issuance of Amendment No. 2 for each of the following Agreements to vendors for the purchase of water treatment chemicals:

- 1) Brenntag Pacific - hydrogen peroxide, at \$425/ton (which is reduced from current price of \$435/ton) with a 3% 10 net 30 term discount
- 2) Brenntag Pacific -- citric acid, at \$850/ton (which is reduced from current price of \$860/ton) with a 3% 10 net 30 term discount,
- 3) Olin Chlor Alkali Products - sodium hypochlorite, at \$0.71/gal (an increase of 3% due to an increase in fuel and raw material costs)
- 4) Univar USA, Inc., - sulfuric acid, at \$145/ton (no increase), with a 2% 10 net 30 term discount, to commence on November 1, 2019,
- 5) Brenntag Pacific caustic soda, at \$590/ton (which is reduced from current price of \$610/ton) with a 2% 10 net 30 term discount

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: S. Dosier/N. Issak

Budgeted: No

Budgeted Amount: N/A

Cost Estimate: Year 1: \$18,802; Year
2: \$23,664

Funding Source: General Fund Reserves

Program/Line Item: 1030.51501

General Counsel Approval: N/A

Engineers Report Approved: N/A

CEQA Compliance: N/A

**Subject: ADD PERFORM AND ONBOARD MODULES TO EXISTING NEOGOV
SYSTEM**

SUMMARY

The Orange County Water District has been using Insight, NeoGov's applicant and recruitment management system for several years. This is a system used by many public agencies for recruitment. NeoGov also offers other cloud-based solutions for public agencies as additional modules. Staff have been evaluating two of those cloud-based modules which would improve the District's administrative processes: *Perform* for performance management and *Onboard* for new hire onboarding. Staff recommends the District add these modules to the existing contract with NeoGov.

Attachment: NeoGov Cost Proposal

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Approve the addition of the *Perform* and *Onboard* modules to the existing NeoGov System.

BACKGROUND / ANALYSIS

The Orange County Water District has been using Insight, NeoGov's applicant and recruitment management system for several years. This is a system used by many public agencies for recruitment. NeoGov also offers other cloud-based solutions for public agencies as additional modules. Staff have been evaluating two of those cloud-based modules which would improve the District's administrative processes: *Perform* for performance management and *Onboard* for new hire onboarding.

Currently, staff is handling employee performance reviews and onboarding through manual, paper-based methods. These processes are inefficient and time-consuming, creating administrative challenges for both HR staff and department managers. As the District grows, transitioning to a digital platform is essential to improve internal processes and better support our workforce.

Staff has evaluated performance software that could streamline the process, customize our

current review process, and allow multi-level reviews, feedback, and approval in one online system. NeoGov has the capabilities and customization abilities needed to move paper-driven processes online.

In addition to performance reviews, staff are seeking ways to enhance the new hire onboarding process. NeoGov offers an additional module called *Onboard*, which manages documentation and modernizes the onboarding process by automating forms, centralizing documentation, and ensuring consistency in the employee experience. This module allows new hires to complete all required documents online, saving time for both HR and employees.

NeoGov is specifically designed for public sector employers. Both the *Perform* and *Onboard* modules can be customized to our current processes for a smooth transition. Managers and Supervisors are already familiar with NeoGov through the recruitment module. Staff evaluated other online systems but found none that could provide the necessary customization.

Adding NeoGov's *Perform* and *Onboard* modules would seamlessly integrate with our existing system, ensuring an efficient workflow. New hires are already in the system through the application process and would be added automatically upon hire, with new hire forms generated electronically. The required employee data would already be loaded into NeoGov for the performance evaluation process. Our managers and HR team are familiar with NeoGov's interface, reducing the learning curve and training time and costs. Additionally, the platform offers reporting and analytics tools, providing insights into performance trends and identifying high performers.

After careful evaluation staff recommend adding both the *Perform* and *Onboard* modules through NeoGov. The initial investment for implementing NeoGov's *Perform* and *Onboard* modules will require a budget allocation as detailed in the attached cost comparison. Long-term savings in administrative time and improved workforce productivity make this a cost-effective solution for the District.

PRIOR RELEVANT BOARD ACTION(S): N/A

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024
To: Administration/Finance Issues Cte.
Board of Directors
From: John Kennedy
Staff Contact: M. Patel/D. Mansell
Subject: **PURCHASE REVERSE OSMOSIS MEMBRANE CLEANING CHEMICALS FROM AMERICAN WATER CHEMICALS, INC**

Budgeted: Yes
Budgeted Amount: \$593,000
Cost Estimate: \$135,777
Funding Source: General Fund
Program/Line Item No. 1050.54033.9922
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

SUMMARY

The reverse osmosis (RO) treatment process used in the Groundwater Replenishment System (GWRS) Advanced Water Purification Facility (AWPF) contains over 28,350 individual RO membrane elements. When the RO membranes become fouled, they require periodic cleaning using a combination of either generic or proprietary cleaning chemicals.

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of Purchase Order to purchase 36,400 pounds of AWC C-227 RO membrane cleaning chemical from American Water Chemicals, Inc. for \$135,777.

BACKGROUND/ANALYSIS

The GWRS AWPF RO is the main treatment system for removal of organics and salts. The membranes within the RO system eventually become fouled over time from continuous use. The main source of fouling is deposition of organics onto the membrane feed spacer material. This fouling layer leads to an increase in pressure required to produce water while also causing an increase in the passage of salts. In order to combat the RO fouling, a chloramine residual is kept in the RO feedwater. However, even this chloramine residual is not enough to keep biological fouling at bay over long periods of time. Once long-term fouling is observed, the RO membranes require cleaning with a solution containing surfactants at an elevated pH.

The GWRS RO system contains twenty-one individual units that each produce 5 million gallons per day (MGD) of flow. Of the 27 RO units located in the GWRS AWPF, seven are experiencing signs of normal fouling due to the time since their last cleaning. The membranes in most units are cleaned at least once per year as a way to maintain membrane performance while reducing overall pressure and energy requirements.

In an attempt to discover the nature of the foulant and what chemicals may best remove it, membranes from several RO units have been sent to American Water Chemicals (AWC), Inc in Florida. AWC provides the antiscalant chemical used in the GWRS RO system to help retard mineral scaling of the RO membranes. AWC performed autopsies of fouled membranes sent to them in the past and performed a cleaning study on those membranes. The results of AWC's autopsy revealed a high level of organic humic substances that could be removed using AWC's RO membrane cleaning chemical called C-227. The C-227 product has been used in the past in the GWRS RO system and has been proven to be effective at a cost comparable to generic chemicals. It has proven to be more effective than other chemicals sold by other vendors.

The Water Production Operations staff anticipates the cleaning of seven RO units (D01, F01-F03, G01-G03) over the next two months. Seven other units (B02, H01-H03, I01-I03) were cleaned recently upon Board approval for cleaning chemicals back in September 2024. This will allow for most units to have clean membranes as we enter the most challenging part of the year, which is the fall and winter period when feed water temperatures drop. This seasonal change in temperature also corresponds to a higher fouling potential for the GWRS membrane processes.

The Water Production General Fund budget contains funding for the purchase of RO membrane cleaning chemicals each year, including the amount required for this current cleaning effort. The total amount budgeted in the Water Production General Fund budget for fiscal year 2024-2025 is \$593,000. In order to remove the fouling experienced by the seven RO units in question, a large purchase of the C-227 product is required. A total of 36,400 pounds of this chemical is required to fully clean the RO membranes in these seven units. The cost of the AWC C-227 product is \$3.43/pound plus tax. This results in a total purchase required in the amount of \$135,777.

PRIOR RELEVANT BOARD ACTION(S) N/A

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

To: Administration/Finance Issues Cte.
Board of Directors

From: John Kennedy

Staff Contact: M. Patel/R. Phillips

Budgeted: Yes

Budgeted Amount: \$78,500

Cost Estimate: \$73,172

Funding Source: R&R

Program/ Line Item No. R24016

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

Subject: PURCHASE F-150 LIGHTNING TRUCK FROM VILLA FORD

The District's fleet of on-road trucks is aging. The average age of the on-road vehicles within the Water Production Maintenance group exceeds 20 years, some replacement parts are difficult to find, and excessive repair efforts are required for some vehicles. Staff recommends to surplus and replace the existing T-78, a 1993 F-350 truck, with a new F-150 Lightning zero emission vehicle (ZEV) truck which also complies with new Advanced Clean Fleet (ACF) regulations.

Attachments:

Quote from Villa Ford for an F-150 Lightning truck
Vehicle Sticker for F-150 Lightning truck

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of Purchase Order to Villa Ford of Orange for \$73,172 to purchase an F-150 Lightning truck and approve T-78 for surplus when the new truck is delivered.

BACKGROUND/ANALYSIS

The District's overall fleet of on-road trucks is aging, this is especially true for work trucks assigned to the Water Production Maintenance group. The average age of those on-road vehicles exceeds 20 years, some replacement parts are difficult to find, and excessive repair efforts are required for some vehicles. For fiscal year 2024-25, a budget of \$78,500 was established to replace truck T-78, a 1993 (31 years old) model F-350 with 45,290 miles. The primary use of this vehicle was as a welding truck. This meant its use consisted of frequent short trips to various District on and office site facilities where the engine was required to idle to help power the welding equipment. This resulted in frequent engine usage, but with lower overall mileage given the age of the vehicle. Also, mileage of the District's vehicles is not always a good measure of its use. Many of the trips are short in nature but involve significant idling time and hauling of various cargo.

T-78 was used extensively at the prior Water Factory 21 site, the current Groundwater Replenishment System (GWRS) facility, and at various well sites that make up the

Talbert Seawater Intrusion Barrier. This vehicle was originally purchased with truck bed modifications for use as a welding truck. Large welding machines were originally affixed to a modified flatbed on the rear of the vehicle. Modern welding equipment is much more compact in size and better suited for transport in a standard truck bed making the need for a specialized truck bed unnecessary. In addition, a replacement for T-78 is needed due to the engine not being able to remain running upon starting and is showing a failure code that cannot be read by modern diagnostic equipment. In addition, T-78 did not pass a recent smog test. The estimated costs to diagnose and repair the exhaust system to meet smog test requirements would exceed the current value of the vehicle, even if the engine stalling issue could be resolved.

The California Air Resources Board (CARB) enacted a new regulation known as the Advanced Clean Fleets (ACF). ACF was adopted on April 18, 2023 and became effective October 1, 2023. This regulation applies to medium and heavy duty on-road vehicles with a gross vehicle weight rating (GVWR) greater than 8,500 pounds. ACF was implemented as part of California's overall strategy to reduce greenhouse gas emissions in order to meet the state's goal of carbon neutrality by 2045. Beginning January 1, 2024, through January 1, 2027 ACF requires that 50% of vehicle purchases with a GVWR greater than 8,500 pounds must be ZEV, and after January 1, 2027, 100% must be ZEV.

Two different OCWD vehicles require replacement in fiscal year 2024-2025 with a GVWR greater than 8,500 pounds and subject to the new ACF regulation. One of those vehicles is the Water Quality Department's T-97 Westbay Vehicle. T-97 is a specialized water quality sampling vehicle designed to collect samples from the District's extensive Westbay multi-port monitoring well network. A replacement for T-97 with its required specialized equipment was not available in ZEV. However, a replacement for T-78 is available in ZEV in the form of the Ford Lightning F-150 truck with an extended range battery. In order to meet the 50% ZEV requirement for new vehicle purchases (between 2024 and 2027) with a GVWR over 8,500 pounds, the purchase of the Ford F-150 Lightning vehicle allows for the replacement for T-97 to be one with a conventional internal combustion gas engine (that is non-ZEV). As such, staff received approval from the Board for the purchase of non-ZEV replacement for T-97 at the September 18, 2024 board meeting. Now, staff is seeking approval of T-78 with a ZEV equivalent to replace a vehicle at the end of its life while also staying compliant with the ACF regulation.

Staff sought pricing for the Ford F-150 Lightning truck from several Ford dealers to compare equivalent truck purchase costs with necessary options such as a spray in bed line and power inverter with receptacle for powering tools. Given the limited quantities available of the Ford F-150 Lightning truck, obtaining quotations has taken longer than expected. This is the reason approval for the replacement for T-78 is coming after the prior approval of T-97. Villa Ford provided the lowest price with the necessary options at a cost of \$73,172, which includes tax and a 3-year warranty. The replacement of T-78 was budgeted in the Refurbishment and Replacement budget for fiscal year 2024-2025 at \$78,500.

PRIOR RELEVANT BOARD ACTION(S) N/A

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

To: Administration/Finance Issues Cte
Board of Directors

From: John Kennedy

Staff Contact: B. Dosier

Budgeted: Yes

Budgeted Amount: \$400,000

Cost Estimate: \$600,000

Funding Source: New Equipment

Program/Line-Item No.: E24.17110.1016

General Counsel Approval: N/A

Engineers/Feasibility Report: NA

CEQA Compliance: N/A

**Subject: BOARDROOM AND CONFERENCE ROOM AUDIOVISUAL CONTRACTOR
REQUEST FOR PROPOSALS**

SUMMARY

The audiovisual systems in the Boardroom, C3 and C2 conference rooms have reached their end of life and are causing issues due to equipment failure, lack of support and difficulty in finding replacement parts. During the last year, staff has been working with an audiovisual consultant to analyze the existing audiovisual systems and to develop recommendations for a design and new equipment. Staff recommends authorization to issue a Request for Proposals (RFP) to audiovisual contractors to replace the District's existing audiovisual systems.

Attachment: Draft Audiovisual Request for Proposals

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of Request for Proposals (RFP) for an audiovisual contractor to provide equipment and services to replace the audiovisual systems in the Boardroom and C2 and C3 conference rooms.

BACKGROUND/ANALYSIS

The District Boardroom is used primarily for meetings of the District's 10-member Board of Directors and provides seating for up to 130 people. OCWD conducts semi-monthly Board meetings, and holds committee meetings, workshops, tours, and other public meetings in the Boardroom and conference rooms. The Boardroom and conference rooms are also used by the Municipal Water Districts of Orange County (MWDOC), and occasionally, by several outside agencies and organizations for public meetings. Meetings are held in person, however, as a courtesy, they are typically provided with virtual meeting platforms like Zoom.

The audiovisual systems in the Boardroom, C2 and C3 conference rooms, installed by Integrated Media Systems, Inc. (IMS) 12 years ago, have reached their end of life and are causing issues due to equipment failure, lack of support and difficulty in finding replacement parts. During the last year, staff has been working with an audiovisual consultant to analyze

the existing audiovisual systems in the Boardroom and the conference rooms, and to develop recommendations for a design and new equipment.

Boardroom

- New direct view LED (dvLED) video wall.
- New display screens for Directors at the dais.
- New audio and video control equipment
- New control panels and graphic controllers
- New amplifiers and microphones
- New wireless microphones
- New multiple cameras
- New request-to-speak and voting system

Conference Rooms C3 and C2

The replacement would include:

- New display
- New audio and video control equipment
- New amplifiers and microphones
- Camera and touch panel controls

Estimated costs for Boardroom and Conference Rooms

The estimated costs for the purchase and installation of audiovisual equipment in the Boardroom and conference rooms is as follows:

Boardroom	\$500,000
C3 Conference Room	\$ 58,000
<u>C2 Conference Room</u>	<u>\$ 58,000</u>
Total	\$616,000

Annual maintenance, support and licensing are estimated to be \$25,000 - \$30,000.

Staff recommends authorization to issue an RFP for an audiovisual contractor to provide equipment and services to replace the audiovisual systems in the Boardroom and C2 and C3 conference rooms. Staff will return with a recommendation to the Board for consideration upon completion of the RFP process.

The estimated schedule for the Requests for Proposal for utility audit and cost reduction services is as follows:

RFP Issued	Thursday, November 21, 2024
Pre-Proposal Meeting (mandatory)	Wednesday, December 4, 2024
Questions Due Date	Wednesday, December 11, 2024
OCWD Addendum/QA Response Date, if any	Wednesday, December 18, 2024
Proposals Due	Monday, January 6, 2025 at 2PM PT
Agreement Award Date	Wednesday, February 19, 2025

PRIOR RELEVANT BOARD ACTION(S)

08/21/2024 M24-84 Direct staff to develop a Request for Proposals (RFP) for an audiovisual contractor to replace the audiovisual systems in the Boardroom, to include the direct view LED (dvLED) video wall option, and in the C2 and C3 conference rooms.

01/17/2024 R24-1-8 Authorize issuance of Agreement with Western Audio Visual & Security in an amount not to exceed \$14,000 to develop audiovisual specifications for the Boardroom, C2 and C3 conference rooms.

01/18/2012 M12-15 Authorize issuance of a Change Order to Integrated Media Systems, Inc. for an increase to Purchase Order in the amount of \$74,445 for additional equipment and services required in the Boardroom and Conference Rooms upgrade.

09/21/2011 R11-9-145 Authorize issuance of a Purchase Order to Integrated Media Systems for an amount not to exceed \$466,177 for the purchase, configuration, installation, and commissioning of equipment and services to replace the District's existing audiovisual systems in the Boardroom and C2 and C3 Conference Rooms

03/16/2011 M11-51 Authorize issuance of an RFP for Boardroom and Conference Room Audiovisual contractor

09/16/1998 R98-9-146 Authorize Purchase Order to JOS Projection Systems for Boardroom Audiovisual System Improvements

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

Budgeted: Yes

To: Administration/Finance Issues Cte.
Board of Directors

Budgeted Amount: \$80,000 (Year 1)

Cost Estimate: \$80,000 (Year 1)

Funding Source: General Fund

From: John Kennedy

Program/ Line Item No. 1080.53015

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

Staff Contact: L. Haney/S. Parsons

CEQA Compliance: N/A

**Subject: AWARD OF SERVICES AGREEMENTS FOR ON-CALL WEED
ABATEMENT AND TRAIL MAINTENANCE SERVICES**

SUMMARY

On-call weed abatement and trail maintenance services are required for Prado Basin and the groundwater recharge facilities in Orange County. A Request for Qualifications that combines the scope of work for all sites was advertised. Staff has evaluated the proposals and recommends award of the work to Habitat West and the Santa Ana Watershed Association.

Attachments:

Habitat West Proposal dated October 15, 2024

Santa Ana Watershed Association Proposal dated October 16, 2024

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Authorize issuance of Agreements to Habitat West and the Santa Ana Watershed Association for a three (3) year term with an option to extend for an additional one (1) year with General Manager approval for a total amount not to exceed \$344,810 for on-call weed abatement and trail maintenance services at OCWD facilities within Orange County and at Prado Wetlands in Corona.

BACKGROUND/ANALYSIS

The District's Natural Resources group requires on-call weed abatement and trail maintenance services for Prado Basin, the Prado Wetlands Interpretive Garden, the mitigation sites at the Orange County recharge facilities, and the Burris Basin Island. On an as-needed basis, the contractor would perform trail maintenance services to facilitate access into the Prado Basin for District biologist and perform weed abatement services at other OCWD facilities as directed by OCWD staff.

On September 19, 2024, the District released a Request for Qualifications (RFQ) for Weed Abatement and Trail Maintenance Services. The RFQ was advertised on the District's website and sent to a list of landscape maintenance services firms. The District received five (5) Statement of Qualifications (SOQs) from Habitat West, Santa Ana

Watershed Association (SAWA), Chambers Group, Central Sierra Enterprise, and Steelclad Incorporated. The SOQ submitted by Steelclad Incorporated was incomplete and was determined to be non-responsive; the other four SOQs were responsive as they met the RFQ submittal requirements. SOQs were evaluated by a selection committee consisting of three District staff and were 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 evaluations, Habitat West and SAWA were ranked as the highest firms that demonstrated the most relevant experience and understanding of the scope of services required within the RFQ, and both provide the best overall value for services. Habitat West and SAWA both demonstrated extensive knowledge of the Prado Basin habitat and the sensitive species within the basin. The experience of Central Sierra Enterprises was focused on more montane forest instead of riparian forest, and their location did not lend itself to easy on-call access. Chambers Group's area of expertise was in implementing restoration work and conducting biological monitoring, which was outside of the scope of service. Due to these factors, both Central Sierra Enterprises and Chambers Group were ranked lower than Habitat West and SAWA.

Rank	Firm	Laborer Hourly Rate	Foreman Hourly Rate	Supervisor Hourly Rate	Superintendent Hourly Rate
1	Habitat West	\$38.10	\$56.10	\$64.00	\$79.10
2	Santa Ana Watershed Association (SAWA)	\$53.05 - \$60.68	\$69.36 - \$78.86	\$98.44 - \$135.25	\$164.06
3	Chambers Group	\$58.00	\$88.00	\$125.00	\$166.00
4	Central Sierra Enterprise	\$70.00	\$104.00	\$109.00	\$124.00
DQ	Steelclad Incorporated	Nonresponsive			

Staff recommends award of Service Agreements to both Habitat West and SAWA for on-call weed abatement and trail maintenance services at OCWD facilities within Orange County and at Prado Wetlands in Corona. for an amount of \$80,000 per year plus a 5% inflation rate for each subsequent year after year one, for a total not to exceed amount of \$344,810 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.

	Cost (5% inflation rate per year)	Cumulative Cost
Year 1	\$80,000	\$80,000
Year 2	\$84,000	\$164,000
Year 3	\$88,200	\$252,200
Year 4	\$92,610	\$344,810

Total	\$344,810
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PRIOR RELEVANT BOARD ACTION(S)

9/18/24, R 24-92, Authorize issuance of Request for Qualifications (RFQ) for on-call weed abatement and trail maintenance services at Prado Basin and other District facilities.

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

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 Approved: N/A

CEQA Compliance: N/A

Subject: STATEMENT OF INVESTMENT POLICY FISCAL YEAR 2024-25

SUMMARY

The Investment Policy was last adopted by the Board in November 2023. The District reviews its Investment Policy annually to ensure we are following California Government Code statutes regulating the investment of public funds. Our current Investment Policy complies with the California Government Code. After a discussion with our financial consultant, Public Financial Management, Inc. (PFM), regarding the District's Investment Policy, staff recommends no changes to our current investment policy.

Attachments: OCWD Statement of Investment Policy 2024-2025

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Adopt the Statement of Investment Policy for Fiscal Year 2024-2025.

BACKGROUND/ANALYSIS

The Statement of Investment Policy must be reviewed and adopted annually, and any proposed changes must be approved by the Board. Staff requested our financial consultant, PFM, to review the current Statement of Investment Policy. Based on that review, staff recommends no changes to our current investment policy.

PRIOR RELEVANT BOARD ACTION(S) - Annual

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

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: PRODUCERS WELL CONSTRUCTION LOAN PROGRAM

SUMMARY

At the July and September Administrative and Finance Issues Committee Meetings, staff presented a possible Producer Well Construction Loan Program. Board direction was received to proceed with Producer discussions, implement a Loan Program and have legal counsel develop an Agreement. Staff is providing a draft template Agreement for review.

Attachments:

- Draft Agreement for the Producers Well Construction Loan Program
- Well Construction Program Resolution

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Approve the Producers Well Construction Loan Program draft template Agreement.

BACKGROUND/ANALYSIS

As described in the July and September Committee submittals, the 19 Groundwater Producers comprise 13 cities, 5 retail water districts, and one investor owned water utility. Each Producer operates a unique retail water utility system that has evolved over the decades depending upon the management priorities. Some Producers have constructed enough wells over the years to provide sufficient pumping capacity to pump 100 percent of their water demands. Other Producers have not made those types of investments. They can at times struggle to pump up to the current 85 percent Basin Production Percentage (BPP), especially if they have a well experiencing any operational or water quality issues.

It has been a fundamental management goal of the District that each Groundwater Producer can pump up to the BPP wherever it is established. This goal is part of the District's overall management philosophy that all Producers should be treated the same with equal access to the groundwater basin. The District charges the same

Replenishment Assessment (RA) to each Producer and each Producer currently has the same BPP. Under this philosophy, each Producer has the same water supply cost and water reliability, and no Producer feels they are operating at a disadvantage to others within OCWD. To always achieve the BPP goal, Producers need excess pumping capacity for years when a well or wells may require maintenance or be turned off due to a water quality issue. Additionally, it is generally good for Producers to have the ability to pump 100% of their water needs.

Maximizing and ensuring groundwater pumping is relatively stable benefits the District by ensuring RA revenues are predictable and steady. Additionally, excess groundwater production capacity can be utilized in different District basin management programs.

Priority in this loan program would be given to new well construction that gives the Producer the ability to reach a 100% BPP. Each application would come to the Board for consideration. At this time, staff is evaluating written requests from Seal Beach, Newport Beach, Serrano Water District and Huntington Beach.

Staff recommends approving the Producers Well Construction Loan Program draft template Agreement. The next steps involve having the Producers mentioned above complete the criteria checklist in the Agreement as well as reviewing the Agreement draft language.

PRIOR RELEVANT BOARD ACTION(S)

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.

**RESOLUTION NO.
RESOLUTION OF THE BOARD OF DIRECTORS OF THE ORANGE COUNTY
WATER DISTRICT (OCWD) AUTHORIZING CREATION OF A WELL
CONSTRUCTION LOAN PROGRAM, APPROVING A TEMPLATE APPLICATION
AND AGREEMENT FOR THE PROGRAM, AND APPROVING CRITERIA FOR OCWD
STAFF TO USE WHEN DETERMINING WHICH PROJECTS BEST FURTHER THE
INTERESTS OF THE DISTRICT**

WHEREAS, in September 2024, the OCWD Board directed OCWD staff and counsel to develop a proposed loan construction program (the “Program”) wherein OCWD would make low interest loans to eligible Producers to assist those Producers with the cost of generating new pumping capacity—thereby helping more Producers to pump up to the Basin Production Percentage (BPP); and

WHEREAS, the OCWD Board directed staff and counsel to propose criteria for selecting which proposed well construction projects best further the interests of OCWD in the event of insufficient funds.

THEREFORE, BE IT RESOLVED BY THE Board of Directors of OCWD as follows:

1. The Program, as described in the Agenda Submittal for the Program enclosed herewith, is authorized and approved, and OCWD staff is hereby authorized to seek applications for the Program from Producers.
2. The Board hereby approves the template agreement for the Program, which is enclosed herewith, as well as the selection criteria for the Program, which are listed in Exhibit A to the template agreement, with the understanding that the Board reserves the right to modify the selection criteria, and/or deviate from them, when the Board determines that such modification or deviation is in the best interests of the District.
3. The Board hereby approves the form of application enclosed herewith in Exhibit A to the template agreement, and authorizes OCWD staff to tailor such application as may be needed to ensure that the District has sufficient information to process applications in a manner that assists Producers with their groundwater production requirements while protecting the interests of the District.
4. Staff is directed, once proposed selections to the Program have been made by staff utilizing the criteria approved herein, to bring individual loan agreements with each Producer back to the Board for approval prior to executing such loan agreements.

CERTIFICATION

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Board of Directors of the Orange County Water District held on November 20, 2024.

AGENDA ITEM SUBMITTAL

Meeting Date: November 14, 2024

Budgeted: N/A

To: Administration/Finance Issues Cte.
Board of Directors

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

From: John Kennedy

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 FIRST QUARTER FY 2024–25

SUMMARY

Attached is a copy of the Budget to Actual Report for the first quarter year-to-date fiscal year 2024-25. General Fund operations expenditure is ~~\$900~~ \$340 thousand less than the revised year-to-date budget. Debt Service expenditures are \$500 thousand under budget. Replacement & Refurbishments are \$4.2 million under budget and Water Purchases are \$950 thousand 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

RECOMMENDATION

RECOMMENDED BY COMMITTEE

Agendize for November 20 Board meeting: Receive and file the Budget to Actual Report for First Quarter of Fiscal Year 2024-25 ending September 30, 2024.

BACKGROUND/ANALYSIS

Attachment A provides an overall summary of the District's various operating costs for the first quarter 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.

General Fund

General Fund costs are ~~\$900~~ \$340 thousand under budget due to lower than planned expenses in Forebay Operations, Lab, and R&D departments, that is offset with more than planned expenses in the Water Production department. 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.

Replacement & Refurbishment

The Santiago Floating Pump Station project, the Orange Store Drain at Bond Basin project and the Anaheim Valve vault R&R projects of \$2.2 million have not yet begun in the first 3 months of the year. In addition, the Replacement of MF membranes project and the Replacement of RO CIP PVC Piping System are lower than the first quarter budget by \$440 thousand and \$375 thousand, respectively.

PRIOR RELEVANT BOARD ACTION(S): Quarterly

AGENDA ITEM SUBMITTAL

Meeting Date: November 20, 2024

To: Board of Directors

From: John Kennedy

Staff Contact: C. Olsen

Budgeted: N/A

Budgeted Amount: NA

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No.: NA

General Counsel Approval: N/A

Engineers/Feasibility Report: NA

CEQA Compliance: NA

Subject: DRAFT LOCAL AGENCY FORMATION COMMISSION OF ORANGE COUNTY FEASIBILITY STUDY ON THE CONSOLIDATION OF THE ORANGE COUNTY WATER DISTRICT AND THE MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

SUMMARY

In June 2022, the Orange County Grand Jury released a report recommending the consolidation of the District with the Municipal Water District of Orange County (MWDOC). In October 2022 the District requested the Local Agency Formation Commission of Orange County (LAFCO) to study this issue in detail and to provide an informational report. A draft of the LAFCO report was released to the public on November 15, 2024 and comments have been requested within 45 days. Staff is still reviewing the report but will provide a general summary of its findings to the Board.

Attachment: Draft LAFCO Feasibility Report

RECOMMENDATION

Informational

DISCUSSION

In June 2022, the Orange County Grand Jury released a report recommending the District and MWDOC consolidate into one wholesale agency to best meet the needs of the Orange County water community. The report states that “all sources of water are interconnected and would be best administered by one governmental entity”. The Grand Jury came to this conclusion after reviewing the operations of the District and MWDOC and meeting with numerous Orange County water officials.

This issue is periodically discussed in Orange County as there are several advantages which include: better coordination in providing imported water and local groundwater, greater accountability and less public confusion with two wholesale water agencies, cost savings, avoidance of conflicts, improved lobbying efforts with state and local officials, and speaking with one voice for Orange County water issues.

Because there are different opinions in the water community on the extent of the advantages of consolidation and the ease at which it could occur, the District requested LAFCO to provide a detailed study on the subject. LAFCO is an independent and neutral

third party that can provide an objective analysis to both boards. The draft report was released for comments on November 15, 2024, and is still being reviewed by staff. The report findings will be presented at the November 20, 2024 Board meeting.

Staff will prepare a formal response to the LAFCO report for Board review in December and potentially a recommendation on moving forward.

PREVIOUS BOARD ACTIONS

4/5/23, Recommended the LAFCO Commission move forward with hiring a consultant to prepare the consolidation feasibility study and for OCWD to transfer \$300,000 to LAFCO to fund the study

3/11/23, Invited MWDOC to participate in the LAFCO study

1/4/23, Directed staff to schedule a Board study session and to request a joint Board meeting with MWDOC and deferred action on the Deal Points

12/21/22, Deferred action on Deal Points for an agreement with MWDOC in lieu of consolidating to the January 4, 2023 Board meeting.

8/17/22, M22-83 – Directed staff to submit a formal response to the Grand Jury report and to report back in 60 to 90 days.

7/6/22, M22-67 – Directed staff to prepare a response to the Grand Jury and to reach out to stakeholders to get their input



MUNICIPAL SERVICE REVIEW

Orange County Water District

Public Review Draft

MSR | SOI
23-06 | 23-06

PUBLIC REVIEW DRAFT

**Municipal Service Review and Sphere of Influence
Update for the Orange County Water District
Including a Feasibility Analysis of the Potential
Consolidation of Orange County Water District and
Municipal Water District of Orange County**

Prepared for

LOCAL AGENCY FORMATION COMMISSION OF ORANGE COUNTY

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November 15, 2024

Acknowledgement

Orange County LAFCO and the consultants acknowledge the time and effort of the staff of Orange County Water District and Municipal Water District of Orange County in the preparation of this report.

*Photo Cover:
From left to right, Anaheim Lake,
Microfiltration Facility, and Prado Wetlands
from Orange County Water District*

Table of Contents

ACRONYMS AND ABBREVIATIONS	5
EXECUTIVE SUMMARY	7
Municipal Service Review & Sphere of Influence Update	7
Consolidation Feasibility Study	11
CHAPTER ONE INTRODUCTION	12
1.0 History and Mission of Local Agency Formation Commissions	12
1.1 Authority and Powers	12
Regulatory Authority	13
Planning Authority	14
1.2 Local Agency Formation Commission of Orange County	15
Commission Composition	16
Commission Meeting and Contact Information	17
CHAPTER TWO AGENCY OVERVIEW	18
2.0 Purpose of Municipal Service Review	18
2.1 Agency Overview	19
CHAPTER THREE OCWD MUNICIPAL SERVICE REVIEW	26
3.0 MSR History for OCWD	26
3.1 Growth and Population Projections	28
3.2 Disadvantaged Unincorporated Communities (DUC)	36
3.3 Capacity and Adequacy of Public Facilities and Services	40
Infrastructure Needs or Deficiencies in any DUCs	53
3.4 Financial Ability to Provide Services	54
Debt Administration	58
Reserves and Fund Balances.....	59
3.5 Status of, and Opportunities for, Shared Facilities	62
Opportunities for Shared Facilities.....	66
3.6 Accountability for Community Service Needs	68
Governmental Structure	68
Accessibility, Accountability, and Transparency	71
3.7 Other Matters Related to Efficient Service Delivery	73
MSR STATEMENT OF DETERMINATIONS	74

CHAPTER FOUR OCWD SPHERE OF INFLUENCE REVIEW	83
4.0 Sphere of Influence History	83
4.1 Present and Planned Land Uses	84
4.2 Present and Probable Need for Facilities and Services	92
4.3 Present Capacity and Adequacy of Facilities and Services	96
Water Rights and Entitlements	96
Present Capacity	97
Adequacy of Facilities and Services	97
4.4 Social or Economic Communities of Interest	98
Unincorporated County.....	98
DUCs	98
Mutual Water Companies	98
4.5 Present and Probable Need for Services to DUCs	100
SOI STATEMENT OF DETERMINATIONS	102
CHAPTER FIVE CONSOLIDATION FEASIBILITY STUDY	108
5.1 Background	108
5.2 Scope of Work	111
5.3 Fiscal Sustainability of Consolidation	112
Budget Comparison and Analysis.....	112
Opportunities for Cost-Savings Upon Consolidation	116
Retirement Plans.....	124
Other Post-Employment Benefits	127
Revenues	127
Infrastructure	129
Programs, Contracts, and Agreements.....	129
Statement of Net Position.....	130
Impacts to Water Supply Reliability	134
5.4 Other Opportunities of Consolidation	135
5.5 Statutory and Relevant Case Authority Evaluation Involving Potential Consolidation	137
5.6 Plan For Service	144
5.7 Findings	145
REFERENCES	148

APPENDIX A.....151
APPENDIX B.....152
APPENDIX C.....153

Appendix

- A MWDOC and OCWD Budget Line Item Explanations
- B Successor Agency Budget Explanation of Line Item Savings
- C Existing Projects, Programs, and Contracts of MWDOC and OCWD

Tables

Table 1: Orange County LAFCO Commission Roster (as of November 2024)..... 16
 Table 2: Agency Profile24
 Table 3: County and District Growth Projections, 2019-205029
 Table 4: Groundwater Pumping, 2013-202530
 Table 5: OCWD Assets and Capacity44
 Table 6: OCWD 4-Year Reserve Fund Balances60
 Table 7: Description and Status of OCWD Agreements.....63
 Table 8: Land Use Authorities in OCWD Sphere of Influence.....84
 Table 9: Land Use Types within OCWD Sphere of Influence but Outside of Service Area86
 Table 10: Land Use Types within OCWD Service Area88
 Table 11: Mapped Farmland Categories in OCWD Sphere of Influence.....89
 Table 12: Mutual Water Companies in OCWD Sphere of Influence.....99
 Table 13: Three-Year Average of Adopted Budget Expenses for OCWD and MWDOC.....112
 Table 14: Summary of Potentially Redundant Employee Positions.....117
 Table 15: Estimated Results of Consolidation Excluding Retirement Expenses.....119
 Table 16: Employee Benefits for Successor Agency Budget Comparison and Proforma with Defined Benefit Plan (CalPERS).....125
 Table 17: CalPERS Termination Liability Summary126
 Table 18: Employee Benefits for Successor Agency Budget Comparison and Proforma with Defined Contribution Plan (401(k))127
 Table 19: Projected Average Annual Revenues of Successor Agency – Estimated from Three Year Average Revenues128
 Table 20: Projected Statement of Net Position based on FY 2022-2023 Final Audited Financials.....130

Figures

Figure 1 – Orange County Groundwater Basin.....	20
Figure 2 – OCWD Service Area	22
Figure 3 – OCWD Directorial Divisions	25
Figure 4– Disadvantaged Unincorporated Communities	38
Figure 5– Areas of Seawater Intrusion	41
Figure 6– Areas Showing Land Movement Potential.....	43
Figure 7– Farmland in OCWD Sphere of Influence.....	91
Figure 8 – MWDOC Sphere of Influence	109
Figure 9 – MWDOC and OCWD Sphere of Influence	110

Exhibits

Exhibit 1	75
Exhibit 2	103

Charts

Chart 1 – OCWD Imported Water Purchases, 1949-2023 (acre-feet).....	31
Chart 2 – OCWD Assigned and Actual Basin Pumping Percentage, WY 2001-2023	34
Chart 3– OCWD Water Demands and Projections, WY 2001-2050.....	35
Chart 4 – OCWD Basin Overdraft, WY 1980-2023	47
Chart 5 – Groundwater Pumping and Replenishment Assessment Since 1989	49
Chart 6 – OCWD Projected Water Budget for WY 22-23	52
Chart 7 – OCWD Actual Water Budget for WY 22-23	52
Chart 8 – OCWD 5-year Budget Totals (\$ millions)	55
Chart 9 – OCWD Revenue Sources FY 2023-2024	56
Chart 10 – OCWD Expenditures FY 2023-24	57
Chart 11 – Construction Cost Index, Jan. 2014 – Jan. 2024	93

Acronyms and Abbreviations

Acronyms

AB	Assembly Bill
ACWA	Association of California Water Agencies
AF	acre-feet
AFY	acre-feet per year
BEA	Basin Equity Assessment
BPP	Basin Production Percentage
CCR	Consumer Confidence Reports
CDR	Center for Demographic Research at California State University, Fullerton
CKH Act	Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000
CSDA	California Special Districts Association
CWP	California Water Plan
CY	Calendar Year
DUC	Disadvantaged Unincorporated Community
DWR	California Department of Water Resources
EPA	U.S. Environmental Protection Agency
FIRO	Forecast-Informed Reservoir Operations
FY	Fiscal Year
GAP	Green Acres Project
Gov. Code	Government Code
GMP	Groundwater Management Plan
Groundwater Basin	Orange County (OC) Groundwater Basin
GSA	Groundwater Sustainability Agency
GWRS	Groundwater Replenishment System
IRWD	Irvine Ranch Water District
JPA	Joint Powers Authority
LAFCO	Local Agency Formation Commission
MCL	maximum contaminant level
MGD	million gallons per day
MSR	Municipal Service Review
MWD	The Metropolitan Water District of Southern California
MWDOC	Municipal Water District of Orange County
O&M	Operation and maintenance
OCBC	Orange County Business Council
OC LAFCO	Local Agency Formation Commission of Orange County
OC San	Orange County Sanitation District
OCWA	Orange County Water Association
OCWD Act	Orange County Water District Act
OCWD	Orange County Water District

Acronyms

OPEB	Other Post-Employment Benefits
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctanesulfonic Acid
ppt	parts per trillion
RA	Replenishment Assessment
RWQCB	Regional Water Quality Control Board – Santa Ana Region
SAR	Santa Ana River
SAWPA	Santa Ana Watershed Project Authority
SB	Senate Bill
SGMA	Sustainable Groundwater Management Act of 2014
SOI	Sphere of Influence
SWP	State Water Project
USACE	U.S. Army Corps of Engineers
UWMP	Urban Water Management Plan
WACO	Water Advisory Committee of Orange County
WEBB MF	Webb Municipal Finance
WEROC	Water Emergency Response Organization of Orange County
WRD	Water Replenishment District of Southern California
WY	Water Year

Executive Summary

Municipal Service Review & Sphere of Influence Update

On October 4, 2022, Orange County Water District (OCWD or “District”) submitted an application with the Local Agency Formation Commission of Orange County (OC LAFCO) to prepare a Comprehensive Municipal Service Review (MSR) and Sphere of Influence (SOI) update. The MSR is located in Chapter 3 and the SOI is located in Chapter 4, herein. The application from OCWD included a request for a feasibility analysis of the potential consolidation of OCWD and the Municipal Water District of Orange County (MWDOC). The Consolidation Feasibility Study is located in Chapter 5.

OCWD was created by a special act of the state legislature in 1933 (the “OCWD Act”) to manage the Orange County (OC) Groundwater Basin (“Basin”). OCWD is governed by a 10-member Board of Directors representing the District’s 10 Divisions. The District’s boundary is limited by the Basin and includes the Orange County portion of the Santa Ana River Watershed. The OCWD Act limits the District from providing water outside of the Basin unless it is for the purpose of managing the Basin (OCWD Act, Section 2). The Basin is not adjudicated so there is no court judgment that stipulates how water rights are allocated and how management should occur. The OCWD Act gives legal authority to the District’s Board of Directors to fulfill its charge by working cooperatively with groundwater producers (pumpers), conducting extensive groundwater elevation and water quality monitoring, constructing and expanding recharge facilities, procuring recharge water supplies, and setting the annual percentage of total water demands that each groundwater producer can extract without triggering an additional assessment (“Basin Equity Assessment ,” or BEA), among other efforts. OCWD manages the Basin and does not supply water directly to retail customers. OCWD manages the Basin like a reservoir that holds approximately 500,000 acre-feet (AF) of water; however, it keeps the Basin less than 100 percent full in order to maintain storage space for flood events, minimize water loss to the Los Angeles County side of the basin, and to calculate the fee that each groundwater producer pays for each AF pumped (“Replenishment Assessment”).

The District’s sphere of influence (SOI) totals 569 square miles, of which 52 square miles extends into the Pacific Ocean and 125 square miles include unincorporated Orange County. OCWD’s Service Area encompasses 430 square miles of the SOI and includes retail water suppliers consisting of 13 cities and five water districts and one investor owned utility, which distribute water directly to their customers (collectively referred to as the “19 Groundwater Producers”), and small private well owners and mutual water companies within the Service Area. The boundaries of OCWD’s SOI and Service Area are not coterminous. A total of 18 incorporated Orange County cities are fully located

within the OCWD SOI and Service Area. These cities are Anaheim, Buena Park, Costa Mesa, Cypress, Fountain Valley, Garden Grove, Huntington Beach, La Palma, Los Alamitos, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster and Yorba Linda. Portions of the Cities of Irvine and Newport Beach are within both OCWD's SOI and Service Area. The Cities of Orange and Fullerton are fully within the SOI; however, a small area of Orange and Fullerton are not fully within the OCWD Service Area. Five incorporated Orange County cities are totally or partially within the SOI but outside of the OCWD Service Area: Aliso Viejo, Brea, Laguna Hills, Laguna Woods, and Lake Forest. The District has no facilities nor provides services outside of the District's Service Area.

Approximately 125 square miles of the SOI is unincorporated county (35 square miles of which is in the OCWD Service Area). A total of 11 disadvantaged unincorporated communities (DUCs) were identified within the OCWD SOI, specifically within Division 1. DUCs are census blocks with a median household income that is 80 percent or less than the statewide value that are also located in unincorporated county areas. Water service to customers within these areas is provided by the local retail water suppliers who obtain groundwater from OCWD. Four of the 11 DUCs are also within the City of Anaheim's SOI and collectively identified as the Southwest Anaheim DUC; two DUCs are in the City of Stanton's SOI and individually identified as Mac/Syracuse DUC and Dale/Augusta DUC; and five DUCs are in the City of Westminster's SOI that include the three in the Bolsa/Midway DUC, one in Bolsa/Pacific DUC, and one in Bolsa/McFadden DUC. The water suppliers include four mutual water companies, the Cities of Anaheim and Westminster, and Golden State Water Company.

This study identified nine mutual water companies within the SOI; four of which serve portions of the 11 DUCs located in Division 1. The other five mutual water companies are located elsewhere in the SOI including Knott's Berry Farm in Buena Park, the Los Alamitos Racetrack, Anaheim, Huntington Beach, and Fullerton. Mutual water companies are private not-for-profit organizations that are organized under California Corporations Code 14300, and regulated under the federal Safe Drinking Water Act, the California Water Code and Health and Safety Code, and the California Department of Public Health. They also report their boundaries to OC LAFCO. Although included in OCWD's Well Monitoring Program, mutual water companies are not often equipped to address water quality constraints and/or upgrade their infrastructure as quickly as larger, more well-funded water suppliers. Therefore, this study recommends OCWD offer technical assistance to mutual water companies upon their request for things like funding opportunities for system improvements, well monitoring or water testing.

OCWD conducts annual, independent financial audits and maintains AAA credit ratings with Fitch Ratings and Standard & Poors. The OCWD Fiscal Year 2023-2024 Budget was

adopted by the Board of Directors on April 19, 2023 with a total budget of \$279.2 million, which represents a decrease of 10.5 percent from the previous year. The majority of revenue (62 percent of revenues) comes from the Replenishment Assessment and the largest expenditure (36 percent of expenses) is attributed to 19 Capital Projects which are debt and PAYGO funded. OCWD has a defined contribution retirement plan, and the District's medical retirement plan is fully funded as of June 30, 2023. OCWD continues to meet the requirements of its reserve policy and total reserves are approximately \$308 million on June 30, 2023. The District has approximately \$870 million in outstanding debt as of July 1, 2023. Debt repayment is budgeted annually at approximately \$45 million. The District is able to meet all its budgeted expenses and obligations and maintain an AAA credit rating with Fitch and Standard and Poors. Replenishment Assessments can and do increase annually when necessary to help ensure revenues meet expense requirements. This flexibility along with its other revenue sources, budgeted reserves, and great credit ratings put OCWD in a stable financial position to continue providing current groundwater management services to its customers.

According to the 2020 Census, the OCWD Service Area contains approximately 2.44 million residents. The Center for Demographic Research's "Orange County Progress Report 2023" estimates the Service Area population to increase 4.5 percent over 25 years to approximately 2.55 million residents by 2045. Therefore, significant population growth is not expected in the Service Area. Between Water Years (WY) 2012-2013 and 2022-2023 groundwater pumping has decreased on average 1.5 percent each year.¹ This is likely the result of several influences including a prolonged drought from 2012-2016² that triggered significant conservation of groundwater and imported water, and new state guidelines established in 2019 and 2020 for certain PFAS contaminants resulting in decreased groundwater pumping. Total water demands within OCWD were at their lowest in 50 years at the end of WY 2022-2023, which is likely the result of reduced outdoor irrigation because of the above-average rainfall. However, groundwater pumping for WY 2023-2024 is projected to increase 14.2 percent over the one-year period from WY 2022-2023 and projected to increase gradually for the next 25 years, but still less than total water demands recorded in the early 2000s. To bolster its water supply for the Basin, OCWD has recently completed projects that will allow for additional capture of Santa Ana River water, and recently expanded the treatment capacity of its

¹ WY (Water Year) is defined as the 12-month period beginning October 1 through September 30 of the following year (e.g., WY 2023-2024 would be October 1, 2023 – September 30, 2024).

² According to the California Department of Water Resources' *Report to the Legislature on the 2012-2016 Drought* (March 13, 2021), "It unfolded in a context of record statewide temperatures, which exacerbated the impacts of water shortage, setting new markers for extreme conditions. The Sierra Nevada snowpack in 2015, for example, was the lowest on record. Based on statewide precipitation, 2012–2015 were the four driest consecutive years on record."

advanced recycled water treatment facility. Records indicate that recharge efforts by OCWD have been effective in replenishing the Basin water supply.

Water demands within the OCWD Service Area are expected to be met over the planning horizon of this MSR analysis including the future increase in population, given the following factors: (1) the District's collaboration with the Center for Demographic Research to proactively monitor demographic changes in the Service Area and in particular, population growth; (2) District projections accounting for future growth in each Groundwater Producer's service area; and (3) the District's demonstrated ability to meet greater water demands in the past as compared to current water demands.

The capacity of OCWD's infrastructure to manage the basin sufficiently was demonstrated in WY 2022-2023 when rainfall exceeded 158 percent of the long-term average. By the end of June 2022, more water was recharged than anticipated resulting in filling the Basin with an additional 69,000 AF, despite some losses to the ocean. Therefore, OCWD's capacity is commensurate with the population it currently serves. The District's planning efforts are demonstrated in the annual Comprehensive Financial Report, Annual Budget, and CIP by identifying the resources required to repair, replace, and expand facilities in order to meet its stated mission. In terms of supply capacity, the District has many water rights and entitlements to water supplies. OCWD will need to continue to budget for maintenance and expansions of capacity as infrastructure ages, regulations change, and collaboration opportunities arise.

The primary constraint on the ability of OCWD to provide its services is water quality. Specifically, per- and polyfluoroalkyl substances (PFAS), groundwater contamination plumes, and seawater intrusion causes wells to be turned off until additional actions are taken. In the meantime, alternative sources of water supply, primarily imported water are utilized. These constraints, however, do not diminish the District's ability or capacity to replenish the Basin adequately.

The District partners with many different entities on projects that benefit and further the goals of the OCWD Act. OCWD is also the largest buyer of imported water supplies from the local imported water wholesaler agency, MWDOC. The status of shared projects and facilities is well-documented to support the services provided by OCWD and referenced in this report. Partnership opportunities are expected for the future, which may include but are not limited to, a second emergency connection to South Orange County water agencies, addressing seawater intrusion at the "Sunset Gap" and/or "Bolsa Gap," securing funding for the 19 Groundwater Producers to construct water treatment systems to address PFAS contamination in wells, and paying one-half of all PFAS treatment system operation and maintenance (O&M) costs. The opportunities for shared

facilities continue to evolve at a sufficient pace for the purpose of supporting the services provided by OCWD.

During the course of our review, three gaps were noted in the OCWD Service Area that are located within the City of Newport Beach (Figure 2). The total area not included in the Service Area is 31 acres and likely an inadvertent mapping error. The three gaps in the District's Service Area boundary are within the water service area of the City of Newport Beach. These gaps are fully within the SOI of OCWD, and the District has indicated no reason to not annex these gaps into their Service Area; however the District indicated that further research would need to be done prior to submitting an annexation application to OC LAFCO.

In conclusion, OCWD has always been able to meet the water demands of its Groundwater Producers, and it is expected the District would continue to do so in the future, accounting for population projections.

Consolidation Feasibility Study

In the October 4, 2022 application from OCWD to OC LAFCO for an updated MSR/SOI, OCWD requested preparation of a "Focused MSR" in response to the criticisms of the Grand Jury report to "dive deep" into the different issues that would need to be considered in consolidating the two agencies, OCWD and MWDOC. The consolidation feasibility study uses the adopted budgets of Fiscal Years 2021/2022, 2022/2023, and 2023/2024 from OCWD and MWDOC on which to estimate fiscal efficiencies upon consolidation. A Successor Agency is unknown, and pursuant to the CKH Act, the analysis assumed the Successor Agency would continue providing all services currently provided by each agency. In order to make a finding on fiscal sustainability of the Successor Agency, the study estimates the cost-savings of changes in staffing, board members, and two retirement plan options (defined benefit and defined contribution plans) for the Successor Agency, as well as a combined Statement of Net Position. In accordance with Gov. Code Section 56881(b)(1), LAFCO must make the determination that public service costs of a proposal are likely to be less than or substantially similar to costs under alternative means of providing services.

CHAPTER ONE | INTRODUCTION

1.0 History and Mission of Local Agency Formation Commissions

To improve regional planning and growth management as California’s population grew after the end of World War II, the California Legislature adopted in 1963 the Knox-Nisbet Act, which established a Local Agency Formation Commission (LAFCO) in each county. Subsequently in 1971, the Legislature expanded the responsibilities of each LAFCO to include the establishment of spheres of influence (SOI) – areas of planned growth – for all cities and special districts. Furthermore, in 2001 the Legislature enacted the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000 (CKH Act) that has improved the effectiveness of LAFCOs to fulfill their legislative mission. The CKH Act requires SOIs to be reviewed every five years and updated as conditions warrant and prepare Municipal Service Reviews (MSRs) to evaluate the adequacy of service relative to current and future community needs.

1.1 Authority and Powers

The California Legislature has bestowed its authority to regulate local government boundaries, including the power to create and dissolve local agencies and change their boundaries, to LAFCOs. No local government can unilaterally change its own boundary, nor can voters use an initiative or referendum to modify a boundary to bypass LAFCO consideration.

Local Agency Formation Commission of Orange County

OC LAFCO serves Orange County cities, special districts, and the county to ensure effective and efficient delivery of municipal services.

The CKH Act directs LAFCOs to achieve three primary goals:

1. Discourage urban sprawl.
2. Encourage orderly governmental boundaries.
3. Preserve open space³ and prime agricultural lands.⁴

³ “Open space” is defined in Gov. Code Sections 56059 and 56060, and Gov. Code Section 65560.

⁴ “Prime agricultural land” is defined in Gov. Code Section 56064.

Reviewing and approving (or denying) proposals to change boundaries is the method by which each LAFCO can regulate boundary changes. Adopting and revising SOIs is the method by which each LAFCO plans for the future.

Regulatory Authority

LAFCOs' regulatory authority resides in reviewing and approving or denying proposals to change the jurisdictional boundaries of cities and special districts.⁵ Specifically, these types of boundary changes are commonly referred to as "changes of organization" include:

- Annexations;
- Detachments;
- City incorporations and disincorporations;
- Special district formations and dissolutions;
- Mergers;
- Consolidations;⁶
- Creation of subsidiary districts;
- Reorganizations, which combine two or more of these changes of organization in one proposal; and
- Exercise of new or different functions or classes of services, or divestiture of the power to provide particular functions or classes of services, within all or part of the jurisdictional boundaries of a special district. (CKH Act, Sec. 56021)

Every change of organization (or reorganization) requires five, sometimes six, steps:

1. Initiation of proceedings;
2. LAFCO review and approval;
3. LAFCO conducts hearings and 30-day reconsideration period;
4. Protest proceedings;
5. City or county conducts election, if needed; and
6. Completion of proceedings and filing with the State.

Additionally, LAFCOs' regulatory authority includes overseeing the process for a city or special district to provide new or extended services by contract or agreement outside its jurisdictional boundaries only if the city or district first requests and receives written approval from the local LAFCO. In addition to the law under which they are governed,

⁵ LAFCOs do not regulate boundaries for counties and some local government agencies, including school districts, community facilities districts (Mello-Roos), and community college districts.

⁶ "Consolidation" is defined in Gov. Code Section 56030 as: the uniting or joining of two or more cities located in the same county into a single new successor city or two or more districts into a single new successor district.

many LAFCOs have established local policies and procedures to support the efficient and effective processing of these changes of organization.

Planning Authority

LAFCOs' planning authority is carried out through the establishment and updating of SOIs as well as the preparation of comprehensive MSRs that analyze service or services within a designated geographic area.

Spheres of Influence

SOIs are established to identify the probable physical boundaries and service area of a local agency. Any person or local government may request an amendment or change to a SOI. State law requires that all changes of organization be consistent with the SOI independently established by the Commission for each city and special district. The statute further requires SOIs to be reviewed every five years and updated as conditions warrant.

