

I hereby certify that the following Agenda was posted at least 72 hours prior to the time of the Board Meeting so noticed below at the usual agenda posting location of the South Orange County Wastewater Authority (SOCWA) and at www.socwa.com.



Lynda May, Assistant Secretary
SOCWA and the Board of Directors thereof

*Regular Meeting of The
South Orange County Wastewater Authority
Board of Directors*

November 6, 2025
8:30 a.m.

PHYSICAL MEETING LOCATION:
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5400 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST SUCH ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. MEMBERS OF THE PUBLIC HAVE THE OPTION TO PARTICIPATE IN AND MAY JOIN THE MEETING REMOTELY VIA VIDEO CONFERENCE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE FOR AUDIO PARTICIPATION (USE PHONE NUMBERS BELOW). THIS IS A PHONE-CALL MEETING AND NOT A WEB-CAST MEETING, SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT WWW.SOCWA.COM. ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. FOR PARTIES PARTICIPATING REMOTELY, PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMUNICATION IN ADDITION TO PUBLIC COMMENTS RECEIVED BY PARTIES PARTICIPATING IN PERSON. COMMENTS MAY BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY LYNDA MAY AT LMAY@SOCWA.COM WITH THE SUBJECT LINE "REQUEST TO PROVIDE PUBLIC COMMENT." IN THE EMAIL, PLEASE INCLUDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER YOU WILL BE CALLING FROM SO THAT THE COORDINATOR CAN UN-MUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. THOSE MAKING PUBLIC COMMENT REQUESTS REMOTELY VIA TELEPHONE IN REAL-TIME WILL BE ASKED TO PROVIDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER THAT YOU ARE CALLING FROM SO THE COORDINATOR CAN UNMUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. ONCE THE MEETING HAS COMMENCED, THE CHAIR WILL INVITE YOU TO SPEAK AND ASK THE COORDINATOR TO UNMUTE YOUR LINE AT THE APPROPRIATE TIME.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY ADMINISTRATIVE OFFICE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE") OR BY PHONE REQUEST MADE TO THE AUTHORITY OFFICE AT 949-234-5400. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS AND SENT TO ANY REMOTE PARTICIPANTS REQUESTING EMAIL DELIVERY OR POSTED ON SOCWA'S WEBSITE. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE MEETING ROOM OR IMMEDIATELY UPON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES PARTICIPATING REMOTELY.

THE PUBLIC MAY PARTICIPATE REMOTELY BY VIRTUAL MEANS. FOR AUDIO OF MEETING USE THE CALL IN PHONE NUMBERS BELOW AND FOR VIDEO USE THE ZOOM LINK BELOW.

Join Zoom Meeting
<https://socwa.zoom.us/>

Meeting ID: 867 9958 6248
Passcode: 712427

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Agenda

- 1. CALL TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. ORAL COMMUNICATIONS

Members of the public may address the Board regarding an item on the agenda or may reserve this opportunity during the meeting at the time the item is discussed by the Board. There will be a three-minute limit for public comments.

- 4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

ACTION Board Discussion/Direction and Action.

PAGE NO.

- 5. CONSENT CALENDAR

A. Minutes of Board of Directors 1

- Board of Directors Regular Meeting of September 4, 2025

ACTION The Board will be requested to approve the subject Minutes.

B. Minutes of Finance Committee 5

- Finance Committee Special Meeting of August 19, 2025

ACTION The Board will be requested to receive and file the subject Minutes.

C. Minutes of Engineering Committee 8

- Engineering Committee Regular Meeting of June 12, 2025

ACTION The Board will be requested to receive and file the subject Minutes.

D. Minutes of Executive Committee 11

- Executive Committee Special Meeting of September 23, 2025

ACTION The Executive Committee recommends to the Board to approve the subject Minutes.

South Orange County Wastewater Authority
Board of Directors Meeting
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- E. August 2025 Operations Report13
 - 1. Monthly Operational Report
 - 2. SOCWA Ocean Outfall Discharges by Agency
 - 3. Beach Ocean Monitoring Report
 - 4. Recycled Water Report

ACTION The Board will be requested to receive and file subject reports as submitted.