With each SOI that is established, amended, or updated, LAFCOs are required to consider and prepare a written statement of its determinations with respect to the following factors codified in Government Code Section 56425:

- (1) Present and planned land uses in the area, including agricultural and open-space lands.
- (2) Present and probable need for public facilities and services in the area.
- (3) Present capacity of public facilities and adequacy of public services that the agency provides or is authorized to provide.
- (4) Existence of any social or economic communities of interest in the area if the commission determines that they are relevant to the agency.
- (5) If a city or special district provides public facilities or services related to sewers, municipal and industrial water, or structural fire protection, the present and probable need for those facilities and services of any disadvantaged unincorporated communities within the existing sphere of influence.

Municipal Service Reviews

MSRs involve comprehensive reviews and regional studies on future growth and how local agencies are planning for their municipal services and infrastructure systems. These studies are prepared before or in conjunction with the establishment, review, or update of an SOI and are generally intended to inform in the areas of efficiency and

affordability of infrastructure and municipal service delivery and assist LAFCOs in the review and initiation of changes of organization.

In accordance with Gov. Code Section 56430, with each MSR that is prepared, LAFCOs are required to prepare a written statement of its determinations with respect to each of the following:

- (1) Growth and population projections for the affected area.
- (2) The location and characteristics of any disadvantaged unincorporated communities (DUCs) within or contiguous to the affected sphere of influence.
- (3) Present and planned capacity of public facilities, adequacy of public services, and infrastructure needs or deficiencies including needs or deficiencies related to sewers, municipal and industrial water, and structural fire protection in any disadvantaged, unincorporated communities within or contiguous to the affected sphere of influence.
- (4) Financial ability of agencies to provide services.
- (5) Status of, and opportunities for, shared facilities.
- (6) Accountability for community service needs, including governmental structure and operational efficiencies.
- (7) Any other matter related to effective or efficient service delivery, as required by commission policy.

1.2 Local Agency Formation Commission of Orange County

The Local Agency Formation Commission of Orange County (OC LAFCO) is authorized by the California Legislature to maintain orderly boundaries for the County's 34 cities and 34 independent and dependent special districts through SOIs and MSRs. Since its creation, the Commission has formed more than nine cities, approved several changes of organization and reorganization involving cities and special districts and encouraged orderly development through the establishment of agency SOIs and preparation of numerous studies. OC LAFCO has also provided proactive leadership on efficient government through its implementation of the CKH Act and its web-based resources. In addition to State law, the Commission's authority is guided through adopted local policies and procedures that assist in the implementation of the provisions of the CKH Act and consideration of the local conditions and circumstances of Orange County.

Commission Composition

OC LAFCO is comprised of 11 commission members, with seven serving as regular members and four serving as alternate members. LAFCO members, called *commissioners*, are a composite of three county supervisors appointed annually by the Board of Supervisors, three city council members appointed by the City Selection Committee (made up of the 34 city mayors), three independent special district members appointed by the Special District Selection Committee (made up of the Board Presidents of the 27 independent special districts), and two representatives of the general public appointed by the Commission. The OC LAFCO commissioners as of **November 2024** are shown in Table 1.

Table 1: Orange County LAFCO Commission Roster (as of November 2024)

Commissioner	Appointing Authority	Current Term
Donald P. Wagner, Chair <i>County Member</i>	Board of Supervisors	2022-2026
Wendy Bucknum, Vice Chair <i>City Member</i>	City Selection Committee	2024-2028
Douglass Davert, Immediate Past Chair <i>Special District Member</i>	Independent Special District Selection Committee	2022-2026
James Fisler <i>Special District Member</i>	Independent Special District Selection Committee	2024-2028
Derek J. McGregor <i>Public Member</i>	Commission	2022-2026
Bruce Whitaker <i>City Member</i>	City Selection Committee	2023-2026
Vacant <i>County Member</i>	Board of Supervisors	
Alternate Members		
Kathryn Freshley <i>Alternate Special District Member</i>	Independent Special District Selection Committee	2022-2026
Carol Moore <i>Alternate City Member</i>	City Selection Committee	2024-2028
Lou Penrose <i>Alternate Public Member</i>	Commission	2021-2025

Commissioner	Appointing Authority	Current Term
Vacant <i>Alternate County Member</i>	Board of Supervisors	
OC LAFCO Staff Carolyn Emery, <i>Executive Officer</i> Scott Smith, <i>Legal Counsel</i>		

In accordance with the CKH Act, while serving on the Commission, all commission members shall exercise their independent judgement on behalf of the interests of residents, property owners, and the public as a whole. All members serve four-year terms and there are no term limits.

Commission Meeting and Contact Information

The regular meetings of the Commission are held on the second Wednesday of the month at 8:15 a.m. The meetings are conducted in the Hall of Administration – Planning Commission Hearing Room located at County Administration North (CAN) First Floor Multipurpose Room 101, 400 W. Civic Center Drive, Santa Ana, 92701.

The OC LAFCO administrative offices are located at 2677 North Main Street, Suite 1050, in the City of Santa Ana, 92705. Commission staff may be reached by telephone at (714) 640-5100. The agency’s agendas, reports, and other resources are available online at www.oclafco.org.

CHAPTER TWO | AGENCY OVERVIEW

2.0 Purpose of Municipal Service Review

Pursuant to the CKH Act, OC LAFCO will conduct service reviews in conjunction with SOI updates on or before January 1, 2008, and every five years thereafter. OC LAFCO has completed three cycles of MSRs; the first round completed between 2005 and 2008, the second round completed between 2008 and 2013, and the third round completed between 2013 and 2018. The fourth cycle is currently ongoing and expected to be completed near 2025. An MSR for OCWD was last conducted in 2013. This MSR and SOI update is being conducted as part of the fourth cycle of updates.

On October 4, 2022, the District filed an application with OC LAFCO to prepare a study focused on the potential consolidation of OCWD and Municipal Water District Orange County (MWDOC). OCWD's application was submitted following a report prepared by the 2021-2022 Orange County Grand Jury entitled, *Water in Orange County Needs 'One Voice'* (June 22, 2022).

In light of OCWD's application, this MSR process includes a comprehensive review of OCWD in accordance with the state mandate and a feasibility analysis of the potential consolidation of OCWD and MWDOC. Notably, the most recent five-year cycle MSR for MWDOC was conducted and approved by the Commission in 2020. That MSR did not, however, include a discussion of potential consolidation of the agencies.

Therefore, this MSR report includes a comprehensive MSR update, an SOI update, and a feasibility study of consolidation of OCWD and MWDOC. Adoption of this MSR by the Commission does not trigger an action of governmental reorganization by OC LAFCO, OCWD, or MWDOC.

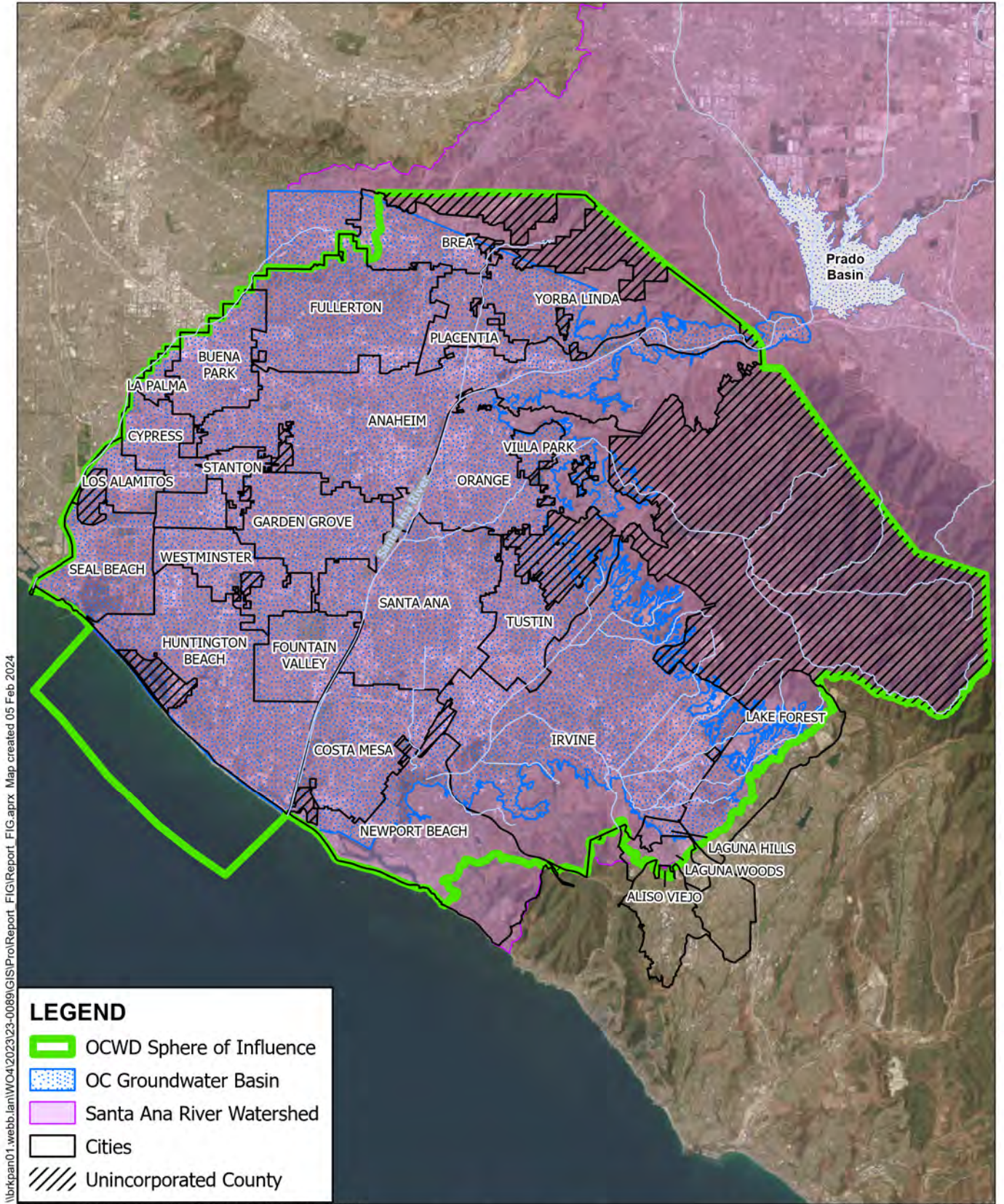
2.1 Agency Overview



OCWD was created in 1933 by a special act of the California Legislature (“OCWD Act”) that granted broad powers to protect the water supply of the Coastal Plain of Orange County Groundwater Basin (“OC Groundwater Basin” or “Basin”) (**Figure 1 – Orange County Groundwater Basin**). The California Department of Water Resources (DWR) identifies it as Basin No. 8-001. OCWD is charged with managing the Basin in order for the 19 retail water suppliers (“Groundwater Producers”) that have wells in the basin to serve approximately 2.44 million northern and central Orange County residents with a reliable and sustainable water supply. As of 2023, 85 percent of the annual water demand of the Groundwater Producers is supplied with water from the Basin.

The Basin is not adjudicated. Adjudicating a groundwater basin is a lengthy and expensive endeavor to have a court define each pumper’s water rights. The groundwater basins in the upper Santa Ana River Watershed along the river in San Bernardino and Riverside Counties were all adjudicated by 1970. However, the early leaders of OCWD (“Committee of Twelve”) collectively agreed in the 1950s, during a housing boom with wells drying up, that approaching the water rights as a group, instead of individuals would make it possible to manage and replenish the basin so that all had more water. In addition, these leaders concluded that “equitable financing for importing water to replenish the groundwater basin was the most practical solution to having adequate water for landholders and inhabitants alike” (OCWD 2014, pp. 24-25).

This common pool approach without adjudication continues today. Water surplus in wet years is shared the same as shortage in dry years. Every pumper has an equal right to pump as much water as can be beneficially used, but that each has the obligation to pay the costs of replacing what was extracted (OCWD 2014, p. 25).



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Source: OCWD, CDWR, GIS 2019; SAWPA, 2009.

Figure 1 – Orange County Groundwater Basin

OCWD Municipal Service Review



The Cities of Anaheim, Fullerton, and Santa Ana are pumpers in the Basin as well as independent member agencies of The Metropolitan Water District of Southern California (MWD), which provides imported water from the State Water Project

(Sacramento/San Joaquin Delta) and the Colorado River Aqueduct. The Cities of Anaheim and Santa Ana joined MWD when it formed in 1927 and Fullerton joined in 1931. By 1951, other cities desired to join MWD to access imported water. Because MWD had a policy that cities could join as geographic groups, the cities formed MWDOC. MWDOC acts as a water wholesaler and pass-through agency representing 27 of Orange County's water suppliers (except Anaheim, Santa Ana, and Fullerton) so that they have the ability to purchase MWD imported water and have representation on the MWD Board of Directors. OCWD is the largest purchaser of imported water from MWDOC.

OCWD is governed by the OCWD Act (Stats. 1933 c. 924, p. 2400). "Managing the basin" as mandated by the OCWD Act generally consists of groundwater monitoring, wastewater reclamation, monitoring surface flows of the Santa Ana River at and below Prado Dam, groundwater recharge projects and seawater barrier systems as well as supporting the 19 Groundwater Producers with funding for groundwater treatment systems, laboratory facilities for water testing, and advocacy at state and federal venues.

VALUES STATEMENT

OCWD's Board of Directors and staff are committed to serving the people of Orange County. Solid science and state-of-the-art technologies guide their decisions. OCWD is committed to sound planning and investment, high standards for water reliability, exceptional water quality, environmental stewardship, sound financial management, and transparency.

MISSION STATEMENT

OCWD's mission is to provide a reliable, high-quality water supply in a cost-effective and environmentally responsible manner.

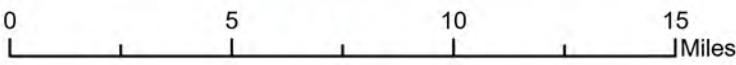
As of 2023, the OCWD sphere of influence (SOI) totals 569 square miles, or approximately 71 percent of the entire county. The District's Service Area is 430 square miles and includes 52 square miles of ocean, as shown on **Figure 2 – OCWD Service Area**.



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Source: OCWD GIS, Feb.15, 2024

Figure 2 - OCWD Service Area
 OCWD Municipal Service Review



As shown on Figure 2, three small gaps or holes in the Service Area that are located within the water service area of the City of Newport Beach have been identified. These are likely inadvertent mapping errors but further research would be needed. The northerly Service Area gap is partly street right-of-way and partly owned by The Irvine Company; the middle gap does not have an assigned parcel number; and the southerly gap touches on six different parcels, three of which are owned by City of Irvine, and three are owned by a property management group. OCWD has indicated that they have no reason not to include these areas into their official Service Area and recognizes further research would need to be done prior to submitting an annexation application to OC LAFCO.

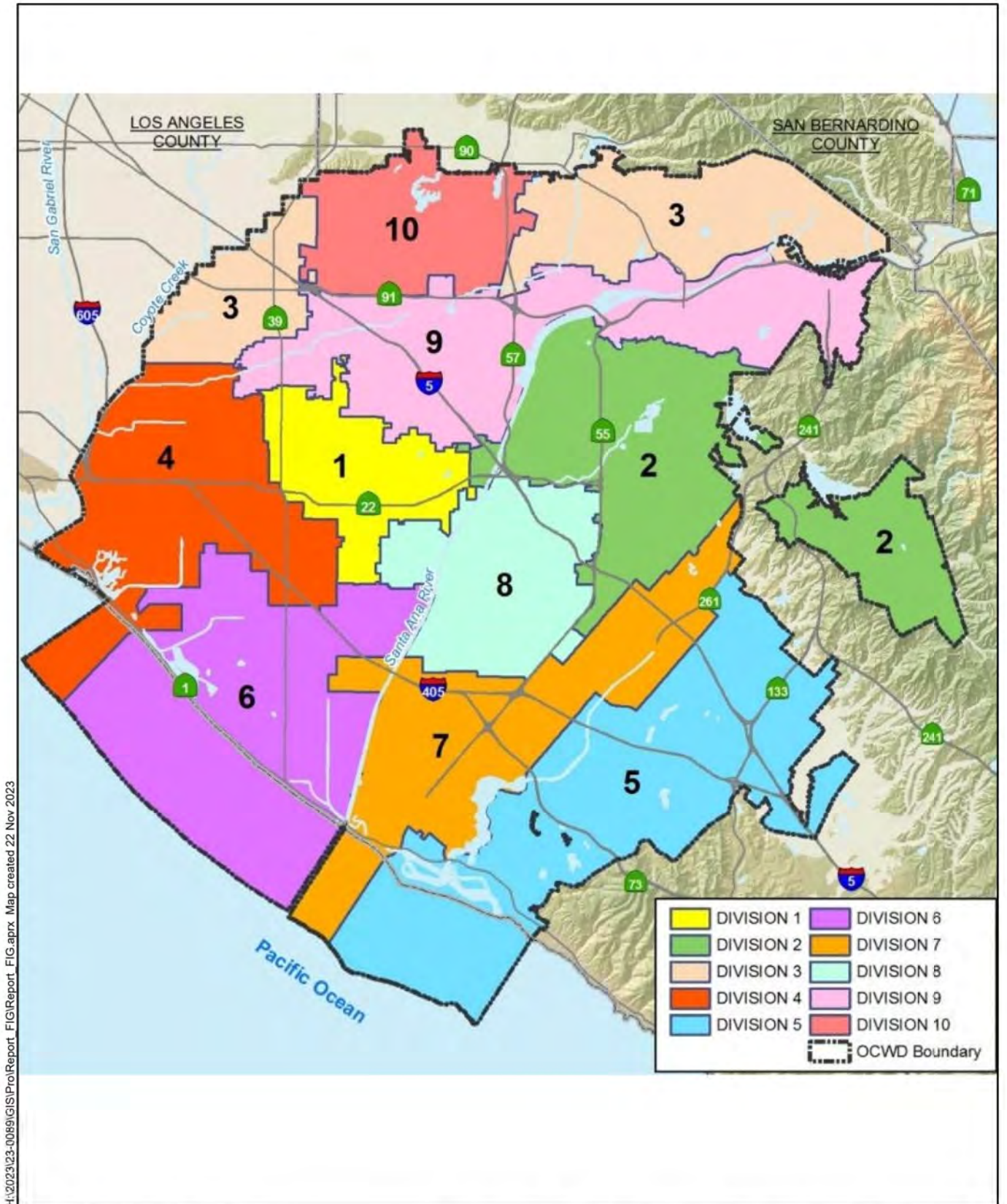
The OCWD Act established that the District boundary may not extend beyond the limits of the Santa Ana River Watershed and all areas within the OCWD must also be included within the service area of MWD.⁷ Governance is provided by a 10-member Board of Directors that represent the 10 Divisions of the District. The Cities of Anaheim, Fullerton, and Santa Ana each appoint one City Councilmember to the OCWD Board and the other seven Divisions are represented by elected individuals (**Figure 3 – OCWD Directorial Divisions**). All directors serve four-year terms. A summary profile of OCWD is provided in **Table 2 – Agency Profile** (next page).

⁷ The City of La Habra is technically within the Santa Ana River Watershed and the OC Groundwater Basin but is not in OCWD's sphere of influence. City of Brea is partly in the SOI. This is because La Habra and Brea's portion of the Basin is hydrologically separate from OCWD's portion and the Cities have managed it as such; specifically, OCWD's surface water recharge efforts do not replenish La Habra/Brea's part of the Basin and instead, groundwater flows from La Habra/Brea into the OCWD area. The Cities of La Habra and Brea have formed the City of La Habra Groundwater Sustainability Agency (GSA) and at one time requested to DWR for an internal jurisdictional boundary modification to remove the cities from the OC Basin and create a new groundwater basin, but DWR has not issued a decision.

Table 2: Agency Profile

District	Orange County Water District
Website	www.ocwd.com
Agency Type	Special District
Address	18700 Ward Street, Fountain Valley, CA 92708
Date Formed	1933
Employees (full-time)	226.5, as of July 1, 2023
Key Services	Provide potable and non-potable groundwater supply to 13 cities, five retail water agencies, and one investor-owned water utility (“19 Groundwater Producers”).
Service Area	
Member Agencies (“19 Groundwater Producers”)	Cities of Anaheim, Buena Park, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, La Palma, Newport Beach, Orange, Santa Ana, Seal Beach, Tustin, and Westminster East Orange County Water District, Golden State Water Company, Irvine Ranch Water District, Mesa Water District, Serrano Water District, and Yorba Linda Water District
Service Area	Land Portion: 378 square miles Ocean Portion: 52 square miles
Sphere of Influence	569 square miles
Land Uses	Residential, commercial, industrial, institutional, and open space
Population Served	2,387,383 persons, as of January 1, 2023 ^(a)
Last MSR Conducted	February 13, 2013
Governance	
Local Representation	Ten-member Board of Directors, with each director representing a Division and elected to a four-year term by voters within their Division, except for the Cities of Anaheim, Fullerton, and Santa Ana who appoint a City Councilperson to serve on the Board.
Board Compensation	Effective October 2023, Board members are compensated \$330.75 per meeting for up to ten meetings per month. Board members are eligible for medical, dental, vision, and life insurance benefits, and participation in 401(a) and 457 plans.
Board Meetings	Monthly on the 1 st and 3 rd Wednesday at 5:30 p.m. Meetings are held at the District office and open to the public.
Agency Contact	John Kennedy, P.E., General Manager

^(a) From Center for Demographic Research, California State University, Fullerton.



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Source: OCWD GWMP 2015 Figure 1-6

Figure 3 – OCWD Directorial Divisions

OCWD Municipal Service Review



Not to Scale

CHAPTER THREE | OCWD MUNICIPAL SERVICE REVIEW

3.0 MSR History for OCWD

OC LAFCO has prepared the following past studies and updates for OCWD.

- First Cycle of MSRs: September 2006
 - No significant issues were noted during this MSR for OCWD. The Service Area population was projected by the MSR to grow modestly over the next 20 years and does not appear to have negatively impacted the District's service capacity. The District's infrastructure was adequate to address future needs including increased water demand from infill development and annexation of new territory. The District had no identified financial constraints. The District collaborated and shared facilities for water resource management.
 - Six government structure options were discussed in the 2006 MSR: (1) maintain the status quo; (2) annexation of lands within Anaheim; (3) annexation of lands within Irvine Ranch Water District (IRWD); (4) annexation of lands within Yorba Linda Water District (YLWD); (5) reduce the SOI to exclude areas that are outside the MWD service area; and, (6) merge OCWD and MWDOC. The MSR acknowledged that a merger of OCWD and MWDOC had not been considered in the past due to the differing missions of the agencies and was "not considered feasible" for reasons including: "implementing it would take an act of legislation because it involves changing OCWD's principal act; a merging of these two agencies would not necessarily achieve great efficiencies in overall management of water resources in Orange County; and keeping these two agencies separate maintains an important check and balance system, preventing one agency from having control over water supply for the entire County." Because of the necessary review required into the potential annexation of the aforementioned areas into OCWD, the SOI update was delayed. Notably, the 2006 MSR did not include a feasibility study and the idea for merging OCWD and MWDOC was generated through a stakeholder group process.
 - SOI Update: May 14, 2008
 - A SOI update for OCWD was approved in 2008 resulting in several changes in the District's SOI. This was a continuance of the 2006 MSR. As a result, the SOI aligned closer to the Santa Ana River Watershed boundary in the southern part of the District. The Laguna

Coast Wilderness Park was removed from the SOI since it drains away from the OC Groundwater Basin and portions of El Toro Water District were also removed. The SOI was enlarged into the ocean and finally, portions of the City of Brea were added to the SOI because in the event surface water or groundwater began to flow into the OC Groundwater Basin from Brea and the City began pumping that water, then OCWD might want to annex Brea to protect water rights within the watershed and manage the OC Groundwater Basin more effectively.

- The areas included in this annexation proposal, however, were already wholly contained within OCWD's original 1977 SOI and were historically designated as "the probable physical boundaries and service area of" OCWD, according to Gov. Code Section 56076.
- Second Cycle of MSR: November 12, 2008
 - The Commission reconfirmed the MSR and SOI determinations of OCWD from the first cycle of MSRs.
- Third Cycle of MSR: February 13, 2013
 - The Commission reconfirmed the MSR and SOI determinations of OCWD from the second cycle of MSRs.
- On May 14, 2014, OC LAFCO approved the Anaheim/IRWD/YLWD annexations to OCWD (DA 13-13) that were initially contemplated in the September 2006 MSR. This annexation increased the Service Area by 23 square miles and increased the District boundary at that time by 7 percent. OCWD entered into Annexation Agreements with Anaheim/IRWD/YLWD pursuant to OCWD's annexation policy. Development of the Annexation Agreements was collaborative in a facilitated process with OCWD and the 19 Groundwater Producers. The goal of the Annexation Agreements is to balance the benefit of extending OCWD oversight and management to new territory within the OC Groundwater Basin with the potential financial impacts to other Producers. Several notable components of the Annexation Agreements are noted below:
 - Included within the agreement terms was a 10-year moratorium on any future annexations by Anaheim, IRWD, and YLWD beginning October 2013, which expired in October 2023.
 - YLWD and IRWD were both restricted to a BPP of 70 percent regardless of the rate set annually by OCWD; YLWD for 5 years and IRWD for 10 years. The IRWD restriction expired in October 2023.

- Anaheim and IRWD are required to send stipulated quantities of sewage flows to the Orange County Sanitation District (OC San) treatment facilities for the following periods: 50 years for Anaheim (2013-2063) and 20 years for IRWD (2013-2033).
- Payment by Anaheim, IRWD, and YLWD of the annual annexation charge to OCWD in the amounts of \$110,000/year, \$395,000/year, and \$290,000/year, respectively. These funds go to the OCWD general fund, water purchased for basin recharge, and programs to increase recharge.

3.1 Growth and Population Projections

OCWD is a Sponsor of the Center for Demographic Research (CDR) at California State University, Fullerton. Sponsors of CDR receive demographic data for their applicable geographic areas, which is especially important for entities like OCWD that do not fully align with city or county boundaries. Because OCWD does not have land use authority, it relies on the cities and county within its Service Area to provide CDR accurate, timely, and thorough data on growth projections. The demographic data provided herein comes from the CDR *2023 Orange County Progress Report*, the U.S. Census Bureau including American Community Survey and California Department of Finance. OC LAFCO is a Contributing Partner to CDR and uses their services for OC LAFCO MSR reports.

According to the 2020 Census, the OCWD Service Area includes approximately 2.44 million Orange County residents. Projections by CDR of population, housing, and employment within the OCWD existing Service Area are shown in Table 3. The Service Area population is projected to reach a high of approximately 2.55 million residents by 2045, which is an increase of approximately 4.5 percent from 2020.

Table 3: County and District Growth Projections, 2019-2050

		2019	2025	2030	2035	2040	2045	2050	Overall Change
Population	OCWD	2,441,587	2,468,968	2,505,669	2,529,630	2,545,747	2,550,830	2,544,170	+4.2% +102,583
	County	3,196,231	3,239,474	3,287,447	3,327,150	3,345,665	3,343,718	3,327,124	+4.1% +130,893
Households	OCWD	830,225	867,141	900,711	922,873	938,187	955,512	973,335	+17.2% +143,110
	County	1,124,849	1,176,165	1,220,390	1,252,783	1,271,438	1,290,931	1,311,738	+16.6% +186,889
Employment	OCWD	1,470,235	1,470,235	1,537,772	1,574,038	1,603,116	1,623,409	1,643,992	+11.8% +173,757
	County	1,805,476	1,843,470	1,897,773	1,941,915	1,976,791	1,997,885	2,018,954	+11.8% +213,478

Source: OCP-2022 (Center for Demographic Research, Cal State Fullerton)

The most recent OCWD Groundwater Management Plan is dated 2015. The District repurposed the plan in 2017 (and renamed as the “Basin 8-1 Alternative”) to comply with the Sustainable Groundwater Management Act of 2014 (SGMA). The projected population estimate used for the Groundwater Water Management Plan/Basin 8-1 Alternative is consistent with what is presented in Table 3, above and states, “Population within OCWD’s Service Area is expected to increase from approximately the current 2.38 million to 2.54 million by 2035...” (Basin 8-1 Alternative, p. 10-10).

The city with the highest population growth rate during 2022 within all of Orange County was the City of Brea (2.6 percent), followed by City of Placentia (2.3 percent) and City of Los Alamitos (2.0 percent) (OCP, p. 189). All three cities are within OCWD’s SOI and Placentia and Los Alamitos are also within the Service Area.

Since 2006 when the first cycle MSR report for OCWD was prepared, the District has not observed adverse effects of population growth on its ability to perform services. In fact, groundwater pumping has declined over this time period, as shown in Table 4, which is the result of several factors including water conservation efforts during droughts, and water quality constraints to pumping (e.g., PFAS contamination). Future groundwater pumping, however, is projected to increase, as shown in Table 4.

Table 4: Groundwater Pumping, 2013-2025

Fiscal Year Ending	Groundwater Pumped in OCWD (AF) ^(a)	Percentage Change in Groundwater Pumping from Prior Year
	Actual	
2013	309,295	-
2014	330,782	6.9%
2015	305,259	-7.7%
2016	277,090	-9.2%
2017	301,637	8.9%
2018 ^(b)	236,916	-21.5%
2019	303,496	28.1%
2020 ^(b)	277,195	-8.7%
2021	281,793	1.7%
2022	256,921	-8.8%
2023	245,210	-4.6%
Average Annual Percentage Change in Groundwater Pumping		-1.5%
Projected^(c)		
2024	280,000	14.2%
2025	292,000	4.3%

Source: Table 1: Historical Groundwater Production Within OCWD, *2021-2022 Engineer's Report*. Values exclude In-Lieu Program water, MWD Groundwater Storage Program extractions, and any groundwater used for the Talbert Barrier.

(a) For non-irrigation and irrigation uses, where irrigation is for agricultural, horticultural, or floricultural crops and for pasture grown for commercial purposes.

(b) In-Lieu Program water supplies were available and used to decrease groundwater pumping in FY 2017-2018 and FY 2019-2020.

(c) Source: Table 5: Water Demands Within OCWD, *2022-2023 Engineer's Report*. Projected assuming average hydrology. Includes BEA-exempt groundwater pumped pursuant to Section 38.1 of the OCWD Act. However, that volume is not included in calculations of a projected BPP.

AF = acre-feet.

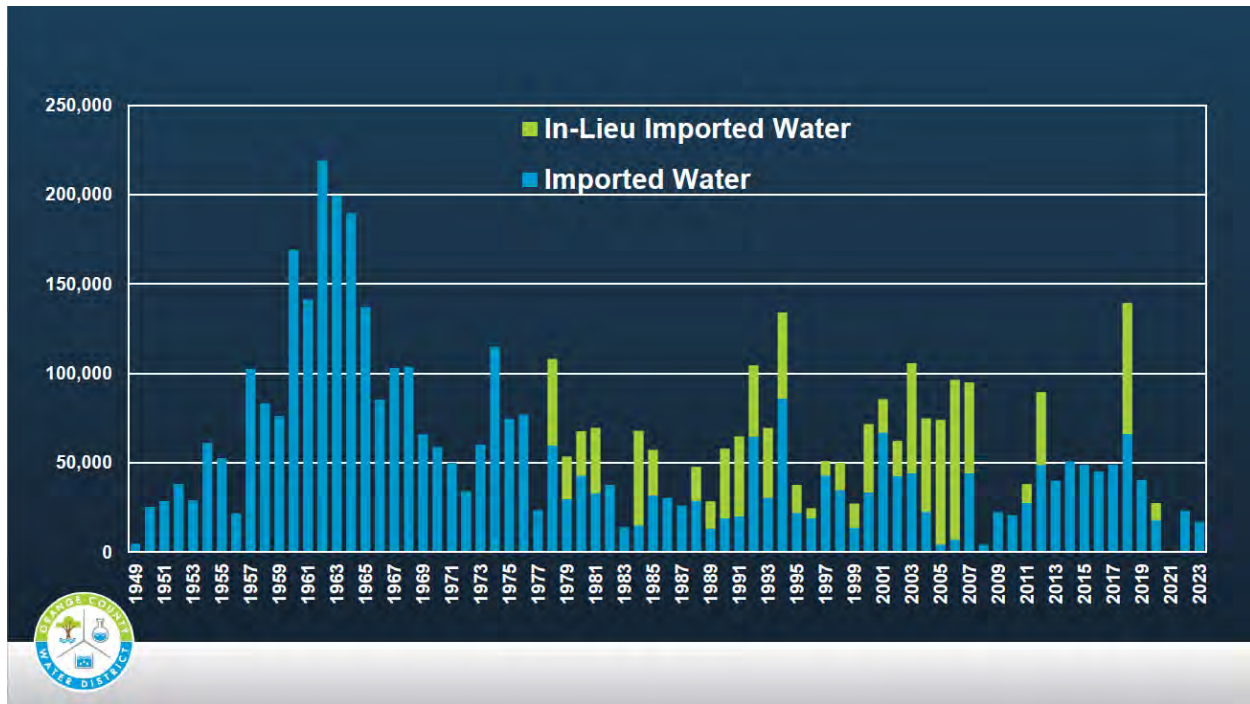
OCWD's In-Lieu Program brings additional treated imported water supplies via MWDOC (when they are available for purchase) for Producers to use. Producers are asked to turn off their wells and take imported treated water in lieu of pumping groundwater. OCWD will pay the 19 Groundwater Producers the incremental additional cost of taking imported water versus groundwater to make the cost of this water equivalent to groundwater (2015 OCWD Groundwater Management Plan (GMP), p. 5-11). This supply source is not available consistently, as noted in Table 4 (i.e., available in FY 2017-2018 and FY 2019-2020).

The source of water for the In-Lieu Program is different than supplemental replenishment water available for purchase from MWD via MWDOC. There are several types of water available from MWD: treated (potable) or untreated (non-potable), and uninterrupted or

interruptible. Interruptible water can be shut-off, hence why it is cheaper than uninterruptible water which is not subject to being shut-off. Uninterruptible treated or untreated water is also known as “full-service” water that can be used for domestic and municipal uses and OCWD uses it for groundwater recharge. Interruptible in-lieu water from MWD is generally no longer available unless it is provided under the terms of a Cyclic Program agreement.⁸

MWDOC charges an annual capacity charge from OCWD (in addition to all other member agencies) that is based on the rate of MWD imported water used between May 1 and September 30 of each year. There is no minimum amount that must be purchased. The capacity charge is paid over the following three years. If no imported water from MWDOC is used during this five-month period, then no capacity charge is applied. OCWD’s purchases of imported water through MWDOC for replenishment of the Basin are shown in Chart 1. In-Lieu Water, which is also imported water from MWDOC, is identified in the years it was available.

Chart 1 – OCWD Imported Water Purchases, 1949-2023 (acre-feet)



⁸ Cyclic Program agreements are between MWD and member agencies for groundwater or surface water storage or pre-deliveries within MWD’s service area. (MWD, *FY 24-25 Rate Structure Administrative Procedures Handbook*, p. 8, located at <https://www.mwdh2o.com/media/gzboneuu/fy24-25-rate-structure-administrative-procedures-handbook.pdf>)

Some Producers meet 100 percent or more of their annual water demands from groundwater, while others pump well below the BPP with much smaller demand for groundwater, so it is difficult to correlate the demand for groundwater supplies from the whole OCWD Service Area with changes in the population. What can be certain is that groundwater pumping has and will continue to vary from year to year, as shown in Table 4. Because the population of the District is expected to increase (Table 3), Producer's demand for groundwater supplies will assumably increase, on the whole.

Given that OCWD has consistently indicated in past MSR and SOI Updates that population growth is expected to have minimal effect, if any, on the ability to provide water service, the reader may question the District's investment of over \$900 million to expand the treatment capacity of the District's Ground Water Replenishment System (GWRS) in order to put more local, recycled water back into the basin if increased demands are not expected; or why there is investment in capturing more water at Prado Dam using the new Forecast-Informed Reservoir Operations (FIRO) management strategy. OCWD has indicated these projects are not to address future growth per se, but to increase the District's ability to capture more local water for the 19 Groundwater Producers and increase the BPP for the existing customer base so that less imported water, which is more expensive than groundwater and less reliable, has to be brought into the Basin to meet water demands. For example, the District estimates in WY 2024-2025 the estimated cost for one AF of groundwater from the Basin is \$1,009 compared to the estimated cost of treated, uninterrupted supplemental water is \$1,380 per AF (OCWD 2024, p. 25). OCWD passes on cost-savings to the 19 Groundwater Producers in the form of a reduced RA when less imported water has to be purchased by the District.

The OCWD Act does not dictate the amount of water that can be pumped from the OC Groundwater Basin. But OCWD attempts to influence pumping rates in the Basin primarily through how it sets the Basin Production Percentage (BPP) for Producers each year. The BPP is defined in the OCWD Act as, "...the ratio that all water to be produced from groundwater supplies within the district bears to all water to be produced by persons and operators within the district from supplemental sources as well as from groundwater within the district." The origin of the BPP begins with attempts by the District in the 1960s to mitigate low groundwater levels that had caused shifts in the aquifer and land subsidence resulting in seawater intrusion. Even as groundwater levels recovered, the seawater continued to flow inland and new communities like Fountain Valley were likely to return to swamp land if groundwater continued to rise. The BPP and Basin Equity Assessment (BEA) were then established to influence the quantities of groundwater pumping throughout the Basin (OCWD 2014, p. 29).

All groundwater pumping pays the Replenishment Assessment (RA) which is currently \$344/af for FY2024-25. Non-agricultural groundwater pumping (such as occurs by the 19 Producers) also pays what is called the Additional Replenishment Assessment (ARA) which is also set at \$344/af for FY2024-25. So the total combined assessment paid by the 19 Producers is \$688/af while an agricultural groundwater user only pays \$344/af. For convenience in this report the combined assessment paid by the 19 groundwater producers will be referred to as the RA.

The BPP is established each April by the OCWD Board of Directors and goes into effect each July for all Producers that use more than 25 AF per WY. For example, if the BPP is set at 75 percent, then the Producers can pump 75 percent of their water demand from the OC Groundwater Basin and only pay the RA. Calculating the BPP involves evaluating groundwater storage conditions, availability of recharge water supplies, and basin management objectives in order to divide projected groundwater supplies by projected total water demands to get the BPP. OCWD's stated goal is to set the BPP as high as possible to allow Groundwater Producers to sustainably maximize pumping and reduce their overall water supply cost by avoiding the purchase of imported water supplies that are more expensive (Basin 8-1 Alternative, p. 10-7).

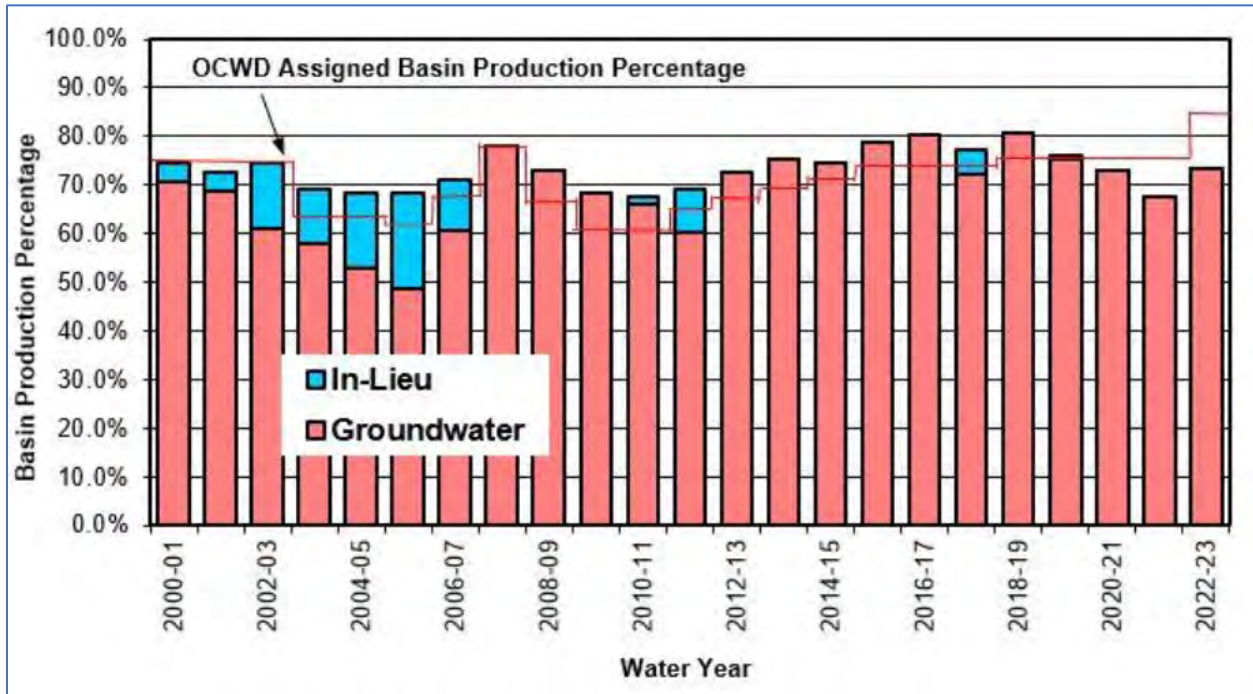
Groundwater pumping less than or equal to the BPP is charged the RA, and pumping more than the BPP is charged the RA plus the Basin Equity Assessment (BEA), which can be increased as needed by OCWD to further disincentivize pumping. Agricultural pumpers pay 50 percent of the RA rate.

The origin of the RA was to ensure everyone paid alike based on the amount of water pumped, regardless of when they started pumping (i.e., no special protections or reservations for newcomers). "Beginning in 1954, each pumper was required to register the city's well(s) with OCWD, maintain records of the amount withdrawn during the year, report that figure, and pay a tax (the RA) in proportion to the amount of water used" (OCWD 2014, p. 27). Furthermore, because the RA is calculated on how much was pumped the prior year and the costs to replenish it, the Producers are incentivized to consider how their efforts affect the groundwater supply.

In addition to the BPP, pumping rates in the Basin are influenced by the cost of the RA and keeping it less than the cost of an AF of treated, imported water. The BPP fluctuates periodically, as shown in Chart 2. The red line in Chart 2 is the assigned BPP established by OCWD each year and the columns represent the actual BPP achieved by the Producers (i.e., the percentage of their total water demands met with Basin groundwater). The columns combine the percentage of total water demand met with groundwater supplies plus the percentage of total water demand met with In-Lieu

Program water (i.e., In-Lieu Program water is when wells are turned off and imported water used instead). For example, during WY 2022-2023, OCWD increased the assigned BPP from 77 to 85 percent, but less pumping was realized with an actual BPP of 73.3 percent.. This graph shows when Groundwater Producers collectively pump more than or less than the assigned BPP .

Chart 2 – OCWD Assigned and Actual Basin Pumping Percentage, WY 2001-2023



Excerpt from 2022-2023 Engineer’s Report, p. 7.

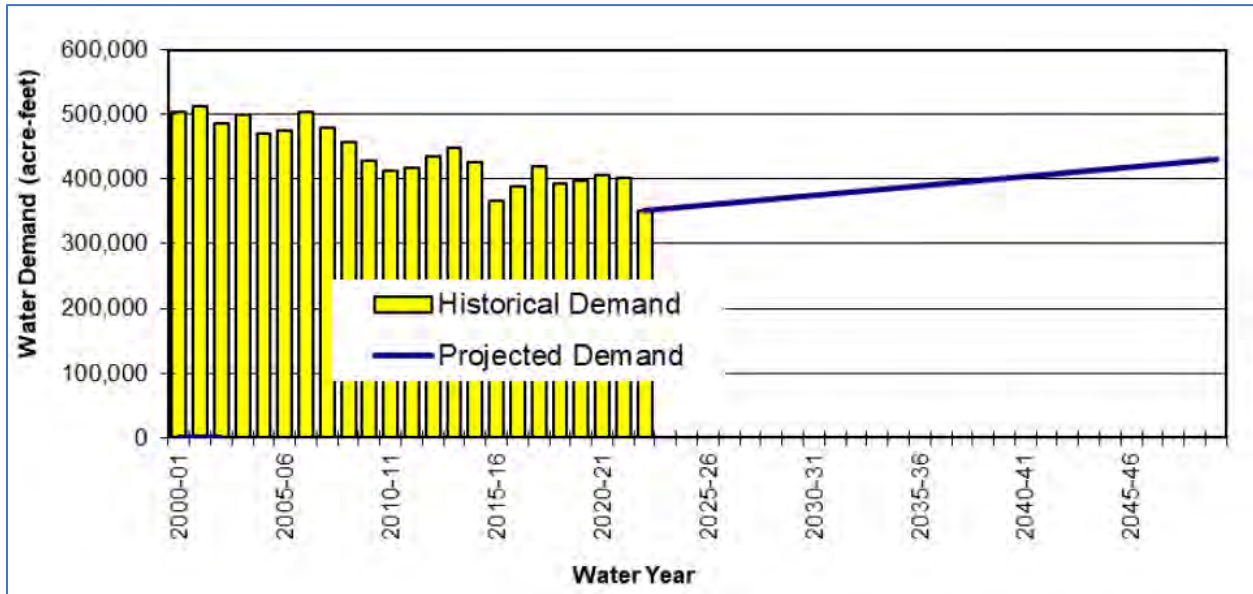
As shown in Chart 2, in WY 2020-2021, 2021-2022, and 2022-2023 the actual water demand met with groundwater supplies was less than the BPP (or the assigned allowable amount of groundwater that could have been produced without incurring BEA). The years when In-Lieu water (imported water) was available and utilized are the same in Charts 1 and 2.

Although the OCWD Service Area and SOI have not reached the anticipated buildout, the District does not expect significant population growth for the foreseeable future based on population projections prepared by CDR as shown in Table 3. Furthermore, the District intends to match growth with effective water conservation efforts.

OCWD prepares an annual forecast of water demands in its Engineer’s Report using population projections provided by CDR and each Producers’ projections of total water

demands. According to the 2022-2023 Engineer’s Report, total water demands⁹ may increase by 22.5 percent from 351,719 AF in WY 2022-2023 to 431,000 acre-feet per year (AFY) by 2050, an increase of approximately 79,281 AFY, or about 2,900 AF every year for 27 years. This is reflected in Chart 3. The 2050 projection includes future water conservation (reduction in water demand). As shown in Chart 3, the projected total water demand in 2050 is less than the total water demand of WY 2000-2001. OCWD staff believes these projections are high and is jointly working with the Municipal Water District of Orange County to prepare updated future water demand estimates.

Chart 3– OCWD Water Demands and Projections, WY 2001-2050



Excerpted graph from 2022-2023 Engineer’s Report (page 21).

Meeting future water demands will not be met by groundwater supplies alone and will require a combination of water supply sources plus demand management (conservation). This may be why OCWD does not separate water supply projections by supply source because it is the totality of the supply and the ability to switch from one source to another that will meet water demands.

Water demands within OCWD Service Area are expected to be met over the planning horizon of this MSR analysis including the future increase in population, given the following factors: (1) the District’s collaboration with CDR to proactively monitor

⁹ Total water demands include the use of groundwater, MWD In-Lieu Program water, supplemental sources (imported water and Santiago Creek native water), and recycled water (which is not included within supplemental sources if originating from within the Santa Ana River watershed). Groundwater, supplemental water, and recycled water that is used by OCWD for groundwater recharge is excluded from total water demands.

demographic changes in the Service Area and in particular, population growth; (2) District projections accounting for future growth in each Producer's Service Area; and (3) the District's demonstrated ability to meet water demands in the past that were higher than current water demands.

3.2 Disadvantaged Unincorporated Communities (DUC)

The CKH Act defines a disadvantaged unincorporated community (DUC) as, "inhabited territory, as defined by Gov. Code Section 56046, or as determined by commission policy, that constitutes all or a portion of a "disadvantaged community" as defined by Section 79505.5 of the Water Code." The term, "inhabited territory" in Gov. Code Section 56046 means territory within which there resides 12 or more registered voters. "Disadvantaged Community" in Water Code Section 79505.5 is defined as "a community with an annual median household income that is less than 80 percent of the statewide annual median household income."

Senate Bill 244 (Wolk; effective January 1, 2012) imposed several new requirements with regard to DUCs. The Legislature found DUCs lack access to basic infrastructure, including but not limited to streets, sidewalks, storm drainage, clean drinking water, and adequate sewer service. The purpose of the new requirements was to include DUCs in the scope of MSR and SOI updates prepared by each LAFCO in order to avoid a situation where an agency might exclude a DUC from a future annexation or provision of key services, such as water and sewer. The CKH Act requires an MSR to include determinations regarding the present and probable need for public facilities or services related to water in any DUC that is within the existing OCWD sphere of influence.

There are approximately 125 square miles of unincorporated county land within OCWD's SOI. In addition, there are disadvantaged communities identified based on American Community Survey five-year estimates at the census block level. According to CDR, the most recently measured statewide annual median household income is \$84,097, 80 percent of which is \$67,277.60. When the two datasets are combined, there are 11 DUCs within OCWD's Service Area that meet these criteria totaling 0.85 square mile (541 acres), as shown on **Figure 4 – Disadvantaged Unincorporated Communities**. This is an increase in the number of DUCs from prior years.

The characteristics of each DUC are described below:

1. City of Anaheim Sphere of Influence

There are four neighborhoods that qualify as DUCs that are collectively referred to as the "Southwest Anaheim DUC." The DUCs total 192 acres and are generally located north of

Katella Avenue, west of Brookhurst Street, east of Magnolia Street, and south of Lincoln Avenue.

Although located outside of the City limits, water service and sewer service are provided by the City of Anaheim (Anaheim 2020 UWMP, p. 3-5). Solid waste disposal service for the DUCs is provided by the City through a contract with Republic Waste Services.

2. City of Stanton Sphere of Influence

There are two DUCs in the City of Stanton's Sphere of Influence; the first is 27 acres located at the northwest corner of Katella Avenue and Magnolia Street ("Mac/Syracuse DUC"), and the second is 34 acres located northeast of the intersection of Dale Avenue and Chapman Avenue ("Dale/Augusta DUC").

Water service to Mac/Syracuse DUC is provided by Golden State Water Company, which also serves the City of Stanton (Garden Grove 2020 UWMP, p. 3-3). Water service to Dale/Augusta DUC is provided by a combination of the City of Garden Grove and Hynes Estates Mutual Water Company.

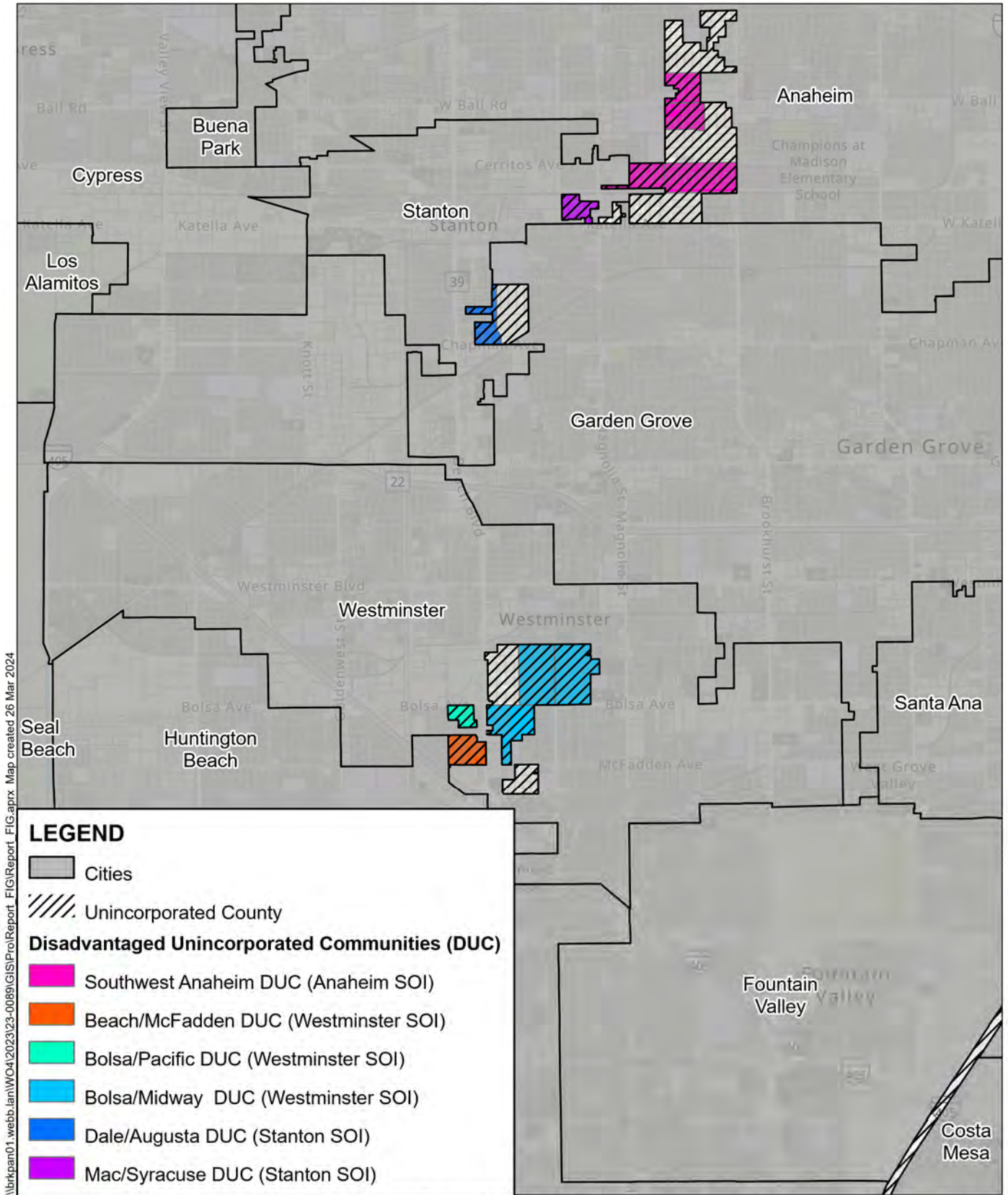
The Garden Grove Sanitary District provides wastewater services and Republic Waste Services provides solid waste disposal services to both DUCs (OCLAFCO 2023, p. 54).

3. City of Westminster Sphere of Influence

There are five DUCs in the City of Westminster Sphere of Influence and they collectively total 288 acres. Three DUCs are located east of State Route 39 (Beach Blvd.) and south of Westminster Boulevard, which are identified as the "Bolsa/Midway DUC." The remaining two DUCs are located south of Bolsa Avenue, north of McFadden Avenue, west of State Route 39, and are referred to as "Bolsa/Pacific DUC" and "Bolsa/McFadden DUC" (Figure 4).

Water service to Bolsa/Midway DUC is provided by a combination of the City of Westminster, Midway City Mutual Water Company, Eastside Water Association, and South Midway City Mutual Water Company. Water service to Bolsa/Pacific DUC and Bolsa/McFadden DUC is provided by the City of Westminster.

The Midway City Sanitary District provides sewer and solid waste collection services to all five DUCs and most other services are provided to the DUCs by the County (OCLAFCO 2023, p. 54).



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Source: OC-LAFCO, ESRI OC

Figure 4 – Disadvantaged Unincorporated Communities
 OCWD Municipal Service Review



0 2 Miles

All of the DUCs identified herein are within OCWD Division 1 (Figure 3) and within the water service boundaries of their respective retail water suppliers. The City of Anaheim, Golden State Water Company, and City of Westminster are three of the 19 Groundwater Producers of OCWD. In addition, four private mutual water companies also serve portions of the DUCs in the spheres of influence for Stanton and Westminster (Figure 4): Hynes Estates Mutual Water Company, Midway City Mutual Water Company, Eastside Water Association, and South Midway City Mutual Water Company. OCWD identifies these water suppliers as “active small producers” and each pumped more than 25 AF of water from the Basin in WY 2022-2023. According to OCWD’s Monitoring Program records, these four small producers have active production wells that are monitored by OCWD for Title 22 (water quality) compliance (2015 OCWD Groundwater Management Plan, Appendix E).¹⁰ OCWD also collects pumping records from small producers every 6 months to account for their pumping from the Basin.