- F. September 2025 Operations Report49
 - 1. Monthly Operational Report
 - 2. SOCWA Ocean Outfall Discharges by Agency
 - 3. Fiscal Year Report on Key Operational Expenses
 - 4. Beach Ocean Monitoring Report
 - 5. Recycled Water Report
 - 6. Pretreatment Report (September & October)

ACTION The Board will be requested to receive and file subject reports as submitted.

- G. Use Audit Flows and Solids FY 2024-25 99

ACTION The Engineering Committee recommends that the SOCWA Board of Directors approve the Use Audit calculated results for the close of the Use Audit for disbursement or collection of additional funds for FY 2024-25.

- H. Capital Improvement Program Status Report and Construction Projects Progress and Change Order Report (October)
[Project Committees 2 and 15] 103

ACTION Information Item.

6. ENGINEERING MATTERS

- A. CTP Facility Assessment Planning Draft Request for Proposal Review
[Project Committee 15]..... 114

ACTION PC 15 Board Discussion/Direction/Action.

- B. CTP Regional Flow Study Scope of Work [Project Committee 15]..... 132

ACTION PC15 Board Discussion/Direction/Action.

- C. JBL Facility Planning Assessment Staff Update [Project Committee 2]..... 138

ACTION PC 2 Board Discussion/Direction/Action.

South Orange County Wastewater Authority
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7. GENERAL MANAGER’S REPORT

- A. Resolution No. 2025-12: A Resolution of the Board of Directors of the South Orange County Wastewater Authority for A Commendation to Richard Gardner for providing Dedicated Service to the South Orange County Wastewater Authority and the Residents of Southern Orange County for the period of October 1996 to October 2025 140

ACTION Staff recommends that the Board of Directors approve Resolution No. 2025-12: A Resolution of the Board of Directors of the South Orange County Wastewater Authority for A Commendation to Richard Gardner for providing Dedicated Service to the South Orange County Wastewater Authority and the Residents of Southern Orange County for the period of October 1996 to October 2025.

- B. Resolution No. 2025-13: A Resolution of the Board of Directors of the South Orange County Wastewater Authority for A Commendation to Danita Hirsh for providing Dedicated Service to the South Orange County Wastewater Authority and the Residents of Southern Orange County for the period of September 2017 to December 2025..... 142

ACTION Staff recommends that the Board of Directors approve Resolution No. 2025-13: A Resolution of the Board of Directors of the South Orange County Wastewater Authority for A Commendation to Danita Hirsh for providing Dedicated Service to the South Orange County Wastewater Authority and the Residents of Southern Orange County for the period of September 2017 to December 2025.

- C. Resolution No. 2025-14: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting the additional position for the Environmental Services department and Employee Salary Ranges Updated Exhibit “B” Salary Schedule and Exhibit “C” Organization Chart for October 2025..... 144

ACTION Staff recommends that the Board of Directors approve Resolution No. 2025-14, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting additional position for the Environmental Services department and Revised Employee Salary Ranges updated Exhibit “B” Salary Schedule and Exhibit “C” Organization Chart for October 2025.

- D. Ratification of Preferred Restoration Contract for Administration Building Repairs..... 153

ACTION Staff recommends to the SOCWA Board of Directors ratification of the combined contract value of \$154,564.59 to Preferred Restoration with a 10% contingency for repairs that may arise in the restoration efforts.

- E. SOCWA and Ocean Institute Collaboration MOU..... 179

ACTION The Finance Committee recommends to the SOCWA Board of Directors Option 2: Equal Split of \$50,000 among six (6) Board-Represented Agencies over a period of 5 years at \$10,000 per year.

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F. WEFTEC Summary Report 189
 ACTION Information Item.

G. General Manager’s Report..... 192
 ACTION Information Item.

H. General Counsel’s Report.....212
 ACTION Information Item.

I. Upcoming Meetings Schedule:
 • December 11, 2025 – Board of Directors Regular Meeting
 • November 13, 2025 – Engineering Committee Meeting
 • November 18, 2025 – Finance Committee Meeting
 ACTION Information Item.

8. OTHER MATTERS

Determine the need to take action on the following item(s) introduced by the General Manager, which arose after the posted agenda. [Adoption of this action requires a two-thirds vote of the Board, or if less than two-thirds are present, a unanimous vote.]

9. ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
December 11, 2025

**MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Board of Directors**

September 4, 2025

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held in person and via teleconference on September 4, 2025, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

KATHRYN FRESHLEY	El Toro Water District	Director
BOB WHALEN	City of Laguna Beach	Director
SCOTT GOLDMAN	South Coast Water District	Director
FRANK URY	Santa Margarita Water District	Director

Staff Present:

MIKE DUNBAR	Emerald Bay Service District	Director
DAVE REBENDS DORF	City of San Clemente	Director

Staff Present:

AMBER BOONE	General Manager
JIM BURROR	Deputy GM/Chief Engineer
RONI GRANT	Capital Improvement Program Manager
DINA ASH	HR Administrator
BOB CULVER	Environment Services Manager
JACK BECK	Accountant
JAMES JONES	Superintendent of O&M
MATT CLARKE	Chief Technology Officer
DANITA HIRSH	Executive Assistant/Clerk of the Board

Also Present:

ADRIANA OCHOA	Snell & Wilmer
KARI VOZENILEK	Kidman Law, LLP
JENNIFER LOPEZ	South Coast Water District
SANDER HUANG	South Coast Water District
DENNIS CAFFERTY	El Toro Water District

1. CALL TO ORDER

Director Frank Ury called the meeting to order at 8:33 a.m.

2. PLEDGE OF ALLEGIANCE – Director Bob Whalen

3. ORAL COMMUNICATIONS

None.

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

None.

5. CONSENT CALENDAR

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Whalen to approve the Consent Calendar as submitted.

Motion carried: Aye 4 Nay 0, Abstained 0, Absent 2
Director Dunbar Absent
Director Freshley Aye
Director Whalen Aye
Director Ury Aye
Director Goldman Aye
Director Rebensdorf Absent

(5A-5F)

- A. Minutes of Board of Directors Special Meeting for August 7, 2025
- B. Minutes of Finance Committee Meeting for June 17, 2025
- C. Minutes of Executive Committee Meeting for July 29, 2025
- D. Financial Reports for the Months of May & June 2025
Approved Action: The Board received and filed the May & June 2025 Financial Reports.
- E. July 2025 Operations Reports
Approved Action: Information Item; received and filed.
- F. Capital Improvement Construction Projects Progress and Change Order Report (August) [Project Committees 2 and 15]
Approved Action: The PC 15 Board approved an additional \$40,000 to the existing project budget of \$160,000. This will result in a revised total project budget of \$200,000 for the CTP Aeration Deck Grating Replacement Project.

6. ENGINEERING MATTERS

- A. Contract Award for Coastal Treatment Grit Tank Coating [Project Committee 15]

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Whalen to authorize execution of a contract with Murphy Industrial Coatings in the amount of \$113,894 for the CTP Grit Tank Coating Replacement project, and approve a contract contingency of \$11,390 to address any unforeseen conditions encountered during the work, for a total project budget of \$125,284.

Motion carried: Aye 2, Nay 0, Abstained 0, Absent 1
Director Dunbar Absent
Director Whalen Aye
Director Goldman Aye

B. Water Research Foundation Proposal [Project Committee 15]

An open discussion ensued regarding the proposal's relevance to the ongoing master planning process and whether additional PC members should be engaged in the effort.

ACTION TAKEN

A motion was made by Director Whalen and seconded by Director Goldman to authorize the General Manager to submit the proposal on behalf of SOCWA, with the condition that SOCWA shall not be obligated to accept any resulting award without contract approval by the SOCWA Board.

Motion carried: Aye 2, Nay 0, Abstained 0, Absent 1
Director Dunbar Absent
Director Whalen Aye
Director Goldman Aye

7. GENERAL MANAGER'S REPORT

A. General Counsel's Report

Ms. Adriana Ochoa, General Counsel, Snell & Wilmer, provided an update to the Board of Directors on legislation and case law that the CASA Attorney's Committee is tracking. An open discussion ensued.

This was an information item; no action was taken.

B. General Manager's Report

Ms. Amber Boone, General Manager, provided an update on the Facility Planning Assessment Phase I of the master planning process for the J.B. Latham Plant. An open discussion ensued.

This was an information item; no action was taken.

C. Ocean Institute Partnership Proposal

An open discussion ensued on the proposed partnership with the Ocean Institute to support public outreach and internship opportunities.

The Board of Directors directed staff to present to the Finance Committee cost allocation scenarios for the Ocean Institute Partnership funding for recommendation to the SOCWA Board for final consideration.