Keeping up with changing regulations and aging infrastructure can be very challenging for small mutual water companies. The State Water Resources Control Board has funding and technical assistance available for mutual water companies ready to consolidate with a neighboring public water supplier. It is not the task of this study to assess whether any small water producers in OCWD’s SOI are having deficiencies in their provision of potable water to their customers. The provision of water service to customers in the DUC areas (i.e., water mains, laterals, and meters) is the responsibility of their respective retail water suppliers. However, the monitoring, record-keeping, and water testing efforts the District is providing to these small producers are services that benefit their customers’ ability to have water and, in turn, is part of the Basin management OCWD must perform to meet its charge. Nothing in the OCWD Act appears to limit the District’s ability to assist public or private water suppliers within its jurisdiction, including those in disadvantaged communities. Because OCWD monitors the water quality of the wells and accounts for the water pumped by both large and small producers, including those within the DUCs when making its water demand and water supply projections, and the District recharges the Basin for large and small producers to access regardless of where DUCs exist, OCWD is meeting its responsibility for the present and probable needs of potable water services for the DUCs. Nonetheless, it is recommended that OCWD make available to some reasonable degree its extensive technical resources when requested by mutual water companies that serve a DUC and need help to navigate funding opportunities for system improvements.

¹⁰ Title 22 of the California Code of Regulations refers to Environmental Health regulations and contains the standards for water reclamation.

3.3 Capacity and Adequacy of Public Facilities and Services

OCWD is tasked with providing the public service of sustainably managing the Basin as a water supply source for the groundwater producers within its Service Area. The Basin covers approximately 350 square miles in north and central Orange County and extends 4,000 feet at its deepest point (Basin 8-1 Alternative, p. 2-3). There are three major aquifer systems in the OC Groundwater Basin. They are referred to as Shallow Aquifer (closest to the surface), Principal Aquifer, and Deep Aquifer (farthest from the surface).

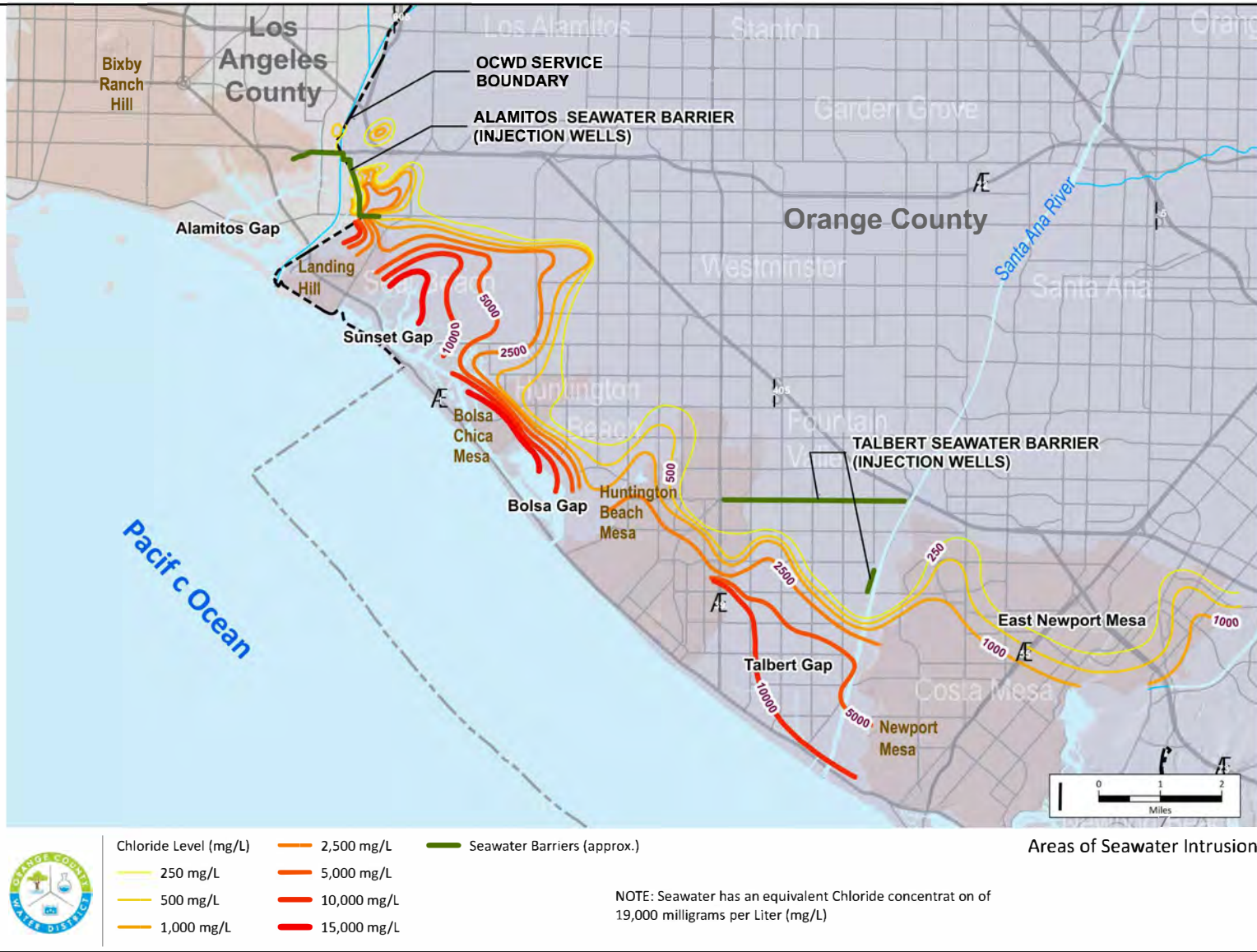
Over 90 percent of groundwater pumping occurs from wells that are pumping from the Principal Aquifer at depths between 200 and 1,300 feet. The Deep Aquifer system extends up to 4,000 feet below ground surface. Natural organic material from ancient, buried plants and wood gives the water in the Deep Aquifer an amber tint and a sulfur odor. The depth and presence of amber colored groundwater in some coastal areas hinders pumping from the Deep Aquifer system. (Basin 8-1 Alternative, p. 2-3) Although this water is of high quality, its color and odor produce negative aesthetic qualities that require treatment before use as drinking water. (*ibid*, p. 11-7) Mesa Water District and IRWD have water treatment facilities to treat amber-colored groundwater (*ibid*, p. 11-8).

The volume of water in the Basin when it is full is estimated by OCWD staff at approximately 66 million AF (*ibid*, p. 10-1); however, up to 500,000 AF is considered available water in storage. OCWD's current policy of maintaining a groundwater storage level of up to 500,000 AF below full was established based on completion of a comprehensive hydrogeological study of the Basin in 2007 (*ibid*, p. 10-2).¹¹ OCWD determined that pumping more than 500,000 AF for more than an emergency, short-term instance, would incrementally result in undesirable effects such as seawater intrusion, land subsidence, increased pumping costs, and higher potential for upwelling of amber-colored groundwater from the Deep Aquifer (*ibid*, p. 10-1).

Seawater intrusion has been well-documented along coastal Orange County since the early 1900s. OCWD has operated two seawater barriers using injection wells to control seawater intrusion since 1965 and 1975, respectively. The current extent of intrusion and locations of the barriers are shown in **Figure 5 – Areas of Seawater Intrusion**. As the groundwater drops and the amount of freshwater stored in the Basin decreases, the hydraulic force pulling seawater intrusion into the Basin worsens.

¹¹ Orange County Water District, *Report on Evaluation of Orange County Groundwater Basin Storage and Operational Strategy*, February 2007.

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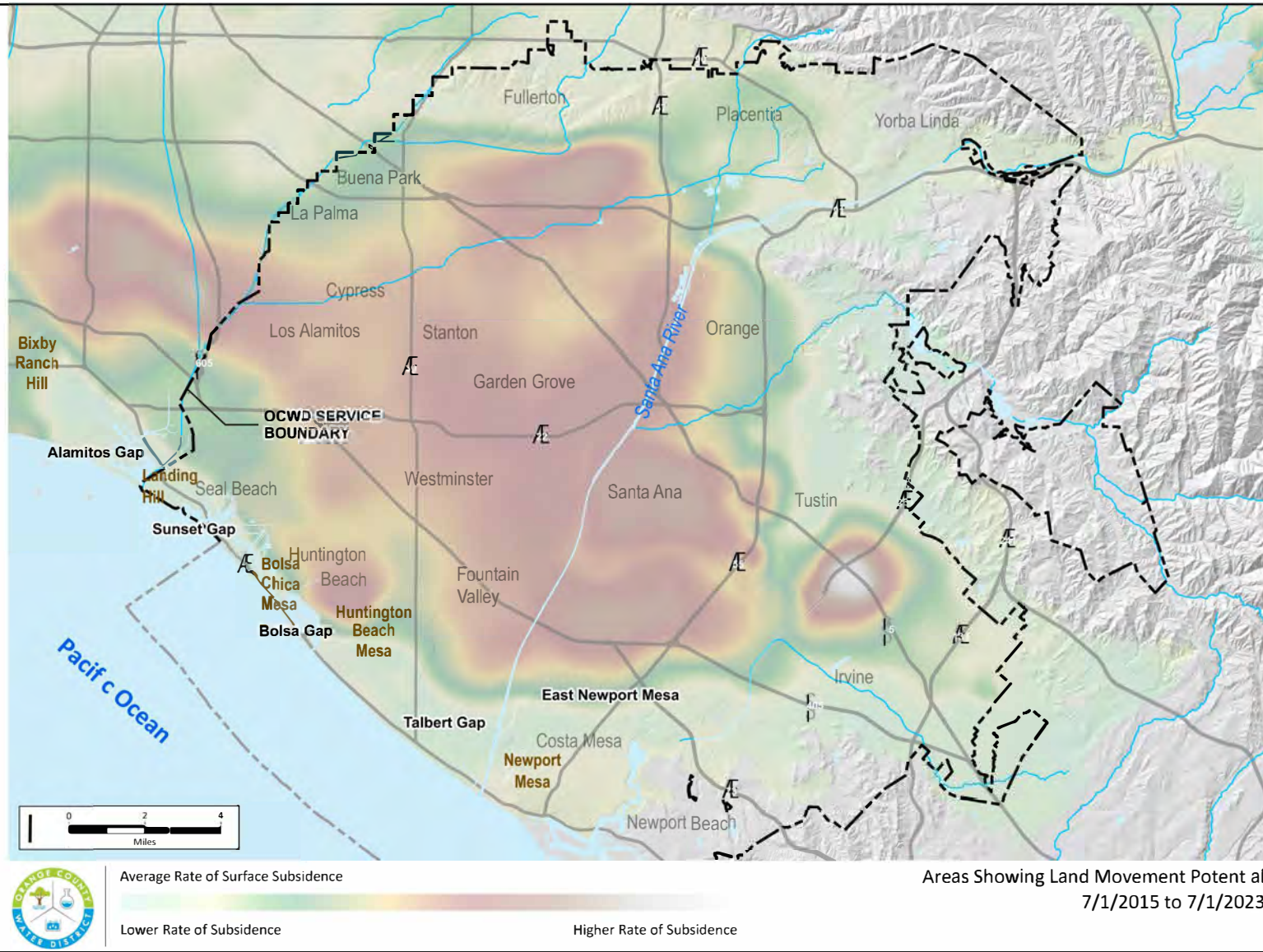
Source: OCWD (01/2024)

Figure 5 - Areas of Seawater Intrusion
OCWD Municipal Service Review

The seawater barriers were designed to control seawater intrusion with the Basin storage staying within the 500,000 AF range, so pumping beyond that may allow seawater intrusion to move inland beyond the barriers. Brackish groundwater (fresh water and seawater combined) flowing inland can render drinking water wells inoperable without expensive treatment using reverse osmosis. The longer the Basin storage were to remain overdrafted (or, drawn down) more than 500,000 AF, the farther inland and extensive the intrusion would be. In other words, a one- to two-year period beyond 500,000 AF may cause little to no irreversible groundwater quality degradation, while periods beyond five years could cause long-term salinity degradation. (PC(1))

With regard to land subsidence, the Basin is composed of sedimentary deposits of permeable sands and gravels interlayered with low-permeability clays and silts. Land subsidence occurs when groundwater levels decrease such that the reduced water pore pressure in the clays and silts causes them to compact under the weight of sediment above them. Over time, this sediment compaction leads to ground surface sinking or land subsidence. Significant land subsidence, like that documented in California's Central Valley, can damage infrastructure (e.g., transportation, buildings, flood control channels, water and sewer lines, etc.). Because of the extensive subsurface clays and silts, the Basin has the characteristics to be susceptible to land subsidence. This susceptibility has been confirmed by studies in the last 20 years using satellites and ground-based sensors that show the ground surface in areas including Santa Ana have subsided and then rebounded in correlation with groundwater levels. **Figure 6 – Areas Showing Land Movement Potential** shows the areas that have shown the greatest tendency for ground surface changes, which have been on the order of ± 1 inch over the last eight years. Like seawater intrusion, the severity and irreversibility of land subsidence increases the longer the Basin storage remains beyond 500,000 AF of overdraft. Because OCWD's management of the Basin has kept groundwater levels within an established historical range, there has been no documented long-term land subsidence. One key consideration of land subsidence is that once it is triggered by a sustained groundwater storage reduction (several years or longer), it can continue even after the groundwater storage has recovered. (PC(1))

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Source: OCWD (01/2024); SGMA SAR Data (11/2023)

Figure 6 - Areas of Showing Land Movement Potential
OCWD Municipal Service Review

In addition to seawater intrusion and land subsidence, groundwater storage reductions beyond 500,000 AF would reduce the pumping capacity of wells. This is because as groundwater levels drop, the pump intakes inside the wells can be left too shallow or out of the water. Many wells in the basin already have their pump intakes set at their lowest depth. The result of, say, a 100-foot drop in groundwater levels at a well is a loss in its pumping capacity of potentially hundreds of gallons per minute or, alternatively, to construct a deeper well for a cost of \$5 million to \$10 million. In most cases, there is no cost-effective way to “deepen” an existing production well without significantly reducing its diameter and, hence, its pumping capacity. (PC(1))

Upwelling of deep groundwater is another potential result of drawing down the Basin by more than 500,000 AF. Groundwater from the Basin’s deepest depths could bring water that, although technically potable, looks and smells unappealing and more importantly requires expensive nano-filtration membranes to remove the color and smell. OCWD has modeled the effects of pumping up to 700,000 AF from the Basin and based on the results determined this amount of pumping is considered acceptable only in an extreme emergency (Basin 8-1 Alternative, p. 10-1).

OCWD has many facilities to facilitate surface water diversions and groundwater recharge, reclamation and recharge of wastewater, and monitoring of groundwater elevations and water quality, as summarized in Table 5:

Table 5: OCWD Assets and Capacity

OCWD Asset	Purpose	Capacity
OCWD Fountain Valley Headquarters <ul style="list-style-type: none"> • OCWD owns all the land including under the OCWD and MWDOC buildings “Office Facilities”. • OCWD owns about 66% of the Joint Office Facilities and MWDOC owns about 33%. • OCWD leases 50% of the land under the Office Facilities to MWDOC. 	Office space, parking, equipment storage	n/a
Ground Water Replenishment System <ul style="list-style-type: none"> • Advanced Purification Facility** • Pipeline 	Treat recycled water* from OC San to drinking water standards that is then used for groundwater recharge.	Capacity: 130 MGD (134,000 AFY) Actual WY 21-22: 82.7 MGD

OCWD Asset	Purpose	Capacity
<p>Santa Ana River Field Headquarters (Anaheim)</p> <ul style="list-style-type: none"> Recharge Basins^(a) > 25 facilities covering > 1,000 wetted acres 	<p>OCWD staff field office in close proximity to the recharge basins in Anaheim and Orange.</p>	<p>Maximum storage capacity: 26,000 AF^(b)</p> <p>Average annual recharge: 250,000 AF</p>
<p>Green Acres Project (GAP) Title 22 Reclamation</p> <ul style="list-style-type: none"> Since 1991 37 miles of OCWD distribution pipelines, 2 pump stations, 2 reservoirs, and intertie to IRWD 107 active meters 	<p>Take secondary treated wastewater from OC San, provide additional (tertiary) treatment such that recycled water* is available for retail agencies for 100 different sites that use it for landscape irrigation, industrial use, toilet flushing and power generation cooling.</p>	<p>Capacity: 7.5 MGD</p> <p>(Current demand is ~3.4 MGD or 3,827 AF for WY 21-22)</p>
<p>Talbert Seawater Intrusion Barrier</p> <ul style="list-style-type: none"> Since 1975 Supplied by Supplemental Water^(d) and GWRS 36 injection wells 	<p>A line of groundwater injection wells to create a hydraulic barrier using recycled water that has been treated to drinking water standards (or treated imported water) against seawater moving inland between Huntington Beach Mesa and Newport Beach Mesa along Ellis Avenue. Can also be used for basin recharge.</p>	<p>Supplemental Water: 12,500 gallons (14 AF) in WY 21-22</p> <p>Recycled Water: 23,980 AF</p>
<p>Alamitos Barrier Project</p> <ul style="list-style-type: none"> Since 1964 43 injection wells and 177 monitoring wells Supplied by GWRS and WRI^(j) O&M with Los Angeles Dept. of Public Works 	<p>A line of jointly owned groundwater injection wells to create a hydraulic barrier along the Los Angeles County/Orange County boundary using recycled water that has been treated to drinking water standards (or treated imported water) against seawater moving inland between Bixby Ranch Hill and Landing Hill.</p>	<p>WRD has 8 MGD design capacity; but pumping closer to 3 MGD. WRD supplied 1,475.9 AF in WY 21-22.</p> <p>GWRS: 1,228.1 AF in WY 21-22</p>
<p>Philip L. Anthony Water Quality Laboratory</p> <ul style="list-style-type: none"> Analysis of 1,500 OCWD sites and > 200 drinking water wells for local water providers. 31 chemists and technicians, 12 water quality monitoring personnel 	<p>Federally accredited and state-certified public agency laboratory for water quality testing for OCWD's monitoring sites, as well as Producers.</p>	<p>>400,000 analyses⁴⁵ approx. 20,000 water samples each year</p>

OCWD Asset	Purpose	Capacity
Prado Basin <ul style="list-style-type: none"> • Working with the USACE since 1960s; monitoring wetlands since 1998 • Approx. half of the non-storm flows of the Santa Ana River diverted through wetland ponds • <i>Arundo donax</i> removal, native plantings, least Bell’s vireo population rebound • Sediment removal behind dam 	The wetlands behind Prado Dam in Riverside County are designed to remove nitrogen and other chemicals from the Santa Ana River (both storm flows and a diverted segment of non-storm flows) to improve water quality before the river enters Orange County and diverted into OCWD’s recharge basins.	Owns 2,400 acres behind Prado Dam and 6-mile stretch of Santa Ana River Wetlands on 465 acres remove 15 to 40 tons of nitrates per month Minimum 42,000 AFY of river water to Orange County ^(e)
Non-barrier wells (monitoring wells) <ul style="list-style-type: none"> • Approx. 400 wells 	Critical to understanding what is happening beneath the ground and how much is being extracted, OCWD gathers groundwater data from its own wells located throughout its Service Area and combines that with data from Producer’s monitoring wells.	-
Rolling Stock	Vehicles and equipment used by OCWD staff to access sites and provide maintenance of facilities.	-

Notes: IRWD = Irvine Ranch Water District; AFY = acre feet per year; MGD = million gallons per day; WY 21-22 = Water Year 2021-2022 (July 1 to June 30); USACE = U.S. Army Corps of Engineers.

*Recycled (or, reclaimed) water means raw sewage (wastewater) that has been treated to meet California’s Title 22 guidelines so that the water can be reused for direct beneficial (but not potable) use. Typically, this means a tertiary level of treatment.

**Advanced treatment means tertiary-treated recycled water that is then purified further using methods like microfiltration, reverse osmosis, and ultraviolet (UV) light with hydrogen peroxide or chlorine. Typically produces water that meets drinking water standards, although still referred to as “recycled water” or “effluent.”

(a) Refer to Table 5-3 of GMP 2015. Four basins are not owned by OCWD.

(b) Maximum storage capacity is typically not achieved because of need to reserve buffer space. (GMP 2015)

(c) Water Replenishment District of Southern California (WRD), serving southern Los Angeles County.

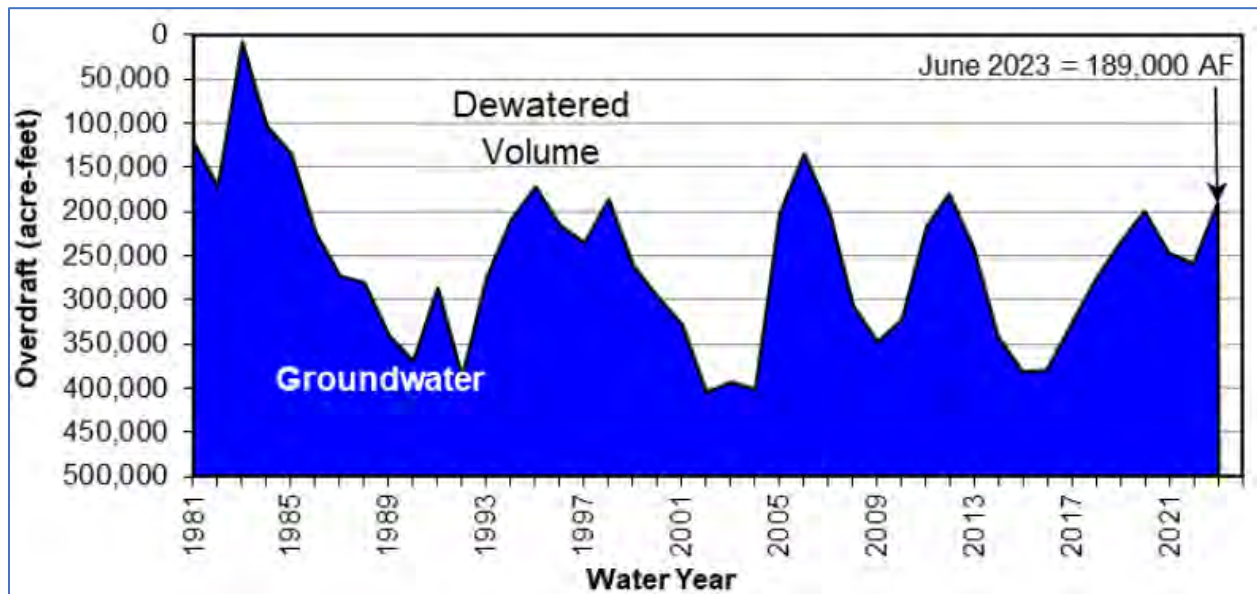
(d) Supplemental Water typically includes imported deliveries from MWD (i.e., Colorado River or State Water Project), diversions from Irvine Lake/Santiago Reservoir (i.e., Santiago Creek), non-local waters, and deliveries from water exchanges within the Santa Ana River Watershed.

(e) One of the results of OCWD v. City of Chino, et al., Case no. 117628 – County of Orange, is at least 42,000 AF of Santa Ana River baseflow shall be delivered to Orange County, and OCWD gained the rights to all storm flows reaching Prado Dam. Parties to the judgment include Western Municipal Water District, San Bernardino Valley Municipal Water District, and Inland Empire Utilities Agency.

The term, “capacity” for OCWD speaks to the ability to recharge the Basin and offset groundwater pumping. OCWD manages the Basin like a reservoir; at 100 percent full, overdraft is zero. The “reservoir” can be drawn down by no more than 500,000 AF, or when overdraft is 100 percent. In wet years, the reservoir refills and in dry years, it typically draws down. Indeed, the District is not required to keep the basin at 100 percent full but rather manages it in a constant fluctuating state of overdraft, roughly

between -150,000 AF to -200,000 AF (or, 60 to 70 percent full) that reflects how much rain fell and constraints on well production (e.g., pollutants in groundwater). OCWD uses the term, “accumulated overdraft” to represent the volume of empty basin storage that is available to fill with groundwater (BSU, p. 1), which is shown as 189,000 AF in Chart 4. The increase of water in the Basin as of June 2023 comes after two years of decline and ended up being more recharge than originally projected due to higher than expected rainy seasons.

Chart 4 – OCWD Basin Overdraft, WY 1980-2023



Excerpt from 2022-2023 *Engineer’s Report*, page 11. Unpublished data provided by OCWD indicates the accumulated overdraft is 133,000 AF as of June 2024.

The reasons OCWD maintains this overdraft “sweet-spot” of -150,000 AF to -200,000 AF are: 1) to reserve space for rainfall events; 2) maintain a reservoir of about 300,000 AF of supply; and 3) minimizes water loss to Los Angeles’ side of the basin (the Los Angeles side of the basin is kept in a deeper state of overdraft than the Orange County side).

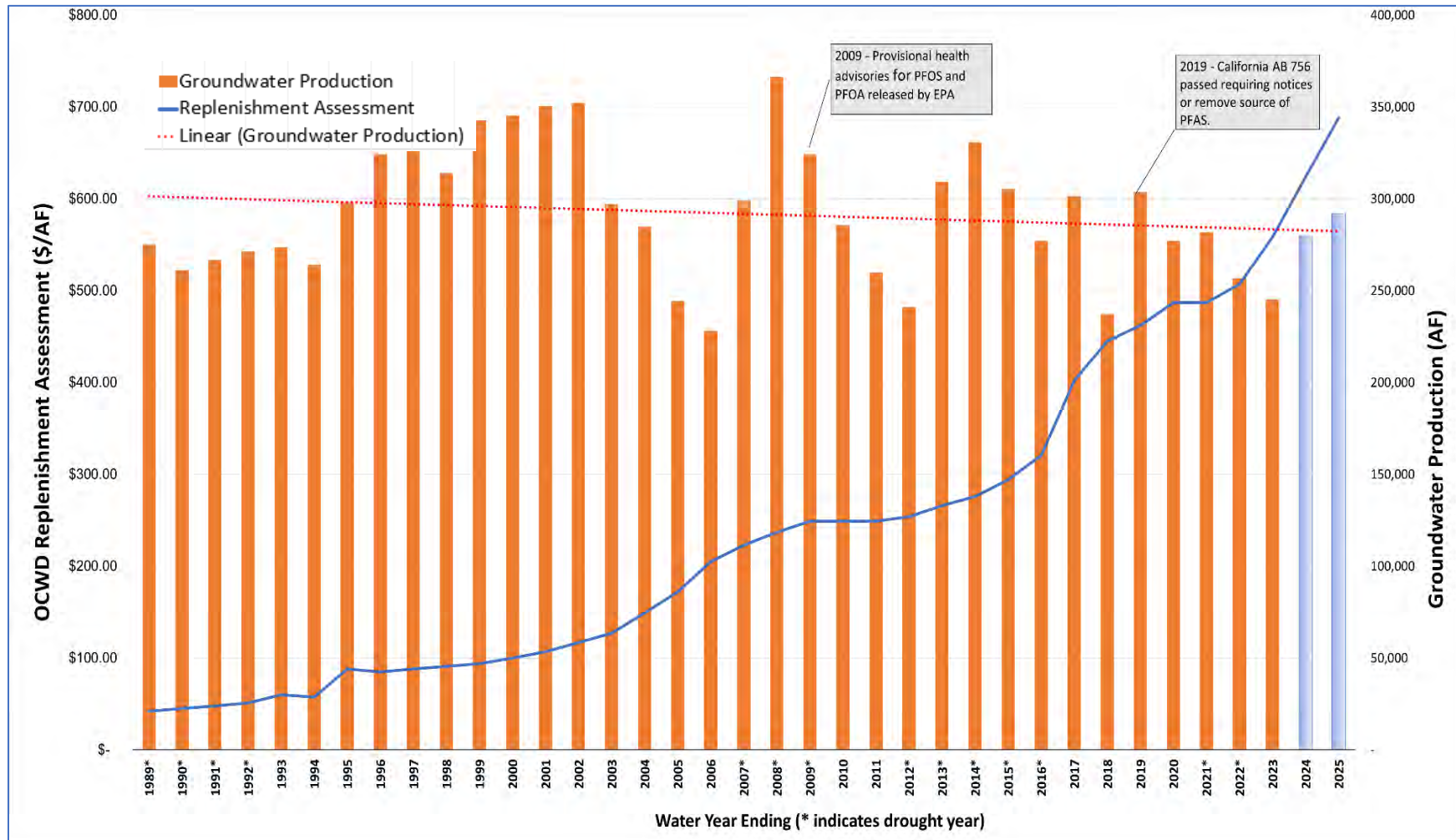
Chart 5 (on page 47) graphs the recorded RA from 1989 to 2024. The RA has steadily increased from a low of \$42/AF in 1989 to \$624/AF in WY 2023-2024. Years in which the RA increased substantially include 1993 (following four years of drought), 1995, 2004, 2005, 2006, 2017 (following five years of drought), and 2024. The primary reasons for the RA increases include: (1) the amount of Santa Ana River base flows coming to OCWD have decreased from a high of over 150,000 afy in 1999 to the current amount of approximately 80,000 afy; (2) to provide funding for the Groundwater Replenishment System (GWRS); and (3) to provide funding to construct PFAS treatment systems.

Years marked with an asterisk (*) are drought years when groundwater pumping tends to increase because of a decrease in surface and imported water supplies. However, Chart 5 suggests drought years may not be a decisive factor in groundwater pumping trends (i.e., there is not a steady increase during multiple-dry year periods). This reflects the effect of water conservation measures and other demand management strategies.

RA fees are shown with annual volume of recorded groundwater pumping, which ranges from a low of 228,159 AF in 2006 to a high of 366,185 AF just two years later in 2008. The linear trendline shows an average decline in pumping overall during the time period. The RA is not a significant factor in decreasing groundwater pumping. For example, the RA increased 35 percent between 1994 and 1995 and groundwater pumping increased nonetheless during and following the increase through 1997.

The current primary constraint for OCWD on groundwater use is water quality, especially concentrations of PFAS compounds, which has resulted in wells being turned off until additional treatment can be added to the system. The decline in pumping after the PFAS regulations took effect in 2019 reflects this (a decrease of approximately 22 percent). Because the rate for MWD water is currently about \$1,300 per AF, the RA could be increased by OCWD significantly without jeopardizing financial stability.

Chart 5 – Groundwater Pumping and Replenishment Assessment Since 1989



Source: EPA 2012, AB756 2019, OCWD 2024

The OCWD Act defines the term “overdraft” differently than a traditional definition. A hydrologist might define overdraft as: “Overdraft occurs when, over a period of years, more water is pumped from a groundwater basin than is replaced from all sources- such as rainfall, irrigation water streams fed by mountain runoff, and intentional recharge” (Water Education Foundation). The OCWD Act defines overdraft in terms of natural replenishment only: “the amount, determined by the board of directors, by which the production of water from the groundwater supplies within said district during the WY [July 1 to June 30] exceeds the natural replenishment of such groundwater supplies in such WY.” In other words, the overdraft occurs when the volume pumped is greater than the volume recharged naturally through rainfall, the Santa Ana River, Santiago Creek flows, and natural infiltration of surface waters (regardless of how much is recharged from recycled water or supplemental water).

Are OCWD’s facilities sufficient to recharge the groundwater basin?

WY 22-23 is the most recent data available to address this question. First, the total water supply into the basin was 313,555 AF and the amount pumped from the basin was 245,210 AF (OCWD 2024, Appendix 5). This is a difference of about +69,000 AF and represents the amount added to the Basin over the year, which reduced the overdraft to -189,000 AF. In short, more water was put into the Basin than was pulled out. This is mostly attributable to the rainfall for the year being 21.12 inches, or 158 percent of the long-term average (i.e., a “wet year”); compared to the prior year, WY 21-22, which had about half of the average rainfall, or 6.84 inches and a net decrease of 10,000 AF.

On the other hand, the BPP for WY 22-23 was increased in February 2023 from 77 percent to 85 percent by the OCWD Board of Directors. This means the groundwater producers could pump up to 85 percent of their total water demands from the Basin and only pay the RA. However, in WY 22-23, groundwater producers ended up producing just 73.3 percent of their water demands from the Basin with the decreased pumping attributable to PFAS concentrations in certain wells. Producers also did not meet the 77 percent BPP for the prior WY. Because less pumping occurred than assigned by the BPP in WY 22-23, the Basin had a net increase of 69,000 AF and ended up in the “sweet spot” between -150,000 AF and -200,000 AF (i.e., -189,000 AF) in the Basin.

As noted in Table 5, OCWD has a network of 25 recharge basins (not including seawater barriers) that have a maximum recharge ability (if all are completely empty at the same time) of 300,000 AFY (PC(2)). OCWD has water rights to the Santa Ana River flows below Prado Dam totaling 362,000 AFY and an additional 49,980 AFY was requested in 2023 based on completed projects to capture the flows. In addition, the District’s GWRS produced 101,950 AF in WY 22-23 and still operating less than its maximum capacity of

130 mgd. Based on the results of the water supplies acquired and recharge that occurred in WY 22-23, it can be reasonably concluded that the OCWD facilities have sufficient capacity to recharge the Basin.

Does a net decline in groundwater supply indicate inability to provide service?

Regardless of how many recharge facilities one agency may have, if the rain does not materialize in Orange County (lower Santa Ana River Watershed), or the Inland Empire (upper Santa Ana River Watershed), Northern California, or Colorado River Watershed, then water supplies for recharge are inherently limited. For example, WY 21-22 yielded 6.84 inches or roughly half the annual average rainfall for the OCWD Service Area (12.9 inches), and the prior year had even less. However, the Basin still had a little more than 200,000 AF in storage at the end of WY 21-22.

In addition to having below-average rainfall in WY 21-22, OCWD's ability to provide its service is constrained currently due to the presence of PFAS chemicals in the Basin. Concentrations of PFAS chemicals higher than the State response levels have resulted in many wells being turned off in WY 21-22 until additional treatment can be brought online that reduces the concentration of PFAS enough to meet State response levels. Fortunately, effective removal of PFAS from water supplies can be done with tried-and-

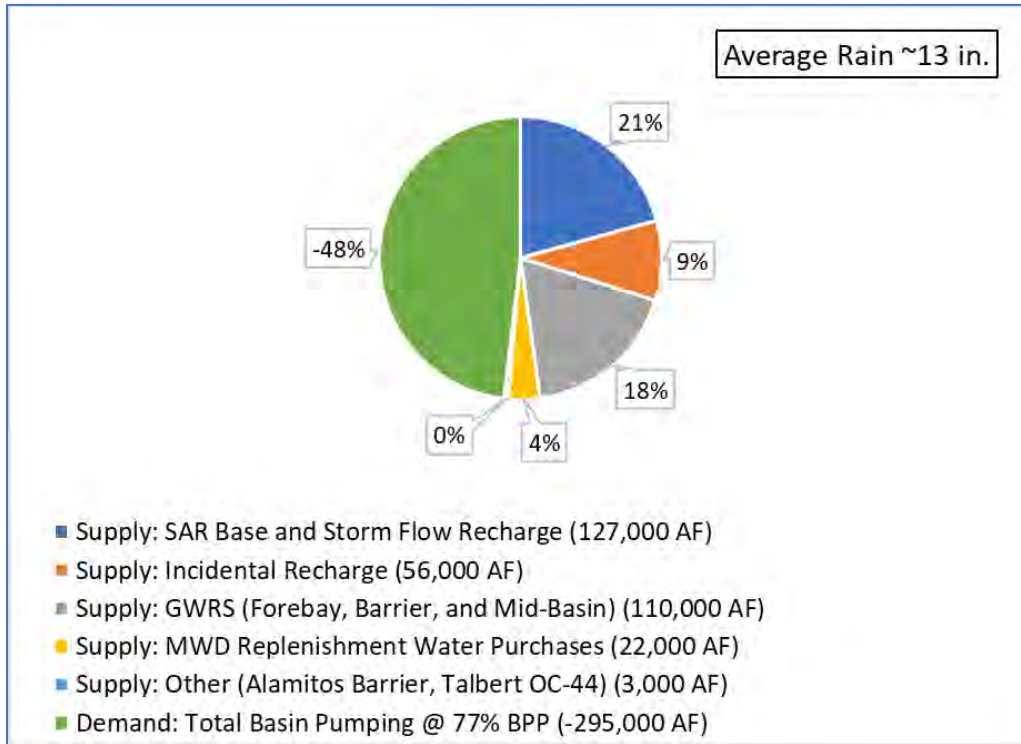
PFAS

The acronym, PFAS represents thousands of man-made chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. Scientists are still learning how to test for them and their effects on humans and the environment. PFAS are found worldwide and do not easily break down. Regulations in California are evolving as more is learned.

(<https://www.epa.gov/pfas/pfas-explained>)

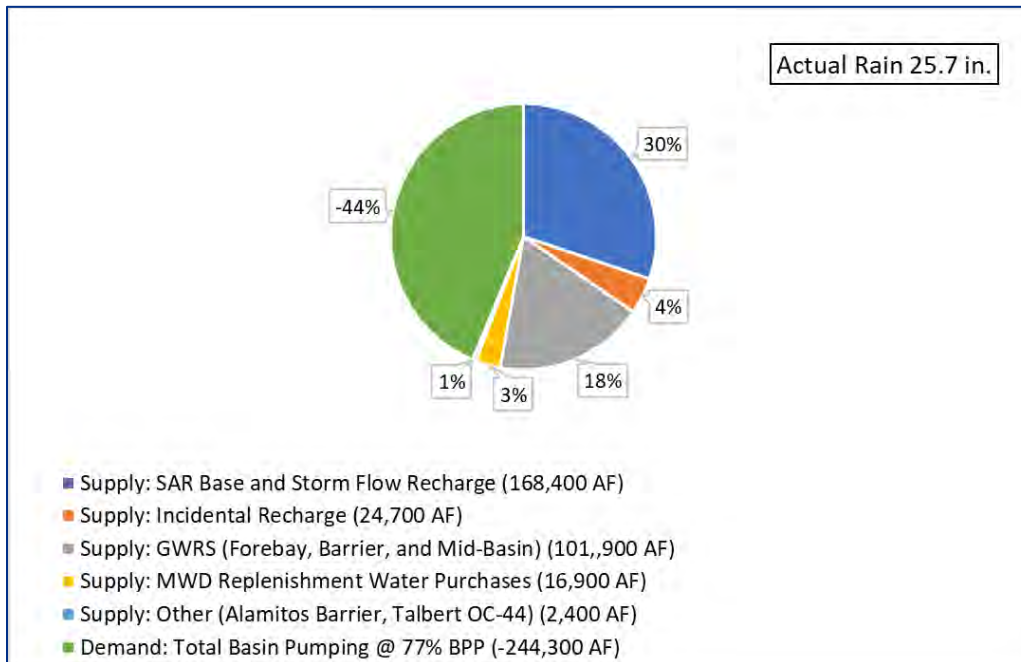
true treatment methods including carbon filters, reverse osmosis, and ion exchange. While wells are turned off waiting for treatment systems, the 19 Groundwater Producers relied on the combined effect of conservation and imported water to continue meeting customer demands. The projected and actual water supplies and water demands for WY 21-22 are shown in Charts 5 and 6, on the following page.

Chart 6 – OCWD Projected Water Budget for WY 22-23



Source: OCWD Board of Directors, *Basin Storage Update for WY 2022-23*, Sept. 13, 2023.

Chart 7 – OCWD Actual Water Budget for WY 22-23



Source: OCWD Board of Directors, *Basin Storage Update for WY 2022-23*, Sept. 13, 2023.

(1) Actual “SAR Base and Storm Flow Recharge” includes 10,374 AF of percolation from prior year’s carryover storage in recharge basins and 27,625 AF of Santiago Creek and other local inflows.

(2) The Basin Storage Update data was assembled in September 2023 and does not match exactly with the Engineer’s Report from February 2024 referenced herein (e.g., actual rainfall 21.12 in. versus 25.7 in.).

Because the Basin is operated like a reservoir, a net decline in groundwater does not indicate that OCWD is deficient in providing its public service. In fact, this approach to basin management is supported by the State even though it contrasts with the traditional condition of “overdraft.” For example, the California Water Plan Update (2013) states:

Change in groundwater storage is the difference in stored groundwater volume between two time periods...However, declining storage over a period characterized by averaged hydrologic conditions does not necessarily mean that the basin is being managed unsustainably or is subject to conditions of overdraft. Utilization of groundwater in storage during years of diminishing surface water supply, followed by active recharge of the aquifer when surface water or other alternative supplies become available, is a recognized and acceptable approach to conjunctive water management. (CWP, p. SC-77)

Furthermore, as stated in OCWD’s 2015 Groundwater Management Plan:

Because OCWD has the means to manage basin storage with a safe operating range and has operated the basin within this range for decades, overdraft in the traditional sense does not exist in the Orange County Groundwater Basin. (GMP, p. 10-4)

The September 2023 California Water Plan Update Public Review Draft supports efforts to increase available supplies from a range of sources by expanding water storage above and below ground, increasing availability of recycled water, increasing the amount of stormwater runoff captured, and increasing desalination (2023 CWP pp. 4-5, 4-6). OCWD’s water supply projects are consistent with the State’s plan for water supply sources in the future.

Taking into account the District’s demonstrated ability to refill the basin when supplies are available and to pursue projects that expand its capacity to refill the basin while implementing effective conservation and education programs, partnering on conjunctive use (storage) programs, and expanding wellhead treatment to bring impaired wells back online, OCWD’s public facilities and services are adequate and have sufficient capacity to meet the demands of existing and currently forecasted customers.

Infrastructure Needs or Deficiencies in any DUCs

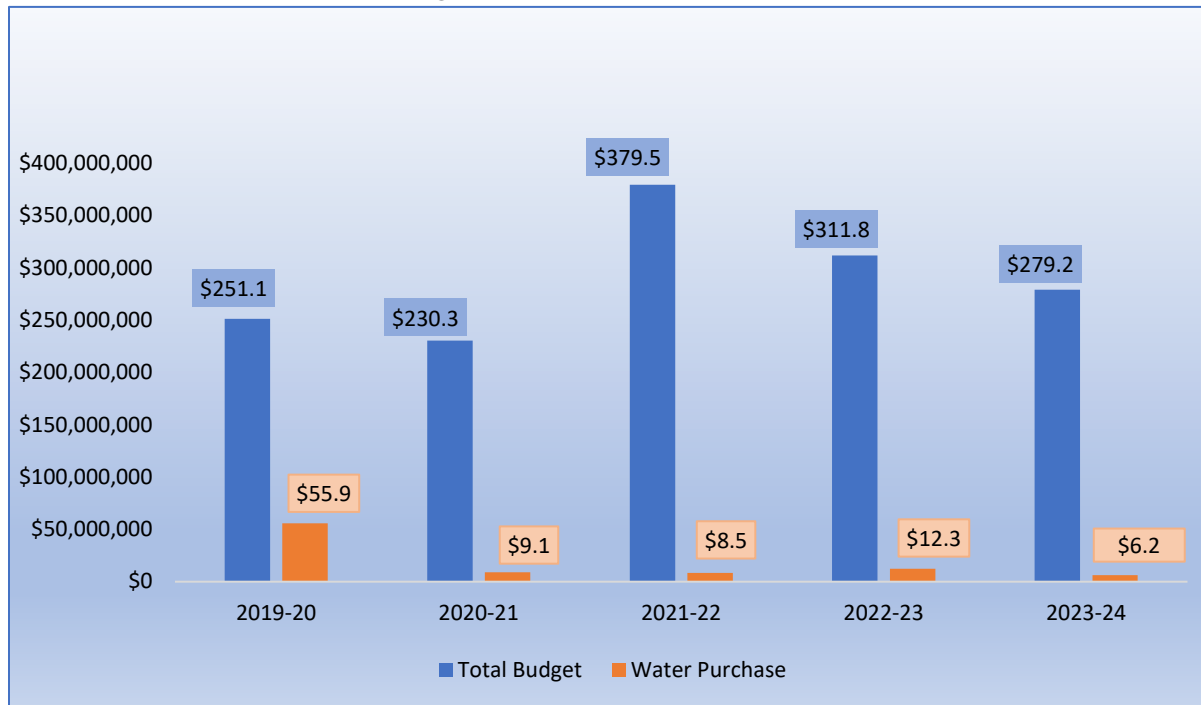
OCWD is not aware of infrastructure needs or deficiencies that exist within the aforementioned DUCs identified in Section 3.2. The retail water suppliers and mutual

water companies in those areas are responsible for operation and maintenance of the water distribution lines and laterals that bring water to individual customers and businesses. OCWD monitors the water quality of the wells and accounts for the water pumped by both large and small producers including those within the DUCs. Addressing existing or future infrastructure deficiencies to supply potable water to the identified DUCs is not the responsibility of OCWD. OCWD recharges the Basin with water for small and large producers to access regardless of where DUCs exist. OCWD is meeting the present and probable needs for potable water facilities and services of the DUCs to the extent that it is responsible for. Nonetheless, it is recommended that OCWD make available to some reasonable degree, its extensive technical resources when requested by the mutual water companies within a DUC that need help to navigate funding opportunities for system improvements.

3.4 Financial Ability to Provide Services

OCWD Board of Directors adopted the District's *Fiscal Year 2023-2024 Budget* on April 19, 2023. The total budget of \$279,170,022 represents an approximate ten and one-half percent decrease over Fiscal Year 2022-2023. The approved budget reflects the required resources to proactively manage the Orange County Groundwater Basin and improve the water quality and reliability of Orange County's local water resources at the lowest possible cost to their 19 Groundwater Producers. The approved budgets for FY 2019-2020 through 2023-2024 with the amount of purchased water are shown on Chart 8.

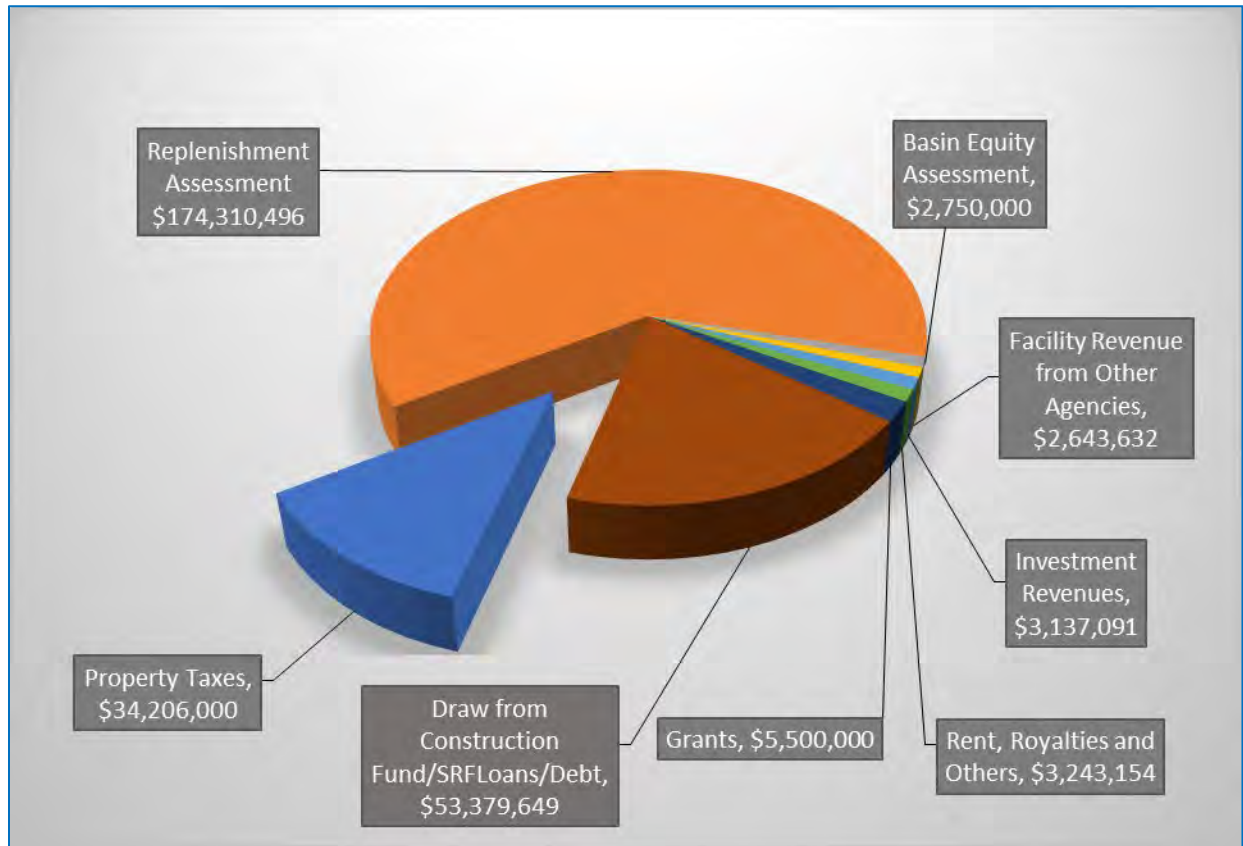
Chart 8 – OCWD 5-year Budget Totals (\$ millions)



As shown in Chart 8, since Fiscal Year 2019-2020, the District’s budget has been on a downward trend until Fiscal Year 2021-2022 when the budget increased approximately 65 percent. Most of the increase can be attributed to the 20 capital improvement projects budgeted for that fiscal year. Capital improvement projects are budgeted over a 5-year period and are paid through debt in the form of bond issuances, grants, loans, and RA revenue referred to as PAYGO. The downward trend in expenses resumed in Fiscal Year 2022-2023. A factor in the budget fluctuations from year to year is the cost of water that OCWD purchases to replenish its groundwater basin, which can fluctuate year to year depending on the groundwater basin levels. Recently, the need for purchasing imported water has been low due to cooler weather, above-average precipitation in Southern California, and a dramatic reduction in groundwater pumping.

Chart 9 shows that most of OCWD’s revenue sources for FY 2023-2024 are attributed to Replenishment Assessments levied on groundwater producers.

Chart 9 – OCWD Revenue Sources FY 2023-2024



OCWD’s revenues for Fiscal Year 2023-2024 total \$279,170,022 and include the following key categories as shown in Chart 5:

- **Assessments**

Assessment revenues come from (i) Replenishment Assessments, and (ii) Basin Equity Assessments (BEA). The Replenishment Assessment is assessed on each acre-foot of water pumped from the Basin at a current rate of \$624/AF (for FY 2023-24). Based on the established Basin Production Percentage (BPP) of 85 percent equivalent to 280,262 AF pumped, the Replenishment Assessment is expected to generate \$174.3 million in FY 2023-24. Assessments also include the Basin Equity Assessment (BEA), which is the additional fee charged by OCWD on water pumped that exceeds the BPP. The BEA is calculated for each Groundwater Producer based on the treated full service MWD water rate and each Producer’s individual energy cost to pump groundwater. The BEA is assessed each September for all groundwater pumped above the BPP. Approximately \$2.75 million of BEA revenue is expected for FY 2023-2024.

- **Ad Valorem Property Taxes**

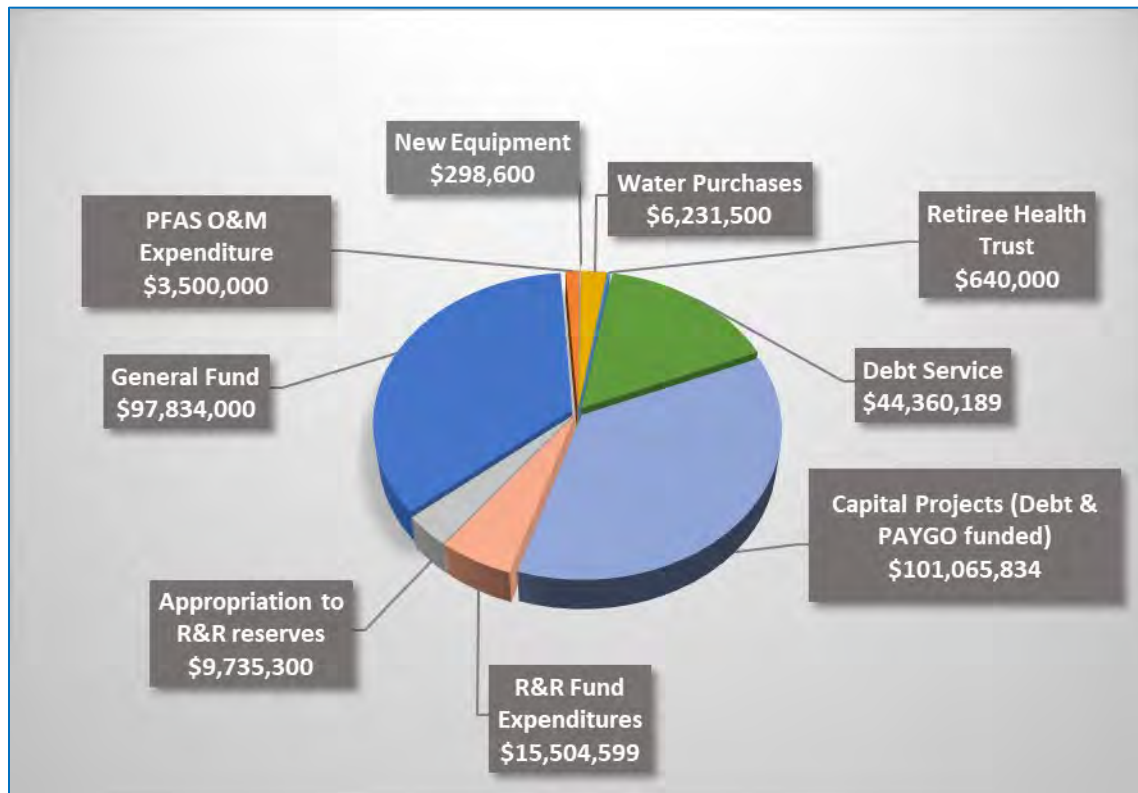
An ad valorem tax is a tax based on the assessed value of an item, such as real property. The County of Orange imposes an ad valorem tax of approximately one

percent of the assessed value of the property within its boundaries. OCWD receives a percentage of the one percent ad valorem tax imposed on all property within its Service Area. OCWD’s share of the ad valorem tax varies by Tax Rate Area (TRA) and on average is approximately 0.0081%.¹²

- **Investment Revenue**
 Revenue generated from cash reserves that have been invested into short-term securities pursuant to the District’s Investment Policy.
- **Miscellaneous Revenues**
 Include such items as annexation fees, rents and leases, other grants, and miscellaneous items.
- **Facility Revenue from Other Agencies**
 Revenue from other agencies, such as the water reclamation project that serves treated recycled water to irrigation and industrial users, referred to as Green Acres Project.

Chart 10 represents the OCWD budgeted expenditures for Fiscal Year 2023-2024.