E. Upcoming Meetings Schedule:

- September 4, 2025 – Board of Directors Regular Meeting
- September 11, 2025 – Engineering Committee Meeting
- September 16, 2025 – Finance Committee Meeting
- September 23, 2025 – Executive Committee Special Meeting
- October 2, 2025 – Board of Directors Regular Meeting

This was an information item; no actions were taken.

9. OTHER MATTERS

None.

10. ADJOURNMENT

There being no further business, Director Ury adjourned the meeting at 9:24 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors on September 4, 2025, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Lynda May, Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**MINUTES OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Finance Committee**

August 19, 2025

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee was held on August 19, 2025, at 10:30 a.m. in-person and via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present:

GAVIN CURRAN	City of Laguna Beach	Alternate Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
ERICA CASTILLO	South Coast Water District	Alternate Director [exited @ 11:30 am]
PAUL PENDER	Santa Margarita Water District	Alternate Director

Staff Participation:

AMBER BOONE	General Manager
JACK BECK	Accountant
ANNA SUTHERLAND	Staff Accountant
JAMES JONES	Superintendent of O&M
RONI GRANT	Capital Improvement Program Manager
MATT CLARKE	Chief Technology Officer
DANITA HIRSH	Executive Assistant/Clerk of the Board

Also Participating:

KATHRYN FRESHLEY	El Toro Water District
RICK SHINTAKU	South Coast Water District
JENNIFER LOPEZ	South Coast Water District
SAUNDER HUANG	South Coast Water District
KELSEY DECASAS	Moulton Niguel Water District

1. Call Meeting to Order

Chairperson Paul Pender called the meeting to order at 10:30 a.m.

2. Public Comments

None.

3. Approval of Committee Member Request for Remote Participation (Standing Item)

None.

4. Approval of Minutes

- Finance Committee Meeting of June 17, 2025.

ACTION TAKEN

A motion was made by Director Castillo and seconded by Director Curran to approve the Minutes for June 17, 2025, as submitted.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 0
Director Curran Aye
Director Cafferty Aye
Director Pender Aye
Director Castillo Aye

5. Financial Reports for the Months of May & June 2025

ACTION TAKEN

A motion was made by Director Castillo and seconded by Director Curran to recommend that the Board of Directors receive and file the Financial Reports for the Months of May & June 2025.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 0
Director Curran Aye
Director Cafferty Aye
Director Pender Aye
Director Castillo Aye

6. Cost Allocation Policy Update

An open discussion ensued regarding revisions, additions, and clarifications to the proposed Cost Allocation Policy.

The Finance Committee directed staff to incorporate the comments provided in the discussion and bring the updated version back to the Committee for review at the next meeting in September.

7. Financial Policies Update

An open discussion ensued regarding revisions, additions, and clarifications to the following SOCWA policies:

- Capitalization and Depreciation of Facilities & Equipment Policy
- Disposal of Surplus Property Policy
- Eternal Auditor Policy; and
- Travel and Expense Reimbursement Policy

The Finance Committee directed staff to incorporate the comments provided in the discussion and bring the updated versions back to the Committee for review at the next meeting in September.

8. Adjournment

There being no further business, Chairperson Pender adjourned the meeting at 11:32 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of August 19, 2025, and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Lynda May/ Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

Engineering Committee

June 12, 2025

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on June 12, 2025, at 8:30 a.m. in-person and via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present:

MARK McAVOY	City of Laguna Beach
MIKE DUNBAR	Emerald Bay Service District
HANNAH FORD	El Toro Water District
LINDSAY LEAHY	Santa Margarita Water District
MARC SERNA	South Coast Water District

Absent:

DAVE REBENS DORF	City of San Clemente
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Staff Present:

AMBER BOONE	General Manager
RONI GRANT	Capital Improvement Program (CIP) Manager
JIM BURROR	Deputy GM/Chief Engineer
JAMES JONES	Superintendent of O&M
ANNA SUTHERLAND	Staff Accountant
MATT CLARKE	Chief Technology Officer
DANITA HIRSH	Executive Assistant/Clerk of the Board

Also Present:

SANDER HUANG	South Coast Water District
ROGER BUTOW	Clean Water Now (CWN)
DAVE LARSEN	Moulton Niguel Water District
TARYN KJOLSING	South Coast Water District
STEPHEN DOPUDJA	Dopudja & Wells Consulting

1. Call Meeting to Order

Ms. Roni Grant, Capital Improvement Program (CIP) Manager, called the meeting to order at 8:31 a.m.