Chart 10 – OCWD Expenditures FY 2023-24



¹² Source: Orange County Auditor Controller, *Annual Tax increment Factor by Tax Rate Area 2023-2024*, available at https://ocauditor.gov/wp-content/uploads/2023/08/AT68AH71_Section_99_Factor_Report_by_TRA_8_29_2023.pdf

OCWD's expenses for Fiscal Year 2023-2024 total \$279,170,022 and include the following key categories as shown in Chart 10:

- **General Fund**
Agency operational expenses, representing approximately 35 percent of total expenses.
- **PFAS O&M Expenditures**
Reimbursement of 50 percent share of PFAS Treatment Operating Cost.
- **New Equipment**
Capital equipment such as laboratory equipment, computers, and software, etc. This is the smallest of the expenditure categories.
- **Water Purchases**
Purchases of imported water from MWD through MWDOC.
- **Retiree Health Trust**
Funds held for agency's portion of retiree health benefits.
- **Debt Service**
Debt Service payment expenses, representing approximately 16 percent of total expenses.
- **Capital Projects**
Comprised of 19 projects and represents approximately 36 percent of total expenses. This is the largest of the expenditure categories.
- **Replacement and Refurbishment (R&R) Fund Expenditures**
Replacement and refurbishment of infrastructure type assets.
- **Appropriation to Replacement and Refurbishment (R&R) Reserves**
Replenishment of replacement and refurbishment reserves.

Debt Administration

According to OCWD's financial statements, the District has approximately \$870 million in outstanding debt as of July 1, 2023. The District uses this long-term debt, along with other funding mechanisms, to fund capital improvement projects. This policy was established in October 2000 and calls for the following:

- Preliminary project expenses related to direct research are to be paid by the General Fund and cannot be financed with long-term debt.
- Project expenses for items such as feasibility reports, pilot studies, engineer reports, compliance with CEQA, project design and construction may be capitalized and funded with long-term debt.
- Project expenses that are capitalized and funded with long-term debt and do not lead to the construction of a project will require an adjustment by the OCWD

Accounting Department to pay off the long-term debt incurred using cash reserves.

The District's Debt Management Policy (Policy No. FIN-02, November 1, 2016) allows for the following types of debt:

- Certificates of Participation (COP) and Revenue Refunding Bonds
- California State Revolving Fund Loans
- Commercial Paper
- Taxable Bonds

Debt Service budget amounts fluctuate from year to year based on debt service payment schedules and whether new debt has been issued or old debt has matured. The budgeted debt service amount for Fiscal Year 2023-2024 is approximately \$44.4 million. This debt will increase by \$2.2 million in Fiscal Year 2024-2025 when the first payment on the State Water Resources Control Board Clean Water State Revolving Fund Loan for the GWRS Final Expansion Project is due. Each debt series has its own debt service payment schedule and maturity date. In addition to the debt service payments, the District incurs debt administration costs, also factored in the annual budgeted debt service amounts.

Reserves and Fund Balances

OCWD has a District Reserve Policy in place to ensure it meets all its obligations and maintains its strong credit rating. Some reserve funds have set amounts not to exceed such as the Operating Reserve Fund (not to exceed 15 percent of the total current annual general and water reserve fund operating budget); some have minimum balances they should not fall under such as the Operating Fund (50 percent of the sum of the current annual budgeted General Fund appropriations, and current annual budgeted debt service appropriations); and some have set target levels to meet such as the Contingency Reserve Fund (not to exceed \$3 million). As the projected reserve balance drops below the target amount, then the proposed budget would increase the budgeted contribution to bring the reserves back up to target. The depleted reserves are replenished using revenue collected from the Replenishment Assessments as well as investment revenues.

According to the Annual Comprehensive Financial Reports (see Covenants and Reserve Requirements), the Designated and Operating Reserve balances during the past five fiscal years have met the requirements of the reserve policy approved by the Board.

Table 6: OCWD 4-Year Reserve Fund Balances

	2019-20	2020-21	2021-22	2022-23
Restricted Reserves	\$105,573,696	\$5,502,257	\$106,191,061	\$18,111,407
Designated Reserves Funds	\$194,163,423	\$184,471,581	\$198,740,266	\$205,196,230
Operating Funds	\$55,427,207	\$90,502,826	\$88,520,131	\$84,330,076
Total	\$355,164,326	\$280,476,664	\$393,451,458	\$307,637,713

OCWD’s Reserve Policy is categorized into three areas: restricted funds and reserves, designated reserves and funds, and operating funds.

Restricted Reserve Funds:

- **Capital Project Funds**
 This subcategory was established for proceeds from bond issuances or any other debt financing and is used for the District’s capital projects and capital improvements. These funds are restricted to specific capital projects which are authorized and approved by the Board of Directors.
- **Debt Reserve Funds**
 This subcategory was established for various bond issues. These funds are not available for the general needs of the District and must be maintained at specific levels and are restricted by certain bond covenants.
- **Basin Equity Assessment (BEA) Funds**
 This subcategory was established for funds received from the levy of the District’s BEA. These funds are to be used only for the purchase of water for the purpose of groundwater replenishment and/or to reimburse producers assigned pumping limitations pursuant to the District Act.

Designated Reserve Funds:

- **Toxic Cleanup (Emergency Response Fund/Environmental Remediation Fund)**
 This subcategory was established for toxic spill emergencies and cleanup. The current target level is \$4 million and is to be replenished annually after the adoption of the annual OCWD budget. Funds totaling \$3.528 million will have been collected from the lessee over a 30-year term.

- **Contingency Reserve Fund**

This subcategory was established by the District Act to provide for expenditures that have not been anticipated or provided for in the District's annual budget. The money for this fund is to be allocated from the Operating Fund and the Water Reserve Fund at the beginning of each fiscal year. The level of this fund as established by the District Act is not to exceed \$3 million.

- **Capital Fund (PAYGO)**

This subcategory was established for proceeds from Replenishment Assessment revenues earmarked towards the capital improvement program as opposed to financing all the District's capital expenditures and has no legal restrictions such as bond proceeds would.

- **State Revolving Fund Loan Debt Service Reserve Fund**

This subcategory was established as an unrestricted reserve as a condition of the low-cost State Revolving Fund loans equal to one year's debt service.

- **Water Reserve Fund**

This subcategory was established by the District Act to accumulate any excess general assessment, or unexpended funds, other than funds allocated to the operating reserve or operating contingencies by the Board of Directors. These funds can be used for the purchase of supplemental water for groundwater replenishment, acquiring, constructing, or developing any groundwater intrusion prevention projects, pipelines, wells, or other works necessary for the purposes of the district. This fund shall be designated only for purchases of supplemental water in order to have funds set aside and available. This will provide accountability and transparency to the Board and Groundwater Producers on funds collected and spent on water purchases. The maximum upper limit is set at enough funds to purchase 50 percent of water needed to have an accumulated basin overdraft of 125,000 AF.

- **Operating Reserve Fund**

This subcategory was established by the District Act and allocated from the general fund to be used to meet the cash flow needs of the District before the proceeds of taxes or Replenishment Assessment collections are available to meet emergency expenditures for operations, maintenance, and the debt service payments of the District. The level of this general operating reserve as established in the District Act shall not exceed 15 percent of the total current annual general and water reserve fund operating budget.

- **Replacement and Refurbishment Fund**

This subcategory was established for replacement or refurbishment (R&R) of existing District facilities, to be equal to thirty years of projected replacement

and refurbishment costs as defined in the District's R&R model. This differs from the budget for capital projects in that capital projects typically enhance, expand, or build/purchase a new asset.

Operating Funds (Water Replenishment Fund):

- **Operating Cash, Replenishment Assessment, and Annual Debt Payments**

This subcategory was established for funds collected and received from the levy of the District's Replenishment Assessment. These monies shall be sufficient to enable the District to carry out any of the projects or purposes of the District as deemed by the Board of Directors. It can also include the expenditures necessary for the maintenance, operation, and repairs of works and projects of the District as authorized by the Board of Directors. The funds can also be used for the purchase of supplemental water, and the replenishment of groundwater supplies within the District. The District shall maintain a minimum balance equal to fifty percent of the sum of the (i) current annual budgeted General Fund appropriations, plus (ii) current annual budgeted debt service appropriations.

OCWD has demonstrated that it is able to support the servicing needs of its Service Area. The revenue sources continue to meet the expenses and are able to adapt to changing needs due, in large part, to the flexible Replenishment Assessment revenues.

3.5 Status of, and Opportunities for, Shared Facilities

The following Table 7 is a summary of the major agreements OCWD has entered into with other agencies to share facilities and/or services. This table identifies shared opportunities that involve arrangements with OCWD and other agencies for services that otherwise would have been provided by the agency but partnering with OCWD creates benefits, efficiencies, or makes them cost-effective.

Table 7: Description and Status of OCWD Agreements

Partner Entity(ies)	Subject Facility(ies)	Form of Agreement	Term of Agreement	Description	Status
15 Groundwater Producers (a subset of the 19 Groundwater Producers)	Production wells	Contract	Producers will own/operate treatment system for 30 years.	Groundwater Producer-OCWD PFAS Agreement based on OCWD policy dated Nov. 22, 2019 to construct PFAS treatment systems for impacted Producers who want to participate.	In-progress and expected to expand.
Irvine Ranch Water District, Orange County Sanitation District	Green Acres Project	Contract	15 years	OC San provides treated wastewater that OCWD treats further. Includes intertie to Irvine Ranch Water District's recycled water distribution system.	Operational
Irvine Ranch Water District, Municipal Water District of Orange County, and South OC Water Agencies*	South OC Emergency Services Program	Contract	Executed Nov. 14, 2008. Up for renewal in December 2029	Used for emergencies and planned MWD operational shutdowns. IRWD would supply up to 50 cfs for up to 30 days (3,000 AF) to the 5 South OC Agencies. They would pay IRWD for the water but no compensation goes to OCWD. The amount of water being sent is very small compared to the Basin's operation.	Whether or not this is renewed, OCWD is planning for a second emergency program with City of Santa Ana and Moulton Niguel Water District.
*South OC Water Agencies include City of San Clemente, Laguna Beach County Water District, Moulton Niguel Water District, Santa Margarita Water District, and South Coast Water District.					
Los Angeles County Flood Control District, the Water Replenishment District, & City of Long Beach	Alamitos Barrier Project	Contract	No end date given	Operate joint venture of facilities necessary to prevent, control, and correct intrusion of sea water into groundwater supplies of Central Basin in LA County and the OC Basin through the Alamitos Gap Area.	As long as there is pumping of the Basin and an ocean, this will continue. WRD has ample capacity in their water treatment facility for additional supply for injection wells along the Alamitos seawater barrier.

Partner Entity(ies)	Subject Facility(ies)	Form of Agreement	Term of Agreement	Description	Status
Municipal Water District of Orange County	Agreement and Lease executed April 15, 1987	Contract	Agreement and Lease has a 50-year term from April 15, 1987 through April 15, 2037.	OCWD owns all of the land at its Fountain Valley headquarters, including the land under the OCWD and MWDOC buildings (collectively, the “Office Facilities”). OCWD owns about 66% and MWDOC owns 33% of the Shared Office Facilities. OCWD leases 50% of the land under the Office Facilities to MWDOC.	Still current. MWDOC has the option, at its sole discretion, to extend the term of the Agreement and Lease for periods of 15 years.
Orange County Sanitation District	Ground Water Replenishment System	Contract	Upon dissolution	Cost-share of Phase 1; OC San provides secondary treated wastewater at no charge and built a pump station; OCWD manages and funds the GWRS operations. Partners in public outreach and grant procurement.	Functional and successful though limited by what OC San can provide. Advanced treatment capacity expanded in 2023 from 100 to 130 mgd. Additional expansion not proposed at this time.
Santa Ana Watershed Project Authority (SAWPA)	n/a	Joint Exercise of Powers Agreement dated 1975	Upon dissolution	Create a public agency with Inland Empire Utilities Agency, and San Bernardino Valley, Eastern and Western Municipal Water Districts to undertake projects for water quality control, pollutant abatement in the SAR Watershed using funds contributed by member agencies and grants and by issuing articles of indebtedness to finance project costs.	OCWD continues to be a member agency of SAWPA.

Partner Entity(ies)	Subject Facility(ies)	Form of Agreement	Term of Agreement	Description	Status
SAWPA Partner Agencies and The Metropolitan Water District of Southern California	Santa Ana River Conservation and Conjunctive Use Program water bank (SARCCUP)	Contract	Construction deadline: July 31, 2025 Operations contract	Prop. 84 grant between SAWPA and DWR. OCWD can store up to 36,000 AF for dry years from surplus State Project Water from MWD (extraordinary supply water) and imported water (local water). Both types of water are tracked and can be used in dry years.	Started 2021. \$128 million project. \$8 million provided to 5 Producers for 5 additional wells. 2,000 AF from WY 20-21 in the bank. Partners committed to making surplus SARCCUP water available for MWDOC.
The Metropolitan Water District of Southern California, Cities of Buena Park, Garden Grove, Orange, Santa Ana, Westminster, Yorba Linda Water District, Golden State Water Co., and Municipal Water District of Orange County	MWD Long-Term Groundwater Storage Program	Contract	Ending 2028	Conjunctive use program allows MWD to store up to 66,000 AF of water in the Basin in wet periods to be pumped in dry periods, droughts, or emergencies by groundwater producers in place of receiving imported water supplies during water shortage events. MWD funded 8 wells, improvements to seawater intrusion barrier, and constructed Diemer Bypass Pipeline to redirect lower-salinity imported water from State Water Project to OCWD recharge basin and pays an annual administrative fee.	25-year agreement starting 2003 with goal of 20 billion gallons for dry years and emergencies. Goal is on-track to be met. Cumulative water purchased since WY02-03 is 42,243.1 AF via Forebay Recharge and 57,100.8 AF via In-Lieu Delivery.
U.S. Army Corps of Engineers	Prado Dam & wetlands	Project-by project contracts	Depends on the terms of the project	Various collaborations since construction of Prado Dam in 1941 to increase the volume stored behind the dam and eventually delivered to the Basin.	Ongoing. Currently partnering on Forecast-Informed Reservoir Operations (FIRO) and sediment removal from behind the dam to maximize water conveyed to OCWD facilities with estimated increase of water captured by 7,000 AFY.

Opportunities for Shared Facilities

The following are opportunities that were made known during preparation of this report for OCWD to share facilities:

- Announced in early January 2023, OCWD received funding from U.S. Bureau of Reclamation for two research projects to test water treatment technologies. The results are anticipated to improve not only the District's future operations and ability to safely recharge the Basin, but the results will be shared with Producers.
 - The first project, "In-Situ Gravity Driven Removal of PFAS During Groundwater Recharge to Protect Drinking Water," will evaluate the performance of an engineered adsorbent media when installed into the ground for the passive removal of PFAS in impacted surface waters that are used to recharge groundwater supplies. Awarded \$199,430 in funding, OCWD is the project lead and will collaborate with technical advisors from Colorado School of Mines and Jacobs.
 - The second project, "Improving RO [reverse osmosis] Recovery through Optimization of Flux and Pump Usage with Real-Time Sensor Connectivity, Data-driven Modeling, and Automation," is in partnership with Hazen and Sawyer who was awarded \$197,294 in funding. OCWD is supporting the research on site as a test bed location. The project aims to develop predictive algorithms with automated process controls that can optimize RO operational settings to reduce energy, maximize production, and minimize chemical costs while reducing membrane fouling and scaling. RO is the heart of the three-step GWRS advanced purification process.
- OCWD is currently studying the possibility of developing a second emergency water connection to South Orange County water agencies. This may replace or add to the existing emergency water connection via Irvine Ranch Water District. Discussions are underway with Moulton Niguel Water District and City of Santa Ana for the proposed connection. This is to prepare for the potential sunset of the existing emergency agreement via Irvine Ranch Water District in December 2029.
- OCWD is currently studying the extent of seawater intrusion in the City of Huntington Beach at "The Sunset Gap" located between Landing Hill and Bolsa Chica Mesa. OCWD Budget for FY 2023-2024 indicates a plan is being developed to address the issue including potentially building the District's third seawater intrusion barrier.
- PFAS will be a significant focus for OCWD in the immediate future because of the number of wells that lack treatment in areas where PFAS concentrations are known to exist. The District currently estimates up to 102 wells could be impacted

at a cost to OCWD of \$550 million.¹³ Therefore, to head off the shock of significant increases in the RA for local retail water suppliers to pay for PFAS treatment (estimated at 10 percent per year for 2-3 years), OCWD is pursuing several grant opportunities to fund PFAS treatment projects on behalf of its Groundwater Producers. OCWD has also budgeted to pay for 50 percent of all treatment system operation and maintenance (O&M) costs. Awarded grant applications are:

- Orange County Regional PFAS Groundwater Treatment Program: Cities of Garden Grove and Santa Ana Projects; Proposition 1 Grant amount awarded is \$4,200,000.
- OCWD has received a \$5,000,000 federal earmark for PFAS.
- Grant applications for the State Water Resources Control Board Drinking Water State Revolving Fund (DWSRF), “State FY 2023-2024 DWSRF Comprehensive List” for treating PFAS are listed below. The following projects have been included in the FY 2024-2025 Intended Use Plan Emerging Contaminants Fundable List:¹⁴
 - City of Tustin PFAS Water Treatment Plant Project (\$5 Million grant)
 - City of Orange Wells 20, 21 and 22 PFAS Treatment Systems Project (\$4 Million grant)
 - City of Fullerton Main Plant PFAS Water Treatment Plant Project (\$5 Million grant)
 - East Orange County Water District PFAS Water Treatment Plant Project (\$5 Million grant)
 - Irvine Ranch Water District Well OPA-1 PFAS Treatment System Project (\$3.15 Million grant)
 - City of Anaheim PFAS Water Treatment Systems Project (\$5 Million loan)
 - City of Santa Ana Wells 27 and 28 PFAS Water Treatment Systems Project (\$4 Million grant)
 - City of Garden Grove Wells 22 and 25 PFAS Water Treatment Systems Project (\$6 Million grant)

¹³ U.S. EPA announced on April 10, 2024 the final National Primary Drinking Water Regulation for six PFAS with an enforceable level of 4.0 parts per trillion (ppt) for PFOA and PFOS. The final rule requires: (1) Public water systems must monitor for the 6 PFAS and have three years to complete initial monitoring (by 2027), followed by ongoing compliance monitoring. Water systems must also provide the public with information on the levels of these PFAS in their drinking water beginning in 2027; (2) Public water systems have five years (by 2029) to implement solutions that reduce these PFAS if monitoring shows that drinking water levels exceed these MCLs; and (3) Beginning in five years (2029), public water systems that have PFAS in drinking water which violates one or more of these MCLs must take action to reduce levels of these PFAS in their drinking water and must provide notification to the public of the violation. (<https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas>)

¹⁴ Source: Section XII.

https://www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/docs/2024/2024-25-supp-iup-ec.pdf

- City of Huntington Beach PFAS Water Treatment Systems Project (\$6 Million grant)
- City of Westminster PFAS Water Treatment Systems Project (\$5.5 Million grant)
- Golden State Water Company Wells SCK5 and SBCH PFAS Water Treatment Systems Project (\$5 Million grant)
- The “PFAS O&M Expenditure” is budgeted at \$3.5 million. This is consistent with the District’s plan to install well head treatment systems incrementally over a multi-year (2.5 years) period, grant awards are often received long after (0.5-1 year) they are applied for, and other funding methods are available including low-interest loans and reserves:
- OCWD and MWDOC continue to share the same office property at 18700 Ward Street in Fountain Valley and, in turn, both benefit from sharing maintenance and overhead costs. The arrangement is spelled out in the Agreement and Lease document, which says the District owns all the land at its Fountain Valley headquarters, including the land under the OCWD and MWDOC buildings (collectively, the “Shared Office Facilities”). OCWD and MWDOC jointly own the Shared Office Facilities: OCWD owns about 66 percent and MWDOC owns about 33 percent. OCWD leases 50 percent of the land under the Office Facilities to MWDOC (PC(3)). Furthermore, as part of OCWD’s application to OC LAFCO to prepare this MSR and SOI update, Chapter 5 of this report includes findings of a feasibility study for consolidation between the two agencies.

3.6 Accountability for Community Service Needs

The OCWD Board of Directors represents the interests of 2.5 million residents and the Groundwater Producers within the limits of the District Act.

Governmental Structure

OCWD is divided into 10 Divisions as specified in the District Act. Divisions 1 through 7 hold elections for their Board representative. The method of electing directors was modified by the 1967 amendments to the OCWD Act, which put the vote in compliance with the general election voting laws (California Codes). After this, directors in Divisions 1 through 7 were elected in the geographic regions on the basis of one vote per registered voter. The boundaries of the 10 Divisions are shown on Figure 3. Division boundaries can be adjusted by resolution pursuant to Chapter 8 (commencing with Section 22000 of Division 21 of the California Elections Code).

When the Cities of Anaheim, Fullerton, and Santa Ana were extended membership into OCWD, the cities were considered as individual units, and the boundary of their Divisions was based on the city boundary. These three cities make up Divisions 8, 9 and 10. Each city's governing board (city council) is permitted to name a director that will serve the same term as the elected directors. Therefore, no direct vote of the residents is required within these cities. (OCWD 2014, p. 26)

Appointed members of the Board from Divisions 8, 9, and 10 serve a four-year term and may be removed at any time and without cause by the majority vote of the appointing governing body (OCWD Act, Section 12(b)). Elected members of the board in Divisions 1 through 7 also serve four-year terms and may be re-elected without limits. (OCWD Basin 8-1 Alternative, p. 2-3)

The Board of Directors meets twice a month, normally on the first and third Wednesdays of the month. Board committees also meet on a monthly basis. These committees include the Water Issues, Communication/Legislation, Administration/Finance, Property Management and Retirement. (OCWD Basin 8-1 Alternative, pp. 2-3, 2-4)

OCWD's governing structure is designed to give fair representation of the groundwater producers from within the ten Divisions. The 10 Divisions are comprised of the following areas (OCWD Basin 8-1 Alternative, pp. 2-4, 2-5):

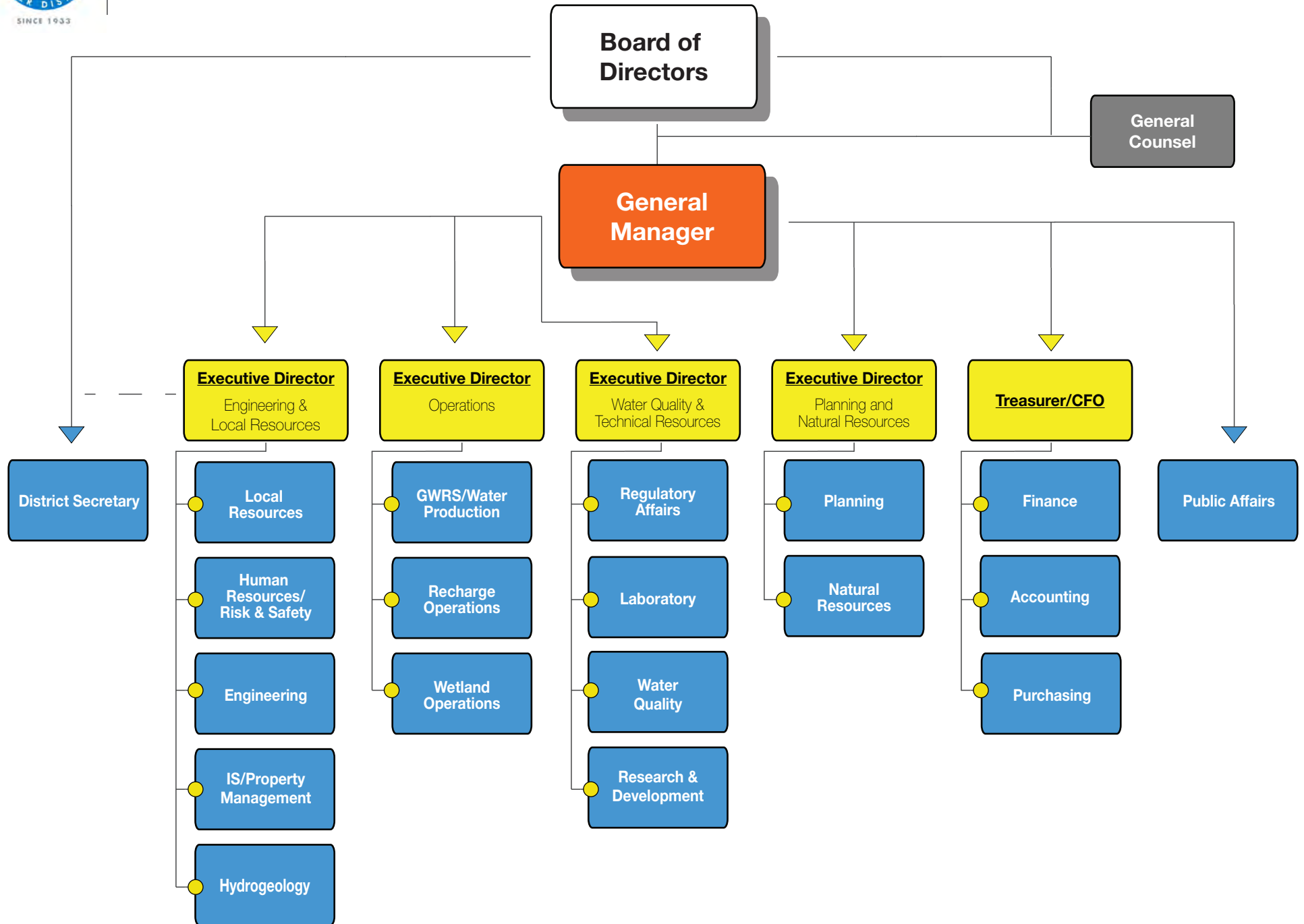
- Division One: Garden Grove, Stanton, Westminster
- Division Two: Orange, Villa Park, and parts of Tustin
- Division Three: Buena Park, La Palma, Placentia, Yorba Linda, and parts of Cypress
- Division Four: Los Alamitos, Seal Beach, and parts of Buena Park, Cypress, Garden Grove, Huntington Beach, Stanton, and Westminster
- Division Five: Parts of Irvine and Newport Beach
- Division Six: Parts of Fountain Valley and Huntington Beach
- Division Seven: Costa Mesa and parts of Fountain Valley, Irvine, Newport Beach, and Tustin
- Division Eight: Santa Ana
- Division Nine: Anaheim
- Division Ten: Fullerton

The 19 Groundwater Producers meet on a monthly basis with OCWD staff.

The OCWD organizational chart for 2023 is shown on the following page.



Organizational Structure



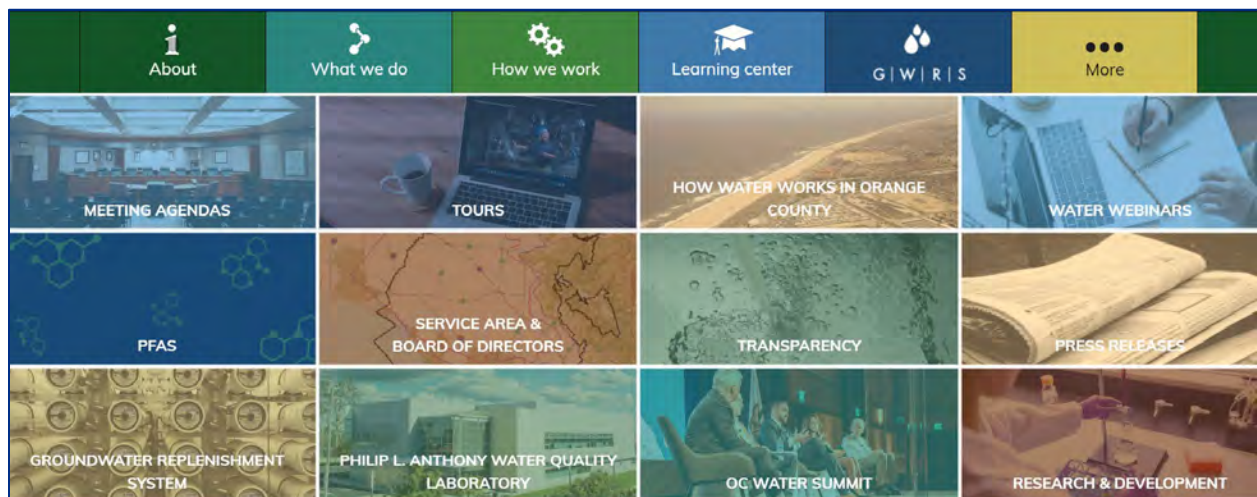
OCWD uses the expertise of many consultants to support its staff, including outside legal counsel, civil engineering consultants to design and oversee construction, landscape maintenance, employee development, safety programs, and more so that OCWD maintains full-time staffing of core employees. As of July 1, 2023, OCWD maintains 226.5 full-time positions in the departments shown on the organization chart on the prior page.

OCWD staff attend many meetings to gather information and further the interests of the District, including, the Association of California Water Agencies (ACWA), the California Special Districts Association (CSDA), the Independent Special Districts of Orange County (ISDOC), The Metropolitan Water District of Southern California (MWD), the Orange County Water Association (OCWA), the Orange County Business Council (OCBC), the Regional Water Quality Control Board (RWQCB), the Santa Ana Watershed Project Authority (SAWPA), and the Water Advisory Committee of Orange County (WACO).

OCWD staff and lobbyists meet with county, state, and federal representatives to petition for funding opportunities; specifically, they meet with newly elected legislators every two years after the November election cycle.

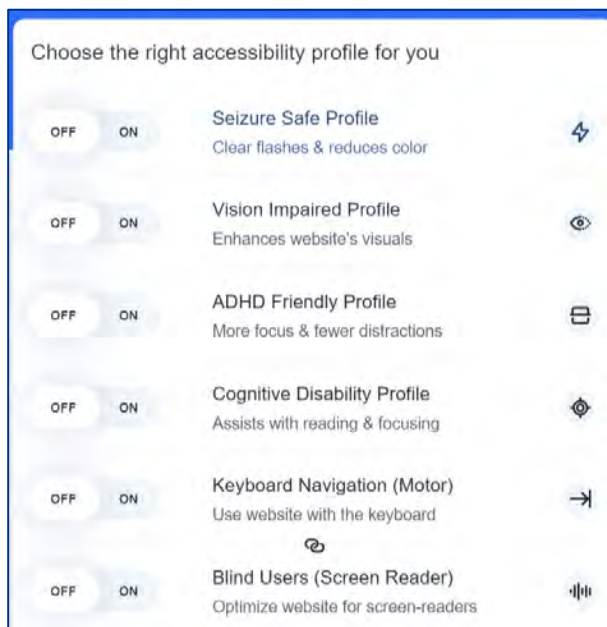
Accessibility, Accountability, and Transparency

The District's website (www.ocwd.com) offers a wide range of information on the District, as well as links to the retail water suppliers within its boundary for the public (see screenshot of Home Page, below).



Snapshot of www.OCWD.com website home page (dated November 7, 2023).

The OCWD Transparency webpage that is accessed through the Home Page shown above, provides access to financial documents (i.e., Annual Budget Reports, Annual Comprehensive Financial Reports, Audits, Annual Rate Assessment, Basin Pumping Percentage, and Statement of Revenues and Expenses), compensation and human resources (i.e., Board stipends and compensation, General Manager’s compensation, Salary Structure, CA state Controller’s Reports, How to Apply for a Job, Memorandum of Understanding between the District and OCWD Employees Association, and Personnel Manual), water quality and other reports (i.e., GWRS Annual Reports, Environmental Impact Reports and other public notices, local retail agencies’ water quality reports, engineer’s and groundwater recharge reports, groundwater level contour maps, and studies/publications), ethics (i.e. Conflict of Interest code, Board members and divisions, Board reporting forms), policies and procedures (i.e., Media Policy Rules of Order, Social Media Code of conduct, ticket distribution policy and Board of Directors policies and procedures), and instructions on how to make a public records request. The website also includes agendas, minutes, list of Board committees, the public comment policy, Brown Act, District Act, and a sign-up for public meeting email notices for Board of Directors meetings. As stated on the website, “Agendas for [Board of Directors] meetings are posted a minimum of 72 hours in advance of the meeting. OCWD welcomes productive dialogue with its governing board, utility partners, community



leaders, and the public. Visitor participation is included at all agendized meetings. During this time, members of the public may offer public comment for up to three minutes.” Furthermore, the OCWD website allows for Accessibility Adjustments, such as those shown in the snapshot to the left, as well as Content Adjustments, Color Adjustments, and Orientation Adjustments. The District also uses YouTube and social media outlets like LinkedIn, Facebook, Instagram, and Twitter. The OCWD Board Secretary’s Office ensures compliance with all state laws regarding access to public meetings, public documents, financial disclosure laws, and the Brown Act.¹⁵

¹⁵ The Ralph M. Brown Act was enacted in 1953 (“Open Meeting Law”) to guarantee the public’s right to attend and participate in meetings of local legislative bodies (Gov. Code Section 54950).

California Elections Code 22000-22002 requires OCWD to adjust the boundaries of Board Divisions 1 through 7 based on the 2020 census data in order to, as far as practicable, equalize the populations in each of these Divisions. Factors such as topography, geography, cohesiveness, and communities of interest in the District may be considered. Boundary adjustments to all Divisions 1 through 7 were recommended by staff and approved by the OCWD Board of Directors in Resolution No. 22-4-31 (April 6, 2022) following three public hearings (Staff Report, March 16, 2022).

3.7 Other Matters Related to Efficient Service Delivery

In its application to OC LAFCO for an MSR and SOI Update, OCWD requested a feasibility study of a consolidation with MWDOC. The purpose of the feasibility study is to analyze certain aspects of the two agencies using multiple factors to find whether efficiencies in the provision of services could exist upon combining the two wholesale water agencies. Therefore, this MSR includes said analysis with findings; no conclusions or recommendations are provided.

MSR STATEMENT OF DETERMINATIONS

The municipal services provided by OCWD were first comprehensively reviewed by OC LAFCO in 2006. The MSR determinations for OCWD were reviewed and reconfirmed in 2008 and 2013. This section includes the Statement of Determinations for the 2024 comprehensive review of municipal services provided by OCWD. The seven statutory determinations are examined in more detail in Chapter 3 of this report.

RECOMMENDATION:

Staff recommends the Commission adopt the MSR Statement of Determinations for the Orange County Water District as shown on *Exhibit 1* (next page).

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Exhibit 1
Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

MSR DETERMINATION 1: Growth and Population Projections for the Affected Area

The Orange County Water District (OCWD) sphere of influence (SOI) encompasses 569 square miles including 52 square miles of ocean, 125 square miles of unincorporated Orange County, and includes 27 cities in the northern and central portions of Orange County. Within its Service Area of 430 square miles, OCWD manages the Orange County Groundwater Basin (Basin) and acts as a wholesale groundwater supplier to the retail water suppliers of northern and central Orange County. The Basin provides approximately 85 percent of the drinking water supply to the people within its Service Area.

OCWD has no land use authority and therefore relies on the information provided by the county and cities within its Service Area to estimate future changes in population and land use in order to forecast water demands on the Basin. The District also uses demographic data including projections of population, housing, and employment produced by the Center for Demographic Research (CDR) at California State University, Fullerton. According to CDR, the population of the OCWD Service Area is 2.44 million people as of 2020, which is projected to increase to a peak of 2.55 million people by 2045. (CDR's projection is based on the OCWD Service Area and not the entire sphere of influence of OCWD.) Based on the current and projected increase of approximately 4.5 percent over 25 years, there will be a continuing need for groundwater supplies and OCWD's management of the Basin.

OCWD prepares forecasts of water demands in its annual *Engineer's Report* and periodically in the *Groundwater Management Plan* based on recorded water use patterns and expected constraints on groundwater quality. The retail water suppliers within the Service Area ("19 Groundwater Producers") also prepare forecasts of water demands within their respective service areas and communicate their expected groundwater pumping to OCWD. The present and future needs provided by OCWD are addressed in the annual *Comprehensive Annual Financial Report (CAFR)*, *Annual Budget Report*, and annual *Capital Improvement Program (CIP)*. The CIP is a multiyear plan of improvements to the District's infrastructure taking into account District priorities, policies, and budget.

Exhibit 1

Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

Based on review of the data, water demands within OCWD Service Area are expected to be met over the planning horizon of this MSR analysis including the future increase in population, given the following factors: (1) the District's collaboration with CDR to proactively monitor demographic changes in the Service Area and in particular, population growth; (2) District projections accounting for future growth in each Groundwater Producer's service areas; and (3) the District's demonstrated ability to meet greater water demands in the past as compared to current water demands.

MSR DETERMINATION 2: The Location and Characteristics of Any Disadvantaged Unincorporated Communities Within or Contiguous to the Affected Sphere of Influence

The Center for Demographic Research at California State University, Fullerton (CDR) provided information on census block boundaries and the current statewide median household income threshold, from which 11 Disadvantaged Unincorporated Communities (DUCs) within the OCWD sphere of influence (SOI) were identified. Specifically, the DUCs are located within OCWD Division 1 and the SOIs of the Cities of Anaheim, Stanton, and Westminster. The DUCs receive water service from the Cities of Anaheim and Westminster and Golden State Water Company, as well as several private mutual water companies (Hynes Estates Mutual Water Company, Midway City Mutual Water Company, Eastside Water Association, and South Midway City Mutual Water Company). The Cities of Anaheim and Westminster as well as Golden State Water Company are three of the 19 Groundwater Producer Agencies of OCWD. The DUCs total 0.85 square mile (541 acres) and are part of larger urban communities with land uses dominated by residential, commercial, industrial, and recreational uses.

MSR DETERMINATION 3: Present and planned capacity of public facilities, adequacy of public services, and infrastructure needs or deficiencies including needs or deficiencies related to sewers, municipal and industrial water, and structural fire protection in any disadvantaged, unincorporated communities within or contiguous to the affected Sphere of Influence.

OCWD was created by a special act of the state legislature in 1933 (the OCWD Act) to manage the Orange County Groundwater Basin (Basin) for the Groundwater Producers. Therefore, in order to balance the effects of groundwater pumping, OCWD

Exhibit 1

Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

has facilities to maximize recharge of the Basin using local surface water, stormwater runoff, reclaimed wastewater, and imported water supplies. OCWD does not directly serve water to retail customers, such as homes and businesses; therefore, OCWD's facility capacity and sufficient infrastructure relates to water reclamation and recharge facilities for OCWD to fulfill its mandate in the OCWD Act to sustainably manage the Basin.

Managing 85 percent of the water supply for the 2.44 million residents of northern and central Orange County, OCWD performs deliberate planning efforts for maintaining its infrastructure through its Replacement and Refurbishment (R&R) Model. The R&R Model is user-driven and proprietary; it tracks the useful life spans of all the District's infrastructure to prioritize facilities that need repair or replacement. The R&R Model forecasts into the future how much budget will be required for repairs and the annual contribution to the R&R fund increases each year to reflect the increasing costs of maintenance. According to the R&R Model, sufficient funds will be available for maintenance of infrastructure for the next 25 years.

During WY 2022-2023, the Basin showed a net increase of 69,000 acre-feet (AF) attributable to OCWD's network of 25 recharge basins capturing higher-than-average rainfall, and less than expected pumping rates attributable to the presence of PFAS. In regard to capacity, OCWD has several water rights and entitlements to water supplies. OCWD is pursuing an expansion of its water rights to the Santa Ana River flows based on additional capture and storage projects that it recently completed. OCWD also has an entitlement to purchase an amount of imported water up to that which it can recharge, which is a maximum of 300,000 AF (if all of the recharge basins are empty). OCWD has an entitlement to recycled water produced from its Groundwater Replenishment System (GWRS) up to 130 million gallons per day, dependent on the flows received from Orange County Sanitation District (OC San). Based on the results of the water supplies acquired and recharge that occurred in WY 22-23, it can be reasonably determined that the OCWD facilities have sufficient capacity to recharge the Basin.

A total of 11 DUCs have been identified within OCWD. All of the DUCs are located in OCWD Division 1, within the SOIs of the Cities of Anaheim, Stanton, and Westminster. Retail water service is provided to the DUCs by the Cities of Anaheim and Stanton and Golden State Water Company, as well as four mutual water companies (Hynes Estates

Exhibit 1

Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

Mutual Water Company, Midway City Mutual Water Company, Eastside Water Association, and South Midway City Mutual Water Company). Although the DUCs are located within the Service Area of OCWD, it is the responsibility of the public and private water suppliers to provide adequate water service to the individual customers, including areas identified as DUCs. The retail water suppliers are also responsible for addressing deficiencies in their production, treatment, and distribution systems, including seeking assistance from the State or neighboring agencies. The purpose of this study is not to assess the retail water systems' ability to provide water to their customers. Notably, nothing in the OCWD Act appears to limit OCWD's ability to assist public or private water suppliers within its jurisdiction, including those in disadvantaged communities. The wells owned by the mutual water companies that serve the DUCs are monitored as part of OCWD's Monitoring Program. The California Department of Public Health regulates the water quality of private mutual water companies. The monitoring, record-keeping, and water testing efforts OCWD is providing to these small producers are services that benefit their customers' ability to have water and, in turn, is part of the Basin management OCWD must perform to meet its charge. Because OCWD monitors the water quality of the wells and accounts for the water pumped by both large and small producers including those within the DUCs when making its water demand and water supply projections, and OCWD recharges the Basin with water for small and large producers to access regardless of where DUCs exist, OCWD is meeting the present and probable needs for potable water facilities and services of the DUCs to the extent that it is responsible for. Nonetheless, it is recommended that OCWD make available to some reasonable degree its extensive technical resources when requested by the mutual water companies within a DUC that need help to navigate funding opportunities for system improvements.

The Basin is estimated to hold, when full, roughly 66 million AF of water; however, OCWD limits overdrafting the basin to 500,000 AF. When more than 500,000 AF is removed for longer than a temporary, emergency scenario, adverse effects can occur including seawater intrusion, land subsidence, increased pumping costs, and upwelling of amber colored water. As such, OCWD manages the Basin to keep it at 150,000 to 200,000 AF less than full, which is a little less than one-half of maximum draw down amount of 500,000 AF. Groundwater in the equivalent elevation range keeps seawater from intruding anymore inland than existing, minimizes risk for subsidence, pumps can continue to pump, and amber-colored water stays in the Deep Aquifer.

Exhibit 1
Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

All pumpers are charged a flat Replenishment Assessment (RA) fee per AF produced. The OCWD Board of Directors issues a Basin Production Percentage (BPP) to pumpers each year that gives them an idea of how much of their total water demands can be met by groundwater. The BPP is currently 85 percent (increased from 77 percent in February 2023). Pumpers who exceed the BPP pay an additional fee called the Basin Equity Assessment (BEA). The combination of the RA, BPP, and BEA are the financial tools OCWD uses to manage the amount pumped from the Basin. However, in recent years a larger influence on pumping rates has been the presence of PFAS chemicals in the groundwater. Pumpers have turned off their wells until treatment systems are installed and, in the meantime, meet customer demands with imported water purchased from the local imported water wholesaler, Municipal Water District of Orange County (MWDOC).

The primary constraint on OCWD's management of the Basin currently and in the future is water quality; specifically, adding treatment systems for PFAS chemicals on Groundwater Producer's wells that need them. The RA has been increased approximately 10 percent each year for the last 3 years to fund the wellhead treatment systems. OCWD has also applied for many grant opportunities to defray the cost to the District and its 19 Groundwater Producers. Another water quality constraint is seawater intrusion; OCWD is planning for a third seawater intrusion barrier. A third constraint for the District is the inability at this time is to capture all of the anticipated storm flows from the Santa Ana River. OCWD applied for a water rights permit for up to 505,000 AFY from the State Water Resources Control Board that would capture the majority of storm flows. The District was granted 362,000 AFY based on the existing facilities and is pursuing additional rights in order to reach 505,000 AFY.

Based on the information provided for this study, it is determined that the present and planned capacity of OCWD's facilities are sufficient; the public services it provides are adequate; and the aforementioned water quality constraints that exist are being addressed cooperatively with retail water suppliers within a reasonable response time to meet anticipated regulations so that OCWD can continue managing the Basin.

Exhibit 1
Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

MSR DETERMINATION 4: Financial ability of agency to provide services.

The OCWD Fiscal Year 2023-2024 Budget was adopted by the Board of Directors on April 19, 2023, with a total budget of \$279.2 million, which represents a decrease of 10.5 percent from the previous year. OCWD's audited budget reports demonstrate that the District is able to maintain a balanced budget, fully funded reserves, and fund capital improvement projects. The District is able to meet all its budgeted expenses and obligations and maintain an AAA credit rating with Fitch and Standard and Poors. Replenishment Assessments represent over 62% of total revenues in Fiscal Year 2023-2024 and can and do increase annually when necessary to help ensure revenues meet expense requirements. This flexibility along with its other revenue sources, budgeted reserves and great credit ratings put OCWD in a stable financial position to continue providing services to its customers.

MSR DETERMINATION 5: Status of, and opportunities for, shared facilities.

OCWD partners with many entities on projects that benefit and further the goals of the OCWD Act. This includes, but is not limited to, OC San, the 19 Groundwater Producers (13 Cities of Anaheim, Buena Park, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, La Palma, Newport Beach, Orange, Santa Ana Seal Beach, Tustin, and Westminster, and 6 water agencies, East Orange County Water District, Golden State Water Company, Irvine Ranch Water District, Mesa Water District, Serrano Water District, and Yorba Linda Water District), MWDOC, County of Los Angeles, Water Replenishment District of Southern California, The Metropolitan Water District of Southern California, the members of the Santa Ana Watershed Project Authority, and U.S. Army Corps of Engineers. OCWD is also the largest buyer of imported water supplies from the local imported water wholesaler agency, MWDOC. The status of shared projects and facilities is well-documented to support the services provided by OCWD.

Partnership opportunities are expected for the future, which may include but are not limited to, a second emergency connection to the South Orange County water agencies, addressing seawater intrusion at the "Sunset Gap" and/or "Bolsa Gap," securing funding for the 19 Groundwater Producers to construct water treatment systems to address PFAS contamination in wells, and paying one-half of all PFAS

Exhibit 1

Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

treatment system operation and maintenance (O&M) costs. The opportunities for shared facilities continue to evolve at a sufficient pace for the purpose of supporting the services provided by OCWD.

MSR DETERMINATION 6: Accountability for community service needs, including governmental structure and operational efficiencies.

OCWD is an independent special district that serves 19 large Groundwater Producers, many small producers, and roughly 2.44 million northern and central Orange County residents, which are represented by the 10-member Board of Directors.

OCWD is accountable to the service needs of its community through Board-approved policies that support the efficient and transparent operations of the agency. The Board of Directors conducts public meetings twice a month and the Board Secretary ensures compliance with the Brown Act. OCWD staff maintain a robust website that contains a wide range of up-to-date information about the District's meetings, programs, and services, as well as social media, speaking engagements, and school-aged educational programs.

As of October 2023, members of the Board of Directors are paid \$330.75 per meeting attended, up to 10 meetings per month. Board members are eligible for medical, dental, vision, and life insurance benefits, and participating in 401(a) and 457 plans.

The District has received many awards for its efforts in providing useful information, as well as promoting transparency and prudent fiscal practices; for example in 2020, the Government Finance Officers Association awarded a Certificate of Achievement in Excellence for OCWD's Comprehensive Annual Finance Report and One Planet awarded three gold medals for PR Campaign of the Year, Publicity Campaign of the Year, and Marketing Campaign of the Year. In addition, awards were received for the District's virtual outreach efforts during the COVID-19 pandemic and an Outreach Recognition Award from the Association of California Water Agencies. OCWD demonstrates sufficient accountability to community service needs including its governmental structure and operations that do not hinder the services provided to its Service Area.

Exhibit 1

Orange County Water District
Municipal Service Review (MSR)
STATEMENT OF DETERMINATIONS

MSR DETERMINATION 7: Any other matter related to effective or efficient service delivery, as required by commission policy.

As part of its MSR and SOI update application to OC LAFCO, OCWD requested a feasibility study of consolidation with MWDOC to be included with the MSR. The findings of this analysis are provided in Chapter 5 of the MSR report.

CHAPTER FOUR | OCWD SPHERE OF INFLUENCE REVIEW

4.0 Sphere of Influence History

Gov. Code Section 56076 defines Sphere of Influence as, “a plan for the probable physical boundaries and service area of a local agency, as determined by the commission.” The Sphere of Influence (SOI) for OCWD was originally adopted on November 23, 1977; it was last modified in 2008 as part of the first cycle of MSRs, and last reviewed by OC LAFCO on February 13, 2013 as part of the third cycle of MSRs.

The current SOI for OCWD totals 569 square miles, which includes 52 square miles of ocean. Approximately 139 square miles of the SOI (on land) is outside of the District’s current Service Area, as shown on Figure 2. OCWD does not have facilities nor provide services beyond its current Service Area of 430 square miles. OCWD has indicated to OC LAFCO that it does not request any changes to the SOI at this time, although it should be acknowledged that OCWD has filed an application with OC LAFCO to conduct an MSR that reviews the feasibility of the consolidation of the District and MWDOC. Subsequent actions to the MSR initiated by either district may involve changes to the respective SOIs.

There are currently 11 DUCs within the SOI. They are all within OCWD Division 1 where unincorporated County land abuts the Cities of Anaheim, Stanton, and Westminster. Potable water service is provided to the DUCs by a combination of public water systems that are members of OCWD (i.e., Groundwater Producers) and private water companies on wells. There are no Williamson Act Contracts currently within the OCWD SOI.¹⁶

Since its formation in 1933, there have been approximately 45 separate annexations affecting the OCWD jurisdictional boundary. The geographic span of OCWD’s Service Area on land has increased nearly 50 percent from the original 162,676 acres to its current Service Area of 241,920 acres. Sections 50 through 64 of the OCWD Act contain the District’s annexation policy and procedures. Sections 65 through 74 of the OCWD Act describe the District’s policy for the exclusion of lands from the District’s jurisdictional boundary.

¹⁶ The California Land Conservation Act of 1965 (Williamson Act) enabled local governments to enter into contracts with private landowners to restrict the use of their land to agricultural or related open space use, in return for reduced tax assessment based on farming/open space instead of full market value.

4.1 Present and Planned Land Uses

Figure 1 depicts the current OCWD SOI totaling approximately 569 square miles. The land use authorities within the SOI include the County of Orange and the 27 incorporated cities as shown in Table 8.

Table 8: Land Use Authorities in OCWD Sphere of Influence

OCWD	Incorporated Cities	County of Orange	Ocean	Total
SOI: Within Service Area	23 cities 343 sq.mi.	35 sq.mi.	52 sq.mi.	430 sq.mi.
SOI: Outside Service Area	13 cities 49 sq.mi.	90 sq.mi.	0	139 sq.mi.
Total	27 cities 392 sq.mi.	125 sq mi.	52 sq.mi.	569 sq.mi.

Land use data was obtained from the cities and county as part of this analysis. Because each agency categorizes land use types differently, each one was manually grouped into simple categories of residential, commercial, industrial, public facilities, mixed use, right-of-way, and open space. Results suggest that open space (including a combination of conservation, recreational, agricultural, and water uses) making up 63 percent of the area analyzed, is the predominant land use type within the SOI outside the Service Area.

Notably, a majority of the Cities of Laguna Woods and Lake Forest are within the OCWD SOI but both are fully outside of the OCWD Service Area. El Toro Water District is the potable water supplier to Laguna Woods and part of Lake Forest. Its water supply source is 100 percent from MWD imported water purchased from MWDOC. Irvine Ranch Water District provides potable water service to the portion of Lake Forest not served by El Toro Water District. Its water supply comes mostly from groundwater in the OC Groundwater Basin, as well as recycled water, surface water, and MWD imported water purchased from MWDOC. The City of Laguna Hills is partially within the OCWD SOI but receives its water from El Toro Water District.

One accomplishment of the May 14, 2008 SOI Update for OCWD was to align the SOI closer to the Santa Ana River Watershed boundary in the southern part of the District where “OCWD identified those lands that drain into and provide surface water that replenishes the groundwater basin” (OC LAFCO 2008). To be clear, the District’s SOI does not fully align with the watershed boundary; for example, the Laguna Coast Wilderness Park is technically within the watershed, but because it drains away from the Basin, the area was not included in the SOI modifications (OC LAFCO 2008, p. 2). In addition, the watershed boundary is not coterminous with the OC Groundwater Basin boundary (Figure 1), resulting in some communities that happen to be fully or partially within the watershed boundary but are not within the groundwater basin; for example,

Laguna Hills and Laguna Woods, and therefore are not receiving their water from the Basin. Nonetheless, this study recommends no changes to the OCWD SOI and it should remain as currently mapped by OC LAFCO (Figure 1). The land uses for the part of the SOI that is outside of the OCWD Service Area and represents areas where no services are provided by OCWD, is outlined in Table 9. The majority land use type in this area is Open Space.

Table 9: Land Use Types within OCWD Sphere of Influence but Outside of Service Area

Land Use	County	Aliso Viejo	Anaheim	Brea	Fullerton	Irvine	Laguna Hills	Laguna Woods	Lake Forest	Newport Beach	Orange	Placentia	Tustin	Yorba Linda	Total (acres)
	(acres)														
Commercial	-	-	-	398	-	17	83	88	422	1	-	-	-	46	1,055
Industrial	-	-	-	493	-	41	-	-	614	-	-	-	-	31	1,179
Mixed Use	-	-	-	248	-	50	262	-	363	-	-	-	33	-	956
Open Space*	43,555	6*	2,431	1,422*	-	8,320*	62*	328	2,313	295*	376*	-	-	238	59,346
Public Facilities	2,571	4	2	229	-	75	8	-	268	7	100	-	-	-	3,264
Residential	11,516	92	5	3,288	65	2,513	319	683	2,969	41	729	15	-	-	22,235
Rights-of-way	-	1	-	-	-	396	-	48	473	4	143	-	-	96	1,161
Total (acres)	57,642	103	2,438	6,078	65	11,412	734	1,147	7,422	348	1,348	15	33	411	89,196

Notes: * When asterisk is included, Open Space includes recreational land uses in addition to preserved/conserved areas. Agriculture and Water Bodies are included in this category for Irvine.

Source: GIS data was obtained from each agency's website or directly from city staff in December 2023. Values are rounded to nearest whole number.

The land use designations shown in Table 9 represent the local jurisdiction's currently approved land use plan, which should ideally reflect the existing as well as the future land uses planned for the area. Non-conforming land uses currently in-place would not necessarily be represented in these land use totals and figures (e.g., homes in areas now zoned for industrial, etc.).

The land uses for the OCWD Service Area are tallied on Table 10. This data was obtained from agency websites and/or directly from agency staff in December 2023/January 2024. Land use types were manually grouped into general categories to give an approximate estimate of each. Open Space land uses (including water, active and passive parks, golf courses, etc.) follows Residential land uses as the second most common type of land use within the OCWD Service Area.

Table 10: Land Use Types within OCWD Service Area

Land Use	County	Anaheim	Brea	Buena Park	Costa Mesa	Cypress	Fountain Valley ^(e)	Fullerton	Garden Grove	Huntington Beach	Irvine	La Palma	Los Alamitos	Newport Beach	Orange	Placentia	Santa Ana	Seal Beach	Stanton	Villa Park	Westminster	Yorba Linda	Total (acres)	
	(acres)																							
Commercial	57	2,345	0.06	841	1,256	232	-	803	335.3	570	1,585	28.3		945	926	244	2,527	159	206	12				13,940
Industrial	-	2,767	0.15	585.4	1,026	24	-	1,220	575.8	1,128	5,796	57	275	42	1,113	298	2,298	172	187	-	593			17,289
Mixed Use	-	825	0.02	322.2	150.5	815	-	333 ^(a)	1,070	638	406	119	1,501	384	543	-	674	-	12	-	571			8,364
Open Space*	11,542	5,216*	1.8	449.2	554	182	460.5	2,306*	355.3	3,274	6,506 ^(a)	14	82	2,800	5,683	111	994	1,365	105	28	121			42,150
Public Facilities	524	1,201	-	-	1,263.4	499	-	851	726.5	1,615	2,291	119	**	419	808	212	-	77.1	99	-	452			11,157
Residential	10,076	16,532	13.6	3,012	3,793	1,624	-	6,044	5,833	8,066	12,862	502	1,403	4,080	8,627	2,504	7,522	1,026	971	1,306	3,218			99,015
Rights-of-way	-	147	-	-	-	881	-	136 ^(b)	2,568	3,682	1,309	60	340	124	120	47 ^(b)	4	-	377	-	1,880			11,675
Total (acres)	22,199	29,032	15.6	5,210^(d)	8,045^(d)	4,257	461	11,692	11,464	18,972	30,754	899^(d)	3,601	8,794	17,820	3,416	14,018	7,134.5^(e)	1,985^(f)	1,346	6,836			208,000

Notes: Values are rounded to nearest whole number.

* When asterisk is included, Open Space includes recreational land uses in addition to preserved/conserved areas.

**Included in Mixed Use category.

Source: GIS data was obtained from each agency's website or directly from city staff in December 2023.

(a) includes Specific Plan land use designation.

(b) includes Railroad land use designation.

(c) includes Agricultural land use designation.

(d) Values are net acres and therefore exclude unparcelled rights-of-way, including roadways and freeways, and parcels without land use designations.

(e) City of Fountain Valley General Plan EIR (June 2023) does not summarize land use areas other than the total area and the open space. Electronic files of the General Plan land use plan were not available.

(f) Includes 29 acres of vacant land of unknown designation.

(g) Includes 4,336 acres of Military land use type.

Access to the City's GIS files was limited to a services layer and analysis tools could not be used. Approximately 97% of the City is within the OCWD Service Area.

According to the California Department of Conservation’s Farmland Mapping and Monitoring Program, there are approximately 4,370 acres (7 square miles) outside the Service Area and 6,142 acres (9.5 square miles) within the Service Area of Prime Farmland, Farmland of Statewide Importance, Grazing Land, and Unique Farmland within the SOI (based on best available data dated 2018), as summarized in Table 10 and shown on Figure 7.

Table 11: Mapped Farmland Categories in OCWD Sphere of Influence

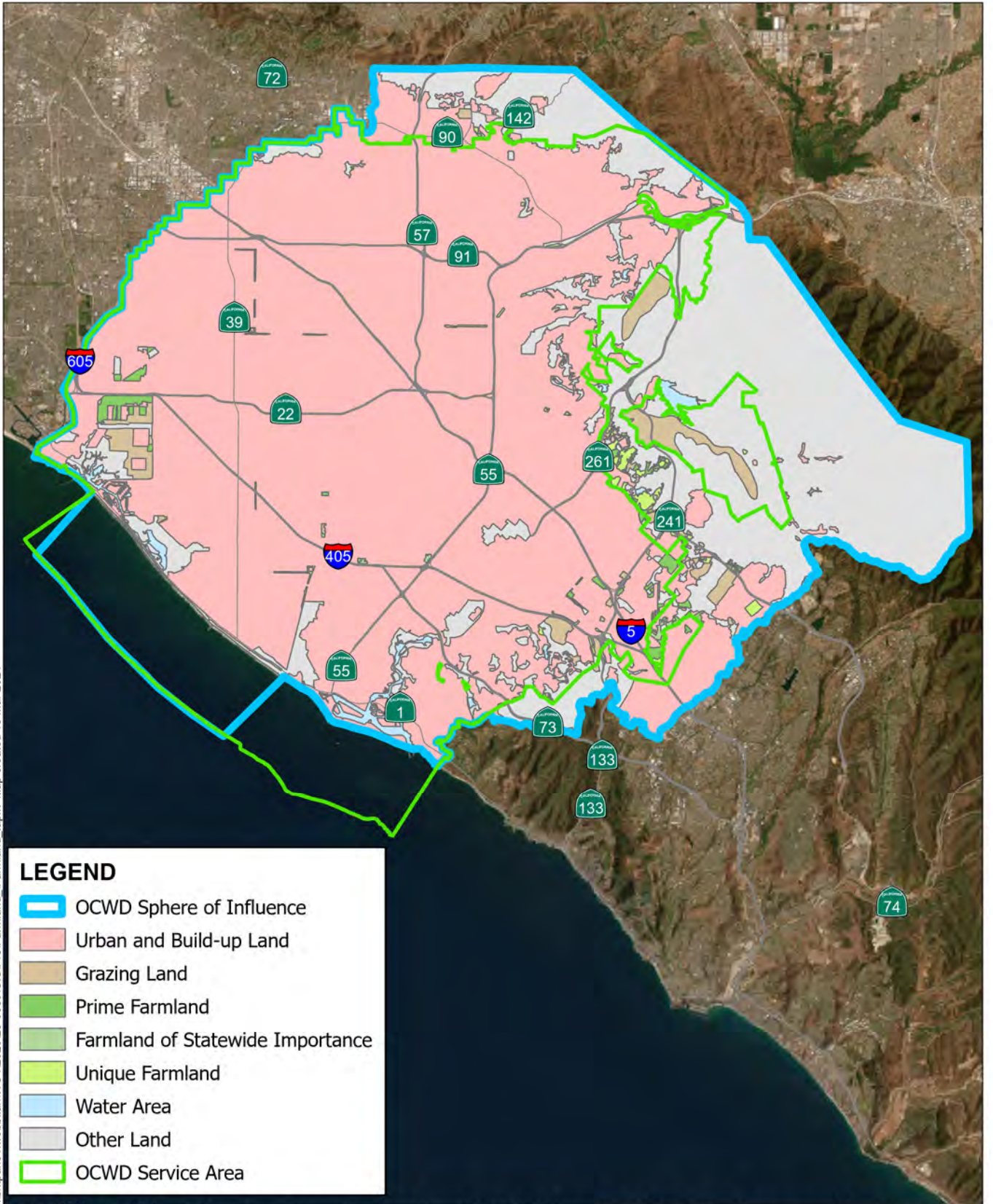
Farmland Categories		Acres within OCWD Sphere of Influence Within Service Area (2018)	Acres within OCWD Sphere of Influence Outside of Service Area (2018)
Prime Farmland		1,428 (2.2 sq.mi.)	660.3 (1.0 sq.mi.)
Farmland of Statewide Importance		66 (0.1 sq.mi.)	239.3 (0.4 sq.mi.)
Unique Farmland		471 (0.7 sq.mi.)	1,158.2 (1.8 sq.mi.)
Grazing Land		4,177 (6.5 sq.mi.)	2,312.7 (3.6 sq.mi.)
Urban and Built-up Land		207,815 (325 sq.mi.)	16,752.3 (26.2 sq.mi.)
Other Land		27,889 (44 sq.mi.)	66,992.1 (105 sq.mi.)
Water		2,219 (3.5 sq.mi.)	631.5 (1.0 sq.mi.)
Ocean		31,457 (49 sq.mi.)	0
Total^(a)		275,523 (430 sq.mi.)	88,746.2 (139 sq.mi.)
Farmland Definitions			
Prime Farmland	Farmland with the best combination of physical and chemical features able to sustain long term agricultural production. This land has the soil quality, growing season, and moisture supply needed to produce sustained high yields. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.		
Farmland of Statewide Importance	Farmland similar to Prime Farmland but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Land must have been used for irrigated agricultural production at some time during the four years prior to the mapping date.		
Unique Farmland	Farmland of lesser quality soils used for the production of the state's leading agricultural crops. This land is usually irrigated but may include unirrigated orchards or vineyards as found in some climatic zones in California. Land must have been cropped at some time during the four years prior to the mapping date.		
Grazing Land	Land on which the existing vegetation is suited to the grazing of livestock. This category was developed in cooperation with the California Cattlemen's Association, University of California Cooperative Extension, and other groups interested in the extent of grazing activities.		
Urban and Built-up Land	Land occupied by structures with a building density of at least 1 unit to 1.5 acres, or approximately 6 structures to a 10-acre parcel. This land is used for residential, industrial, commercial, construction, institutional, public administration, railroad and other transportation yards, cemeteries, airports, golf courses, sanitary landfills, sewage treatment, water control structures, and other developed purposes.		

Other Land	Land not included in any other mapping category. Common examples include low density rural developments; brush, timber, wetland, and riparian areas not suitable for livestock grazing; confined livestock, poultry or aquaculture facilities; strip mines, borrow pits; and water bodies smaller than forty acres. Vacant and nonagricultural land surrounded on all sides by urban development and greater than 40 acres is mapped as Other Land.
Water Area	Perennial water bodies with an extent of at least 40 acres.

Source: California Department of Conservation Farmland Mapping and Monitoring Program Important Farmland Categories website, <https://www.conservation.ca.gov/dlrp/fmmp/Pages/Important-Farmland-Categories.aspx>.

(a) The area analyzed in this table is the same general area analyzed in the prior land use table (Table 7); however, the total acreages do not match exactly which is attributable to boundaries representing different time periods and rights-of-way.

\\brkpan01.webb.ian\WO4\2023\23-0089\GIS\Pro\Farmland.aprx Map created 19 Mar 2024



LEGEND

- OCWD Sphere of Influence
- Urban and Build-up Land
- Grazing Land
- Prime Farmland
- Farmland of Statewide Importance
- Unique Farmland
- Water Area
- Other Land
- OCWD Service Area

Source: Williamson Act;
OC 2018

Figure 7 – Farmland within OCWD Sphere of Influence

OCWD Municipal Service Review



0 5 10 15 Miles

4.2 Present and Probable Need for Facilities and Services

OCWD's present need for facilities and services is represented by the 19 Groundwater Producers and approximately 2.5 million residents in north and central Orange County that receive part or all of their potable water from the OC Groundwater Basin. Probable future needs are represented by the projected population growth in Table 3 and land use plans in Tables 9 and 10 and Figure 6.

There is a present need for OCWD to remediate contamination within the soil and groundwater of the Basin in order for Producers to use the groundwater. With regulatory oversight from U.S. EPA, the District is targeting a plume of volatile organic compounds (VOCs) that underlies portions of Fullerton, Anaheim, Placentia, and Buena Park (North Basin Superfund Site.) A feasibility investigation is expected in 2024 that will guide a remedial action plan. The District is also targeting VOC and perchlorate contamination underlying portions of Irvine, Santa Ana, and Tustin (South Basin Groundwater Protection Project). The remedial investigation and feasibility study are completed, and the remedial action plan is undergoing CEQA review. This underscores the importance of regular well monitoring and acting quickly to start the cleanup process.

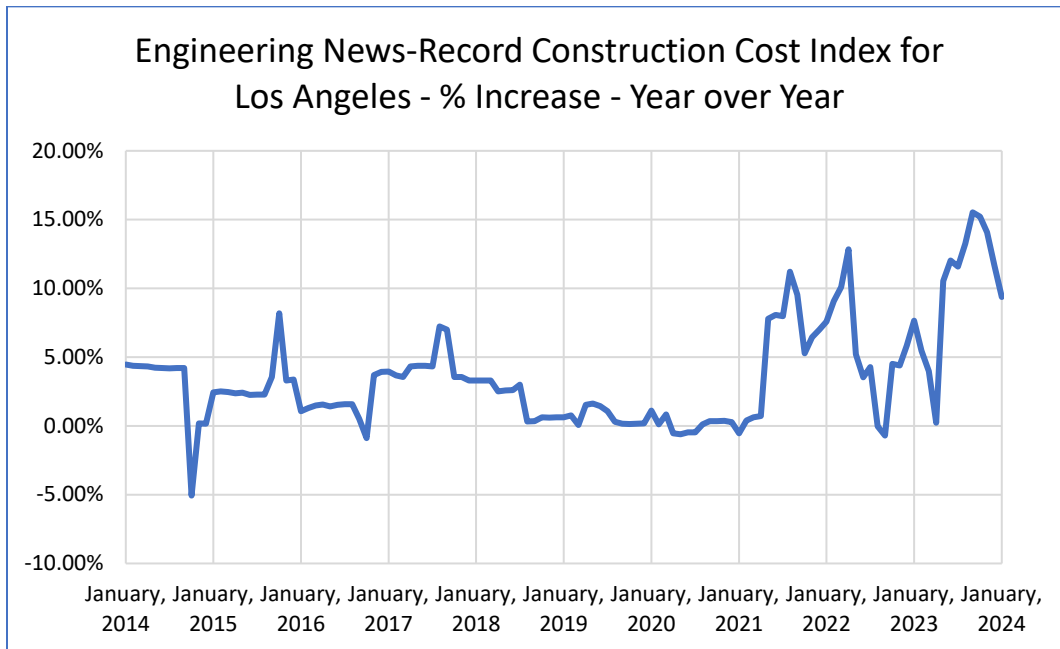
Similar to the need to address contamination, brackish groundwater (when fresh water is mixed with seawater) can render drinking water wells inoperable. Monitoring seawater intrusion and taking actions to minimize the degree of intrusion is a present need for OCWD. The District has two seawater barriers, the Alamitos and Talbert Barriers, which were built in 1964 and 1975, respectively. The barriers are a line of injection wells where recycled water is injected into the ground to push back the intrusion of seawater. The District is investigating a third location called the Sunset Gap where monitoring data suggests seawater has migrated inland and impacting a Huntington Beach well.

The facilities and projects the District has or is planning to have in order to meet present and probable needs for groundwater from the Basin are listed in Tables 5 and 7 in Sections 3.3 and 3.5 of the MSR report. To plan for future repairs and replacement of existing facilities (i.e., probable needs), the District maintains an impressive Replacement and Refurbishment (R&R) program model. The R&R model is interactive so that assumptions/constraints can be changed before it forecasts what will be needed each year in expenses. Funding for R&R projects comes primarily from RA revenue and a small portion from investment revenue. Transfers to the R&R Fund from operational revenues are increased by 7 percent each year. The model and listed assets are reviewed by department heads annually in order to forecast expenses for things that have lifetimes such as pumps, pipelines, and membranes. The model has about 1,700 entries in the infrastructure asset list (infrastructure that can be repaired or replaced) and

approximately 152 entries with expired useful lives (e.g., tractors purchased in 1985, etc.).

Given recent increases in the cost of construction, according to the Engineering News Record Construction Cost Index for Los Angeles, as shown in Chart 11, the District should consider adjusting its model to reflect higher costs of construction as well as delays in procuring equipment from overseas.

Chart 11 – Construction Cost Index, Jan. 2014 – Jan. 2024



Total capital investment by the District as of 2022 was approximately \$1 billion to \$1.5 billion, which is a significant addition of assets to the R&R model, but not all of these assets will need to be repaired or replaced. The R&R model currently forecasts that sufficient funding will be available for the repairs and replacement needed for the next 25 years, including the recent capital investments.

The R&R model is one method the District uses to plan for present and probable needs for facilities and services within its jurisdiction. Another method is the annual Capital Improvement Program (CIP). The CIP is a five-year budget for a list of OCWD projects identified to support its mission. Being on the list does not guarantee a project will proceed; several stages of approval by the Board of Directors will bring a project to fruition. In the fiscal year 2023-2024 budget, the CIP has 19 projects totaling \$101.1 million. Funding for the CIP comes from long-term debt, grants, and \$47.7 million of the FY 23-24 budget will come from RA revenue or current revenue (called “PAYGO”) to minimize debt service costs.

Of OCWD's 19 CIP projects, 13 are PFAS treatment systems for Irvine Ranch Water District and East Orange County Water District, and the Cities of Anaheim, Tustin, Orange, Fullerton, Santa Ana, and Garden Grove. Two CIP projects are related to seawater intrusion, one is for modernizing in-house research and development equipment, two projects are related to remediation of contaminated soil or groundwater, and the last CIP project is constructing monitoring wells (FY23-24 Budget, Table 8-2). The CIP projects demonstrate current priorities for the future that address both present and probable need, as well as the planned funding sources.

There is a present need from the Groundwater Producers to equip wells with treatment methods that will reduce certain PFAS chemicals in anticipation of a federal limit to be issued by the U.S. EPA. Since 2020, OCWD has planned for PFAS treatment systems. Initially, 61 wells needed treatment and up to 200 wells could be impacted at a cost of \$550 million to OCWD if U.S. EPA establishes a 4 ppt MCL. Currently, 30 of the 61 wells are back in operation with treatment, another 22 are under construction, and the remaining wells are in design. Each PFAS treatment system project requires roughly 2.5 years from design to construction, at a cost of roughly \$5 million each. Another 45 wells are planned for completion in the next few years. It is fortunate for all water agencies facing this scenario that PFAS can be removed with known and tested technology. Considering that the District's current reserves are about \$247 million (projected year-end fiscal year 2022-2023), the cost for OCWD to meet the MCL will need to be a dominant component of both the budget and grant procurement for the next several years. Increases in the RA to cover this cost are planned in the amount of 10 percent annually for 2-3 years.

For fiscal year 2023-2024, OCWD has budgeted \$3.5 million for its share of PFAS O&M expenses and grant funding revenue in the amount of at least \$5 million to help defray the cost to meet this future MCL. The U.S. EPA Water Infrastructure Finance and Innovation Act (WIFIA) program awarded the District a low-interest loan that OCWD can also use for PFAS treatment systems expenses. Although OCWD is party to a class-action lawsuit against the manufacturers of PFAS chemicals, OCWD's fiscal year 2023-2024 budget conservatively plans for zero settlement monies to be received.

To meet the need for the service it provides, OCWD invests in projects that recharge more water into the Basin and projects that improve the quality of the water pumped from the Basin. The GWRS and Green Acres Project collaborations with OC San, for example, currently meet the demands of 83 mgd and 3.4 mgd of recycled water that is suitable for groundwater recharge and irrigation, respectively (Table 5). Operating these projects at full capacity could produce up to 130 mgd and 7.5 mgd of supply, respectively (Table 5). If these projects were not in place, then effluent from OC San would be discharged to the ocean and it would not benefit the Basin. Irrigation water

would have been supplied from potable water. An equivalent amount of water supply would have to be obtained from elsewhere to recharge the Basin and to irrigate, such as purchasing more imported water or diverting more surface water; or another approach could be decreases in the BPP combined with increases in the RA and BEA to incentivize less pumping depending on how much overdraft was occurring.

Reclamation and reuse of wastewater that would have otherwise been discharged to the ocean is one way the District is planning for present and probable needs for its services. Another method is working with the U.S. Army Corps of Engineers (USACE) at Prado Dam to find ways to increase the amount of water that can be stored behind Prado Dam. OCWD owns the land behind the dam and holds the water rights, but USACE operates the dam. OCWD estimates approximately 7,000 AFY of storm flows could be captured that would have otherwise been released downstream to the ocean. This is done with a management strategy called Forecast Informed Reservoir Operations (FIRO) to better inform the USACE when to release or retain water behind the dam by using better weather forecasts. For example, a pending storm might normally trigger a release of water to meet a set reservoir depth, but with FIRO, the forecast will guide the release volume to maximize the volume that can be held behind the dam and to avoid releases that are not necessary. FIRO is still being tested by USACE and other agencies. OCWD's proactive involvement in testing this new operational strategy speaks to planning for present and future needs for recharge water.

OCWD has not indicated an intention at this time to apply for or request changes to its Service Area boundary, nor its SOI boundary. If OCWD has a reason in the future to request a change in its Service Area boundary or its SOI boundary, then an application to OC LAFCO will be required. Because the District does not provide services outside of its Service Area, it does not have present or planned needs beyond those already planned for.

The City of Brea is within OCWD's SOI but is not within the District's existing Service Area and therefore Brea is not one of OCWD's 19 Groundwater Producers. At this time, the aforementioned conditions described in the May 14, 2008 SOI Update (see Section 3.0) have not occurred (i.e., groundwater flowing into the OC Groundwater Basin from Brea and subsequent groundwater pumping by Brea). In addition, the existing OCWD Annexation Policy only allows annexation of land into the Service Area from the District's existing 19 Producers, of which Brea is not a part. Therefore, no probable need for expansion of the Service Area into Brea is known at this time.

Based on the information reviewed for this study, OCWD demonstrates adequate facilities and planning efforts to meet present and probable needs for services in the future through financial, maintenance, and operational planning activities.

4.3 Present Capacity and Adequacy of Facilities and Services

The present capacity of facilities and services provided by OCWD within its Service Area are discussed in Section 3.3 (Table 5). According to OCWD, the District has no facilities and provides no services within the portion of its SOI that is outside of the Service Area. If a need arises for facilities and services to extend beyond the current Service Area and into the SOI, then OCWD will need to prepare appropriate studies to determine adequate capacity to meet expected demands, as well as request annexation from OC LAFCO.

The sources of water supply for the Basin include Santa Ana River flows, rainfall, recycled water, and imported water. The District makes a projection each year of what it expects to get from each of these sources. Constraints on these supplies include droughts, reductions in river flows, water quality limitations, and restrictions on available imported water supplies. On the other hand, as urbanization continues upstream of Prado Dam, more flows in the river are expected in the form of base flow (i.e., wastewater discharges) and storm flows (i.e., from more impervious surfaces). But when storm flows exceed the capacity of diversion facilities, river water that would have been recharged is lost to the ocean.

Water Rights and Entitlements

OCWD has certain water rights and entitlements that define maximum thresholds for water supplies. First, OCWD has a right to an average of 42,000 AFY of base flow at Prado Dam and all storm flow reaching Prado according to the 1969 Judgment.¹⁷ For reference, the actual base flow plus storm flow from the Santa Ana River in WY 21-22 was 108,200 AF. OCWD also holds a permit from the State Water Resources Control Board (SWRCB) for an appropriative water right to divert water from the Santa Ana River for groundwater recharge in the amount of 362,000 AFY (A031174). The District's request for an additional 143,000 AFY is held in abeyance (A031174B) until the facilities to capture this additional amount are completed.

In 2023, OCWD submitted a report to SWRCB indicating the completion of projects so that an additional 49,980 afy can be diverted and stored. The SWRCB is currently reviewing the request to include this amount in the granted 362,000 afy, potentially raising OCWD's water right to 411,980 afy, with the remaining 93,020 afy still in abeyance. Discussions with the SWRCB are ongoing, exploring the possibility of granting OCWD more time to further expand its diversion and storage capacity, further augmenting its water rights to Santa Ana River flows at Prado Dam.

¹⁷ Orange County Water District v. City of Chino, et al., Case No. 117628-County of Orange, entered by the court on April 17, 1969. The Judgment became effective on October 1, 1970.

In addition to the Santa Ana River, OCWD has a diversion permit issued by SWRCB on September 25, 1984 to divert water from Santiago Creek and Alameda Storm Channel to the Santiago Basin (A027261).

OCWD has an entitlement as a member agency of MWDOC to purchase MWD imported water from MWDOC. The maximum purchase amount would be equivalent to the maximum amount that could be recharged, which is about 300,000 AFY if all of the recharge basins were emptied, and therefore unrealistic. OCWD purchases what it can put to use, which varies from year to year.

OCWD has an entitlement to the recycled water produced by the GWRS facility, which was expanded in January 2023 from 100 mgd to 130 mgd of treatment capacity. The amount produced by GWRS is limited by the amount provided by OC San, not including treatment losses. For example, 175 mgd from OC San converts to 130 mgd from GWRS. When OC San completes construction at Plant 2, then recycled water produced by GWRS will increase up to 130 mgd.

Present Capacity

At the end of WY 2021-2022, a shortfall of 10,000 AF existed as the difference between the volume pumped and the volume replenished in the Basin. With this shortfall, the Basin held 258,000 AF of the maximum 500,000 AF. The largest discrepancy between the District's projected and actual water supplies for WY 2021-2022 occurred in Incidental Recharge, which represents rainfall. In WY 2021-2022, roughly half of the 35-year rainfall average fell at the OCWD offices, resulting in 35,600 AF of anticipated water that did not materialize. Had the rainfall occurred, OCWD would have had capacity for it in the recharge facilities and in the Basin. Instead, OCWD purchased water for recharge from MWDOC in the amount of 23,000 AF.

Adequacy of Facilities and Services

The Basin was refilled by OCWD in the four years prior to WY 2021-2022 because they were wet years, and filling in wet years to draw down in dry years is the planned operational strategy for the Basin. The District's existing water rights and entitlements have provided for sufficient ability to replenish the Basin and maintain the ability of producers to pump what they require. Combined with the District's mission to procure as many local sources of water supply as economically as possible including planned increases in river water diversions and GWRS production of recycled water that are well within the District's rights and entitlements will bolster the District's ability to meet its mission into the future.

Any applications to OC LAFCO that would change a SOI resulting from this study's findings will warrant another review of the adequacy of facilities and services.

4.4 Social or Economic Communities of Interest

Unincorporated County

There are approximately 35 square miles of unincorporated County within the District's 430-square mile Service Area, including 0.85-square mile (541 acres) of DUCs (Figure 4). Potable water is supplied to land uses within unincorporated areas by local retail water providers, both large and small (i.e., Groundwater Producers and mutual water companies). It is the responsibility of the local retail water provider to maintain a functioning distribution system that delivers water that meets state and federal drinking water standards. OCWD has shown itself to be a good partner to the Groundwater Producers for collaborations on projects that have mutual benefits.

DUCs

Disadvantaged unincorporated communities (DUCs) are communities located in both an unincorporated county area and a census block reporting a median household income that is 80 percent or less than the statewide median household income. The CDR assisted in this study to determine 11 DUCs within the OCWD SOI that meet these criteria (Figure 4). They are all located within Division 1 of the OCWD Service Area and total 0.85 square mile (541 acres). The water suppliers to the DUCs include the Cities of Anaheim and Westminster, Golden State Water Company and four mutual water companies.

OCWD's Monitoring Program includes the wells used by the water suppliers to the DUCs. Water quality testing is performed, and pumping rates are recorded every 6 months by OCWD in order to monitor the quality and quantity of water in the Basin. Mutual water companies are discussed in detail in the following section.

Mutual Water Companies

Mutual water companies are private, not-for-profit organizations that are organized under California Corporations Code 14300. They are regulated by the U.S. EPA Safe Drinking Water Act, California Department of Public Health, State Water Resources Control Board, California Water Code, and Health and Safety Code and they report their boundaries to LAFCOs. Mutual water companies have shareholders instead of customers and annual shareholders' meetings with financial reports must be held. They are typically small in size and were often organized at a time when there was not a regional public water system available to connect to and they often rely on a limited supply source, such as one well. There are currently nine mutual water companies within the OCWD SOI, as shown in Table 12.

Table 12: Mutual Water Companies in OCWD Sphere of Influence

Mutual Water Company Name	City or County	System Number	In OCWD's Monitoring Program? ^(a)	WY 21-22 Non-Irrigation Pumping (AF) ^(c)
Crescent Water Association	Anaheim	CA3000811	No	<25
Eastside Water Association ^(b)	Unincorporated	CA3010008	Yes	201.8
Hynes Estates Mutual Water Company ^(b)	Unincorporated	CA3000519	Yes	79.4
Knott's Berry Farm	Buena Park	CA3000734	Yes	197.2
Liberty Park Water Association	Huntington Beach	CA3000618	Yes	<25
Los Alamitos Race Track	Cypress	CA3000819	Yes	245.1
Midway City Mutual Water Company ^(b)	Unincorporated	CA3010097	Yes	100.2
Page Avenue Mutual Water Company	Fullerton	CA3000585	Yes	<25
South Midway City Mutual Water Company ^(b)	Unincorporated	CA3000825	Yes	71.2

Notes: WY = Water Year; AF = acre-feet

Recent consolidations include: Diamond Park Mutual Water Company with City of Santa Ana; Houston Avenue Water Association with City of Anaheim; and Old Pirate Lane Water Company with City of Huntington Beach.

(a) According to the list provided in Appendix A of the 2017 Basin 8-1 Alternative.

(b) Mutual water companies with shareholders located in at least one of the DUCs in the OCWD SOI.

(c) The BPP applies to producers who pump more than 25 AF per WY.

The companies in Table 12 are a mix of small producers that pump less than 25 AF of water per year and those who pump more but are not one of the large producers. The wells utilized by all but one of these mutual water companies are included in the OCWD Monitoring Program and meter data is collected by OCWD every 6 months to account for how much they pump from the Basin. However, OCWD is not actively testing their water quality on a regular basis for concentrations of PFAS.

Senate Bill (SB) 88 (2015) added sections 16680-116684 to the California Health and Safety Code, allowing the State Water Resources Control Board to require certain water

systems that consistently fail to provide safe drinking water to consolidate with, or receive an extension of service from, another public water system. The consolidation can be physical or managerial. SB 552 (2016) expands the state’s authority to include state small water systems and mobile home parks. The state has long encouraged the voluntary consolidation of public water systems where possible but mandatory consolidation can only be used when all of the following criteria are met: located in a disadvantaged community, “documented” water quality or quantity issue exists; and a functional water system is nearby that can serve the subsumed system (Fact Sheet 2021).

The current ability or functionality of the mutual water companies listed in Table 12 was not investigated for this study nor were their water quality test results. OCWD previously assisted with the consolidation of a failing private water system with the City of Santa Ana (Diamond Park Mutual Water Company) in 2014. Santa Ana was willing to subsume the mutual water company and secured funds for new piping and infrastructure to upgrade the system and decommission the company’s well. OCWD has tested small producers for PFAS in a few isolated instances when the small producer received an order to do so from state regulators (PC(3)).

Nothing in the OCWD Act appears to restrict the District from engaging with mutual water companies within its jurisdiction for the benefit of the basin, specifically, to “act jointly with or cooperate with...private corporations...to carry out the provisions and purposes of this act” (Section 2, Item 11). To the extent that it is feasible, OC LAFCO can engage with the State Water Resources Control Board and mutual water companies in Orange County on funding opportunities to review facilities, costs, and rates and identify potential service alternatives to facilitate adequate and quality water to the respective communities. Any applications to OC LAFCO resulting from this study’s findings that would change an SOI will warrant another review of social or economic communities of interest.

4.5 Present and Probable Need for Services to DUCs

A total of 11 DUCs have been identified in Division 1 of OCWD’s Service Area as discussed in Section 4.4. In addition, five mutual water companies are within the OCWD SOI in addition to the four that serve portions of the DUCs (Table 12). There is a probable need in the future for consolidation of the mutual water companies that serve portions of certain DUCs with their neighboring large public water supplier. When the proposed MCL for PFAS (specifically, PFOA and PFOS) of 4 ppt goes into effect, small producers will be testing their water for this constituent, and then based on the results weighing their options. In light of this, this study recommends OCWD to avail its technical resources if requested by the small producers in disadvantaged areas, particularly the

11 DUCs. Technical resources could include water quality testing services and/or navigating the guidance and funding opportunities the State provides to small producers to fund treatment systems or to consolidate. If at such time any of the mutuals within the DUCs (and the Service Area) initiates consolidation with their neighboring public system, then this study recommends OCWD to assist in the process if requested.

Any applications to OC LAFCO resulting from this study's findings that would change a SOI will warrant another review of present and probable needs for services within DUCs.

SOI STATEMENT OF DETERMINATIONS

OC LAFCO first established the sphere of influence (SOI) of the Orange County Water District in 1977. Since that time, the District's SOI has been reviewed in conjunction with boundary change applications and during the preparation of previous MSRs. The most recent comprehensive review of the District's SOI was completed in 2013. This section includes the Statement of Determinations for the 2024 review of OCWD's SOI. The five statutory determinations are examined in more detail in Chapter 4 of this report.

RECOMMENDATION:

Staff recommends the Commission adopt the Statement of Determinations to reaffirm the SOI as shown on *Exhibit 2*. The SOI would need to be revisited as part of any future District reorganization or consolidation application.

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Exhibit 2
Orange County Water District
Sphere of Influence (SOI)
STATEMENT OF DETERMINATIONS

SOI DETERMINATION 1: The present and planned land uses in the area, including agricultural and open space lands

The Sphere of Influence (SOI) of Orange County Water District (OCWD) is 569 square miles. The SOI contains 52 square miles of ocean, 125 square miles of unincorporated county, and 392 square miles of 27 incorporated cities. The OCWD Service Area is 430 square miles containing 35 square miles of unincorporated county, 52 square miles of ocean, and 343 square miles of 23 incorporated cities. Open space land uses make up the majority of the Service Area and the SOI. According to the latest data from California Department of Conservation's Farmland Mapping and Monitoring Program (dated 2018), there are approximately 3.2 square miles of Prime Farmland, 0.5 square mile of Farmland of Statewide Importance, 10.1 square miles of Grazing Land, and 2.5 square miles of Unique Farmland within the SOI for a total of 16.3 square miles, or 3 percent of the SOI area. The remaining area is mapped as Other Land (149 square miles), Water (4.5 square miles), and Urban Built-Up Land (351.2 square miles).

OCWD does not have land use authority and relies on the General Plans of the county and cities within its boundaries for accurate information on the present and planned land uses of the areas within the Service Area and SOI. In cooperation with the Center for Demographic Research at California State University, Fullerton, OCWD monitors land use changes within its Service Area. Because OCWD does not provide services outside of the Service Area, it is presumed the retail water suppliers that serve the SOI beyond the OCWD Service Area track land use changes and water demands within their respective service areas. OCWD is not requesting changes to its Service Area or SOI.

Pursuant to OCWD's application to OC LAFCO, a feasibility study of consolidation between OCWD and MWDOC is underway. If a subsequent application to OC LAFCO is filed in response to the feasibility study, then the SOI of both entities would be reviewed again.

Exhibit 2
Orange County Water District
Sphere of Influence (SOI)
STATEMENT OF DETERMINATIONS

SOI DETERMINATION 2: The present and probable need for public facilities and services in the area

To continue its mission, OCWD has a present need for targeting areas of groundwater contamination and for adding PFAS treatment systems to affected wells. The District's fiscal year 2023-2024 budget and Capital Improvement Program (CIP), which is guided by the District's Replacement and Refurbishment (R&R) Model, lists 15 of the 19 total CIP projects that target these present needs. PFAS treatment will be a dominant component of the District's budget into the future. There is also present need to have facilities that capture more of the Santa Ana River base flows and storm flows once they pass Prado Dam. The District is working to expand river diversion efforts even further, to up to 505,000 AFY so that more of the wet year storm events can replenish the basin instead of flowing to the ocean. There is also a present need to address seawater intrusion occurring in the Sunset Gap in Huntington Beach.

OCWD facilities and services are limited to its Service Area. The District is not requesting changes to its services, Service Area, or sphere of influence as part of this review. If the need becomes apparent in the future to alter the OCWD Service Area and/or SOI boundary, then OCWD will have to undertake appropriate studies to assess the extent of water service demand involving the Basin and submit an application to OC LAFCO for approval of such changes.

During the course of our review, a potential update to the OCWD Service Area was noted. As shown on Figure 2, there are three gaps or holes in the OCWD Service Area that are located within the City of Newport Beach. They total 31 acres and are fully within the SOI of OCWD and completely surrounded by OCWD Service Area. OCWD has indicated they have no reason not to include these areas in their official Service Area and recognizes that further research would need to be conducted prior to submitting an annexation application to OC LAFCO for review and processing.

Pursuant to OCWD's application to OC LAFCO, a feasibility study of consolidation between OCWD and MWDOC is underway. If a subsequent application to OC LAFCO is filed in response to the feasibility study, then the SOI of both entities would be reviewed again.

Exhibit 2
Orange County Water District
Sphere of Influence (SOI)
STATEMENT OF DETERMINATIONS

SOI DETERMINATION 3: The present capacity of public facilities and adequacy of public services that the agency provides or is authorized to provide

The capacity of OCWD's infrastructure to manage the basin sufficiently was demonstrated in WY 2022-2023 when rainfall exceed 158 percent of the long-term average. By the end of June 2022, more water was recharged than anticipated resulting in filling the Basin with an additional 69,000 AF, despite some losses to the ocean. Therefore, the District's capacity is commensurate with the population it currently serves. The District's planning efforts are demonstrated in the annual Comprehensive Financial Report, Annual Budget, and CIP by identifying the resources required to repair, replace, and expand facilities in order to meet its stated mission.

In terms of supply capacity, the District has many water rights and entitlements to water supplies. OCWD recharge basins have a maximum capacity potential of 300,000 AF per year, if all are starting from empty. Furthermore, the District has a water rights permit from the State Water Resources Control Board for diverting up to 362,000 AFY of Santa Ana River base flows and storm flows, with another 143,000 AFY held in abeyance. OCWD submitted a request in 2023 to the State Water Board containing a list of completed projects that would enable the District to divert an additional 49,980 AFY. If approved, this would increase the water right to 411,980 AFY, with 93,020 AFY still in abeyance. The District is also entitled to receive up to 130 million gallons per day from the Groundwater Replenishment System (GWRS), as well as entitlements to recycled water from OC San for the Green Acres Project and recycled water from the Water Replenishment District of Southern California for the Alamitos Barrier Project. OCWD will need to continue to budget for maintenance and expansions of capacity as infrastructure ages, regulations change, and collaboration opportunities arise.

Pursuant to OCWD's application to OC LAFCO, a feasibility study of consolidation between OCWD and MWDOC is underway. If a subsequent application to OC LAFCO is filed in response to the feasibility study, then the SOI of both entities would be reviewed again.

Exhibit 2
Orange County Water District
Sphere of Influence (SOI)
STATEMENT OF DETERMINATIONS

SOI DETERMINATION 4: The existence of any social or economic communities of interest in the area, if the Commission determines that they are relevant to the agency

OCWD is charged with managing the water supply of the Orange County Groundwater Basin within its sphere of influence area of 569 square miles. The 19 Groundwater Producers supply the majority of water to the 2.44 million residents within the service area. A total of nine mutual water companies are also within the OCWD Service Area. A total of 11 Disadvantaged Unincorporated Communities (DUCs) were identified within the OCWD Service Area as part of this study. Land uses within the DUCs receive their potable water service from the Cities of Anaheim, Westminster, and Golden State Water Company, and four mutual water companies. Areas of unincorporated Orange County, the 11 DUCs, and the nine mutual water companies within the OCWD Service Area are considered communities of interest. OCWD is a wholesale entity and does not provide water directly to customers, so it is not responsible for the provision of retail water service to these communities of interest. Noting that OCWD has been an excellent partner to its retail agencies in the past, it is recommended that OCWD continue to do so by providing a reasonable level of technical assistance to the water providers of these communities of interest when requested.

Pursuant to OCWD's application to OC LAFCO, a feasibility study of consolidation between OCWD and MWDOC is underway. If a subsequent application to OC LAFCO is filed in response to the feasibility study, then the communities of interest of both entities would be reviewed again.

Exhibit 2
Orange County Water District
Sphere of Influence (SOI)
STATEMENT OF DETERMINATIONS

SOI DETERMINATION 5: If a city or special district provides public facilities or services related to sewers, municipal and industrial water, or structural fire protection, the present and probable need for those facilities and services of any disadvantaged unincorporated communities within the existing sphere of influence

A total of 11 DUCs are identified within Division 1 of the OCWD Service Area based on the current statewide median household income threshold and the census block boundaries. The retail water suppliers to the DUCs are responsible for the provision of water service and are responsible for the present and future potable water facilities to serve individual customers, not OCWD. The water demands of the water suppliers within the DUCs are accounted for in OCWD's planning projections of water demands. Furthermore, OCWD includes the wells that service the DUCs in its Monitoring Program. In light of pending changes to water quality regulations, it is recommended that OCWD continue to support retailers within its Service Area by providing a reasonable level of technical assistance to the water providers to the DUCs when requested. Additionally, OC LAFCO can engage or facilitate an effort with the State and the private mutual water companies of Orange County on a review of facilities, associated costs, and rates to find opportunities for efficiencies.

Pursuant to OCWD's application to OC LAFCO, a feasibility study of consolidation between OCWD and MWDOC is underway. If a subsequent application to OC LAFCO is filed in response to the feasibility study, then the present and probably need for facilities and services of any DUCs for both entities would be reviewed again.

CHAPTER FIVE | CONSOLIDATION FEASIBILITY STUDY

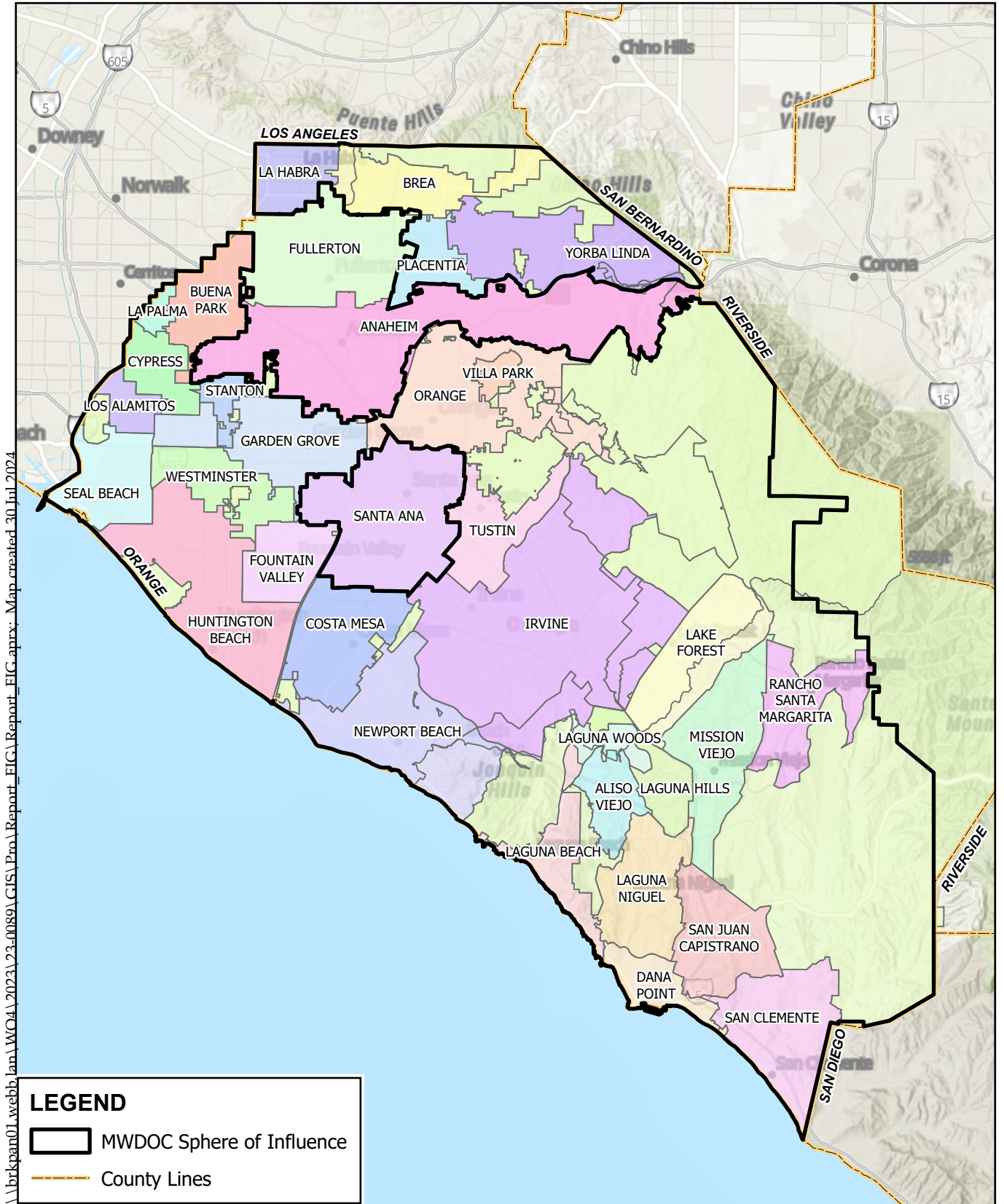
5.1 Background

On October 4, 2022, OCWD submitted an application with OC LAFCO to prepare a Comprehensive MSR including a feasibility analysis of the consolidation of OCWD and MWDOC. The current Sphere of Influence of MWDOC is shown in Figure 8. MWDOC serves an area of approximately 600 square miles over most of Orange County (except the Cities of Anaheim, Fullerton, and Santa Ana). MWDOC provides imported water to 27 member agencies with a seven-member Board of Directors, with each member representing a division elected to a four-year term by voters within their division (September 9, 2020, MWDOC MSR, p. 10). OCWD's Sphere of Influence and MWDOC's Sphere of Influence are shown on Figure 9.

OCWD's application to OC LAFCO was submitted following a June 2022 report prepared by the Orange County Grand Jury entitled, Water in Orange County Needs "One Voice." The Grand Jury report discusses the consolidation of OCWD and MWDOC into a single County wholesale water agency to increase the efficiency and effectiveness in delivering imported water and groundwater, major infrastructure investments, development of forward-thinking policies and practices, and opportunities at the local, State, and federal levels in legislation, policy making and receiving subsidies and grants.

There has been a total of four such reports from the Orange County Grand Jury (1982, 1994, 2013, and 2022); two recommended a single wholesale agency (1982 and 2022) and two recommended staying separate (1994 and 2013).¹⁸ In addition, an April 1994 Wholesale Water Agency Reorganization Study prepared jointly by Coastal Municipal Water District, MWDOC, and OCWD, "did not come to unanimous agreement on a single option [but] several relevant conclusions and recommendations were reached" (WWAPG, 1994).

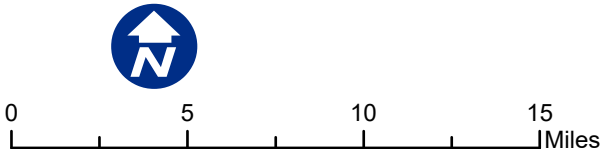
¹⁸ Source: *MWDOC and OCWD Relations & OCWD's LAFCO Focused MSR Study* presentation at MWDOC Board Study Session, April 28, 2023, p.16.

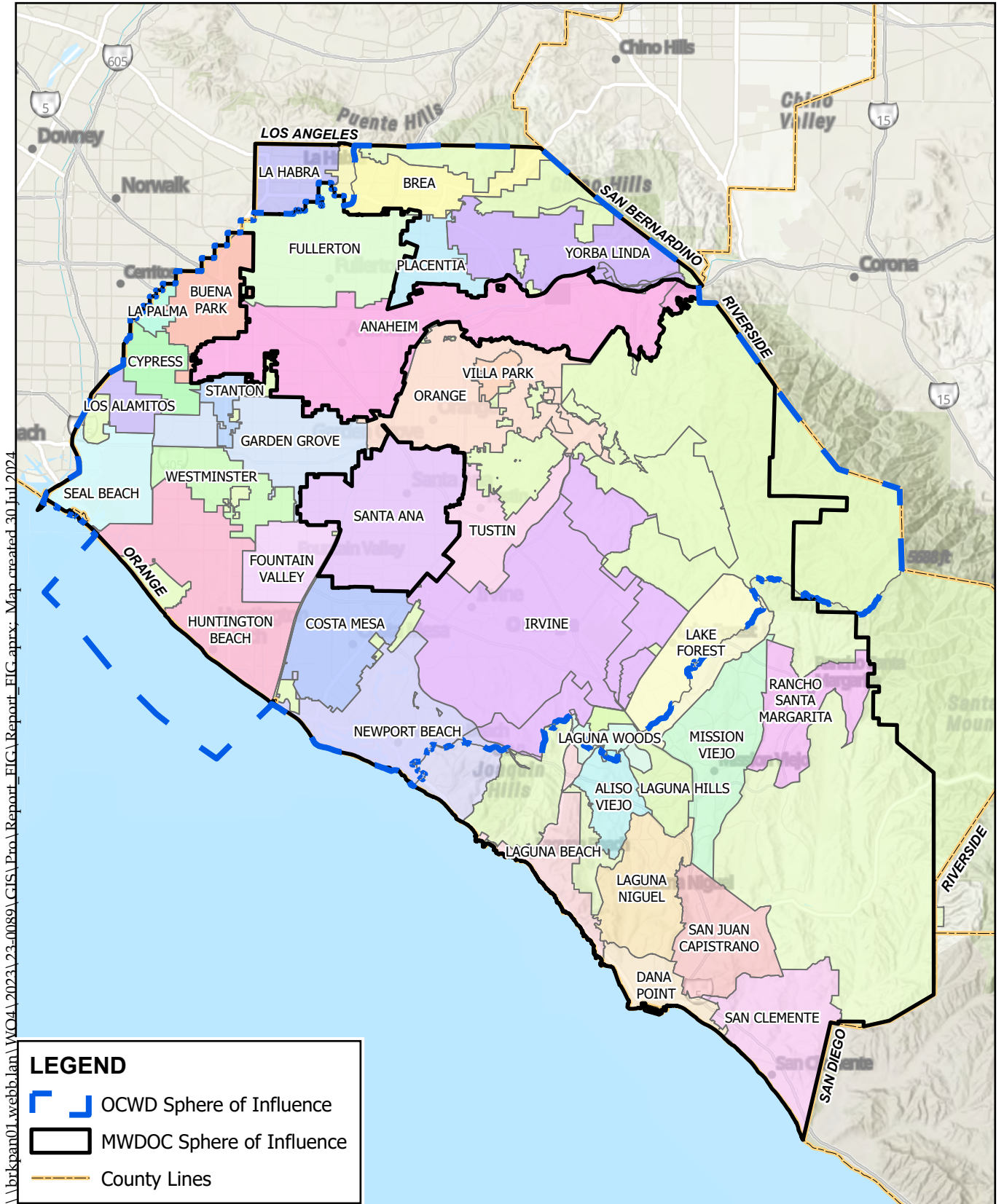


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Figure 8 - MWDOC Sphere of Influence

OCWD Municipal Service Review



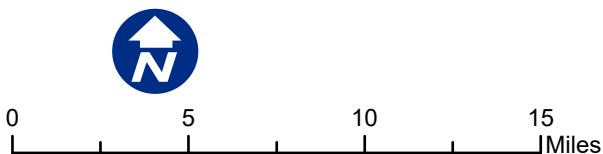


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Source: OCWD GIS, MWDOC GIS

Figure 9 - MWDOC and OCWD Sphere of Influence

OCWD Municipal Service Review



Merging of the two entities was also discussed in OC LAFCO reports, including the August 2009 Governance Study for the Municipal Water District of Orange County (OC LAFCO 2009) and September 2006 OCWD MSR/SOI Study (OC LAFCO 2006). The September 2006 OCWD MSR/SOI Study did not have a fiscal analysis but based on stakeholder discussions determined consolidation with MWDOC would not be feasible for the following reasons (OCWD 2006, p. 56):

- Implementing it would take an act of legislation because it involves changing OCWD's principal act.
- Merging these two agencies would not necessarily achieve great efficiencies in overall management of water resources in Orange County.
- Keeping these two agencies separate maintains an important check and balance system, preventing one agency from having control over water supply for the entire County.

The 2009 MWDOC Governance Study concluded, "that only two governance structure options, 'MWDOC Baseline' (or maintain status quo) and 'Reorganization of South County Agencies to Form a County Water Authority' are viable within the constraints imposed by existing law" (p. 78). A fiscal analysis was also not prepared as part of this study and alternatives that required changes to existing law were "parked" based on input from the stakeholders.

An MSR for OCWD was last conducted by OC LAFCO in 2013, which did not include a discussion of consolidation. The most recent MSR for MWDOC was completed in 2020, which also did not include a discussion of consolidation of the agencies.

5.2 Scope of Work

The scope of work for this study includes, but is not limited to, Gov Code Sections 56653, 56700, 56826.5, 56865, 57150(d), 57500, 57502, 57077.2 as well as the following topics:

- Fiscal sustainability of consolidating OCWD and MWDOC operations, infrastructure, programs, contracts and agreements, retirement plans, and other obligations through evaluation of each District's revenues and expenditures; audited financials; rates, fees, and assessments; rate studies and projections; debt obligations; current and projected staffing levels; and transition cost projections involving consolidation; and
- Potential benefits of consolidation.

5.3 Fiscal Sustainability of Consolidation

Fiscal sustainability is the ability of an agency to continue meeting its current obligations and expenditures without defaulting. Maintaining fiscal sustainability requires informed planning of future revenues and liabilities taking into account the many influencing factors that can drive prices up or down such as water rates and availability, equipment costs, and weather forecasts. To inform whether a consolidation of OCWD and MWDOC would be fiscally sustainable, this study begins with establishing a combined baseline of average expenses and revenues for operations, infrastructure, programs, contracts and agreements, retirement plans, and other obligations of both agencies. The baseline budget is then used to discern whether costs or savings could result for the Successor Agency upon consolidation. In this study, fiscal sustainability is measured through the effects of combining of employees, eliminating certain redundant staff positions, reducing overhead costs, reducing the number of board members, and modifying employee benefits.

Budget Comparison and Analysis

The baseline budget information used in this analysis is a three-year average of each agency’s board-adopted budgets for Fiscal Years 2021-22, 2022-23, and 2023-24. Using an average baseline budget reduces potential bias that may be introduced by a data outlier in any one year. The three-year average budget of each agency and their combined sum are shown in Table 13. Through consultation with staff from each agency, similar line items were grouped together into similar subgroups (e.g., “Salaries & Wages,” “Employee Benefits,” etc.) to compare each agency’s unique budget side-by-side. Therefore, some budget line items appear without value; for example, Column 3, Lines 3 through 7 have no budget because MWDOC does not have those line items in its budget for the last three fiscal years. Rather, those expenses for MWDOC are grouped into Lines 1 and 2, or they are simply not applicable as is the case with Line 5, Capitalized Salaries. Refer to Appendix A for descriptions of line items that have no assigned value in Table 13.