2. Public Comments

None.

3. Approval of Committee Member Request for Remote Participation (Standing Item)

None.

4. Approval of Minutes

- Engineering Committee Minutes of May 8, 2025.

ACTION TAKEN

A motion was made by Mr. Dunbar and seconded by Mr. Serna to approve the Engineering Committee Minutes for May 8, 2025.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
	Mr. McAvoy Aye
	Ms. Ford Aye
	Mr. Dunbar Aye
	Ms. Leahy Aye
	Mr. Serna Aye
	Mr. Rebensdorf Absent

5. General Manager's Report

Ms. Amber Boone, General Manager, provided an update to the PC 15 members on the status of the Taylor Collaboration Research with the Water Research Foundation. Ms. Boone also reported on the Clean Water SoCal Board meeting, which met the day before to address regulatory affairs. An open discussion ensued.

This was an information item; no action was taken.

6. Operations Report

Mr. Jim Burror, Deputy GM/Chief Engineer, also provided updates on the Clean Water SoCal meeting, in addition to updating the Committee on the status of the small capital budget. An open discussion ensued.

This was an information item; no action was taken.

7. Capital Improvement Construction Projects Progress and Change Order Report (June)
[Project Committees 2 and 15]

Ms. Roni Grant updated the Engineering Committee on the status of the following CIP projects:

- JBL Scum Line Replacement – construction has been completed.
- JBL Electrical Upgrades - Pre-purchasing activities for the Motor Control Center (MCC) and Plant 1 Generator are currently underway.
- JBL and CTP SCADA System – System upgrades have been successfully completed.
- CTP Diffusers Replacement - The construction has been completed.
- CTP Aeration Deck Grating Replacement - Construction is currently in progress.
- CTP West Primary and Secondary Scum Skimming System - Pre-Purchasing of scum skimmers, launders, and weirs are currently in progress.

This was an information item; no action was taken.

8. J.B. Latham Treatment Plant (JBL) and Coastal Treatment Plant (CTP) Master Plan Level of Services Facilitation [Project Committees 2 and 15]

ACTION TAKEN

Mr. Serna made a motion, seconded by Ms. Leahy, to forward the agenda item to the Board of Directors for consideration and approval.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 0
	Mr. McAvoy Aye
	Mr. Dunbar Aye
	Ms. Leahy Aye
	Mr. Serna Aye

9. Contract Award for Coastal Treatment Plant Personnel Building Phase 2 Upgrades [Project Committee 15]

This agenda item was tabled until the August Engineering Committee meeting so staff can obtain additional competitive quotes.

10. Adjournment

There being no further business, Ms. Grant adjourned the meeting at 9:03 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of June 12, 2025, and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Lynda May, Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**MINUTES OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

Executive Committee

**September 23, 2025
9:00 a.m.**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Executive Committee was held on September 23, 2025, at 9:00 a.m. in person at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

SCOTT GOLDMAN	South Coast Water District	Director
KATHRYN FRESHLEY	El Toro Water District	Director
FRANK URY	Santa Margarita Water District	Director

Staff Participation:

AMBER BOONE General Manager

1. Call Meeting to Order

Director Ury called the meeting to order at 9:02 a.m.

2. Public Comments

None.

3. SOCWA Goals for 2025 and 2026

An open discussion ensued regarding the potential organizational goals for 2025 and 2026.

This was an information item; no action was taken.

4. Support Resources Discussion

An open discussion ensued regarding the ongoing and needed organization staffing and consulting needs.

This was an information item; no action was taken.

5. Website Redesign

An open discussion ensued regarding reviewing potential updates needed for the SOCWA website.

This was an information item; no action was taken.

6. General Discussion

- An open discussion ensued regarding governance matters, upcoming deadlines, initiatives, or member concerns.

This was an information item; no action was taken.

Adjournment

There being no further business, Director Ury adjourned the meeting at 10:18 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Executive Committee of September 23, 2025, and approved by the Executive Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Lynda May, Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item

5.E.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors
FROM: Jim Burror, Deputy General Manager/Chief Engineer
SUBJECT: August 2025 Operations Report

Summary/Discussion

The following selected operational reports are provided monthly to the Board of Directors. The operational reports included are as follows:

1) Monthly Operational Report

An six (6) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculations used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visits by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by Member Agency.