Table 13: Three-Year Average of Adopted Budget Expenses for OCWD and MWDOC

Column 1 Line	Column 2 Item Description ^(a)	Column 3 MWDOC Expenses ^(b)	Column 4 OCWD Expenses ^(b)	Column 5 Total Combined Expenses ^(c)
	Salaries & Wages			
1	Salaries & Wages	\$4,581,009	\$27,109,293	\$31,690,302
2	less for Recovery from Grants	(\$22,888)	\$0	(\$22,888)
3	Overtime	\$0	\$681,610	\$681,610
4	Payroll Taxes	\$0	\$460,440	\$460,440
5	Capitalized Salaries	\$0	(\$349,748)	(\$349,748)

Column 1 Line	Column 2 Item Description ^(a)	Column 3 MWD OC Expenses ^(b)	Column 4 OCWD Expenses ^(b)	Column 5 Total Combined Expenses ^(c)
6	Temporary Workers - General Total	\$0	\$149,167	\$149,167
7	Expense - Contra	\$0	(\$73,333)	(\$73,333)
	Subtotal	\$4,558,121	\$27,977,429	\$32,535,550
	Employee Benefits			
8	Employee Benefits	\$674,340	\$4,518,881	\$5,193,221
9	CALPERS Unfunded Liability Contribution	\$207,000	\$0	\$207,000
10	Health Insurance Coverage for Retirees	\$93,500	\$5,859	\$99,359
11	Retirement ^(d)	\$760,975	\$4,550,184	\$5,311,159
12	Capitalized Benefits	\$0	(\$99,997)	(\$99,997)
13	Retiree Health Trust	\$0	\$1,278,667	\$1,278,667
	Subtotal	\$1,735,815	\$10,253,593	\$11,989,409
	Director Fees & Costs			
14	Director Compensation	\$279,628	\$359,100	\$638,728
15	Director Benefits	\$132,891	\$0	\$132,891
16	MWD Representation	\$146,690	\$0	\$146,690
17	Election Expense	\$0	\$133,000	\$133,000
18	Contribution to Election Reserve	\$287,916	\$0	\$287,916
	Subtotal	\$847,125	\$492,100	\$1,339,225
	Insurance Expense			
19	Insurance Expense	\$150,992	\$695,567	\$846,559
20	Insurance Refund	\$0	(\$50,000)	(\$50,000)
21	Workers' Compensation	\$0	\$455,704	\$455,704
22	Claims Total	\$0	\$5,333	\$5,333
	Subtotal	\$150,992	\$1,106,604	\$1,257,596
	Office Supplies/Expense			
23	Office Expense - General Total	\$0	\$295,167	\$295,167
24	Outside Printing, Subscription & Books	\$87,567	\$0	\$87,567
25	Office Supplies	\$32,333	\$0	\$32,333
26	Postage / Mail Delivery	\$10,739	\$0	\$10,739
	Subtotal	\$130,639	\$295,167	\$425,806
	Supplies			
27	Supplies - Water Loss Control	\$4,000	\$0	\$4,000
28	Business Expense	\$2,333	\$0	\$2,333
29	Chemicals - Polymer Total	\$0	\$10,836,393	\$10,836,393
30	Operational Supplies	\$0	\$2,544,233	\$2,544,233
	Subtotal	\$6,333	\$13,380,627	\$13,386,960
	Professional Fees			
31	Legal Expense - General	\$233,917	\$966,667	\$1,200,583
32	Audit Expense	\$33,907	\$0	\$33,907
33	Outside Consulting Expense	\$365,667	\$0	\$365,667
34	Professional Fees	\$1,596,774	\$0	\$1,596,774
35	Professional Services - General Total	\$0	\$2,183,980	\$2,183,980
36	Legal Advertising Total	\$0	\$4,667	\$4,667
37	Professional Services - Engineer Total	\$0	\$673,333	\$673,333
38	Lab Samples Analysis Total	\$0	\$208,000	\$208,000
39	Security Program Total	\$0	\$445,867	\$445,867

Column 1 Line	Column 2 Item Description ^(a)	Column 3 MWD Expenses ^(b)	Column 4 OCWD Expenses ^(b)	Column 5 Total Combined Expenses ^(c)
	Subtotal	\$2,230,264	\$4,482,513	\$6,712,777
	Rent			
40	Rents & Leases	\$1,800	\$0	\$1,800
41	Rent Equipment - Gen Total	\$0	\$50,733	\$50,733
	Subtotal	\$1,800	\$50,733	\$52,533
	Vehicle Expense			
42	Vehicle Expense - Water Loss Control	\$8,381	\$0	\$8,381
43	Automotive & Toll Road Expenses	\$14,408	\$0	\$14,408
44	Gas & Diesel Fuel Total	\$0	\$115,267	\$115,267
45	Fuel - Off Road Total	\$0	\$117,667	\$117,667
	Subtotal	\$22,789	\$232,933	\$255,723
	Repairs & Maint			
46	Maintenance Expense	\$164,220	\$0	\$164,220
47	Building Repair & Maintenance	\$20,752	\$0	\$20,752
48	Maint Equipment	\$0	\$1,694,933	\$1,694,933
49	Building Repair & Maintenance	\$0	\$3,481,644	\$3,481,644
	Subtotal	\$184,972	\$5,176,577	\$5,361,549
	Computer & Software			
50	Software Support & Expense	\$130,690	\$0	\$130,690
51	Computer Maintenance	\$6,667	\$0	\$6,667
52	Computers and Equipment	\$36,800	\$0	\$36,800
53	Hardware/Software Total	\$0	\$448,167	\$448,167
	Subtotal	\$174,157	\$448,167	\$622,324
	Telephone Expense			
54	Telecommunications Expense	\$44,323	\$243,500	\$287,823
	Subtotal	\$44,323	\$243,500	\$287,823
	Memberships			
55	Membership / Sponsorship	\$152,085	\$483,661	\$635,746
56	CDR Participation	\$61,715	\$0	\$61,715
	Subtotal	\$213,799	\$483,661	\$697,461
	Conferences & Travel			
57	Conference Expense - Staff	\$50,199	\$0	\$50,199
58	Conference Expense - Directors	\$21,272	\$0	\$21,272
59	Travel & Accommodations - Staff	\$87,450	\$0	\$87,450
60	Travel & Accommodations - Directors	\$32,183	\$0	\$32,183
61	Travel/Conference/Mileage Total	\$0	\$138,800	\$138,800
	Subtotal	\$191,104	\$138,800	\$329,904
	Utilities Exp			
62	Utilities - Electricity Total	\$0	\$910,000	\$910,000
63	Utilities - Electricity (66Kv Fv Site Sce) Total	\$0	\$17,598,513	\$17,598,513
64	Utilities Electrical Curtailment Power Cr	\$0	(\$933,333)	(\$933,333)
65	Utilities - Gas Total	\$0	\$58,667	\$58,667
66	Utilities - Water Total	\$0	\$97,333	\$97,333
	Subtotal	\$0	\$17,731,179	\$17,731,179
	Training			
67	Training Expense	\$47,000	\$136,385	\$183,385

Column 1 Line	Column 2 Item Description ^(a)	Column 3 MWDOC Expenses ^(b)	Column 4 OCWD Expenses ^(b)	Column 5 Total Combined Expenses ^(c)
68	Tuition Reimbursement	\$5,000	\$0	\$5,000
69	Education Tuition Reimbursement Total	\$0	\$32,000	\$32,000
70	Subscriptions Total	\$0	\$38,233	\$38,233
	Subtotal	\$52,000	\$206,618	\$258,618
	Misc Exp			
71	Miscellaneous Expense	\$105,767	\$2,250	\$108,017
72	Temporary Help Expense	\$5,000	\$0	\$5,000
73	MWDOC's Contribution to WEROC: Operations	\$283,314	\$0	\$283,314
74	WFB/County Banking Charge Total	\$0	\$40,000	\$40,000
	Subtotal	\$394,081	\$42,250	\$436,331
	Marketing			
75	Event and Marketing	\$0	\$1,056,617	\$1,056,617
76	MWDOC Cost Share	\$0	(\$6,000)	(\$6,000)
	Subtotal	\$0	\$1,050,617	\$1,050,617
	Inter-agency			
77	Licenses And Permits Total	\$0	\$93,179	\$93,179
78	Inter Agency Total	\$0	\$767,636	\$767,636
79	Taxes & Assessments Total	\$0	\$73,946	\$73,946
	Subtotal	\$0	\$934,762	\$934,762
	Capital Acquisition			
80	Capital Acquisition (excluding building)	\$137,410	\$0	\$137,410
81	Capital Acq Prior Year Carryover Credit	(\$1,934)	\$0	(\$1,934)
82	Capital Projects (Debt & PAYGO funded)	\$0	\$160,909,914	\$160,909,914
83	New Equipment	\$0	\$429,700	\$429,700
	Subtotal	\$135,476	\$161,339,614	\$161,475,090
	Building Expense			
84	MWDOC's Building Expense	\$512,896	\$0	\$512,896
85	Building Expense Prior Year Carryover Credit	(\$50,318)	\$0	(\$50,318)
	Subtotal	\$462,579	\$0	\$462,579
	PFAS			
86	PFAS O&M Expenditure	\$0	\$3,087,667	\$3,087,667
	Subtotal	\$0	\$3,087,667	\$3,087,667
	Water Expenses			
87	Water Purchases	\$169,380,146	\$9,011,156	\$178,391,303
88	Local Resource Program Incentives	(\$4,789,759)	\$0	(\$4,789,759)
89	Readiness-To-Serve Charge	\$12,017,805	\$0	\$12,017,805
90	Capacity Charge	\$4,981,793	\$0	\$4,981,793
91	SCP/SAC Pipeline Surcharge	\$330,333	\$0	\$330,333
	Subtotal	\$181,920,319	\$9,011,156	\$190,931,476
	Debt Expenses			
92	Debt Service	\$0	\$42,048,787	\$42,048,787
	Subtotal	\$0	\$42,048,787	\$42,048,787
	Replacement and Refurbishment (R&R) Expenses			

Column 1 Line	Column 2 Item Description ^(a)	Column 3 MWDOC Expenses ^(b)	Column 4 OCWD Expenses ^(b)	Column 5 Total Combined Expenses ^(c)
93	R&R Fund Expenditures	\$0	\$16,381,543	\$16,381,543
94	Appropriation to R&R Reserves	\$0	\$6,898,423	\$6,898,423
	Subtotal	\$0	\$23,279,966	\$23,279,966
	Total	\$193,456,689	\$323,495,021	\$516,951,711

(a) Line item descriptions in Column 2 appear exactly as written in each agency's budget. Similar line items were grouped in consultation with each agency as part of this study.

(b) All values shown in this table are a three-year average of the respective agency's last three years of adopted budgets, including negative values (FY 21/22, FY 22/23, and FY 23/24).

(c) Column 5 is the sum of Columns 3 and 4. Refer to Appendix A for explanations of cells with no value.

(d) This line item includes retirement benefits for members of the OCWD Board of Directors. Members of the MWDOC Board of Directors are not eligible to participate in the CalPERS retirement benefit that is provided to MWDOC employees. Instead, they can participate in a 401(a) plan in lieu of FICA at a rate of 7.5% and participate in the District's deferred compensation retirement plan (457 plan) on a voluntary basis at their own cost.

As shown in Table 13, MWDOC's average budgeted expenses are about 60 percent of OCWD's average budgeted expenses. Combined, the average three-year budgets of the two agencies total approximately \$517 million.

Opportunities for Cost-Savings Upon Consolidation

Consolidating two agencies that provide similar services into a Successor Agency may create redundancies in certain areas, such as governance, staffing, facilities, and infrastructure. Identifying where those redundancies exist is an important step in determining opportunities for cost savings and efficiencies. One area that was identified during this study was employee positions that would likely become redundant and ultimately reorganized as a result of consolidation of the agencies. Logic dictates that certain executive and administrative positions would become redundant upon consolidation.

As stated in the FY 2023-24 board-adopted budgets, OCWD has 226 full-time equivalent (FTE) positions and MWDOC has 38 FTE positions.¹⁹ The executive level management positions and supportive administrative positions employed by each agency that were deemed potentially redundant upon consolidation are shown in Table 14. For this finding, redundant means each agency had an employee with the same title or similar role as the other agency that could be reorganized into a single position or eliminated as a result of consolidation.

¹⁹ MWDOC Board of Directors' Administration & Finance Committee Meeting on April 12, 2023, and OCWD Board of Directors Meeting on April 19, 2023.

Table 14: Summary of Potentially Redundant Employee Positions

Department	Position	Redundant Positions	Average Annual Salary ⁽¹⁾	Total
Administration	Administrative Assistant	2	\$6,144	\$122,289
Administration	District Secretary	1	\$149,392	\$149,392
Administration	Records Coordinator	1	\$73,994	\$73,994
Engineering	Director of Engineering	1	\$214,106	\$214,106
Finance	Accounting Manager	1	\$158,115	\$158,115
Finance	Senior Accountant	1	\$102,667	\$102,667
General Manager	Executive Assistant	1	\$90,113	\$90,113
General Manager	General Manager	1	\$345,269	\$345,269
Human Resources	Director of Human Resources	1	\$189,791	\$189,791
Information Services	Database Coordinator	1	\$50,738	\$50,738
Information Services	Financial Analyst/Database Analyst	1	\$125,866	\$125,866
Information Services	Network Systems Engineer	1	\$123,127	\$123,127
Public Affairs	Director of Public Affairs	1	\$187,040	\$187,040
Public Affairs	Public Affairs Coordinator	3	\$55,376	\$166,127
Public Affairs	Public Affairs Manager/Liaison	1	\$153,141	\$153,141
Total		18	\$2,079,877	\$2,251,773

(1) Positions and salaries for each agency were obtained from the State Controller's *Government Compensation in California* website, which is published under the authority of Gov Code section 12463 (<https://publicpay.ca.gov/>). The salaries of same/similar positions of the two agencies were averaged together for this analysis.

To determine which staff positions were redundant, a detailed comparison was conducted of the full roster of positions including salary information for both MWDOC and OCWD. As shown in Table 14, approximately \$2.25 million could be saved through reducing overall staffing of the Successor Agency by 18 FTE positions for a total of 246 FTEs. For example, within the positions classified as administrative such as Administrative Assistant, District Secretary, and Records Coordinator a total of nine positions could be reduced to five positions for efficiency or to eliminate redundancy. This reasoning for the most part holds true for the balance of the positions referenced in Table 14, including for most non-technical and leadership positions that are cross trainable and/or redundant. While these actions would reorganize or eliminate certain positions, it would align the required staffing resources to support the operations of a single Successor Agency while eliminating redundancy in positions and responsibilities to ultimately achieve cost savings and efficiencies. In the event a consolidation occurs,

the Successor Agency will need to consider its consolidated staffing needs before determining which positions can be reorganized and/or eliminated.

Economies of scale can occur when fixed costs are spread across more units. With the consolidation of MWDOC and OCWD employees (i.e., $38 + 226 = 264$ FTE's), some redundant positions may be eliminated as previously discussed (18 positions), and the Successor Agency would ultimately have more employees (i.e., $264 - 18 = 246$ FTE's) than either OCWD or MWDOC individually. Therefore, certain administrative and operational expenses of the Successor Agency could decrease as a result of economies of scale including insurance expenses (workers compensation), office supplies and expenses, professional fees, computer and software expenses, telephone expenses, travel expenses, and training expenses. To calculate the savings from economies of scale, these expenditures were reduced proportionally to the reduction in the number of FTE's (18) using the average of the expenses of MWDOC and OCWD per FTE. Reduced expenditures for the Successor Agency could also be expected in training, sponsorships, subscriptions, and memberships. For example, expenditures for participation with groups like the Association of California Water Agencies, the California Special Districts Association, the Independent Special Districts of Orange County, the Orange County Water Association, the Orange County Business Council, and the Water Advisory Committee of Orange County.

In regard to employee healthcare benefits, a similar economies of scale could occur through elimination of redundant positions. These expenditures were reduced proportionally to the reduction in the number of FTE's (18 positions) using the average of the expenses of MWDOC and OCWD per FTE.

In addition to staffing efficiencies and economies of scale for expenses and healthcare benefits, consolidation can also result in a change in the total number of directors representing the Successor Agency. Currently, MWDOC and OCWD have a combined 17 board members (10 for OCWD and seven for MWDOC). To maintain appropriate governance representation, this study assumes that the Successor Agency Board of Directors would consist of 10 members representing the consolidated boundary of the respective service areas. This study also assumes the Successor Agency would have representation on The Metropolitan Water District of Southern California Board of Directors as well, which has an associated cost. Some cost savings would result from this governance restructure through an overall reduction in per diem payments, director benefits, retirement contributions, travel expenses, conference attendance, and election expenses.²⁰

²⁰ A water district does not necessarily have to provide compensation or benefits to its board members. California Water Code Section 20201 sets the maximum amount of compensation per meeting at \$100 unless compensation

Using the combined three-year average budgets of MWDOC and OCWD in Table 13, the redundant employee positions identified in Table 14, economies of scale for certain expenses and healthcare benefits, and the reduction in board members from 17 to 10 members, a consolidated budget has been prepared in Table 15 for a hypothetical Successor Agency that reflects the aforementioned savings and additional expenses assumed as a result of consolidation. Because the OCWD and MWDOC budgets have different degrees of specificity and categorization methodology, and in order to present the agency comparison that is needed in determining the feasibility of consolidation, similar budget line items through discussions with representatives of each agency, have been grouped together (e.g., Salaries & Wages, Employee Benefits, Director’s Fees & Costs, etc.). It should be noted the analyses noted in this MSR are high-level attempts to compare and identify associated costs and savings resulting from consolidation of the agencies into a single successor agency.

Table 15: Estimated Results of Consolidation Excluding Retirement Expenses

Column 1 Line	Column 2 Item Description ^(a)	Column 3 Combined MWDOC & OCWD Average Expenses ^(b)	Column 4 Estimated Expenses of Successor Agency ^(c)	Column 5 Estimated Annual (Savings) / Costs ^(d)
	Salaries & Wages			
1	Salaries & Wages	\$31,690,302	\$29,438,529	(\$2,251,773)
2	less for Recovery from Grants	(\$22,888)	(\$22,888)	\$0
3	Overtime	\$681,610	\$681,610	\$0
4	Payroll Taxes	\$460,440	\$460,440	\$0
5	Capitalized Salaries	(\$349,748)	(\$349,748)	\$0
6	Temporary Workers - General Total	\$149,167	\$149,167	\$0
7	Expense - Contra	(\$73,333)	(\$73,333)	\$0
	Subtotal	\$32,535,550	\$30,283,777	(\$2,251,773)
	Employee Benefits^(e)			
8	Employee Benefits	\$5,193,221	\$4,642,123	(\$551,098)
9	CALPERS Unfunded Liability Contribution ^(e)	\$207,000	\$294,704 ^(f)	\$87,704
10	Health Insurance Coverage for Retirees	\$99,359	\$99,359	\$0
11	Retirement ^(e)	\$5,311,159	\$2,902,609	\$0
12	Capitalized Benefits	(\$99,997)	(\$99,997)	\$0
13	Retiree Health Trust	\$1,278,667	\$1,278,667	\$0

is prohibited by the agency’s principal act. Water Code Section 20201 also authorizes board members to increase compensation above \$100, but there are notable restrictions on a water supplier’s ability to do so. Under Government Code sections 53201 and 53205.1, special district board members can receive group insurance benefits if the board elects to do so. And a special district board may elect to also provide benefits to its retired board members, and the families of board members and retired board members. Benefits for board members can include medical, dental, vision, and life insurance. The provision of compensation and benefits to board members are subject to local laws/ordinances passed by the district.

Column 1	Column 2	Column 3	Column 4	Column 5
Line	Item Description ^(a)	Combined MWDOC & OCWD Average Expenses ^(b)	Estimated Expenses of Successor Agency ^(c)	Estimated Annual (Savings) / Costs ^(d)
	Subtotal	\$11,989,409	\$9,029,761	(\$463,394)
	Director Fees & Costs			
14	Director Compensation	\$638,728	\$375,722	(\$263,006)
15	Director Benefits	\$132,891	\$78,171	(\$54,720)
16	MWD Representation	\$146,690	\$146,690	\$0
17	Election Expense	\$133,000	\$66,500	(\$66,500)
18	Contribution to Election Reserve	\$287,916	\$143,958	(\$143,958)
	Subtotal	\$1,339,225	\$811,042	(\$528,183)
	Insurance Expense			
19	Insurance Expense	\$846,559	\$846,559	\$0
20	Insurance Refund	(\$50,000)	(\$50,000)	\$0
21	Workers' Compensation	\$455,704	\$437,557	(\$18,148)
22	Claims Total	\$5,333	\$5,333	\$0
	Subtotal	\$1,257,596	\$1,239,449	(\$18,148)
	Office Supplies/Expense			
23	Office Expense - General Total	\$295,167	\$268,897	(\$26,270)
24	Outside Printing, Subscription & Books	\$87,567	\$79,773	(\$7,793)
25	Office Supplies	\$32,333	\$29,456	(\$2,878)
26	Postage / Mail Delivery	\$10,739	\$10,739	\$0
	Subtotal	\$425,806	\$388,865	(\$36,941)
	Supplies			
27	Supplies - Water Loss Control	\$4,000	\$4,000	\$0
28	Business Expense	\$2,333	\$2,333	\$0
29	Chemicals - Polymer Total	\$10,836,393	\$10,836,393	\$0
30	Operational Supplies	\$2,544,233	\$2,544,233	\$0
	Subtotal	\$13,386,960	\$13,386,960	\$0
	Professional Fees			
31	Legal Expense - General	\$1,200,583	\$1,080,525	(\$120,058)
32	Audit Expense	\$33,907	\$0	(\$33,907)
33	Outside Consulting Expense	\$365,667	\$329,100	(\$36,567)
34	Professional Fees	\$1,596,774	\$1,437,096	(\$159,677)
35	Professional Services - General Total	\$2,183,980	\$2,183,980	\$0
36	Legal Advertising Total	\$4,667	\$4,667	\$0
37	Professional Services - Engineer Total	\$673,333	\$673,333	\$0
38	Lab Samples Analysis Total	\$208,000	\$208,000	\$0
39	Security Program Total	\$445,867	\$445,867	\$0
	Subtotal	\$6,712,777	\$6,362,568	(\$350,209)
	Rent			
40	Rents & Leases	\$1,800	\$1,800	\$0
41	Rent Equipment - Gen Total	\$50,733	\$50,733	\$0
	Subtotal	\$52,533	\$52,533	\$0
	Vehicle Expense			
42	Vehicle Expense - Water Loss Control	\$8,381	\$8,381	\$0
43	Automotive & Toll Road Expenses	\$14,408	\$14,408	\$0

Column 1	Column 2	Column 3	Column 4	Column 5
Line	Item Description ^(a)	Combined MWDOC & OCWD Average Expenses ^(b)	Estimated Expenses of Successor Agency ^(c)	Estimated Annual (Savings) / Costs ^(d)
44	Gas & Diesel Fuel Total	\$115,267	\$115,267	\$0
45	Fuel - Off Road Total	\$117,667	\$117,667	\$0
	Subtotal	\$255,723	\$255,723	\$0
	Repairs & Maint			
46	Maintenance Expense	\$164,220	\$0	(\$164,220)
47	Building Repair & Maintenance	\$20,752	\$0	(\$20,752)
48	Maint Equipment	\$1,694,933	\$1,859,153	\$164,220
49	Building Repair & Maintenance	\$3,481,644	\$3,502,396	\$20,752
	Subtotal	\$5,361,549	\$5,361,549	\$0
	Computer & Software			
50	Software Support & Expense	\$130,690	\$99,737	(\$30,953)
51	Computer Maintenance	\$6,667	\$5,088	(\$1,579)
52	Computers and Equipment	\$36,800	\$28,084	(\$8,716)
53	Hardware/Software Total	\$448,167	\$430,319	(\$17,847)
	Subtotal	\$622,324	\$563,229	(\$59,095)
	Telephone Expense			
54	Telecommunications Expense	\$287,823	\$267,628	(\$20,194)
	Subtotal	\$287,823	\$267,628	(\$20,194)
	Memberships			
55	Membership / Sponsorship	\$635,746	\$580,465	(\$55,281)
56	CDR Participation	\$61,715	\$0	(\$61,715)
	Subtotal	\$697,461	\$580,465	(\$116,996)
14	Conferences & Travel			
57	Conference Expense - Staff	\$50,199	\$35,139	(\$15,060)
58	Conference Expense - Directors	\$21,272	\$10,636	(\$10,636)
59	Travel & Accommodations - Staff	\$87,450	\$61,215	(\$26,235)
60	Travel & Accommodations - Directors	\$32,183	\$16,092	(\$16,092)
61	Travel/Conference/Mileage Total	\$138,800	\$97,160	(\$41,640)
	Subtotal	\$329,904	\$220,242	(\$109,662)
	Utilities Exp			
62	Utilities - Electricity Total	\$910,000	\$910,000	\$0
63	Utilities - Electricity (66Kv Fv Site Sce) Total	\$17,598,513	\$17,598,513	\$0
64	Utilities Electrical Curtailment Power Cr	(\$933,333)	(\$933,333)	\$0
65	Utilities - Gas Total	\$58,667	\$58,667	\$0
66	Utilities - Water Total	\$97,333	\$97,333	\$0
	Subtotal	\$17,731,179	\$17,731,179	\$0
	Training			
67	Training Expense	\$183,385	\$154,788	(\$28,597)
68	Tuition Reimbursement	\$5,000	\$0	(\$5,000)
69	Education Tuition Reimbursement Total	\$32,000	\$35,816	\$3,816
70	Subscriptions Total	\$38,233	\$38,233	\$0
	Subtotal	\$258,618	\$228,837	(\$29,781)
	Misc Exp			
71	Miscellaneous Expense	\$108,017	\$108,017	\$0

Municipal Service Review (MSR 22-06) and Sphere of Influence Review (SOI 23-06)
Orange County Water District

Column 1	Column 2	Column 3	Column 4	Column 5
Line	Item Description ^(a)	Combined MWDOC & OCWD Average Expenses ^(b)	Estimated Expenses of Successor Agency ^(c)	Estimated Annual (Savings) / Costs ^(d)
72	Temporary Help Expense	\$5,000	\$5,000	\$0
73	MWDOC's Contribution to WEROC: Operations	\$283,314	\$283,314	\$0
74	WFB/County Banking Charge Total	\$40,000	\$40,000	\$0
	Subtotal	\$436,331	\$436,331	\$0
	Marketing			
75	Event and Marketing	\$1,056,617	\$1,056,617	\$0
76	MWDOC Cost Share	(\$6,000)	(\$6,000)	\$0
	Subtotal	\$1,050,617	\$1,050,617	\$0
	Inter-agency			
77	Licenses And Permits Total	\$93,179	\$93,179	\$0
78	Inter Agency Total	\$767,636	\$767,636	\$0
79	Taxes & Assessments Total	\$73,946	\$73,946	\$0
	Subtotal	\$934,762	\$934,762	\$0
	Capital Acquisition			
80	Capital Acquisition (excluding building)	\$137,410	\$137,410	\$0
81	Capital Acq Prior Year Carryover Credit	(\$1,934)	(\$1,934)	\$0
82	Capital Projects (Debt & PAYGO funded)	\$160,909,914	\$160,909,914	\$0
83	New Equipment	\$429,700	\$429,700	\$0
	Subtotal	\$161,475,090	\$161,475,090	\$0
	Building Expense			
84	MWDOC's Building Expense	\$512,896	\$512,896	\$0
85	Building Expense Prior Year Carryover Credit	(\$50,318)	(\$50,318)	\$0
	Subtotal	\$462,579	\$462,579	\$0
	PFAS			
86	PFAS O&M Expenditure	\$3,087,667	\$3,087,667	\$0
	Subtotal	\$3,087,667	\$3,087,667	\$0
	Water Expenses			
87	Water Purchases	\$178,391,303	\$178,391,303	\$0
88	Local Resource Program Incentives	(\$4,789,759)	(\$4,789,759)	\$0
89	Readiness-To-Serve Charge	\$12,017,805	\$12,017,805	\$0
90	Capacity Charge	\$4,981,793	\$4,981,793	\$0
91	SCP/SAC Pipeline Surcharge	\$330,333	\$330,333	\$0
	Subtotal	\$190,931,476	\$190,931,476	\$0
	Debt Expenses			
92	Debt Service	\$42,048,787	\$42,048,787	\$0
	Subtotal	\$42,048,787	\$42,048,787	\$0
	Replacement and Refurbishment (R&R) Expenses			
93	R&R Fund Expenditures	\$16,381,543	\$16,381,543	\$0
94	Appropriation to R&R Reserves	\$6,898,423	\$6,898,423	\$0
	Subtotal	\$23,279,966	\$23,279,966	\$0
	Total^(e)	\$516,951,710	\$512,395,314	(\$3,984,377)

Column 1	Column 2	Column 3	Column 4	Column 5
Line	Item Description ^(a)	Combined MWDOC & OCWD Average Expenses ^(b)	Estimated Expenses of Successor Agency ^(c)	Estimated Annual (Savings) / Costs ^(d)

(a) Line item descriptions appear exactly as written in each agency's adopted budget. Similar line items were grouped together with subheaders in consultation with each agency as part of this study.

(b) Column 3 in this table is the same as Column 5 in Table 13.

(c) Estimated Budget of Successor Agency (Column 4) is the difference between Column 3 (Combined Agency Budgets) and Column 5 (Estimated Annual Savings/Cost).

(d) Estimated Annual Savings/Cost (Column 5) represents savings/cost upon consolidation. Refer to Appendix B for explanations of what each savings/cost consists. No inflationary factors were applied in this table.

(e) No changes to the retirement benefits that are in Lines 9 and 11 are reflected in this table. Their costs are held static in order to highlight savings/costs outside of changes to retirement plans. Changes to retirement benefits are shown in Tables 16 and 18.

(f) MWDOC budgets consistently show \$207,000; however, according to CalPERS annual evaluation reports (Classic and PEPRA reports combined) as of June 30, 2022, reflect an unfunded liability total payment of \$294,704, including net present value discount of approximately 3.2%.

As shown in Table 15, no net savings is expected for Successor Agency expenses related to repairs and maintenance (Replacement and Refurbishment) because it is assumed that the Successor Agency would provide the same services currently being provided by each agency independently and would be required to repair and maintain the same assets and equipment to provide continuity and uninterrupted services. Furthermore, Table 15 reflects the assumption that existing expenses for public services, programs, and activities will continue to be provided or performed by the Successor Agency in the same manner and to the same customers that are currently being served. Likewise, the facilities currently owned by each agency shall be retained, operated, and maintained by the Successor Agency. Likewise, expenses related to technical supplies, rent, vehicle expenses, repair and maintenance, utilities, miscellaneous items, marketing, inter-agency expenses, capital acquisition, building expenses, and PFAS O&M have been maintained in the Successor Agency budget in Table 15, as it is assumed those expenses would not immediately increase or decrease as the result of a consolidation.

The consolidated budget of a Successor Agency in Table 15 reflects cost savings in the amount of approximately \$3.98 million, but it does not reflect any changes to retirement plans as discussed previously, or temporary transitional costs associated with undertaking a consolidation. Examples of temporary transitional costs may include establishing single retirement and Other Post-Employment Benefit (OPEB) plans, reorganization of employee positions, associated legal fees, consultant fees, and other

unknown or unanticipated costs.²¹ Further detailed review of the scope and function of professional service providers may allow for additional efficiencies, economies of scale, and resulting savings.

Retirement Plans

OCWD offers a defined contribution plan to its employees (i.e., 401(k) plan)²² and MWDOC offers its employees a defined benefit plan (i.e., California Public Employees' Retirement System "CalPERS").²³ To evaluate the potential costs or savings from a change to the provided retirement plans upon consolidation, three scenarios were reviewed:

A Successor Agency offering both a defined benefit and defined contribution plan to employees.

A Successor Agency offering a defined benefit program to employees (in this instance, CalPERS).

A Successor Agency offering a defined contribution program to employees.

Retirement Plan Scenario 1

The first scenario, where a Successor Agency offers a defined benefit plan such as CalPERS, and a defined contribution plan to employees is likely infeasible because of a prior legal challenge. In the 2004 California Supreme Court Case, *Metropolitan Water District of Southern California v. Superior Court of Los Angeles County*, the court ruled that MWD was mandated to enroll all common law employees in CalPERS, except those excluded under a specific statutory or contractual provision.²⁴ This ruling essentially requires any CalPERS member agency to enroll all eligible employees in CalPERS, effectively negating the idea of offering a dual retirement plans.

Retirement Plan Scenario 2

The second scenario of a Successor Agency offering a defined benefit program would facilitate the enrollment in CalPERS of all eligible agency employees. Each new plan participant of the Successor Agency (which would be all OCWD employees) would be

²¹ Other Post-Employment Benefits (OPEB) are benefits that an employee receives after their employment, but are not considered part of their pension. This commonly consists of retiree medical insurance.

²² A defined contribution plan is a retirement plan where an employee and/or employer contribute money into an individual account for the employee. The contributions are usually invested on the employee's behalf, and the account's value changes based on the contributions and the investments' performance.

²³ A defined benefit plan is a retirement plan that provides employees with a fixed monthly benefit when they retire. The benefit is usually based on the employee's salary and length of service and may be calculated using a formula.

²⁴ "Cargill" (2004) 32 Cal. 4th 491.

required to complete an enrollment form and would be evaluated to determine if they would be subject to the Public Employees’ Pension Reform Act (PEPRA) as a new member or whether they would qualify for a Non-PEPRA classic CalPERS membership. However, without an actuarial evaluation, the precise quantification of the annual cost to provide a defined benefit program is not possible.

For the purpose of this study, an estimate is made using rates and amounts from the MWDOC PEPRA actuarial valuation for the reporting period ended June 30, 2022. The employer contribution rate for the 2024-25 fiscal year, net of employee contribution offset, is 7.9% of payroll. This assumes all newly enrolled employees join on a go-forward basis, with no assumptions of retroactive enrollment benefits. Using required contribution amounts from MWDOC actuarial reports for the 2024-25 fiscal year, plus estimated salaries of the newly enrolled employees (\$27,109,293 from Line 1 of Table 13), the estimated annual contribution would be approximately \$2,902,609. There may be additional transitional costs which are unknown at this time.

Table 16: Employee Benefits for Successor Agency Budget Comparison and Proforma with Defined Benefit Plan (CalPERS)

Column 1	Column 2	Column 3	Column 4	Column 5
Line	Item Description	Combined MWDOC & OCWD Expenses	Estimated Budget of Successor Agency	Estimated Annual (Savings) / Costs
	Employee Benefits			
8	Employee Benefits	\$5,193,221	\$4,642,123	(\$551,098)
9	<i>CALPERS Unfunded Liability Contribution</i>	\$207,000	\$294,704	\$87,704
10	Health Insurance Coverage for Retirees	\$99,359	\$99,359	\$0
11	<i>Retirement</i>	\$5,311,159	\$2,902,609	(\$2,408,550)
12	Capitalized Benefits	(\$99,997)	(\$99,997)	\$0
13	Retiree Health Trust	\$1,278,667	\$1,278,667	\$0
	Total	\$11,989,409	\$9,117,465	(\$2,871,944)

Note: Line 11 is the only line that differs from the prior Table 15 and subsequent Table 18.

As shown in Table 16, if the Successor Agency transitions to CalPERS, then the Employee Benefits could result in a net annual savings of approximately \$2,871,944. Of which, \$2,408,550 would be in addition to the total savings identified in Table 15 (\$3.98 million) for an overall estimated net savings of approximately \$6,391,927.

Retirement Plan Scenario 3

The third scenario analyzed herein is a Successor Agency offer of enrollment in a defined benefit contribution plan (401(k)), which requires the payment of an unfunded termination liability to CalPERS to end the availability of the defined benefit option and plan with

CalPERS. To evaluate this potential option, the CalPERS Actuarial Evaluation from June 30, 2022 was used, and the cost to terminate membership is estimated to range between \$9,882,750 to \$23,762,256 for classic (Non-PEPRA) members and between \$503,748 and \$2,241,665 for PEPRA members (Table 17). These estimates are based on Discount Rates ranging from 1.75% to 4.5% and Inflation Rates ranging from 2.5% to 2.75%. Also included in these estimated termination liabilities is a 5% contingency load.²⁵

Table 17: CalPERS Termination Liability Summary

	Low	High
Discount Rate	1.75%	4.50%
Price Inflation	2.50%	2.75%
CLASSIC	\$9,882,750	\$23,762,256
PEPRA	\$503,748	\$2,241,665
Total	\$10,386,498	\$26,003,921

Source: CalPERS Actuarial Valuation – June 30, 2022, PEPRA Miscellaneous Plan of the Municipal Water District of Orange County

When a CalPERS member agency terminates its membership with CalPERS, the agency would need to contact the CalPERS Pension Contract Services department and initiate a Resolution of Intent to Terminate and obtain a more up-to-date estimate of its retirement liabilities. Once obtained, the unfunded termination liability should then be evaluated by the Successor Agency, including the engagement of qualified professionals (internal and external) and general counsel specializing in municipal advising. The Successor Agency may also consider making a cash payment from available unrestricted cash assets or reserves and/or, financing the liability through Pension Obligation Bonds (POBs).²⁶

The estimated annual impact of transitioning all employees of the Successor Agency to a defined contribution retirement plan has been projected using the calculation of the current percentage of retirement contribution to current salary and wage expenses for the Agency offering the defined contribution plan (i.e., OCWD). As shown in Table 18, if

²⁵ Source: CalPERS Actuarial Valuation Miscellaneous Plan and PEPRA Miscellaneous Plan CalPERS ID: 649793438

²⁶ POBs are taxable bonds that some state and local governments issue to pay off unfunded pension liabilities. POBs carry significant risks, including investment risk and timing risk. It should be noted that options described above should be fully evaluated for impacts such as a reduction in interest earnings related to the cash payment, or the requirement to pay an annual debt service payment related to the issuance of POB's. Mention of these options are for informational purposes and do not represent professional advice or recommendation.

the Successor Agency offers only a defined contribution retirement plan, then the estimated annual savings of consolidation related to retirement benefits is approximately \$376,734. However, this estimated annual savings does not take into account potential annual debt service payment required should any type of financing mechanism be leveraged to fund the termination liability. An estimate of that annual payment requirement would need to be provided in consultation with a Municipal Advisor.

Table 18: Employee Benefits for Successor Agency Budget Comparison and Proforma with Defined Contribution Plan (401(k))

Column 1	Column 2	Column 3	Column 4	Column 5
Line	Item Description	Combined MWDOC & OCWD Expenses	Estimated Budget of Successor Agency	Estimated Annual (Savings) / Costs
	Employee Benefits			
8	Employee Benefits	\$5,193,221	\$4,642,123	(\$551,098)
9	CALPERS Unfunded Liability Contribution	\$207,000	\$0	(\$207,000)
10	Health Insurance Coverage for Retirees	\$99,359	\$99,359	\$0
11	Retirement	\$4,550,184	\$4,931,548	\$381,364
12	Capitalized Benefits	(\$99,997)	(\$99,997)	\$0
13	Retiree Health Trust	\$1,278,667	\$1,278,667	\$0
	Total	\$11,228,434	\$10,851,700	(\$376,734)

Note: Lines 9 and 11 are the only lines that differ from the prior Tables 15 and 16.

As shown in Table 18, if the Successor Agency transitions to a defined contribution plan, then the Employee Benefits would have a net annual savings of approximately \$376,734, which is a reduction in savings of \$86,660 compared to that shown in Table 15. With the reduction in savings, the overall net savings would be approximately \$3,897,717. However, this does not include the termination payment for CalPERS, which ranges from \$10.4 million to \$26 million (Table 17).

Other Post-Employment Benefits

MWDOC and OCWD both offer defined benefit Other Post-Employment Benefit (OPEB) plans to their employees. An analysis of the benefits provided, the cost associated with those benefits, and termination payments required to eliminate one plan would need to be performed by the Successor Agency to determine the best route for consolidation of OPEB plans, if required.

Revenues

It is important to show revenues over time to allow for an evaluation of consistency and the ability of a Successor Agency to maintain expenses, whether higher or lower

following a consolidation. The three-year average board-adopted revenues of Fiscal Years 2021-22, 2022-23, and 2023-24 from both OCWD and MWDOC are shown in Table 19. These average revenues have been used to determine an estimated revenue proforma for a Successor Agency. No inflationary factors were considered because no future timeline for consolidation is being considered.

Table 19: Projected Average Annual Revenues of Successor Agency – Estimated from Three Year Average Revenues

Column 1 Revenues	Column 2 MWDOC Average Revenue ^(a)	Column 3 OCWD Average Revenue ^(a)	Column 4 Combined Revenue	Column 5 Estimated Successor Agency Revenue
Property Taxes	\$0	\$32,135,333	\$32,135,333	\$32,135,333
Replenishment Assessment (RA)	\$0	\$154,932,306	\$154,932,306	\$154,932,306
Basin Equity Assessment (BEA)	\$0	\$2,083,333	\$2,083,333	\$2,083,333
Facility Revenue from Other Agencies (GAP)	\$0	\$2,567,381	\$2,567,381	\$2,567,381
Investment/Interest Revenues	\$228,460	\$2,607,830	\$2,836,290	\$2,836,290
Rent, Royalties and Others	\$0	\$3,409,821	\$3,409,821	\$3,409,821
Grants	\$0	\$1,833,333	\$1,833,333	\$1,833,333
Draw from Construction Fund / SRF Loans /Debt	\$0	\$123,925,520	\$123,925,520	\$123,925,520
Retail Meter Charge	\$8,816,296	\$0	\$8,816,296	\$8,816,296
Ground Water Customer Charge	\$362,296	\$0	\$362,296	\$362,296
Miscellaneous Income	\$3,000	\$0	\$3,000	\$3,000
Choice Revenue	\$1,807,201	\$0	\$1,807,201	\$1,807,201
MWDOC Water Revenues^(b)				
Water Sales	\$169,380,146	\$0	\$169,380,146	\$169,380,146
Local Resource Program Incentives (Offset)	(\$4,789,759)	\$0	(\$4,789,759)	(\$4,789,759)
Readiness-To-Serve Charge	\$12,017,805	\$0	\$12,017,805	\$12,017,805
Capacity Charge	\$4,981,793	\$0	\$4,981,793	\$4,981,793
Interest Revenue - Tier 2 Contingency	\$5,016	\$0	\$5,016	\$5,016
SCP/SAC Pipeline Surcharge	\$330,333	\$0	\$330,333	\$330,333
Total Revenue	\$193,142,587	\$323,494,857	\$516,637,444	\$516,637,444

(a) The average of adopted budgets from Fiscal Years 2021-22, 2022-23, and 2023-24 are shown. No inflationary factors or other uncertain revenues are included. If the value is \$0, then that line item is not included in the budget revenues for that agency.

Column 1	Column 2	Column 3	Column 4	Column 5
Revenues	MWDOC Average Revenue ^(a)	OCWD Average Revenue ^(a)	Combined Revenue	Estimated Successor Agency Revenue

(b) Water Sales, Readiness-to-Serve Charge, Capacity Charge, and SCP/SAC Pipeline Surcharge are pass-through charges from MWD to MWDOC Member Agencies. LRP Incentives (Offset) are pass-through credits from MWD to MWDOC Member Agencies.

(c) The total average revenues shown here do not match the total average expenses in Tables 13 and 15 exactly because they are based on a three-year average and because Adopted Budgets may not have expenses that equal revenues in accordance with the agency's reserve policy.

As shown in Table 19, no change in average annual revenue of the Successor Agency is anticipated based on the assumption the Successor Agency will provide the same services as currently provided by OCWD and MWDOC. Services are expected to remain the same for the same population of member agencies and groundwater producers at the same service levels.

Infrastructure

The potential qualitative impact of consolidation on the infrastructure owned by MWDOC and OCWD is estimated to be minimal. This MSR for OCWD and the 2020 MSR for MWDOC identified no deficiencies in infrastructure. Because MWDOC and OCWD provide different services with overlapping service areas, all existing services (and the infrastructure necessary to provide those services) would be retained, operated, and maintained by the Successor Agency consistent with Gov Code Section 56653. The infrastructure expenses of the Successor Agency are noted in Table 13 and infrastructure revenue of the Successor Agency are noted in Table 19. The Successor Agency budget assumes that services provided by the agencies would not change and therefore does not include additional revenue, costs, or cost-savings respective to existing or future infrastructure. However, a temporary increase in costs for the Successor Agency to transition infrastructure contracts/agreements or develop a Capital Improvement Program should be anticipated but have not been estimated here. If an application for consolidation is submitted to OC LAFCO, then costs anticipated by the Successor Agency as a direct result of consolidation would be identified in the Plan of Service in accordance with Gov Code Section 56653.

Programs, Contracts, and Agreements

The potential qualitative impact of consolidation on programs, contracts, and agreements for the Successor Agency is estimated to be minimal. MWDOC and OCWD have developed robust and vital programs related to the services each provides. Consistent with Gov Code Section 56653, the current services would be continued by the Successor Agency at the same levels and to the same member agencies and

groundwater producers within the newly consolidated boundary. Upon creation of a Successor Agency, certain contracts and agreements that are held by OCWD and MWDOC would need to be reconsidered. Because MWDOC’s SOI encompasses most of OCWD and OCWD’s SOI encompasses most of the groundwater basin, savings related to contracts and agreements would likely be limited to those by and between the Agencies and overhead and/or administrative support services providers. An example is the fee OCWD currently pays to MWDOC to purchase imported water. Contracts that may need to be renegotiated upon creation of a consolidated Successor Agency include, but are not limited to, those listed in Appendix C. A temporary cost to transition programs, contracts, and agreements to the Successor Agency should be anticipated. Program expenses of the Successor Agency are noted in Table 13 and general revenue used to fund programs of the Successor Agency are noted in Table 19. A list of existing programs, projects, and agreements for OCWD and MWDOC that may need modifying if transferred to a Successor Agency is located in Appendix C.

Statement of Net Position

The Statement of Net Position is a calculation of the difference between all assets and liabilities of an entity. The combined Statement of Net Position for MWDOC and OCWD are shown in Table 20 and has been prepared using the respective final audited financials for FY ending June 30, 2023.

Table 20: Projected Statement of Net Position based on FY 2022-2023 Final Audited Financials

Column 1	Column 2	Column 3	Column 4	Column 5
Description	MWDOC FY 2022-2023	OCWD FY 2022-2023	Combined FY 2022-2023	Estimated Successor Agency
Assets and Deferred Outflows of Resources				
Current Restricted Assets				
Cash and Cash Equivalents ^(a)	\$365,110	\$2,094,523	\$2,459,633	\$2,459,633
Cash with Fiscal Agent	\$0	\$16,016,885	\$16,016,885	\$16,016,885
Investments	\$1,120,665	\$0	\$1,120,665	\$1,120,665
Custodial Escrow Retention	\$0	\$1,574,275	\$1,574,275	\$1,574,275
Accounts Receivable Other	\$2,169,947	\$0	\$2,169,947	\$2,169,947
Accrued Interest Receivable	\$149	\$0	\$149	\$149
Subtotal	\$3,655,871	\$19,685,683	\$23,341,554	\$23,341,554
Current Unrestricted Assets				
Cash and Cash Equivalents	\$6,740,899	\$61,245,251	\$67,986,150	\$67,986,150
Investments	\$2,875,886	\$228,281,053	\$231,156,939	\$231,156,939
Accounts Receivable	\$19,058,196	\$72,663,787	\$91,721,983	\$91,721,983
Accrued Interest Receivable	\$135,419	\$1,404,759	\$1,540,178	\$1,540,178
Inventory	\$0	\$4,819,812	\$4,819,812	\$4,819,812
Deposits and Prepaid Expenses	\$169,843	\$810,495	\$980,338	\$980,338
Grants Receivable	\$0	\$1,405,582	\$1,405,582	\$1,405,582

Column 1	Column 2	Column 3	Column 4	Column 5
Description	MWDOC FY 2022-2023	OCWD FY 2022-2023	Combined FY 2022-2023	Estimated Successor Agency
Current Portion of Notes Receivable	\$0	\$305,640	\$305,640	\$305,640
Leases Receivable, Due in Less Than One Year	\$0	\$1,378,042	\$1,378,042	\$1,378,042
Subtotal	\$28,980,243	\$372,314,421	\$401,294,664	\$401,294,664
Total Current Assets	\$32,636,114	\$392,000,104	\$424,636,218	\$424,636,218
Noncurrent Assets				
Capital Assets, Not Depreciated	\$0	\$258,164,396	\$258,164,396	\$258,164,396
Capital Assets, Depreciated, Net	\$3,877,338	\$741,665,222	\$745,542,560	\$745,542,560
Net Other Post Employment Benefits (OPEB) Asset	\$0	\$0	\$0	\$0
Notes Receivable, Less Current Portion Above	\$202,948	\$4,278,964	\$4,481,912	\$4,481,912
Leases Receivable, Due in Less Than One Year	\$0	\$13,295,739	\$13,295,739	\$13,295,739
Total Noncurrent Assets	\$4,080,286	\$1,017,404,321	\$1,021,484,607	\$1,021,484,607
Total Assets	\$36,716,400	\$1,409,404,425	\$1,446,120,825	\$1,446,120,825
Deferred Outflows of Resources^(a)				
Deferred Amount Related to Pensions	\$2,150,394	\$0	\$2,150,394	\$2,150,394
Deferred Amount Related to OPEB	\$203,488	\$4,818,115	\$5,021,603	\$5,021,603
Deferred Charges on Refunding	\$0	\$7,706,668	\$7,706,668	\$7,706,668
Derivative Instruments	\$0	\$5,502,867	\$5,502,867	\$5,502,867
Subtotal	\$2,353,882	\$18,027,650	\$20,381,532	\$20,381,532
Total Assets and Total Deferred Outflows of Resources	\$39,070,232	\$1,427,432,075	\$1,466,502,357	\$1,466,502,357
Liabilities, Deferred Inflows of Resources				
Current Liabilities				
Payable from Restricted Current Assets				
Accrued Liabilities	\$48,412	\$0	\$48,412	\$48,412
Advances from Participants	\$1,054,844	\$0	\$1,054,844	\$1,054,844
Retentions Payable	\$0	\$1,574,275	\$1,574,275	\$1,574,275
Subtotal	\$1,103,256	\$1,574,275	\$2,677,531	\$2,677,531
Payable from Unrestricted Current Assets				
Accounts Payable and Accrued Expenses	\$0	\$37,632,998	\$37,632,998	\$37,632,998
Accrued Interest Payable	\$0	\$6,413,670	\$6,413,670	\$6,413,670
Grants Payable	\$0	\$2,577,462	\$2,577,462	\$2,577,462
Deposits	\$0	\$82,829	\$82,829	\$82,829
Retention Payable	\$0	\$120,022	\$120,022	\$120,022
Current Portion of Compensated Absences	\$0	\$557,136	\$557,136	\$557,136

Column 1	Column 2	Column 3	Column 4	Column 5
Description	MWDOC FY 2022-2023	OCWD FY 2022-2023	Combined FY 2022-2023	Estimated Successor Agency
Current Portion of Long-Term Debt	\$0	\$35,393,278	\$35,393,278	\$35,393,278
Short-Term Commercial Paper	\$0	\$27,400,000	\$27,400,000	\$27,400,000
Leases Payable, Due in Less Than One Year	\$0	\$17,280	\$17,280	\$17,280
Subscriptions-Related Payables, Due in Less Than One Year	\$0	\$143,425	\$143,425	\$143,425
Subtotal	\$0	\$110,338,100	\$110,338,100	\$110,338,100
Unrestricted Liabilities				
Accounts Payable, Metropolitan Water District	\$18,900,555	\$0	\$18,900,555	\$18,900,555
Accrued Liabilities	\$2,100,680	\$0	\$2,100,680	\$2,100,680
Subtotal	\$21,001,235	\$0	\$21,001,235	\$21,001,235
Total Current Liabilities	\$22,104,491	\$111,912,375	\$134,016,866	\$134,016,866
Noncurrent Liabilities				
Long-Term Debt				
Certificates of Participation	\$0	\$257,021,531	\$257,021,531	\$257,021,531
Revenue Refunding Bonds	\$0	\$273,201,785	\$273,201,785	\$273,201,785
State of California Loans Payable	\$0	\$196,845,121	\$196,845,121	\$196,845,121
WIFIA Loan	\$0	\$115,357,848	\$115,357,848	\$115,357,848
Less Current Portion Above	\$0	(\$35,393,278)	(\$35,393,278)	(\$35,393,278)
Subtotal	\$0	\$807,033,007	\$807,033,007	\$807,033,007
Other Noncurrent Liabilities				
Net Pension Liability	\$3,612,624	\$0	\$3,612,624	\$3,612,624
Net Other Post-Employment Benefits (OPEB) Liability	\$0	\$920,921	\$920,921	\$920,921
Accrued Compensated Absences	\$0	\$6,376,661	\$6,376,661	\$6,376,661
Liability from Derivative Instruments	\$0	\$5,502,867	\$5,502,867	\$5,502,867
Leases Payable, Due in More Than One Year	\$0	\$4,152	\$4,152	\$4,152
Subscriptions Payable, Due in More Than One Year	\$0	\$45,047	\$45,047	\$45,047
Subtotal	\$3,612,624	\$12,849,648	\$16,462,272	\$16,462,272
Total Noncurrent Liabilities	\$3,612,624	\$819,882,655	\$823,495,279	\$823,495,279
Total Liabilities	\$25,717,115	\$931,795,030	\$957,512,145	\$957,512,145
Deferred Inflows of Resources^(a)				
Deferred Amount Related to Pensions	\$274,992	\$0	\$274,992	\$274,992
Deferred Amount Related to OPEB	\$158,066	\$8,335,517	\$8,493,583	\$8,493,583
Deferred Charges on Refunding	\$0	\$560,190	\$560,190	\$560,190

Column 1	Column 2	Column 3	Column 4	Column 5
Description	MWDOC FY 2022-2023	OCWD FY 2022-2023	Combined FY 2022-2023	Estimated Successor Agency
Deferred Inflows Related to Leases	\$0	\$14,065,870	\$14,065,870	\$14,065,870
Total Deferred Inflows of Resources	\$433,058	\$22,961,577	\$23,394,635	\$23,394,635
Total Liabilities and Total Deferred Inflows of Resources	\$26,150,173	\$954,756,607	\$980,906,780	\$980,906,780
Net Position				
Net Investment in Capital Assets	\$3,877,338	\$151,262,495	\$155,139,833	\$155,139,833
Restricted	\$2,552,615	\$0	\$2,552,615	\$2,552,615
Restricted for the Construction of Capital Assets	\$0	\$2,894,945	\$2,894,945	\$2,894,945
Restricted for Debt Service	\$0	\$14,435	\$14,435	\$14,435
Restricted for Custodial Costs	\$0	\$1,974,922	\$1,974,922	\$1,974,922
Unrestricted	\$6,490,156	\$316,528,671	\$323,018,827	\$323,018,827
Total Net Position	\$12,920,109	\$472,675,468	\$485,595,577	\$485,595,577

(a) Deferred inflows of resources: Acquisition of a resource which relates to a future period. An example of this would be a receivable for a governmental fund like the general fund that will be received too far in the future to meet the government's revenue recognition policy, typically 180 days or less.

Deferred outflow of resources: Consumption of resources which relates to a future period. An example of this are the charges associated with refunding bonds. Instead of recognizing these all up front, a government must recognize the cost over the life of the new bonds. The part not recognized is the deferred balance.

Aside from changes to Net Pension Liability, Net OPEB liability, deferred inflows and outflows related to pensions and OPEB, and potential use of unrestricted cash assets to pay for costs associated with consolidation, it is anticipated that the Successor Agency's Statement of Net Position would otherwise remain stable related to the combination of assets and liabilities for both OCWD and MWDOC.

Any changes to Net Pension Liability, Net OPEB liability, and deferred inflows and outflows related to pensions and OPEB, would be based upon the Successor Agency's approach to retirement and OPEB offerings. Net pension liability and net OPEB liability represent the cost of all future benefits of the plan less and asset held by the plan. Deferred inflows and outflows of resources represent acquisition or consumption of assets that will be recognized in future reporting periods.

If the Successor Agency offers a defined contribution plan to all employees, a termination payment would be made for the defined benefit plan, and all pension-related balances would be eliminated from the statement of net position. If a defined benefit plan is offered, changes in pension-related balances would not occur until new employees were enrolled in the plan, and service time was earned. The impact would be determined through the aforementioned actuarial valuation performed annually.

If the Successor Agency elects to move all employees into a single OPEB plan, the net OPEB liability, and deferred inflows and outflows of resources related to OPEB would be eliminated through a termination payment. The remaining plan's balances would remain unchanged until new employees are enrolled in the remaining plan and service credit is earned.

If available unrestricted funds are used to pay the pension termination and OPEB termination payments, then the resulting Net Position would decrease by the amount of that payment. Should a debt financing mechanism be utilized for the termination payments, then the total of that debt financing would be added to the Statement as a Liability, also decreasing ending Net Position.

Aside from potential fluctuations resulting from the Successor Agency offering one type of pension plan and potential use of Reserves to facilitate the action of a consolidation, the projected Reserves are estimated to remain stable as it is assumed that the Successor Agency will provide the same services at the same level and to the same customers currently being served. It is estimated that reserve accounts would be maintained in separate accounts to ensure all services and stakeholders would remain stable, however, a further evaluation of the breakdown between what would remain as Restricted and Unrestricted Assets would need to be completed once all assets have been evaluated. This analysis would need to be included as part of the Plan of Service for potential consolidation.

As shown in Table 20, the combined Statement of Net Position of the Successor Agency is estimated to result in a positive annual Total Net Position of approximately \$486 million. Because a majority of the Total Net Position consists of unrestricted funds (\$323,018,827) largely consisting of unrestricted cash and investments, this would indicate that the Successor Entity would have a healthy financial position. However, individual line items could change based upon the Successor Agency resolution related to the transition of OPEB, pension, and retirement benefits, as discussed in Retirement Plan section, and any potential use of Unrestricted Assets or Reserves to fund any transitional costs related to consolidation to the Successor Agency.