2) SOCWA Ocean Outfall Discharges by Agency

This data shows how much water is being discharged into the ocean each month and for the last 12 months. This data is presented for the agencies planning reuse projects to better understand the potential to expand water reuse in their service area.

3) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

Fiscal Impact

No change.

Recommended Action:

Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report August 2025

Excursion, Complaint, and Violation Events

Events	CTP	JBL	Totals
Odor	0	0	0
Noise	0	0	0
Spills	0	0	0
Violations	0	0	0
Others	0	0	0

Plant Wastewater Characteristics

Key Parameters	CTP	JBL TP1	JBL TP2	Total
Influent (mgd) (1)	2.53	7.30	1.02	10.85
Effluent (mgd)	2.22	7.30	2.68	12.20
Peak Flow (mgd)	6.86	9.82	5.23	21.91
Influent BOD (mg/l)	294	312	305	
Influent TSS (mg/l)	334	519	289	
Effluent BOD (mg/l)	3.8	6.6	5.6	
Effluent TSS (mg/l)	6.3	8.0	7.7	
Effluent Turbidity (NTU)	3.2	3.7	3.7	

(1) CTP Influent value does not include AWT backwash in this table.

Recycled Water (AWT) Operations

Key Parameters	CTP	JBL	Totals
Average Flow (mgd)	1.05		1.05
Days of Operation (days)	31		
Total Flow (million gallons)	32.46		32.46
Plant Irrigation (million gallons)	0.10	0.25	0.35
AWT Time Online (%)	100.0		

Wastewater Unit Definitions

mgd = million gallons per day

mg/l = milligram per liter also known as parts per million

NTU = Nephelometric Turbidity Units

SOCWA Operational Report August 2025 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	JBL	Totals
Nursery Products (tons)		907.1	64.5
Prima Deshecha (tons)		0.0	0.0
Other: _____ (tons)		0.0	0.0
Total Processed (tons)		64.5	64.5

Summary of Maintenance Activities

Task Type	CTP	JBL	Totals
Preventative Maintenance	254	263	517
Corrective Maintenance	11	42	53

Site Visitors

Visitor Types	CTP	JBL	Totals
Regulatory	0	1	1
Member Agency	0	0	0
Residents	0	0	0
Others	0	30	30
Tours #/Visitors	0	1	1

Grit Disposal Management

Grit & Screenings	CTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	38.7	44.7

Chemical and Energy Utilization

Chemical/Utility	CTP	JBL	Totals
Ferric Chloride (tons)	9.2	27.4	37
Utility Power Purchase (kWh)	170,734	215,850	386,584
Cogen Power (kWh)		450,477	450,477
Natural Gas (Dth)		1,075	1,075
Digester Gas to Engine (scfm)		6,729,959	6,729,959
Digester Gas to Boiler (scfm)		10,000,000	10,000,000
Digester Gas to Flares (scfm)		224,332	224,332

NA = Not Available at the time this report was generated.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report August 2025 (cont'd)

Agency Flows to SOCWA Opearted Treatment Plants (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.417	53.64%			1.417
EBSB	0.052	1.99%			0.052
SCWD	1.172	44.37%	2.824	33.93%	3.996
SMWD			5.499	66.07%	5.499
Total	2.641	100.00%	8.323	100.00%	10.964

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB			1.42	17.81%	1.42	
EBSB			0.05	0.66%	0.05	
SCWD	3.04	26.96%	0.75	9.48%	3.79	Includes MNWD
ETWD			5.73	72.05%	5.73	Includes IRWD and MNWD
SMWD	6.03	53.47%			6.03	Includes CSJC
CSC	2.21	19.57%			2.21	
Total	11.27	100.00%	7.95	100.00%	19.22	

SOCWA Operational Report August 2025 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
SCWD	6.75	51.92%	2.998	39.11%	2.824	33.93%	2.84	34.04%
SMWD	6.25	48.08%	4.667	60.89%	5.499	66.07%	5.50	65.96%
Total	13.00	100.00%	7.665	100.00%	8.323	100.00%	8.34	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d) (2)	36 Month Rol. Avg. (%)
SCWD	16,055	41.62%	10,876	35.92%	9,138	26.58%	7,974	34.38%
SMWD	22,518	58.38%	19,402	64.08%	25,243	73.42%	15,218	65.62%
Total	38,573	100.00%	30,278	100.00%	34,381	100.00%	23,192	100.00%