Impacts to Water Supply Reliability

The water supply managed by OCWD is based on groundwater in the OC Groundwater Basin, which provides most of the drinking water to north and central Orange County. The reliability of the Basin has proven to be sustainable, particularly as a result of a long-standing and unique collective basin management approach that avoided having a lengthy and costly court adjudication of individual water rights. MWDOC is a wholesale imported water provider and represents most of Orange County as the third largest member agency on the MWD Board of Directors. The water supply that MWDOC sells is

imported water from MWD that originates from a combination of the Sacramento/San Joaquin Delta and the Colorado River. OCWD has no direct representation on MWD's Board of Directors but is the largest purchaser of imported water of MWDOC's member agencies that is used partly to replenish the Basin. During droughts, imported water supplies are well-documented to be less reliable than groundwater supplies; nonetheless, MWD has assured its member agencies of complete reliability during multi-year droughts according to its 2020 Urban Water Management Plan, and imported water remains now and in the future an essential piece to meeting the water demands of Orange County. In order to continue water reliability throughout Orange County, the Successor Agency would need to continue these water supply programs which have been proven to be reliable. As discussed in Section 5.4, Opportunities of Consolidation, the reliability of such water supplies may benefit in the future from the opportunities of consolidation discussed below. Future proposed changes to basin management and fiscal, operational, environmental, and other impacts would need to be evaluated through other studies.

5.4 Other Opportunities of Consolidation

In addition to the fiscal sustainability of consolidation identified in this MSR, there are other opportunities that consolidation of MWDOC and OCWD may yield albeit currently qualitative and subjective. Because these topics are mentioned in the June 2022 OC Grand Jury report and the OC Grand Jury has discussed opportunities to consolidate the agencies in at least four published reports over the past 40 years, the following is a discussion of those opportunities relative to the consolidation of MWDOC and OCWD.

1. Unified representation at MWD Board of Directors

Orange County's representation on MWD Board of Directors includes three North Orange County cities that are original member agencies of MWD (Anaheim, Fullerton, and Santa Ana) and four representatives from MWDOC (two are selected from MWDOC's Board and two others are appointed by MWDOC). The number of MWD Directors is based on one representative for each member agency for each 5 percent increment of MWD's assessed valuation, or any fraction above, with each member agency receiving at least one representative. Currently, there are 38 MWD Directors for the 26 MWD member agencies.²⁷

²⁷ In 1998, proposed Senate Bill 1885 would have reduced the MWD Board of Directors from 51 members to one member per member agency, which was 27 at the time (before Coastal Municipal Water District and MWDOC merged in 1999), while leaving the voting entitlements unchanged. The proposed legislation prompted a Conference Committee process to negotiate between MWD, its member agencies, and the Legislature. The result was an amendment to the prior version of SB 1885 so that each member public agency is authorized to appoint additional representatives not exceeding one additional representative for each 5 percent of MWD's assessed valuation, with

There have been opposing positions between MWDOC and OCWD on MWD issues. A unified stance from future MWD board members from a Successor Agency (not including Anaheim, Fullerton, and Santa Ana) on groundwater and imported water issues would help to maximize the potential opportunities available from MWD. Of additional and important note is that the Successor Agency would need to meet the requirement of MWD Act in order to become a member agency of MWD to facilitate the provision of imported water to Orange County, excepting within the boundaries of Anaheim, Fullerton, and Santa Ana. More discussion on some of the legalities involving MWD representation is provided in the legal discussion section of this MSR.

2. Unified representation to federal and state agencies for funding opportunities

State and federal agencies, such as the California State Water Resources Control Board and U.S. Bureau of Reclamation, have grants and/or low-interest loans that can help fund water infrastructure. Competition for funding opportunities commonly occurs between water suppliers; however, competition may be avoided between two agencies in the same geographic area if funding opportunities are collaboratively prioritized and targeted after careful deliberations on the direct needs and best use of resources.

Although the benefit of avoided competition is speculative, the securing of grant funding by the Eastern Municipal Water District (EMWD) serving western Riverside County and northern San Diego County is an example of successful efforts of a district managing groundwater production and wholesale water services. EMWD was formed under the Municipal Water District Act of 1911 (same principal act as MWDOC) and serves an area of similar size to MWDOC. The District has been very successful in securing funding for water supply projects, and , according to the April 5, 2024 News Release, “EMWD has been among the most active agencies in the nation at securing federal, state, and local grant funding opportunities. In the past 20 years, EMWD has secured more than \$700 million in external funding for a wide range of water, wastewater, and recycled water infrastructure programs to help bolster local water supplies while offsetting rates for EMWD customers.”²⁸

Water suppliers like OCWD and MWDOC also approach state and federal agencies to provide input on regulations and implementation of regulatory programs that affect them directly and/or their member agencies/groundwater producers. Conflicting

each member agency receiving at least one representative. The report acted on by the Legislature shrank the MWD Board from 51 members to 38 members effective January 1, 2001. The effect of this legislation is to shift voting power based on assessed valuation among the MWD member agencies while keeping the number of MWD Directors at 38 per the Conference Committee Report/legislation (SB 1885 (Ayala), RN: 9819537, 8/24/98).

²⁸ Source: <https://www.emwd.org/>

stances on regulations from water suppliers in the same geographic area would not likely result in the most beneficial outcome for the agencies and the customers they represent. This has presented a point of disagreement between the agencies in the past. However, consolidation is not required in order for the agencies to engage in a collaborative effort to further the best interests of meeting water demands in Orange County.

3. Unified representation to federal, state, and local legislators

Water suppliers like OCWD and MWDOC hire and send lobbyists to local, state, and federal legislators to advocate for funding and support that benefit their respective priorities. Every two years after the November election cycle, water suppliers jockey for position with newly elected representatives. OCWD and MWDOC currently have separate lobbyists, priorities, and requests. This is another area that has been represented by OCWD and MWDOC as a point of disagreement in the past. For example, in 2018 the two agencies had different positions on amendments being proposed to AB 1668 (Friedman, 2018) and SB 606 (Herzberg, 2018) that relate to how much credit could be applied toward Water Use Objectives for certain water suppliers. Bringing together this effort would have a cost savings for a Successor Agency and would present a unified front of Orange County to legislators but the net effect on the Successor Agency budget is speculative.

Regardless of whether consolidation of MWDOC and OCWD occurs, the water ratepayers in Orange County would benefit from a collaborative, deliberative, and action-oriented dialogue of affected agencies and appropriate stakeholders that acknowledges the effective operations of each agency and likewise the opportunities to eliminate redundancies and bridge common efforts to bring forward goals that support sustainable, efficient, and adequate water service delivery to Orange County residents.

5.5 Statutory and Relevant Case Authority Evaluation Involving Potential Consolidation

On April 2023, OC LAFCO entered into an agreement with John J. Schatz to provide special legal services to the Commission in connection with the preparation of an MSR involving the potential consolidation of OCWD and MWDOC. Services to be provided by Mr. Schatz involve an assessment of any required legislative changes and legal impediments involving consolidation of the two special districts and potential impacts involving governance and current and future representation of Orange County at the Metropolitan Water District of Southern California (MWD). This section provides the assessment in concert with the scope of work of the aforementioned agreement.

Background

The following assessment prepared by Mr. Schatz is intended to evaluate statutory and relevant case authority, and review and provide interpretative opinions that inform the feasibility of consolidating OCWD and MWDOC involving OC LAFCO, the Legislature, or both.

The most recent Orange County Grand Jury Report regarding consolidation, “Water in Orange County Needs One Voice,” references research of water-related statutes and ordinances, but does not include an analysis of the statutory framework and related issues necessary for OC LAFCO and/or legislative action.²⁹ Irvine Ranch Water District’s August 8, 2022 responsive letter to the Report states “*incompatibilities between MWDOC’s and OCWD’s enabling acts make combining the agencies a statutorily complex undertaking*”.³⁰ Similarly, MWDOC’s August 15, 2022 responsive letter to the Report references statutory challenges, and multiple significant challenges that include “*the statutory inability for OCWD to be a Metropolitan Water District member agency*”.³¹

OCWD legal counsel provided opinion memos in 2011 and 2013 respectively concerning a legislative consolidation of MWDOC into OCWD, and different ways consolidation can be accomplished³². More recently with respect to the MSR currently underway, MWDOC General Counsel has identified several issues under the OCWD Act in its present form

²⁹ Page 5, Water in Orange County Needs “One Voice” (2021/22)

³⁰ Page 1, IRWD Response to Grand Jury Report “Water in Orange County Needs “One Voice”

³¹ Pages 1 & 6, MWDOC Responses to the Orange County Grand Jury Report’s Findings and Recommendations

³² Rutan June 23, 2011 Memo re: MWD Act and LAFCO Issues Relating to Proposed Legislative Consolidation of MWDOC into OCWD [*Revised*]; and, Rutan September 11, 2013 Memo re: Approaches to Proposed Consolidation of OCWD and MWDOC into Single Combined Wholesale and Groundwater Management District.

OCWD legal counsel’s June 23, 2011 memo opines that legislation can combine OCWD and MWDOC into a single entity under the OCWD Act and as the MWD member agency for all of Orange County other than the cities of Anaheim, Fullerton and Santa Ana. The legislation could exclude or include LAFCO for oversight or approval.

Either or both OCWD and MWDOC could seek legislation, to include either as the successor entity or a new entity, and completely bypass LAFCO or include LAFCO for some purpose. If so, the legislation would likely be based on the MSR/SOI Review and would probably require further implementing actions. Whether for purposes of such legislation or in connection with consolidation conducted by LAFCO, their respective enabling powers require review and identification of measures, including legislation, so LAFCO can designate the principal act under which the successor district will operate and determine that the successor district can provide all of the services of the two consolidating agencies at the time of consolidation. [underlining added. Government Code Section 56700(b); Government Code Section 56826(a)(1)].

Because OCWD was not established pursuant to statutes like the 1911 Act, its powers and purposes are necessarily detailed compared to more broadly written statutes governing 1911 Act districts that possess quasi-municipal powers. Consequently, a comparison of expressly provided powers to a special act district like OCWD with a specific purpose does not necessarily mean a 1911 Act district does not have the same powers just because they are not specifically enumerated by statute.

relating to the Metropolitan Water District Act and OCWD's eligibility to become an MWD member agency, the respective purposes of OCWD and MWDOC, the three cities within OCWD and related governance and authority questions.³³ These OCWD and MWDOC documents and conversations with their counsel and MWD counsel are further addressed in this assessment.

LAFCO Process – Legislative Authority and Determinations

LAFCOs are responsible for coordinating logical and timely changes in local government boundaries, conducting special studies that review ways to reorganize, simplify, and streamline governmental structure and preparing a sphere of influence for each city and special district within each county.

Established by the Legislature in 1997, the Commission on Local Governance for the 21st Century recommended changes to the law governing LAFCOs in its comprehensive report "Growth Within Bounds." Those recommendations became the foundation for the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000, an act that mandated greater independence for LAFCOs and further clarified their purpose and mission.³⁴

A Commission's efforts are directed toward seeing that services are provided efficiently and economically while agricultural and open-space lands are protected. To better inform itself and the community as it seeks to exercise its charge, each LAFCO must conduct service reviews to evaluate the provision of municipal services within each county. Consequently, the Legislature has recognized the pivotal role of LAFCO in connection with local review, control and determination. As addressed below, depending on LAFCO's consideration and determination of a consolidation application and the successor entity, enabling legislation may be required prior to any LAFCO determination.³⁵ This is distinguished from the Legislature bypassing LAFCO to implement consolidation, including relegating LAFCO to a ministerial role.

³³ BB&K November 13, 2023 correspondence

³⁴ See CALAFCO website; About LAFCOs

³⁵ Government Code Section 56826(a)(1)

Consolidation and the Successor Agency

MWDOC as Successor Entity

Metropolitan Water District Member Public Agency

MWDOC is a “Public Agency” and “Member Public Agency,” both as defined in the Metropolitan Water District Act (MWD Act).³⁶ Consolidation with OCWD for purposes of MWD does not require legislation because MWDOC is currently an MWD Member Public Agency.

Groundwater

MWDOC was organized pursuant to the Municipal Water District Act of 1911 (the 1911 Act). Section 71610(a) of the 1911 Act, Part 5 (Powers and Purposes) provides:

Except as provided in subdivision (b),³⁷ a district may acquire, control, distribute, store, spread, sink, treat, purify, recycle, recapture, and salvage any water, including sewage and storm waters, for the beneficial use or uses of the district, its inhabitants, or the owners of rights to water in the district.

Section 71590 of the 1911 Act provides:

A district may exercise the powers which are expressly granted by this division or are necessarily implied.

There are numerous examples of 1911 Act districts involved with groundwater basin projects and programs.³⁸ Because 1911 Act districts can exercise groundwater basin authority, in one instance it was necessary to enact legislation to resolve a dispute between a 1911 Act district and water replenishment district over control of groundwater storage.³⁹ The broadly written power of Section 71610(a) coupled with necessarily implied powers per Section 71590, as demonstrated by examples of 1911 Act districts exercising control over groundwater basins for beneficial use, confirm that legislation is

³⁶ Sections 5 and 12, respectively, Metropolitan Water District Act

³⁷ Subdivision (b), not applicable here, applies to a district located in a county with a population greater than 8 million persons.

³⁸ Of MWD’s 26 member agencies, 11 are 1911 Act districts, all of which are directly or indirectly involved in groundwater projects and programs, including activities related to groundwater management (e.g., Eastern Municipal Water District). Many 1911 Act districts are actively involved in adjudicated groundwater basins overseen for basin management purposes by watermasters. These examples indicate the 1911 Act provides broad powers regarding waters, which include groundwater basin management, storage, conjunctive use/exchange programs, water reuse/reclamation and conservation.

³⁹ SB 1386 (Lowenthal); 2011-2012 Regular Session

not necessary in order for MWDOC to exercise its existing authority regarding the groundwater basin.⁴⁰

Courts have categorized 1911 Act districts as “quasi-municipal districts”, described by one court as formed for the purpose of supplying general municipal needs, although these needs may be specific in their delineated character; the creation of this type of district is not for the purpose of making a specific and narrowly limited improvement, but is comparable to the organization of a city ([Yribarne v. County of San Bernardino, 218 Cal. App. 2d 369, 32 Cal. Rptr. 847, 1963 Cal. App. LEXIS 1788](#)). The California Supreme Court said in the case of [Morrison v. Smith Bros. Inc.](#) “... from 1911 to date, there has been developed a new type of public corporation, resembling in many respects municipal corporations proper, and radically different in nature from irrigation [***15] and reclamation districts. The case of [Henshaw v. Foster, supra](#), clearly recognized the distinction, holding that such quasi-municipal corporations were municipal corporations within the meaning of [article XI, section 19, of the state Constitution.](#)” [[Morrison v. Smith Bros., Inc., 211 Cal. 36, 293 P. 53, 1930 Cal. LEXIS 299](#)]. These cases underscore the broad authority of 1911 Act districts, including for groundwater management purposes.

The 1975 “Joint Exercise of Powers Agreement Creating Santa Ana Watershed Project Authority” (as amended) includes OCWD and four 1911 Act districts. The Agreement provides: “each of the parties has the authority and power to protect and preserve the quality of the surface and subsurface water supplies within their respective boundaries;” that the Authority was formed pursuant to the provisions of the Government Code “relating to the joint exercise of powers common to public agencies” (Government Code Section 6502); and, that the powers “shall be exercised, to the extent not herein specifically provided for, in the manner and according to the methods provided under the “Municipal Water District Law of 1911”. If OCWD is exercising common powers which includes surface and subsurface supplies according to the 1911 Act districts for purposes of SAWPA, then those common powers would also be applicable to MWDOC in connection with MWDOC’s authority and exercise of powers concerning the groundwater basin.

Santa Ana River Judgment

OCWD is a party to the 1969 [Orange County Water District vs. City of Chino, et al.](#) judgment. If MWDOC is the successor entity of an OCWD/MWDOC consolidation, MWDOC will have to intervene in the Judgment. OCWD is a member agency of the Santa Ana Watershed Project Authority (SAWPA), which was established following the

⁴⁰ Government Code Sections 56050.5, 56824.10, 56824.12, however, requires LAFCO to act regarding the exercise of latent powers.

judgment and is engaged in ongoing projects and programs associated with the Judgment. SAWPA-related agreements will require amendment in connection with MWDOC's successor entity status.

MWDOC Boundary

OCWD's boundary extends past the ocean shoreline commensurate with the boundary of the groundwater basin. MWDOC's boundary does not extend beyond the shoreline. MWDOC's boundary will have to be adjusted via an annexation consistent with the OCWD/groundwater basin boundary.⁴¹

Board Composition and Three Cities

The Cities of Anaheim, Fullerton and Santa Ana (Three Cities) are each a Member Public Agency of MWD and are not within MWDOC.⁴² Any Plan of Service submitted with a consolidation application could include the addition of three Directors to the MWDOC Board whose authority would be commensurate with the authority currently exercised as members of the OCWD Board, including for purposes of retaining their sovereignty. Specifically, that authority would be limited to groundwater basin matters within the former OCWD boundary and include provisions to avoid incompatibility of public office in connection with the Three Cities as independent MWD agencies sitting on the Board of another independent MWD agency. The Plan of Services for any consolidation proposal must address the governance issues in connection with the Three Cities.

OCWD as Successor Entity

Metropolitan Water District Member Public Agency

Per the existing provisions of the MWD Act, as a special act district, OCWD is not a Public Agency and therefore cannot be a Member Public Agency.⁴³ Consequently, the MWD Act would have to be amended by legislation in order for OCWD to be considered by MWD to become a member agency. Prior efforts to amend the MWD Act, including member agency proxies to attend, vote and participate at MWD meetings if the member

⁴¹ Government Code Section 56017, 56021(d)

⁴² See 1986 detachment documents

⁴³ Section 5: "Public agency" means any city, municipal water district, municipal utility district, public utility district, county water district, and county water authority'; Section 12: "Member public agency" means any public agency, the area of which, in whole or in part, is included within a metropolitan water district as a separate unit.

public agency cannot attend the meeting have been opposed.⁴⁴ Recently, discussion among MWD member agencies to introduce similar legislation indicated there is opposition to opening the MWD Act because other unrelated amendments are likely to be proposed.

Alternatively, it has been suggested that the OCWD Act could be amended by legislation to provide OCWD with the same powers as a 1911 Act district. The legislation might include a provision that the OCWD legislation is interpretative of the existing MWD Act with respect to the types of public agencies that are member public agencies of MWD.⁴⁵ Although Cortese-Knox- Hertzberg permits LAFCO to consolidate two districts with different principal or enabling acts, LAFCO may do so only if the successor district can provide all of the services of the two consolidating agencies at the time of consolidation. Consequently, OCWD must be eligible to become an MWD member agency prior to LAFCO processing any consolidation with OCWD as the successor entity.⁴⁶

OCWD Boundary

The OCWD Act is clear that the primary purpose of OCWD is the management of the groundwater basin. The OCWD Act provides OCWD with the authority to import water for the benefit of the groundwater basin and sell water at retail or wholesale in connection with basin management.⁴⁷ Legislation amending the OCWD Act would be required to change OCWD's boundary consistent with MWDOC's and maintaining the three cities (Anaheim, Fullerton, and Santa Ana) within the boundary so OCWD can import and sell water outside of the basin as MWDOC currently does. This would be irrespective of OCWD's groundwater basin management and would not necessarily involve the conjunctive use of imported and basin groundwater, operationally or otherwise, except as may be authorized or enabled by legislation.

Board Composition and Authority

Legislation would be required to elect Directors representing the area not currently within OCWD's boundary. The number of Directors, divisions and authority would have to be aligned with the territory represented by the Directors and if directly related to the groundwater basin or imported water. As this may be a mixed question, any enabling legislation should carefully circumscribe the authority and limitations on the authority of

⁴⁴ AB 885 (2007-08 Legislative Session); Governor vetoed; see 7/11/07 Senate Local Govt. Comm. Bill Analysis

⁴⁵ The MWD Board of Directors still has discretionary authority to approve or disapprove the special act district/OCWD as a "member public agency".

⁴⁶ Government Code Section 56826.5(a)(1)

⁴⁷ See Section 2(6) of the OCWD Act

Directors. The Plan of Services for any consolidation application submitted to OC LAFCO must address the governance issues.⁴⁸

Board Composition and Three Cities

The authority and jurisdiction of the Three Cities Directors would necessarily be limited to the groundwater basin area consistent with their current status as OCWD Directors. This would also have to be addressed in any enabling legislation with respect to the Board composition and authority as referenced above. The Plan of Services for any consolidation application must address the governance issues in connection with the Three Cities.

Need for Legislation

As noted above, Government Code Section 56826(a)(1) requires that the successor entity must have the authority to provide all of the services of the two consolidating agencies at the time of consolidation. As addressed above, legislation is required in order for OCWD to be considered a member agency and also for purposes of its boundaries, Board composition and governance.

5.6 Plan For Service

Submittal of an application to OC LAFCO, accompanied by a plan for providing services, to consolidate OCWD and MWDOC into a single successor agency is required. In accordance with Government Code Section 56653, the “Plan for Service” shall address all of the following information and ***any additional information required by the Commission or the Executive Officer:***

- (1) An enumeration and description of services currently provided or to be extended to the affected territory.
- (2) The level and range of those services.
- (3) An indication of when those services can feasibly be extended to the affected territory, if new services are proposed.
- (4) An indication of any improvements or upgrading of structures, roads, sewer or water facilities, or other conditions the local agency would impose or require within the affected territory if the change of organization or reorganization is completed.
- (5) Information with respect to how those services will be financed.

⁴⁸ Government Code Section 56653

In addition to the requirements noted above, the “Plan for Service” shall also include all of the following information:

- a) The total estimated cost to provide the **new** or **different** function or class of services within the boundary of the Successor Agency. (New or Different Services: G.C. 56824.12)
- b) The estimated cost of the **new** or **different** function or class of services to customers within the boundary of the Successor Agency. (New or Different Services: G.C. 56824.12)
- c) Identification of existing providers, if any, of the **new** or **different** function or class of services proposed to be provided and the potential fiscal impact to the customers of those existing providers. (New or Different Services: G.C. 56824.12)
- d) A plan for financing the establishment of the **new** or **different** function or class of services within the boundary of the Successor Agency. (New or Different Services: G.C. 56824.12)
- e) Alternatives for the establishment of the **new** or **different** function or class of services within the boundary of the Successor Agency. (New or Different Services: G.C. 56824.12)

5.7 Findings

In accordance with Gov Code Section 56826.5(b)(2), LAFCO must make the determination that public service costs of a proposal for consolidation are likely to be less than or substantially similar to costs under alternative means of providing services.

The following findings are not intended as conclusions or recommendations but rather have been developed in line with materials provided and interviews conducted with MWDOC and OCWD and assumptions as noted within this MSR or its attachments.

1. The combined average annual expenses based on the last three years (Fiscal Years 2021-22, 2022-23, and 2023-24) of adopted budgets for MWDOC and OCWD total approximately \$517 million (Table 13).
2. In part to a consolidation of OCWD and MWDOC, 18 positions were found to be potentially redundant, resulting in cost savings in average annual salaries of approximately \$2.25 million (Table 14).

3. The elimination of redundant staff positions, reduction in board members from 17 to 10, savings from economies of scale for overhead expenses and healthcare benefits as a result of consolidation would have a net savings for the Successor Agency of approximately \$3.98 million annually (Table 15).
4. Consolidation with all employees enrolled in a defined benefit plan (CalPERS) is estimated to have a net annual savings of approximately \$2.408 million in addition to the total savings identified in Table 15 (\$3,984,377) for an estimated savings of approximately \$6,391,927 (Table 16).
5. Consolidation with all employees enrolled in a defined contribution plan (401(k)) is estimated to have for Employee Benefits of approximately \$376,734 (Table 18). Because the unfunded liability payment would be eliminated and the contributions to the defined contribution plan would increase, the net total savings would be \$3,897,717. However, this does not include the termination payment for CalPERS, which ranges from \$10.4 million to \$26 million (Table 17).
6. The estimated cost to terminate MWDOC's enrollment in CalPERS is between approximately \$10.4 million and \$26 million. A financing instrument could be used to pay this off over time (Table 17).
7. Transitional costs of consolidation will be incurred, but the total amount is unknown. These temporary expenses may include consultant fees to guide the process, legal fees related to modifying contracts/agreements, preparation of studies and planning documents such as a Capital Improvement Program, and overlapping staff positions and board members continuing their roles temporarily during the integration phase. Other potential costs can include communication campaigns related to public relations and marketing, as well as technology and systems integration.
8. The projected annual revenues of the Successor Agency (including pass-through, net-neutral revenues) is estimated at approximately \$517 million, of which the majority is from OCWD revenues (Table 19).
9. The projected Statement of Net Position for the Successor Agency estimates total assets (current and noncurrent) and total deferred outflows of resources at approximately \$1.47 billion and total liabilities (current and noncurrent) at approximately \$981 million. Therefore, the projected net position of the Successor Agency is a positive \$485.6 million with the majority (67%) from unrestricted (Table 20).
10. Based on the financial analysis conducted herein using the last three years of adopted budgets as a baseline for the Successor Agency, and Statement of Net

Position showing a healthy net positive value, consolidation of the two agencies is considered fiscally feasible and sustainable.

11. Water supply reliability and services to MWDOC's member agencies and OCWD's Groundwater Producers are not anticipated to be interrupted or diminished by a consolidation of the agencies.
12. Consolidation of OCWD and MWDOC may offer opportunities involving unified representation of Orange County water suppliers at the local, state, and federal levels through representation of Orange County on the MWD Board of Directors, grants and low-interest loan funding opportunities, and legislative advocacy. However, if the provision of groundwater management and wholesale water services by the two agencies remains the status quo, then there may be opportunities for OCWD and MWDOC to collaborate on mutually beneficial efforts and projects and elimination of redundancies to improve efficiencies in water service delivery to Orange County ratepayers.

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APPENDIX A

Appendix A
MWDOC and OCWD Budget Line Item Explanations

Column 1 Line	Column 2 Line Item Descriptions Exactly as Printed in Adopted Budgets of Each Agency	Explanation why the budget line shows no value.
	Salaries & Wages	
1	Salaries & Wages	-
2	less for Recovery from Grants	OCWD: Grants are included in revenues, Rents, Royalties and Others
3	Overtime	MWDOC: This item is budgeted under: Salaries & Wages (Line 1)
4	Payroll Taxes	MWDOC: This item is budgeted under: Salaries & Wages (Line 1)
5	Capitalized Salaries	MWDOC: N/A – MWDOC does not have capitalizable expenses at this time
6	Temporary Workers - General Total	MWDOC: This item is budgeted under: Salaries & Wages (Line 1)
7	Expense - Contra	MWDOC: This item is budgeted under: Less for Recovery from Grants (Line 2)
	Employee Benefits	
8	Employee Benefits	-
9	CALPERS Unfunded Liability Contribution	OCWD: N/A the District is not a defined benefit retirement
10	Health Insurance Coverage for Retirees	-
11	Retirement	MWDOC: Retirement is CalPERS and is posted to Employee Benefits (Line 8)
12	Capitalized Benefits	MWDOC: N/A – MWDOC does not have capitalizable expenses at this time
13	Retiree Health Trust	MWDOC: expense for retiree health is under Health Insurance Coverage for Retirees (Line 10)
	Director Fees & Costs	
14	Director Compensation	-
15	Director Benefits	OCWD: Director benefits are included in Payroll Taxes, Retirement, and Workers' Comp (Lines 4, 8, 21)
16	MWD Representation	OCWD: The District does not have this expense
17	Election Expense	MWDOC: This item is budgeted under: Contribution to Election Reserve (Line 18)
18	Contribution to Election Reserve	OCWD: Election Expense is the same as MWDOC's Election Reserve (Line 17)
	Insurance Expense	
19	Insurance Expense	-
20	Insurance Refund	MWDOC: N/A - MWDOC does not budget for Insurance Refund

Column 1	Column 2	
Line	Line Item Descriptions Exactly as Printed in Adopted Budgets of Each Agency	Explanation why the budget line shows no value.
21	Workers' Compensation	MWDOC: This item is budgeted under: Insurance Expense (Line 19)
22	Claims Total	MWDOC: N/A - MWDOC does not budget for Claims Total
	Office Supplies/Expense	-
23	Office Expense - General Total	MWDOC: office expense is under: Outside Printing, Subscription & Books (Line 24); Office Supplies (Line 25); and Postage/Mail Delivery (Line 26)
24	Outside Printing, Subscription & Books	OCWD: Subscriptions are included in line 70 below
25	Office Supplies	OCWD: Office supplies are included in line 23 above
26	Postage / Mail Delivery	OCWD: Postage/Mail Delivery is included in line 23 above
	Supplies	-
27	Supplies - Water Loss Control	OCWD: the District does not have this expense category
28	Business Expense	OCWD: the District does not have this expense category
29	Chemicals - Polymer Total	MWDOC: N/A
30	Operational Supplies	MWDOC: supplies are under Office Supplies (Line 25) and Supplies - Water Loss Control (Line 27)
	Professional Fees	-
31	Legal Expense - General	-
32	Audit Expense	OCWD: This is included in Professional Services (Line 35)
33	Outside Consulting Expense	OCWD: This is included in Professional Services (Line 35)
34	Professional Fees	OCWD: This is included in Professional Services (Line 35)
35	Professional Services - General Total	MWDOC: This is budgeted under: Professional Fees (Line 34)
36	Legal Advertising Total	MWDOC: Advertising would be under Professional Fees (Line 34)
37	Professional Services - Engineer Total	MWDOC: Engineering Services is budgeted under: Outside Consulting Expense (Line 33)
38	Lab Samples Analysis Total	MWDOC: N/A
39	Security Program Total	MWDOC: N/A
	Rent	-
40	Rents & Leases	OCWD: This is included in Rent Equipment (Line 41)
41	Rent Equipment - Gen Total	MWDOC: N/A - MWDOC does not have any rental equipment
	Vehicle Expense	-
42	Vehicle Expense - Water Loss Control	OCWD: This is included in Maint Equipment (Line 48)
43	Automotive & Toll Road Expenses	OCWD: This is included in Gas & Diesel (Line 44)

Column 1 Line	Column 2 Line Item Descriptions Exactly as Printed in Adopted Budgets of Each Agency	Explanation why the budget line shows no value.
44	Gas & Diesel Fuel Total	MWDOC: This item is budgeted under: Vehicle Expense (Line 42)
45	Fuel - Off Road Total	MWDOC: N/A
	Repairs & Maintenance	-
46	Maintenance Expense	OCWD: This is included in Maintenance Equipment (Line 48)
47	Building Repair & Maintenance	OCWD: This is included in Building Repair & Maint (Line 49)
48	Maint Equipment	MWDOC: N/A - MWDOC does not have any Maintenance equipment
49	Building Repair & Maintenance	MWDOC: Same as MWDOC's Building Repair & Maintenance (Line 47)
	Computer & Software	-
50	Software Support & Expense	OCWD: This is included in Hardware/Software (Line 53)
51	Computer Maintenance	OCWD: This is included in Maintenance Equipment (Line 48)
52	Computers and Equipment	OCWD: This is included in Hardware/Software (Line 53)
53	Hardware/Software Total	MWDOC: This item is budgeted under: Software Support & Expense (Line 50), Computer Maintenance (Line 51) and Computers and Equipment (Line 52)
	Telephone Expense	-
54	Telecommunications Expense	-
	Memberships	-
55	Membership / Sponsorship	-
56	Center for Demographic Research Participation	OCWD: This is included in Membership/Sponsorship (Line 55)
	Conferences & Travel	
57	Conference Expense - Staff	OCWD: This is included in Travel/Conf./Mileage (Line 61)
58	Conference Expense - Directors	OCWD: This is included in Travel/Conf./Mileage (Line 61)
59	Travel & Accommodations - Staff	OCWD: This is included in Travel/Conf./Mileage (Line 61)
60	Travel & Accommodations - Directors	OCWD: This is included in Travel/Conf./Mileage (Line 61)
61	Travel/Conference/Mileage Total	MWDOC: This item is budgeted under: Conference Expense - Staff (Line 57), Conference Expense - Directors (Line 58), Travel & Accommodations - Staff, (Line 59) and Travel & Accommodations - Directors (Line 60)
	Utilities Expenses	-
62	Utilities - Electricity Total	MWDOC: All of MWDOC's utilities are shared with OCWD and paid through Office Maintenance (Line 46)

Column 1	Column 2	
Line	Line Item Descriptions Exactly as Printed in Adopted Budgets of Each Agency	Explanation why the budget line shows no value.
63	Utilities - Electricity (66Kv Fv Site Sce) Total	MWDOC: N/A
64	Utilities Electrical Curtailment Power Cr	MWDOC: N/A
65	Utilities - Gas Total	MWDOC: N/A
66	Utilities - Water Total	MWDOC: N/A
	Training	
67	Training Expense	
68	Tuition Reimbursement	OCWD: This is included in Education Tuition Reimbursement (Line 69)
69	Education Tuition Reimbursement Total	MWDOC: This item is budgeted under: Tuition Reimbursement (Line 68)
70	Subscriptions Total	MWDOC: This item is budgeted under: Outside Printing, Subscription & Books (Line 24) or Membership/Sponsorship (Line 55)
	Misc Exp	-
71	Miscellaneous Expense	-
72	Temporary Help Expense	OCWD: This is included in Temporary Workers (Line 6)
73	MWDOC's Contribution to WEROC: Operations	OCWD: This is included in Inter Agency (Line 78)
74	WFB/County Banking Charge Total	MWDOC: Banking fees are included under Miscellaneous Expense (Line 71)
	Marketing	-
75	Event and Marketing	MWDOC: This item is budgeted under: Professional Fees (Line 34)
76	MWDOC Cost Share	MWDOC: N/A
	Inter-agency	-
77	Licenses And Permits Total	MWDOC: N/A
78	Inter Agency Total	MWDOC: N/A
79	Taxes & Assessments Total	MWDOC: N/A
	Capital Acquisition	-
80	Capital Acquisition (excluding building)	OCWD: This is included in Capital Projects (Line 82)
81	Capital Acq Prior Year Carryover Credit	OCWD: This is included in Capital Projects (Line 82)
82	Capital Projects (Debt & PAYGO funded)	MWDOC: This item is budgeted under: Capital Acquisition (excluding building) (Line 80) and Capital Acq Prior Year Carryover Credit (Line 81)

Column 1	Column 2	
Line	Line Item Descriptions Exactly as Printed in Adopted Budgets of Each Agency	Explanation why the budget line shows no value.
83	New Equipment	MWDOC: This item is budgeted under: Capital Acquisition (excluding building) (Line 80) and Capital Acq Prior Year Carryover Credit (Line 81)
	Building Expense	-
84	MWDOC's Building Expense	OCWD: This is included in R&R Expenditures (Line 93)
85	Building Expense Prior Year Carryover Credit	OCWD: This is included in R&R Expenditures (Line 93)
	PFAS	-
86	PFAS O&M Expenditure	MWDOC: N/A
	Water Expenses	-
87	Water Purchases	-
88	Local Resource Program Incentives	OCWD: The District does not have this expense
89	Readiness-To-Serve Charge	OCWD: This is included in Water Purchases (Line 87)
90	Capacity Charge	OCWD: This is included in Water Purchases (Line 87)
91	SCP/SAC Pipeline Surcharge	OCWD: The District does not have this expense
	Debt Expenses	-
92	Debt Service	MWDOC: N/A
	Replacement and Refurbishment (R&R) Expenses	-
93	R&R Fund Expenditures	MWDOC: N/A
94	Appropriation to R&R Reserves	MWDOC: N/A
	Total (3-year average)	-

Note: Line item names appear exactly as they appear in the adopted budgets of each agency. Subheaders and grouping of line items were assigned by WEBB in consultation with each Agency.

APPENDIX B

Appendix B

Successor Agency Budget Explanation of Line Item Savings

The savings in Line 1 would result from reductions in staff salaries for the redundant employee positions identified in Table 5.3.2.
The savings in Line 8 would result from decreased cost of providing employee healthcare benefits because of reductions in staff identified in Table 5.3.2. No changes to retirement benefits are assumed in this instance of the budget. Changes to retirement benefits are shown in Tables 5.3.4 and 5.3.6. Notably the Retiree Health Trust for OCWD is significantly lower in FY 23/24 (\$640,000) as compared to the two prior fiscal years (\$10,139,956 in FY 21-22 and \$10,711,809 in FY 22-23).
The savings in Lines 14 and 15 would result from a Successor Agency with a 10-member Board of Directors.
The savings in Lines 17 and 18 would result from only one election for one Successor Agency.
The savings in Line 21 would result from economies of scale due to reductions in staff identified in Table 5.3.2.
The savings in Lines 23, 24, and 25 would result from economies of scale due to reductions in staff identified in Table 5.3.2.
The savings in Lines 31, 32, 33, and 34 would result from economies of scale due to certain duplicative administrative overhead costs.
The savings in Lines 46 and 47 would result from the Successor Agency utilizing the same buildings that OCWD and MWDOC share.
The savings in Lines 50 through 53 would result from economies of scale due to reduced staff identified in Table 5.3.2 and based on the average costs of software, computer maintenance, computers and equipment, and software/hardware.
The savings in Line 54 would result from economies of scale due to reduced staff identified in Table 5.3.2 and based on the average costs of telecommunications.
The savings in Line 55 would result from economies of scale due to reduced staff identified in Table 5.3.2 and based on the average cost of membership/sponsorships.
The savings in Line 56 would result from reducing participation by one agency.
The savings in Line 57 is an estimated reduction of 30% due to reductions in staff identified in Table 5.3.2.
The savings in Line 58 is an estimated reduction of 50% due to reductions in the number of Directors from 17 to 10.
The savings in Line 59 is an estimated reduction of 30% due to reductions in staff identified in Table 5.3.2.
The savings in Line 60 is an estimated reduction of 50% due to reductions in the number of Directors from 17 to 10.
The savings in Line 61 is an estimated reduction of 30% due to reductions in staff identified in Table 5.3.2 and reduction in the number of Directors from 17 to 10.
The savings in Line 67 is due to reductions in staff identified in Table 5.3.2, calculated on a proportional basis to the reduction in full-time employees (FTE's).
The savings in Line 68 is the result of reductions in staff identified in Table 5.3.2. Line 69 is calculated to show the proportional increase in cost associated with the remaining staff of the Successor Agency.
No savings is expected in Line 87 because any potential savings resulting from consolidation related to water purchases would be offset by an equal reduction in revenue for the Successor Agency.

APPENDIX C

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
1. America’s Water Infrastructure Act (AWIA)	MWDOC’s WEROC completed an effort to facilitate a contract with participating WEROC member agencies to address the requirements of America’s Water Infrastructure Act (AWIA). The AWIA requires utilities to conduct a Risk and Resilience Assessment of their community water systems and develop a corresponding Emergency Response Plan.	Completed in 2022 and has a 5-year renewal period
2. Baker Pipeline	MWDOC owns the pipeline which conveys untreated water including all easements and right-of-way, subject to the right Irvine Ranch Water District (f.k.a., Los Alisos Water District) and El Toro Water District to also use the easements.	MWDOC has assigned or leased all of its capacity rights and obligations to District member agencies. The pipeline is estimated to have a remaining useful life of at least 20 years
3. Climate Adaption Master Plan	MWDOC has actively participated with The Metropolitan Water District of Southern California (MWD) in its development of this Plan.	
4. Consumer Confidence Reports	MWDOC has provided professional consulting services to MWDOC’s 27-member agencies in coordinating and preparing mandated Water Quality, Consumer Confidence Reports (CCR’s).	
5. Government Affairs Advocacy	MWDOC contracts with federal, state, and local lobbyists who provide representation to MWDOC and its member agencies in Washington D.C., Sacramento and throughout Orange County. MWDOC uses its contract lobbyists to advocate for issues that affect both MWDOC and its member agencies – issues that have significant impact on water providers throughout the county.	
6. Grants Tracking and Reporting	MWDOC entered into an agreement for grants tracking, writing and acquisition services. This service is made available to all member agencies and the consultant monitors and tracks potential funding opportunities for projects seeking funding.	

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
7. Irvine Ranch Water District's Baker Treatment Plant	MWDOC performs the billing for all the participating agencies.	
8. K-12 Education Program – Grab-and-Go Activities, Water Education School Program	MWDOC in partnership with Orange County Department of Education (OCDE) have developed “Grab-and-Go” activities which are prepared and packaged by MWDOC and reviewed and vetted by OCDE. These are free activities offered to enhance educational programming. The MWDOC Water Education School Programs now serve Orange County students in Kindergarten through High School (K-12).	
9. Lead & Copper Rule Revision Shared Service Program	MWDOC assists Orange County water agencies in their compliance efforts with US EPA Federal regulations known as the <i>National Primary Drinking Water Regulation: Lead and Copper Rule Revisions</i> .	
10. Master Agreement with Cities of Anaheim, Fullerton, and Santa Ana	Streamlined many of MWDOC's regional programs through a single agreement that covers several programs. This formalization allows for timely processing of payments, clear delineation of program participation, and delineation of the roles and responsibilities for both signatories.	<p>These agreements allow MWDOC and the Three Cities to work together on a variety of efforts including:</p> <ul style="list-style-type: none"> -Urban Water Management Plan Shared Services -Water Use Efficiency Programs -Water Loss Control Shared Services & Water Loss Technical Assistance -MWDOC K-12 Water Education Programs -Lead & Copper Rule Revision Shared Services Program

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
11. Memberships with Joint Powers Agencies (JPA)	<p>MWDOC participates in multiple JPA agreements that involve joint operation and maintenance of facilities and infrastructure and the financing of insurance coverage. The joint agreements involving municipal service delivery include:</p> <ul style="list-style-type: none"> • Santiago Aqueduct Commission – Operation and maintenance of the Baker Pipeline (previously called the Santiago Aqueduct Commission Pipeline) • Joint Exercise of Powers for Construction, Operation and Maintenance of the East Orange County Feeder No. 2 Pipeline – other parties are Metropolitan, Anaheim and Santa Ana 	
12. MWDOC Headquarters	MWDOC owns its headquarters building. The land the headquarters building resides in is leased by OCWD to MWDOC per a joint agreement.	Continue remodel in Fiscal Year (FY) 2023-24 using funds in the FY 2023-24 budget.
13. Ocean Desalination Opportunities	MWDOC continues to work with local and regional water agencies on implementation planning for local resources projects, including the Doheny Ocean Desalination Project.	
14. Office Space at OC-70 Pump Station	The Water Emergency Response Organization of Orange County (WEROC) is administered by MWDOC to support and manage countywide emergency preparedness, planning, response, and recovery efforts among Orange County water and wastewater utilities. WEROC has a multi-party agreement with Metropolitan for use of this office space.	No current plans for improvements or expansion

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
15. Outreach and Community Education	<p>Outreach to the elected officials in the Orange County delegation on the local, state and national level and education on issues critical to the region. Through special education and outreach activities, Water Advisory Committee Orange County (WACO) meetings, Independent Special Districts of Orange County (ISDOC).</p> <p>MWDOC administers and negotiates Storage Agreements/Program for its member agencies. Among these include:</p> <ul style="list-style-type: none"> -MWD/MWDOC/OCWD Conjunctive Use Storage Agreement -MWD/MWDOC/OCWD Cyclic Storage Agreement -MDW/MWDOC Cyclic In-Lieu Deliveries Program 	
16. Public Awareness Campaign	<p>MWDOC presently develops, coordinates, and delivers a substantial number of programs and services aimed at elevating stakeholders' awareness about water policy, efficient water use, and MWDOC's role in advocating for sound policy and water reliability investments that are in the best interest of Orange County.</p>	
17. Reliability Planning Efforts	<p>The Orange County Water Reliability Study is a comprehensive study of Orange County's long-term water reliability, providing valuable information to key decision makers regarding the future of Orange County's water supplies.</p>	<p>MWDOC's initial Orange County Reliability Study was in 2016, the study was updated in 2018, and most recently again in 2023.</p>
18. South Emergency Operating Center (SEOC)	<p>MWDOC has been leasing the Prothero Filtration Plant Facilities, a part of El Toro Water District, as the WEROC's South Emergency Operating Center. MWDOC also has an agreement with MWD to use their facility located off Peter Canyon Road in Orange as WEROC's North Emergency Operating Center (NEOC).</p>	

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
19. Strategic Communications Program and Plan	Developed through the foundational work completed through the Facilitated Discussions Project to ensure MWDOC’s Strategic Priorities aligned with the needs of the community and MWDOC member agencies. Seven key goals were developed. This document serves as a blueprint, establishing a baseline understanding for how MWDOC’s programs will provide information and value to its various stakeholders, partners, and employees; and support MWDOC’s mission, goals, and objectives to secure long term water reliability for the region.	Completed in Fiscal Year 2023-2024
20. Urban Water Management Plans (UWMP)	In 2010, 2015, and 2020 MWDOC led the selection and administration of hiring a consultant to assist over 22 agencies (including Santa Ana and Fullerton) update their state mandated Urban Water Management Plans.	Conducted on a five year cycle
21. Water Loss Control Program	A hybrid program with policy, work group and grant acquisition related activities funded as a Core activity through the MWDOC General Fund and all other activities are Choice activities funded by participating retail agencies. All 32 retail agencies actively participate in MWDOC’s choice-based Water Loss Control Program.	
22. Water Loss Control Technical Assistance	included one-on-one technical assistance from a consultant specializing in distribution system water loss and the establishment of an Orange County Water Loss Control Work Group. MWDOC now offers a total of ten services with several sub-tasks designed to assist agencies in obtaining compliance with the water loss mandate adopted by the legislature through Senate Bill (SB) 555 from 2015.	

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
23. Water Loss Control Shared Services	<p>Water Loss Control Shared Services include:</p> <ul style="list-style-type: none"> • Water Balance Validation • Distribution System Leak Detection • Suspected Leak Investigations • Sales Meter Accuracy Testing • Distribution System Pressure Surveys • Distribution System Flushing <p>MWDOC has secured funding from MWD to offset costs to participating retail agencies. These services are provided to agencies through a long-term shared services agreement between MWDOC and each agency. The agreement includes annual addendums that allow agencies to select which services they plan to access during the coming year.</p>	<p>MWDOC routinely evaluates the services offered and tailors them to reflect the needs of the Orange County retail agencies.</p> <p>Other Potential future Water Loss Control Shared Services include: Fire Hydrant Maintenance, Gate Valve Exercising, Air Release Valve Maintenance, Blow-off Assembly Maintenance, Cla-Val Automatic Control Valve Preventative Maintenance</p>
24. Water Emergency Response Organization of Orange County (WREOC)	<p>Managed and operated by MWDOC, WEROC is supported by a group of water and wastewater providers that include Anaheim, Fullerton, Santa Ana, Orange County Sanitation District, Orange County Water District, and South Orange County Wastewater Authority. Additionally, WEROC maintains an Emergency Operations Centers (EOC), which play a crucial role in the coordination of emergency response operations during disasters.</p>	
25. Water Energy Education Alliance (WEEA)	<p>Water Energy Education Alliance (WEEA) was created to build and bolster career pathways to water and energy jobs for Southern California students.</p>	<p>MWDOC began administration of WEEA in May 2020.</p>

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Municipal Water District of Orange County		
Contract or Program or Project	Description	Notes
26. Water Use Efficiency (WUE) Program	MWDOC collaborates with local water agencies, cities, and stakeholders to promote water use efficiency and sustainable water practices. MWDOC advocates for water-related policies at the state level, pushing for regulations and legislation that promote responsible water use.	

Source:

- a. Webb Associates, *Responses from OCLAFCO MSR Survey for MWDOC*, September 15, 2023
- b. OC LAFCO, *Municipal Service Review for the Municipal Water District of Orange County*. September 9, 2020

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Orange County Water District		
Contract or Program or Project	Description	Notes
1. Alamitos Sea Water Barrier Project	OCWD has an agreement with LA County Public Works, the Water Replenishment System and the city of Long Beach to operate.	
2. Government Affairs	OCWD lobbyists at local, state, and federal levels.	
3. Green Acres Project	Deliver recycled water to 4 cities and one retail water agency	
4. Groundwater Laboratory Testing	OCWD provides to the Groundwater Producers the Philip L. Anthony Water Quality Laboratory	
5. Groundwater Replenishment System Program	OCWD expanded this water recycling project to replenish the groundwater basin. OCWD has an agreement with OC Sanitation for them to operate the system.	
6. JPA with the San Bernardino Valley Municipal Water District, Inland Empire Utilities Agency, and the Eastern and Western Municipal Water Districts	Through the JPA, OCWD participates in SAWPA. The JPA manages water supply and quality issues in the Santa Ana River Watershed.	
7. In-Lieu Program	Brings additional treated imported water supplies via MWDOC (when they are available for purchase) for Producers to use.	
8. MWD Long-Term Groundwater Storage Program	OCWD has a contract with MWD to store water in the local groundwater basin.	25-year agreement ends in 2028
9. Agreement and Lease	OCWD owns all of the land at its Fountain Valley headquarters, including the land under the OCWD and MWDOC buildings (collectively, the “Office Facilities”). OCWD owns about 66% and MWDOC owns 33% of the Shared Office Facilities. OCWD leases 50% of the land under the Office Facilities to MWDOC.	Agreement and Lease has a 50-year term from April 15, 1987 through April 15, 2037.

Existing Projects, Programs, and Contracts of MWDOC and OCWD

Orange County Water District		
Contract or Program or Project	Description	Notes
10. PFAS Grant Applications	<ul style="list-style-type: none"> • City of Fullerton • East Orange County Water District • Irvine Ranch Water District • City of Tustin • City of Orange 	
11. PFAS Groundwater Treatment Systems	OCWD has an agreement with 15 Groundwater Producers to construct and operate PFAS groundwater treatment systems	OCWD will also pay for 50% of the annual operation and maintenance costs for these treatment systems
12. Prado Dam Wetlands	Constructed and operate natural wetlands behind Prado Dam to provide treatment to the Santa Ana River before it enters Orange County.	
13. Refurbishment and Replacement Program (R&R)	OCWD maintains this program to fund the replacement and repair of infrastructure.	The annual contribution to the fund increases 7%.
14. Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) water bank	Prop. 84 grant between SAWPA and DWR for OCWD to store surplus State Project Water from MWD (extraordinary supply water) and imported water (local water).	
15. South OC Emergency Service Program	OCWD has a contract with these agencies to provide water supplies during emergency events.	Up for renewal in 2029.
16. Sunset Gap Seawater Intrusion Project	OCWD would fund the construction of this project to prevent seawater intrusion into the groundwater basin at this location.	This project would occur over the next 10 years. Seeking state and federal grant funding.

Source:

- a. Webb Associates, *Responses from OCLAFCO MSR Survey for OCWD*, September 15, 2023
- b. OCLAFCO, *Municipal Service Review and Sphere of Influence Update for the Orange County Water District*. September 10, 2024



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SAWPA

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone:
<ul style="list-style-type: none">• https://sawpa.zoom.us/j/87054821793	<ul style="list-style-type: none">• 1 (669) 900-6833
<ul style="list-style-type: none">• Meeting ID: 870 5482 1793	<ul style="list-style-type: none">• Meeting ID: 870 5482 1793

This meeting will be conducted in person at the address listed above. As a convenience, members of the public may also participate virtually using one of the options set forth above. Any member of the public may listen to the meeting or make comments to the Commission using the call-in number or Zoom link above. 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.

REGULAR COMMISSION MEETING TUESDAY, NOVEMBER 19, 2024 – 9:30 A.M.

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Bruce Whitaker, Chair)

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, November 18, 2024. 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: NOVEMBER 5, 2024

Recommendation: Approve as posted.

6. NEW BUSINESS

A. SANTA ANA RIVER REACH 3 TOTAL DISSOLVED SOLIDS SPECIAL STUDY REQUEST FOR PROPOSALS (CM#2024.63)

Presenter: Ian Achimore

Recommendation: To direct the General Manager to issue Requests for Proposals (RFPs) for a Monitoring Plan – Santa Ana River Reach 3 Total Dissolved Solids Special Study.

B. FISCAL YEAR 2025-2026 AND FISCAL YEAR 2026-2027 BUDGET SCHEDULE (CM#2024.64)

Presenter: Karen Williams

Recommendation: Receive and file.

7. INFORMATIONAL REPORTS

Recommendation: Receive for information.

A. CASH TRANSACTIONS REPORT – SEPTEMBER 2024

Presenter: Karen Williams

B. INTER-FUND BORROWING – SEPTEMBER 2024 (CM#2024.65)

Presenter: Karen Williams

C. PERFORMANCE INDICATORS/FINANCIAL REPORTING – SEPTEMBER 2024 (CM#2024.66)

Presenter: Karen Williams

D. PROJECT AGREEMENT 25 – OWOW FUND – FINANCIAL REPORT, AUGUST 2024

Presenter: Karen Williams

E. PROJECT AGREEMENT 26 – ROUNDTABLE FUND – FINANCIAL REPORT, AUGUST 2024

Presenter: Karen Williams

F. STATE LEGISLATIVE REPORT

Presenter: Jeff Mosher

G. GENERAL MANAGER REPORT

Presenter: Jeff Mosher

H. CHAIR’S COMMENTS/REPORT

I. COMMISSIONERS’ COMMENTS

J. COMMISSIONERS’ REQUEST FOR FUTURE AGENDA ITEMS

8. CLOSED SESSION

A. PURSUANT TO GOVERNMENT CODE SECTION 54957 – PUBLIC EMPLOYEE ANNUAL PERFORMANCE EVALUATION

Title: General Manager

9. CLOSED SESSION REPORT

10. 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 November 14, 2024, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.gov and posted at SAWPA's office at 11615 Sterling Avenue, Riverside, California.

2024 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January		February	
1/2/24	Commission Workshop [cancelled]	2/6/24	Commission Workshop
1/16/24	Regular Commission Meeting	2/20/24	Regular Commission Meeting
March		April	
3/5/24	Commission Workshop [cancelled]	4/2/24	Commission Workshop
3/19/24	Regular Commission Meeting	4/16/24	Regular Commission Meeting [cancelled]
May		June	
5/7/24	Commission Workshop [cancelled]	6/4/24	Commission Workshop
5/21/24	Regular Commission Meeting	6/18/24	Regular Commission Meeting
5/7 – 5/9/24	ACWA Spring Conference, Sacramento, CA		
July		August	
7/2/24	Commission Workshop	8/6/24	Commission Workshop
7/16/24	Regular Commission Meeting	8/20/24	Regular Commission Meeting
September		October	
9/3/24	Commission Workshop	10/1/24	Commission Workshop
9/17/24	Regular Commission Meeting	10/15/24	Regular Commission Meeting
November		December	
11/5/24	Commission Workshop	12/3/24	Commission Workshop
11/19/24	Regular Commission Meeting	12/17/24	Regular Commission Meeting
		12/3 – 12/5/24	ACWA Fall Conference, Palm Springs, CA

2025 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January		February	
1/7/25	Commission Workshop	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
5/20/25	Regular Commission Meeting	6/17/25	Regular Commission Meeting
5/13 – 5/15/25	ACWA Spring Conference, Monterey, CA		
July		August	
7/1/25	Commission Workshop	8/5/25	Commission Workshop
7/15/25	Regular Commission Meeting	8/19/25	Regular Commission Meeting
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

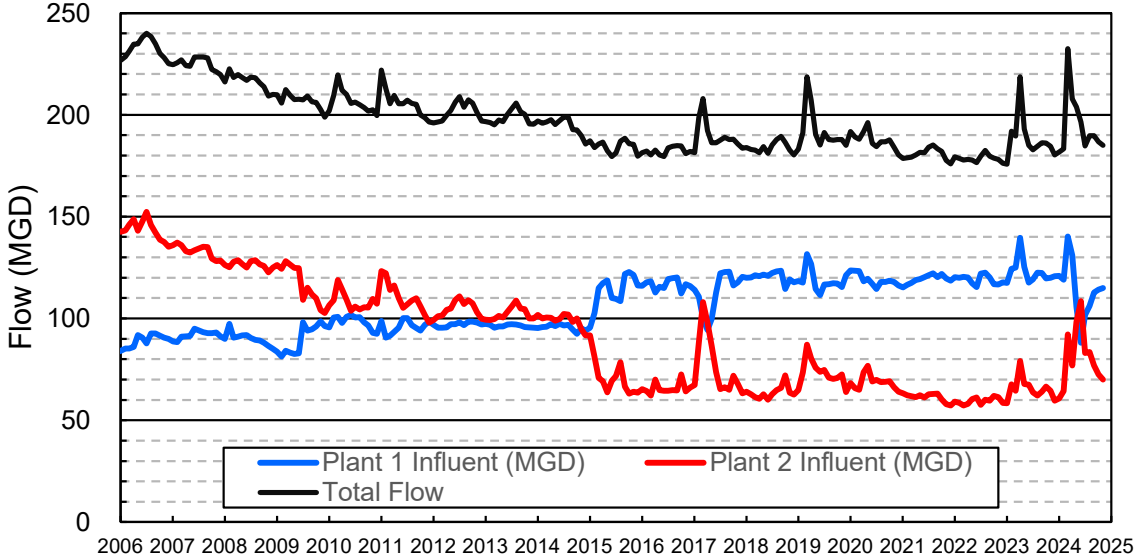
October 2024

INFLOWS & OUTFLOWS (acre-feet)	Total for Month	Year to Date - This Year Last Year	
BASIN SUPPLIES			
Water Purchases from MWD (excludes In Lieu)	0	0	0
Water into MWD Storage Account (excludes In Lieu)	0	0	0
SAR & Santiago Creek Flows (accounts for storage to/from recharge facilities)	6,412	28,708	52,698
GWRS Water to Forebay	6,368	24,566	29,004
GWRS Water to Mid-Basin Injection Wells	668	2,556	2,514
GWRS Water to Talbert Barrier	1,728	6,725	6,993
OC-44 and F. Valley Water to Talbert Barrier	0	0	4
Alamitos Barrier Water	190	831	671
Incidental Recharge (estimated)	1,200	4,800	6,500
Evaporation from Recharge Basins	(183)	(1,149)	(1,598)
River Flow Lost to Ocean	<u>0</u>	<u>0</u>	<u>(359)</u>
Total Groundwater Recharge	16,381	67,036	96,427
WATER PRODUCTION			
Groundwater Production	26,721	110,976	104,633
MWD Storage Program Withdrawals	<u>0</u>	<u>0</u>	<u>0</u>
Total Groundwater Production	26,721	110,976	104,633
BASIN BALANCE			
Change in Groundwater Storage	(10,340)	(43,940)	(8,205)
Change in Groundwater Storage excluding MWD Stored Water	(10,340)	(43,940)	(8,205)
Accumulated Overdraft	-----	176,943	197,208
Accumulated Overdraft excluding MWD Storage	-----	176,942	197,207
IN LIEU WATER			
OCWD In Lieu Purchases (MWD Cyclic Storage)	0	0	0
MWD In Lieu Storage	<u>0</u>	<u>0</u>	<u>0</u>
Total In Lieu	0	0	0
OTHER KEY INFORMATION			
1. MWD Water Deliveries to Producers	4,619	22,839	25,853
2. Achieved Basin Production Percentage (Current BPP - 85%)	85.3%	82.9%	80.2%
3. Total Water Demand	33,257	141,776	138,042
4. Total GWRS Production	8,769	33,873	38,538
5. Green Acres Project Water	315	1,772	1,562
6. SAR Water Quality			
- Total Dissolved Solids (TDS) of SAR below Prado Dam (ppm)	718	-----	734
- Total Nitrogen of SAR below Prado Dam (ppm)	4.3	-----	6.3
7. Month-End Water Storage Behind Prado Dam	2	-----	3
8. Month-End Water Storage in Recharge Facilities	10,186	-----	14,784
9. Water Storage Change in Recharge Facilities	(947)	(8,296)	(6,466)
10. Total Artificial Recharge	15,181	62,236	89,927
11. Monthly Mean Temperature at Santa Ana Fire Station (°F)	72.0	-----	71.1
12. Rainfall at FHQ (inches)	0.00	0.06	2.78

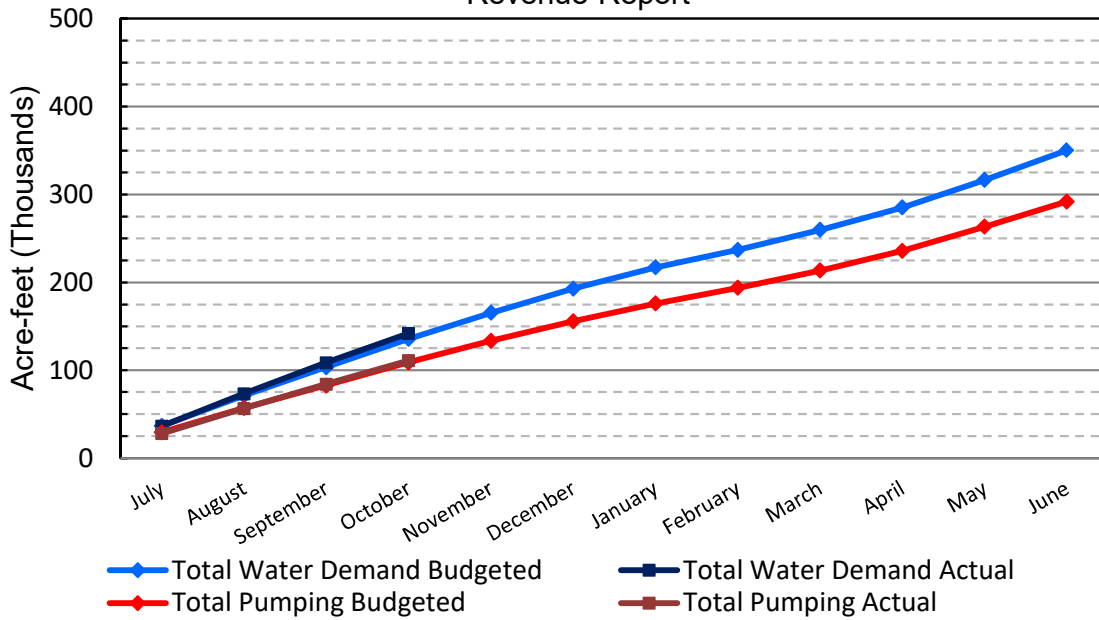
*** Note: Data are preliminary, subject to change

11/14/2024

Orange County Sanitation District Influent Flows Report

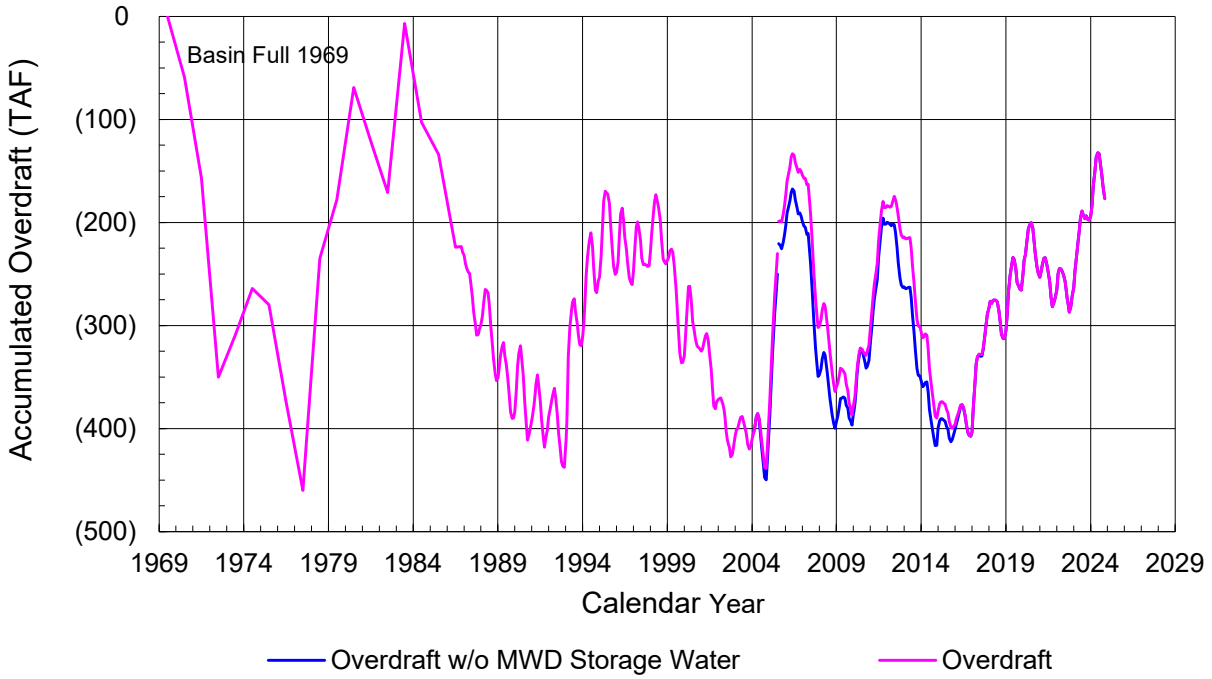


2024-25 Water Demands/Groundwater Pumping/RA Revenue Report

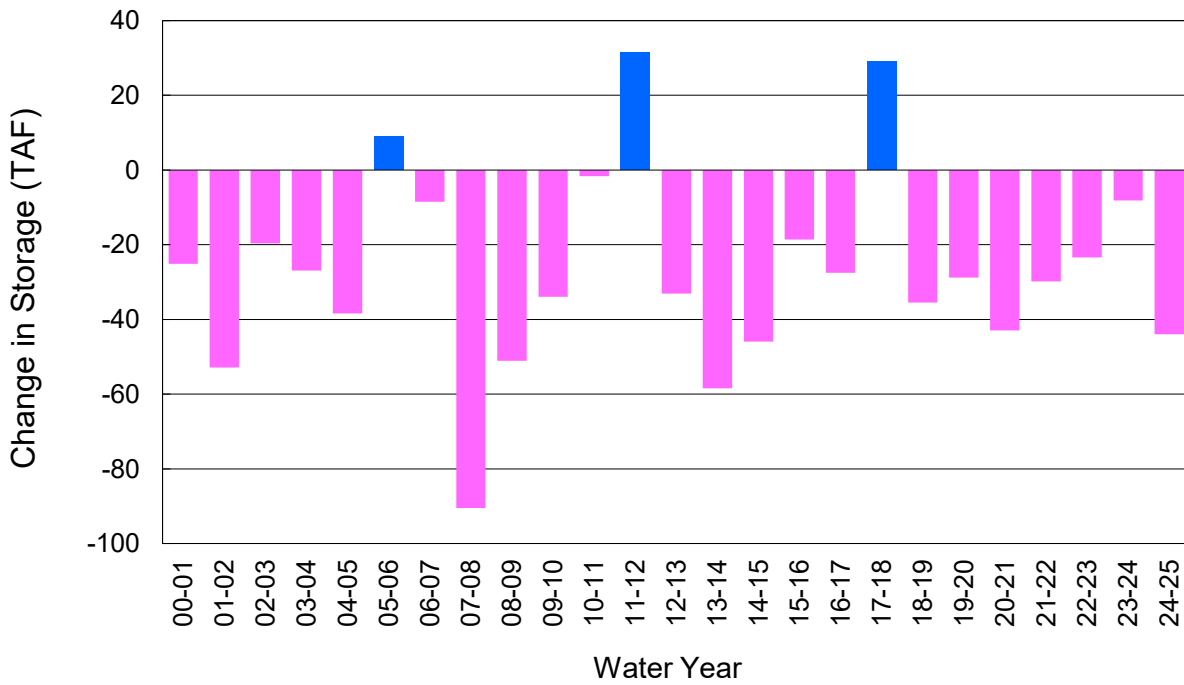


	Monthly		Accumulated Total for the Year			
	Budget	Actual	Budget	Actual	Difference	Percent
Total Water Demand	32,200	33,279	135,700	141,798	6,098	104.49%
Total Pumping	26,300	26,721	109,000	110,976	1,976	101.81%
RA Revenue	\$16,411,200	\$16,673,941	\$68,016,000	\$69,249,233	\$1,233,233	101.81%

Accumulated Overdraft



YTD Change in Groundwater Storage in OCWD



PRODUCERS WATER USAGE SUMMARY

October 2024

(AF except BPP)

WATER AGENCY	Ground-water (1)	In Lieu	Reclaimed Water	Total Import (2)	Total Demand	2024-25 YTD Demand	2023-24 YTD Demand	YTD % Diff	OCT 2024 BPP	2024-25 YTD BPP	2023-24 YTD BPP
Anaheim	3,823	0	0	952	4,775	21,427	19,882	108%	80.1%	82.1%	46.8%
Buena Park	940	0	0	187	1,127	4,982	4,716	106%	83.4%	82.1%	86.4%
East Orange County	163	0	0	0	163	616	322	192%	100.0%	100.0%	0.4%
Fountain Valley	743	0	139	0	882	3,949	3,524	112%	100.0%	100.0%	100.0%
Fullerton	1,357	0	0	618	1,974	8,825	8,252	107%	68.7%	67.7%	73.0%
Garden Grove	1,658	0	0	218	1,876	8,132	7,783	104%	88.4%	92.5%	100.0%
Golden State	1,325	0	0	658	1,983	8,574	8,031	107%	66.8%	61.2%	59.0%
West OC System	948	-	-	226	1,174	5,020	4,891	103%	na	na	na
East OC System	377	-	-	432	809	3,555	3,140	113%	na	na	na
Huntington Beach	1,921	0	0	228	2,149	9,429	9,178	103%	89.4%	86.1%	82.3%
Irvine Ranch	4,120	0	1,663	16	5,799	20,660	22,858	90%	99.6%	98.2%	99.7%
DRWF Clear	2,934	-	-	-	2,934	8,840	10,885	81%	na	na	na
DRWF Color	714	-	-	-	714	2,838	2,857	99%	na	na	na
Laguna Beach	0	0	0	279	279	1,191	1,158	na	0.0%	0.0%	0.0%
La Palma	149	0	0	0	149	631	634	100%	100.0%	100.0%	100.0%
Mesa Water (MW)	1,373	0	58	0	1,430	6,321	6,080	104%	100.0%	100.0%	100.0%
MW Clear	1,262	-	-	-	1,262	4,744	4,967	96%	na	na	na
MW Amber	111	-	-	-	111	1,159	755	154%	na	na	na
Newport Beach	908	0	37	133	1,079	5,430	5,080	107%	87.2%	83.7%	92.7%
Orange	1,867	0	0	394	2,261	9,810	9,217	106%	82.6%	71.9%	83.2%
OCWD (GAP)	124	0	0	0	124	562	705	80%	100.0%	100.0%	100.0%
Santa Ana	2,514	0	20	345	2,879	12,175	11,520	106%	87.9%	86.7%	90.9%
Seal Beach	342	0	0	0	342	1,429	1,108	129%	99.9%	73.7%	99.7%
Serrano	230	0	0	2	231	1,065	1,028	104%	99.3%	87.1%	56.8%
Tustin	557	0	0	282	839	3,731	3,796	98%	66.3%	59.9%	64.7%
Westminster	908	0	0	0	908	3,840	3,646	105%	100.0%	100.0%	100.0%
Yorba Linda	<u>1,408</u>	<u>0</u>	<u>0</u>	<u>302</u>	<u>1,711</u>	<u>7,753</u>	<u>7,285</u>	<u>106%</u>	<u>82.3%</u>	<u>82.9%</u>	<u>83.5%</u>
SUBTOTAL:	26,428	0	1,917	4,613	32,959	140,531	135,802	103%	85.3%	82.9%	80.2%
Other Producers (Est ~3% of Subtotal)	<u>293</u>	<u>0</u>	<u>0</u>	<u>6</u>	<u>299</u>	<u>1,246</u>	<u>2,240</u>	<u>56%</u>			
TOTAL:	26,721	0	1,917	4,619	33,257	141,776	138,042		85.3%	82.9%	80.2%
OCWD (Talbert Barrier)	0		1,728	0	1,728	6,725	6,997				
OCSA (GAP)	na		60	na	60	273	531				

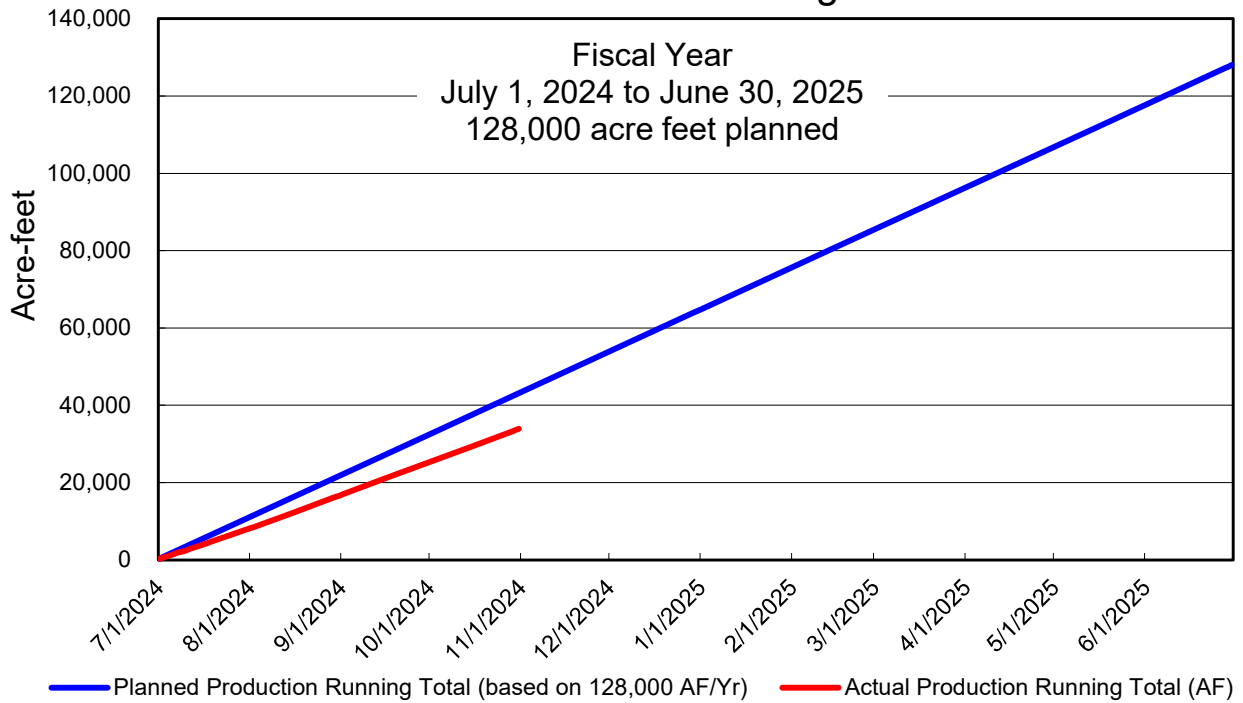
Estimated

(1) Excludes MWD CUP Withdrawals

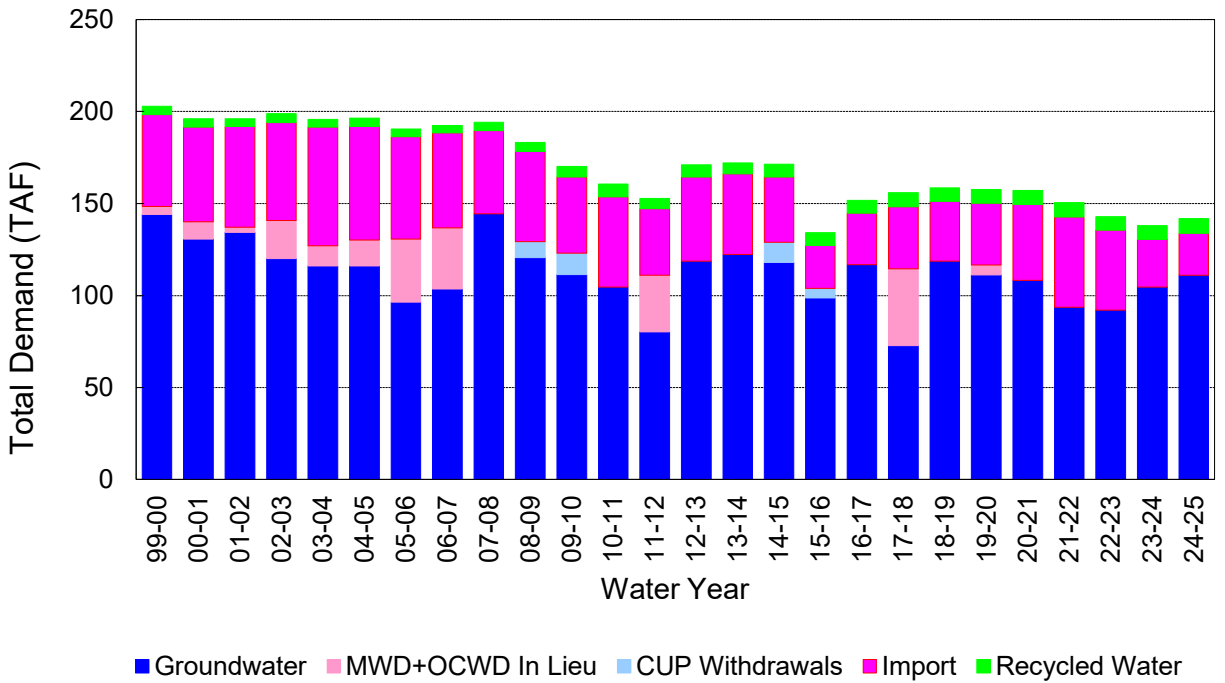
(2) Includes MWD CUP Withdrawals & In Lieu Water

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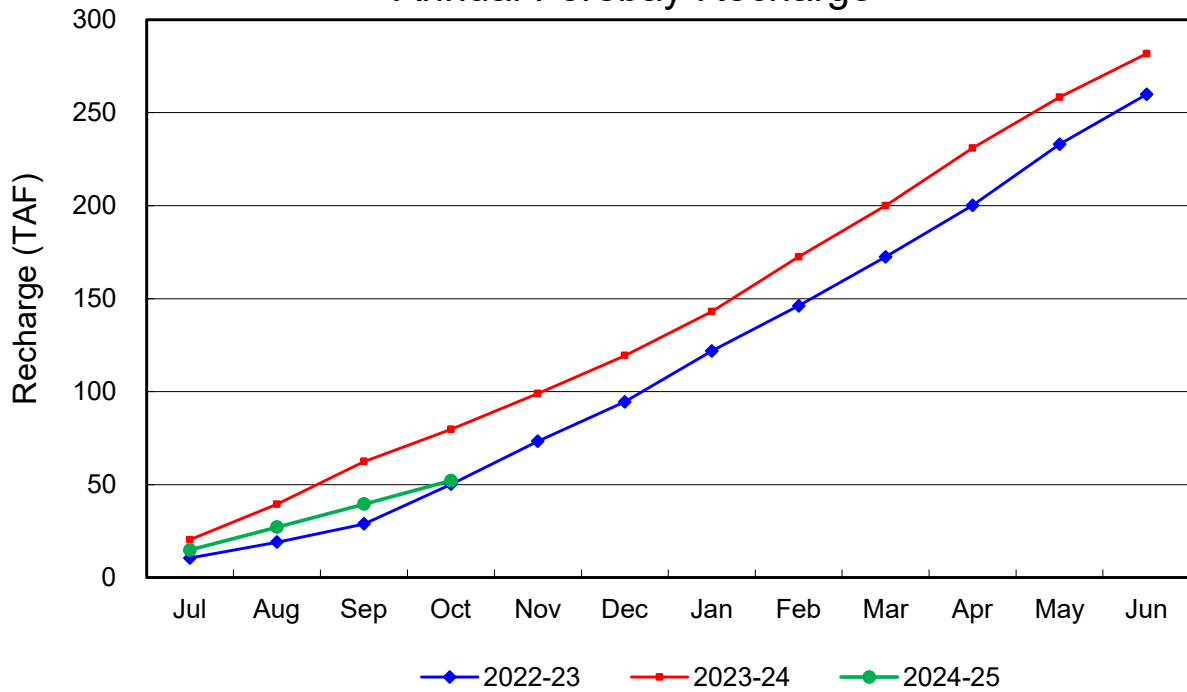
GWRS Actual Production to Target Production



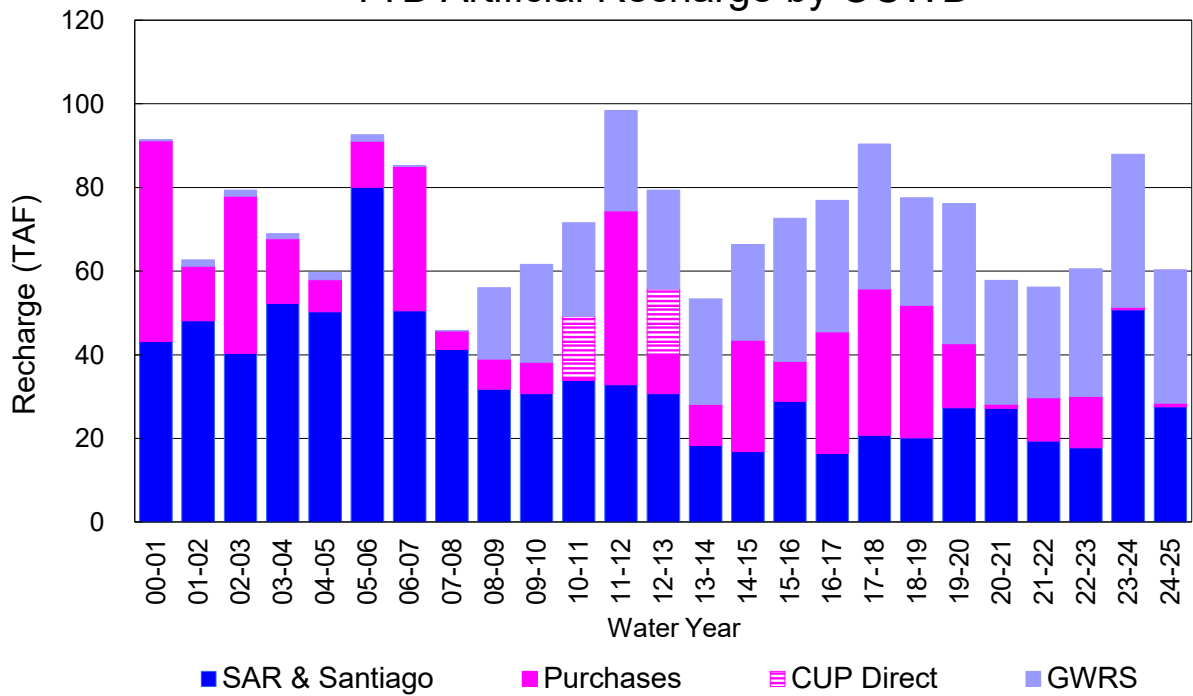
YTD Total Demand in OCWD



Annual Forebay Recharge



YTD Artificial Recharge by OCWD



RECHARGE AREAS REPORT

October 2024

	Percolation (AF)	Remarks
RIVER SYSTEM	4,249	69 cfs per day average perc
DESILTING SYSTEM	na	SAR
OFF-RIVER SYSTEM	100	SAR
WARNER SYSTEM	614	SAR
OLIVE BASIN	na	Passive System
ANAHEIM LAKE	0	
MINI-ANA LAKE	0	
MILLER BASIN	633	GWRS
KRAEMER BASIN	402	GWRS
LA PALMA BASIN	5,072	GWRS
MIRALOMA BASIN	472	GWRS
LA JOLLA BASIN	0	
PLACENTIA BASIN	0	
RAYMOND BASIN	0	
FIVE COVES BASIN	na	SAR
BURRIS BASIN	96	SAR
RIVER VIEW BASIN	0	
FLETCHER BASIN	0	
SANTIAGO BASINS	958	SAR
SANTIAGO CREEK	0	
TOTALS	12,596	
5-YR AVERAGE	16,101	

FLOWS TO RECHARGE AREAS (AF)	
Imperial Headgates (estimated)	5,404
GWRS	6,368
OC-28 (MWD)	0
OC-28a (MWD)	0
OC-59	0
Est'd local Forebay inflow below Imperial	0
Est'd local Santiago inflow (estimated)	61
Irvine lake releases (OC-13 MWD)	0
Villa Park Dam releases (estimated)	0
Precip at Warner Basin (inches)	0.00
Precip direct to open water surfaces	0
TOTAL INFLOW	11,833

LOSSES FROM RECHARGE AREAS (AF)	
Est'd SAR flow past Chapman Ave.	0
Est'd Santiago Cr. flow to SAR	0
Est'd flows past Raymond Basin	0
Calc'd evap (inches) Estimated	4.65
Est'd evaporative losses	183
TOTAL LOSSES	183

STORAGE CHANGES (AF)			
Facility	Begin	End	Net
Deep basins	4,426	4,425	-1
Santiago Pits	6,707	5,761	-946
River			
Off-river			
Irvine Lake			
TOTAL	11,133	10,186	-947

SUMMARY (AF)	
TOTAL INFLOW	11,833
TOTAL LOSSES	183
STORAGE CHANGE	-947
CALC'D PERCOLATION	12,596

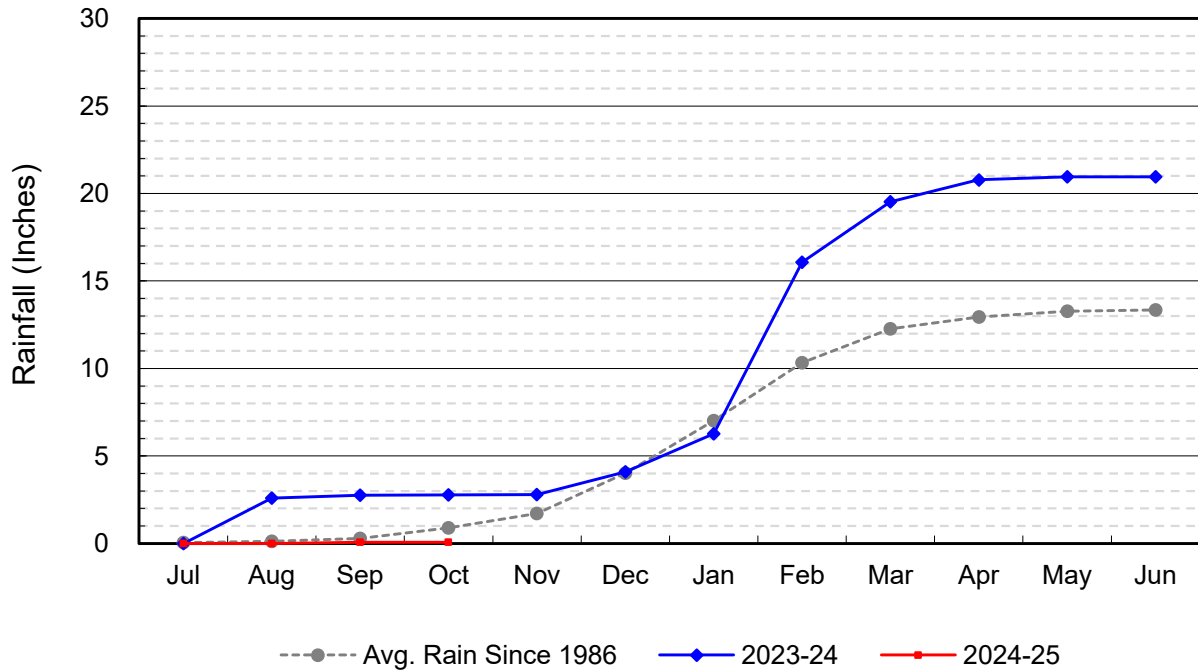
DEEP BASINS MONTHLY STATUS

October 2024

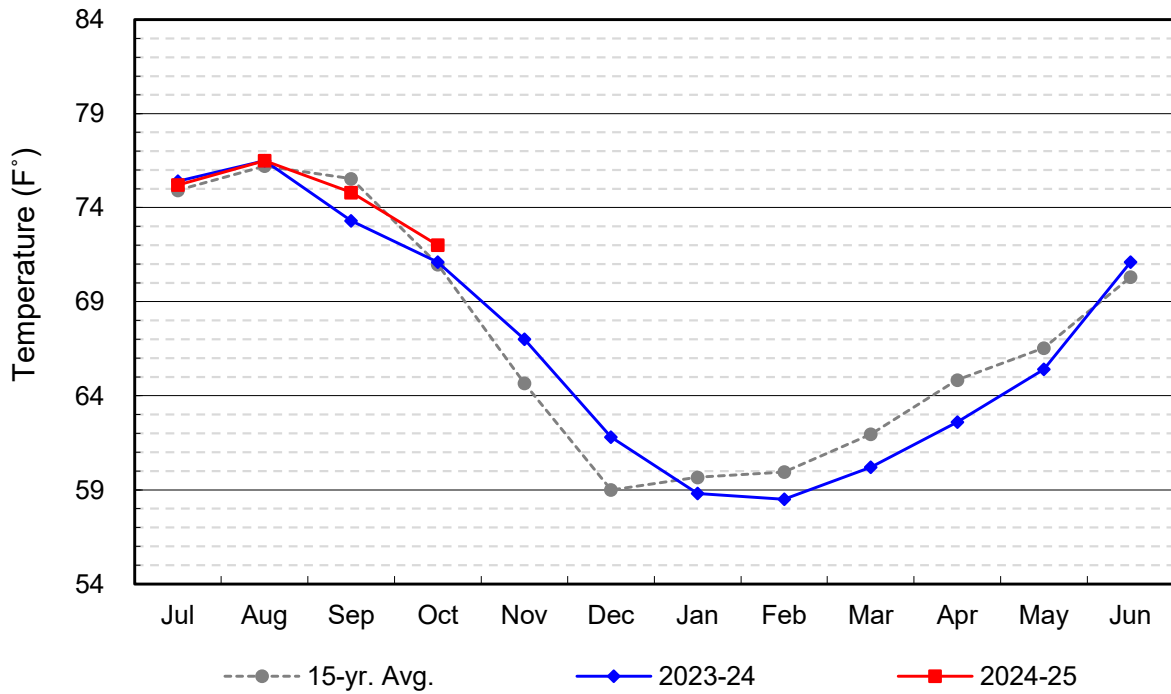
(values in acre-feet)

<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	20	10	252	na	na	na	na
Fos-Huckleberry	537	530	628	na	na	na	na
Conrock Basin	550	548	661	na	na	na	na
Warner Basins	2,613	2,596	2,900	614	na	na	235
Olive Pit	0	0	95	na	na	na	192
Anaheim Lake	0	0	2,300	0	0	0	168
Mini-Anaheim Lk	0	0	10	0	0	0	220
Miller Basin	112	0	350	633	92	20	202
Kraemer Basin	121	0	1,055	402	105	13	165
La Palma Basin	0	34	101	5,072	195	164	214
Miraloma Basin	8	1	53	472	40	15	212
La Jolla Basin	0	0	20	0	0	0	199
Placentia Basin	0	0	260	0	0	0	155
Raymond Basin	0	0	260	0	0	0	144
Five Coves Basins	0	10	329	na	na	na	na
Burris Pit	465	696	2,500	96	7	3	148
River View Basin	0	0	8	0	0	0	185
Fletcher Basin	0	0	15	0	0	0	184
Santiago (Bond)	4,656	4,095	8,312	958	42	32	236
Santiago (Blu Dia)	2,050	1,666	5,259	-	-	-	-
Totals	11,133	10,186	25,367	8,247			
Prado Dam	0	2	20,000				

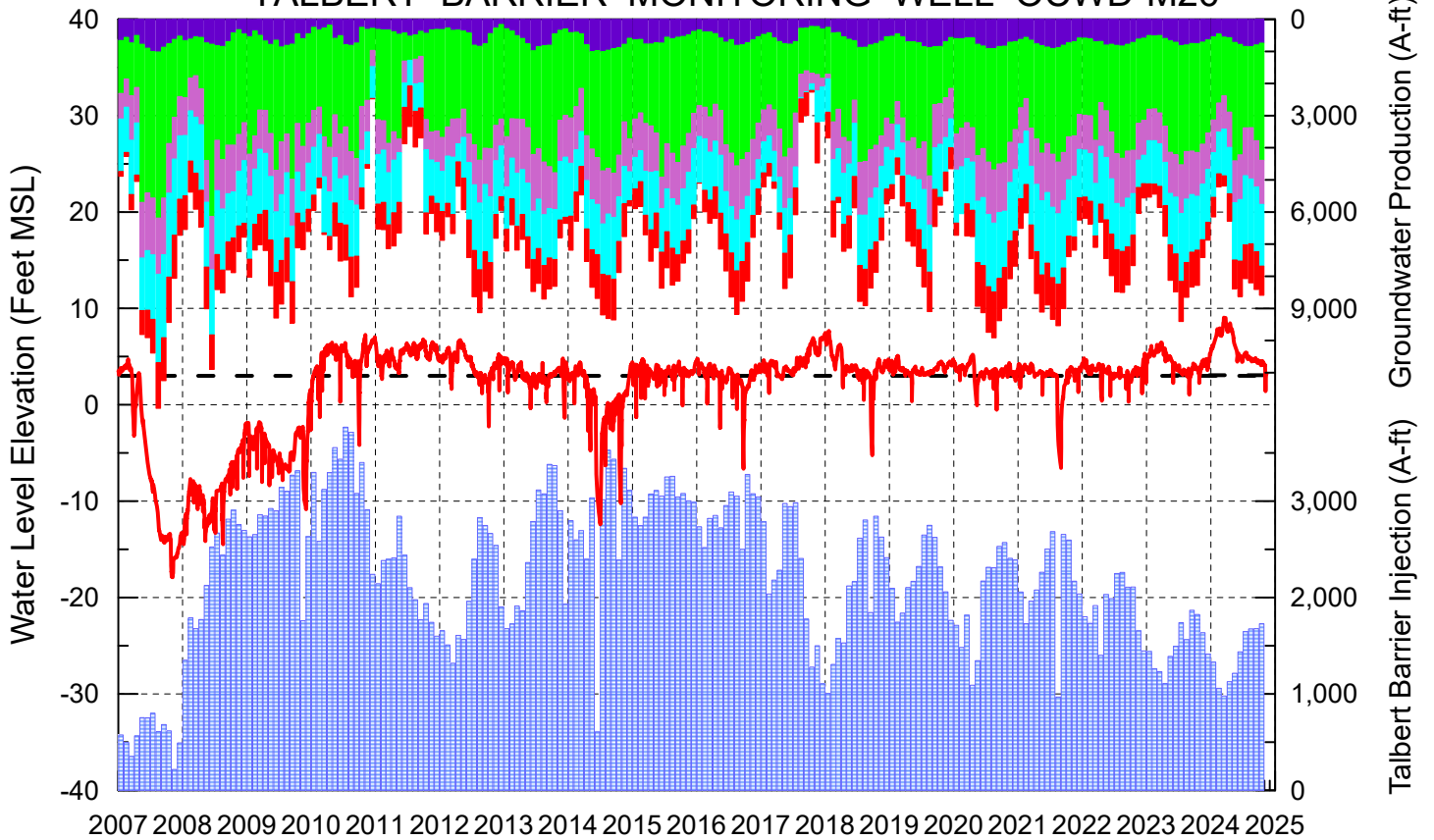
Cumulative Anaheim Field HQ Rainfall



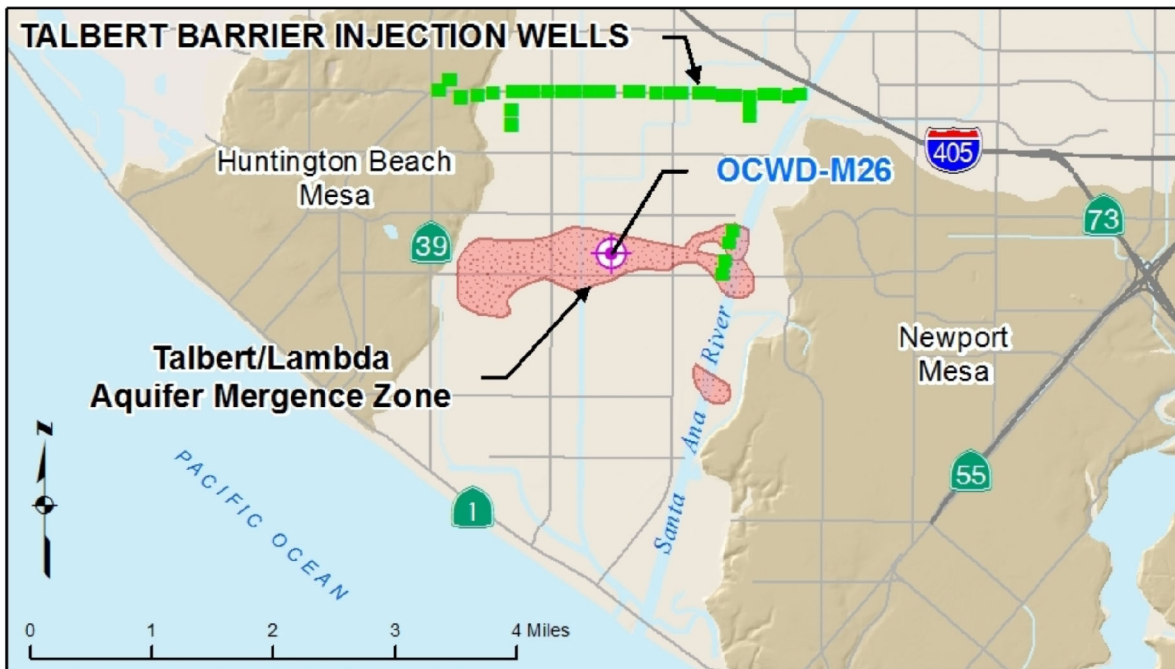
Temperature at Santa Ana Fire Station



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
November 7, 2024 12:00 p.m.- Conference Room C-2

<p>ROLL CALL Denis Bilodeau Van Tran Roger Yoh Bruce Whitaker Steve Sheldon</p> <p><u>Alternates</u> Valerie Amezcua (absent) Natalie Meeks (absent) Dina Nguyen Eric Weigand Cathy Green</p>	<p>Quorum of Cte: Yes Quorum of Board: Yes</p>
<p>CONSENT CALENDAR (ITEMS NO. 1)</p>	
<p>1. MINUTES OF COMMUNICATIONS AND LEGISLATIVE LIAISON COMMITTEE MEETING HELD OCTOBER 3, 2024</p> <p>RECOMMENDATION: Approve minutes as presented</p>	<p>Approved</p>
<p>MATTERS FOR CONSIDERATION</p>	
<p>2. STATE LEGISLATIVE UPDATE</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Take action as appropriate</p>	<p>Informational</p>
<p>3. FEDERAL LEGISLATIVE UPDATE</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Take action as appropriate</p>	<p>Informational</p>
<p>INFORMATIONAL ITEMS</p>	
<p>4. CHILDREN'S WATER EDUCATION FESTIVAL UPDATE</p>	<p>Informational</p>
<p>5. PUBLIC AFFAIRS OUTREACH REPORT (OCTOBER)</p>	<p>Informational</p>
<p>CHAIR DIRECTION AS TO WHICH ITEMS IF ANY TO BE AGENDIZED AS A MATTER FOR CONSIDERATION AT THE NOVEMBER 20 BOARD MEETING</p>	<p>None</p>
<p>ADJOURNMENT</p>	<p>12:35 p.m.</p>

ACTION AGENDA
WATER ISSUES COMMITTEE MEETING
ORANGE COUNTY WATER DISTRICT
Wednesday, November 13, 2024 12:00 p.m., Boardroom

<p>ROLL CALL Bruce Whitaker Dina Nguyen Roger Yoh (arrived 12:04 p.m.) Van Tran Erik Weigand (participating as member of public)</p> <p>Alternates Denis Bilodeau Steve Sheldon Natalie Meeks (absent) Valerie Amezcua Cathy Green</p>	<p>Quorum of Cte: Yes Quorum of Board: Yes</p>
<p>CONSENT CALENDAR (ITEMS NO. 1 – 14)</p>	
<p>1. MINUTES OF WATER ISSUES COMMITTEE MEETING HELD OCTOBER 9, 2024</p> <p>RECOMMENDATION: Approve minutes as presented</p>	<p>Approved</p>
<p>2. CONTRACT GBM-2024-2 INSTALLATION OF THREE SHALLOW AQUIFER MONITORING WELLS NOTICE OF COMPLETION</p> <p>RECOMMENDATION: Agendize for November 20 Board Meeting: Accept completion of the work and authorize filing a Notice of Completion for Contract GBM-2024-2, 2024 Shallow Aquifer Monitoring Wells</p>	<p>Approved</p>
<p>3. CONTRACT SG-2024-1 CONSTRUCTION OF OCWD-BS29 MONITORING WELL CLUSTER NOTICE OF COMPLETION AND AUTHORIZE AMENDMENT TO AGREEMENT WITH WOOD RODGERS FOR INSPECTION SERVICES</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting:</p> <ol style="list-style-type: none"> 1) Accept completion of work and authorize filing a Notice of Completion for Contract SG-2024-1 Construction of OCWD-BS29 Monitoring Well Cluster; and 2) Authorize issuance of Amendment No. 1 to Agreement No.1585 with Wood Rodgers in the amount of \$37,065 for additional field inspection services 	<p>Approved</p>
<p>4. GAP PROCESS BUILDING EXTERIOR STAIR REPLACEMENT - PUBLICATION OF NOTICE INVITING BIDS</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Authorize publication of Notice Inviting Bids for Contract No. GA-2024-1: GAP Process Building Exterior Stair Replacement project</p>	<p>Approved</p>
<p>5. AWARD CONTRACT NO. GG-2024-1 GARDEN GROVE WELL 19 PFAS WATER TREATMENT PLANT TO R C FOSTER CORPORATION</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting:</p> <ol style="list-style-type: none"> 1) Receive and file Affidavit of Publication of Notice Inviting Bids for Contract GG-2024-1 Garden Grove Well 19 PFAS Water Treatment Plant; 2) Ratify issuance of Addenda 1-4; 	<p>Approved</p>

<ul style="list-style-type: none"> 3) Reject the Bid of MMC, Inc. as non-responsive; 4) Accept bid and award contract GG-2024-1 to the lowest responsive bid and responsible bidder, R C Foster Incorporated, in the amount of \$4,553,400; and 5) Establish the Garden Grove Well 19 PFAS Water Treatment Plant Project budget in the amount of \$6,516,000 	
<p>6. AUTHORIZE AGREEMENT WITH EVOQUA FOR PFAS TREATMENT PRESSURE VESSEL SYSTEMS</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of an Agreement with Evoqua for an amount not to exceed \$1,595,050 for four additional PFAS Treatment Vessel Systems</p>	Approved
<p>7. INSTALLATION OF SHALLOW AQUIFER PIEZOMETERS AND TALBERT GAP MONITORING WELL CLUSTER</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting:</p> <ul style="list-style-type: none"> 1) Authorize filing of a Categorical Exemption for the installation of two Shallow aquifer piezometers and one Talbert Gap monitoring well cluster in compliance with CEQA guidelines; 2) Authorize installation of piezometers FM-41 and OM-12 and monitoring wells OCWD-M29RA and OCWD-M29RB; 3) Authorize issuance of a Request for Proposals for inspection services during installation of Talbert Gap monitoring wells; 4) Establish a project budget of \$256,000; and 5) Authorize Notice Inviting Bids for piezometer and monitoring well installation 	Approved
<p>8. CONTRACT NO. TUS-2022-1: AMENDMENT TO BUTIER ENGINEERING</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of an Amendment No. 1 to Agreement No. 1558 with Butier Engineering Inc. for construction management and inspection services in the amount of \$460,830</p>	Approved
<p>9. EMERGENCY REPAIR WORK ORDER RATIFICATION</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting:</p> <ul style="list-style-type: none"> 1) Ratify Work Order No. 8 of Agreement No. 1451 and payment to W.A. Rasic, Inc. for emergency repairs totaling \$14,299; 2) Ratify Work Order Nos. 9/9A of Agreement No. 1452 and payment to T.E. Roberts, Inc. for emergency repairs totaling \$55,650 	Approved
<p>10. AUTHORIZE AMENDMENT TO MKN FOR DESIGN SERVICES FOR THE ANAHEIM LAKE VALVE VAULT PROJECT</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance</p>	Approved

of Agreement to MKN for an amount not to exceed \$62,854 for design services for the Anaheim Lake Valve Vault Project	
11. REQUEST FOR QUOTES FOR MONITORING WELL SC-4 REDEVELOPMENT AND PURCHASE ORDER TO WESTBAY INSTRUMENTS RECOMMENDATION: Agendize for November 20 Board meeting: 1) Authorize issuance of Request for Quotes for services to redevelop monitoring well SC-4; and 2) Authorize issuance of a Purchase Order to Westbay Instruments for an amount not to exceed \$97,000 for replacement casing and packer components and tool rental	Approved
12. AUTHORIZE WORK ORDER TO ENVIRONMENTAL SCIENCE ASSOCIATES FOR ARCHEOLOGICAL MONITORING AT SA-2023-1 RECOMMENDATION: Agendize for November 20 Board meeting: Authorize Work Order 12 to Agreement 1135 with ESA, in the amount of \$38,760, to conduct archeological monitoring for portions of the construction of City of Santa Ana PFAS Water Treatment Plant Well Nos. 27 & 28	Approved
13. MICROFILTRATION WEST BASEMENT ACOUSTIC PANEL PROJECT: REQUEST FOR PROPOSALS RECOMMENDATION: Agendize for November 20 Board meeting: 1) Create a new R&R project with an initial budget of \$60,000 for the MF West Basement Acoustic Panel Project; 2) Authorize issuance of a Request for Proposals for the Microfiltration West Basement Acoustic Panel Project	Approved
14. REVERSE OSMOSIS CIP VALVE RELOCATION PROJECT: AUTHORIZE NOTICE INVITING BIDS RECOMMENDATION: Agendize for November 20 Board meeting: Authorize publication of Notice Inviting Bids for Contract No. GWRS-2024-1, Reverse Osmosis CIP Valve Relocation Project	Approved
END OF CONSENT CALENDAR	
INFORMATIONAL ITEMS	
15. GROUNDWATER BASIN WATER QUALITY OVERVIEW	Informational
CHAIR DIRECTION AS TO ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT THE NOVEMBER 20 BOARD MEETING	Items #2 – 14
ADJOURNMENT	12:46 p.m.

ACTION AGENDA
 ADMINISTRATION/FINANCE ISSUES COMMITTEE MEETING
Thursday, November 12, 2024, 12:00 p.m.

<p>ROLL CALL Roger Yoh Dina Nguyen (absent) Valerie Amezcua Natalie Meeks (absent) Bruce Whitaker</p> <p><u>Alternates</u> Erik Weigand Denis Bilodeau Steve Sheldon (absent) Van Tran Cathy Green</p>	<p>Quorum of Cte: Yes</p> <p>Quorum of Board: Yes</p>
<p>CONSENT CALENDAR (ITEMS NO. 1 – 10)</p>	
<p>1. MINUTES OF ADMINISTRATION/FINANCE ISSUES COMMITTEE MEETING HELD OCTOBER 10, 2024</p> <p>RECOMMENDATION: Approve minutes as presented</p>	<p>Approved</p>
<p>2. MONTHLY CASH CONTROL REPORT</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Receive and file Summary Cash and Cash Equivalents Control Report dated October 31, 2024</p>	<p>Approved</p>
<p>3. INVESTMENT PORTFOLIO HOLDINGS REPORTS</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Receive and file the Investment Portfolio Holdings Reports dated October 31, 2024</p>	<p>Approved</p>
<p>4. AMENDMENTS TO AGREEMENTS WITH VARIOUS CHEMICAL VENDORS FOR THE SUPPLY AND DELIVERY OF WATER TREATMENT CHEMICALS</p> <p>RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of the following Amendments to Chemical Vendors for the supply and delivery of water treatment chemicals:</p> <ol style="list-style-type: none"> 1) Amendment No.1 to Agreement No. 1562 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Hydrogen Peroxide, 2) Amendment No.1 to Agreement No. 1563 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Citric Acid, 3) Amendment No.1 to Agreement No. 1566 with Brenntag Pacific for a six-month time extension through June 30, 2025 for the supply and delivery of Caustic Soda, 4) Amendment No.2 to Agreement No. 1564 with JCI Jones Chemical Inc., effective January 2025 to June 30, 2025, for a revised Sodium Hypochlorite rate of \$1.764/gallon, 5) Amendment No.1 to Agreement No. 1565 with Univar Solutions USA, effective January 2025 to June 30, 2025, for a revised Sulfuric Acid rate of \$236/ton 	<p>Approved</p>
<p>5. ADD PERFORM AND ONBOARD MODULES TO EXISTING NEOGOV SYSTEM</p>	<p>Approved</p>

RECOMMENDATION: Agendize for November 20 Board meeting: Approve the addition of both the Perform and Onboard modules to the existing NeoGov System	
6. PURCHASE REVERSE OSMOSIS MEMBRANE CLEANING CHEMICALS FROM AMERICAN WATER CHEMICALS, INC RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of Purchase Orders to purchase 36,400 pounds of AWC C-227 RO membrane cleaning chemical from American Water Chemicals, Inc. for \$135,777	Approved
7. PURCHASE F-150 LIGHTNING TRUCK FROM VILLA FORD RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of Purchase Order to Villa Ford of Orange for \$73,172 to purchase of an F-150 Lightning Truck, and place T-78 on the surplus when the new truck is delivered	Approved
8. BOARDROOM AND CONFERENCE ROOM AUDIOVISUAL CONTRACTOR REQUEST FOR PROPOSALS RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of Request for Proposals (RFP) for an audiovisual contractor to provide equipment and services to replace the audiovisual systems in the Boardroom and C2 and C3 conference rooms	Approved
9. AWARD OF SERVICES AGREEMENTS FOR ON-CALL WEED ABATEMENT AND TRAIL MAINTENANCE SERVICES RECOMMENDATION: Agendize for November 20 Board meeting: Authorize issuance of an Agreements to Habitat West and the Santa Ana Watershed Association for a three (3) year term with an option to extend for an additional one (1) year with General Manager approval for a total amount not to exceed \$344,810 for on-call weed abatement and trail maintenance services at OCWD facilities within Orange County and at Prado Wetlands in Corona	Approved
10. STATEMENT OF INVESTMENT POLICY FISCAL YEAR 2024-25 RECOMMENDATION: Agendize for November 20 Board meeting: Adopt the Statement of Investment Policy for Fiscal Year 2024-2025	Approved
END OF CONSENT CALENDAR	
MATTERS FOR CONSIDERATION	
11. PRODUCERS WELL CONSTRUCTION LOAN PROGRAM RECOMMENDATION: Agendize for November 20 Board meeting:	Approved
12. BUDGET TO ACTUAL REPORT FOR FIRST QUARTER FY 2024–25 RECOMMENDATION: Agendize for November 20 Board meeting:	Approved
INFORMATIONAL ITEMS	
13. MONTHLY CASH DISBURSEMENT REPORT	Informational
CHAIR DIRECTION AS TO WHICH ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT NOVEMBER 20 BOARD MEETING	Items #2 – 12
ADJOURNMENT	12:28 p.m.