Project Committee No. 5 - San Juan Creek Ocean Outfall (SJCOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSC	16.62%	13.296	16.62%	2.206	19.57%	2.331	19.69%
SCWD(3)	18.83%	15.064	18.83%	3.039	26.96%	3.509	29.64%
SMWD(4)	64.55%	51.640	64.55%	6.026	53.47%	6.000	50.68%
Total	100.00%	80.000	100.00%	11.270	100.00%	11.839	100.00%

(1) Influent billing meter summary:

- a. CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
- b. MNWD flows with SCWD flows are assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- d. The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

(2) The 36-month average is the average of the past 36 months. The Use Audit is based on the last 3 Fiscal Years versus the average of the past 36 months.

(3) All monthly flow data for MNWD is reported as part of SCWD's flow to the ocean outfall.

(4) All monthly flow data from CSJC is reported as part of SMWD's flow to the ocean outfall.

SOCWA Operational Report August 2025 (cont'd)

FY Flow/Solids Summary-Billing (cont'd)

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	3.64	54.33%	1.430	53.56%	1.417	53.64%	1.430	53.67%
EBSD	0.20	2.99%	0.060	2.25%	0.052	1.99%	0.056	2.09%
SCWD	2.86	42.69%	1.180	44.19%	1.172	44.37%	1.179	44.24%
Total	6.70	100.00%	2.670	100.00%	2.641	100.00%	2.664	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.00%	5.500	11.00%	1.417	17.81%	1.430	21.42%
EBSD	0.78%	0.390	0.78%	0.052	0.66%	0.056	0.83%
ETWD	16.30%	8.151	16.30%	0.843	10.60%	0.816	12.22%
MNWD(1)	43.85%	21.924	43.85%	0.872	10.97%	1.224	18.34%
IRWD(1)	15.76%	7.880	15.76%	4.015	50.48%	2.425	36.34%
SCWD	12.31%	6.155	12.31%	0.754	9.48%	0.724	10.85%
Total	100.00%	50.000	100.00%	7.954	100.00%	6.675	100.00%

(1) Permitted flow to the ACOO from IRWD and MNWD who are not member agencies of SOCWA.

SOCWA Operational Report August 2025 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Troubleshoot failed digester drip trap and tested repairs at JBL.
Troubleshoot failed digester pressure setpoints and tested repairs at JBL.
Troubleshoot failed scum skimmer blades hitting on beach and tested repairs at JBL.
Replaced failed Aeration Tank #5 Sump Pump at JBL.
Replaced failed Aeration Tank #7 Sump Pump at JBL.
Troubleshoot failing Plant Compressor and tested repairs at JBL.
Troubleshoot failed JBL dialer alarms not working and tested repairs at JBL.
Troubleshoot failed influent stop logs and tested repairs at JBL.
Replaced failed SC200 is not responding Replace at JBL.
Troubleshoot failed Primary Sludge Meter (Plant #1) and tested repairs at JBL.
Troubleshoot failed Ferric VFD and tested repairs at JBL.
Troubleshoot failed Waste Pump #4 and tested repairs at JBL.
Troubleshoot failed Ferric Pump Plant #1 and tested repairs at JBL.
Repaired failing flights on Secondary Tank #13 and tested repairs at JBL.
Repaired failing scum skimmer and tested repairs at JBL.
Rebuilt failing Potable Water Pump system and tested repairs at JBL.

CTP - PC15

Replaced failed MSA H2S sensor at CTP.
Troubleshoot failed Muffin Monster pump supports at CTP.
Rebuilt failing Secondary #1 / East #4 chain, gears, and flights. and tested repairs at CTP.
Troubleshoot failed Outfall Flow Meter at CTP.
Rebuilt failing Secondary #5 / West #1 chain, gears, and flights. and tested repairs at CTP.
Replaced failed West Primary Sludge Grinder at CTP.
Troubleshoot failed L.P. Blower #2 / South and tested repairs at CTP.
Troubleshoot failed Secondary #1 / East #4 and tested repairs at CTP.

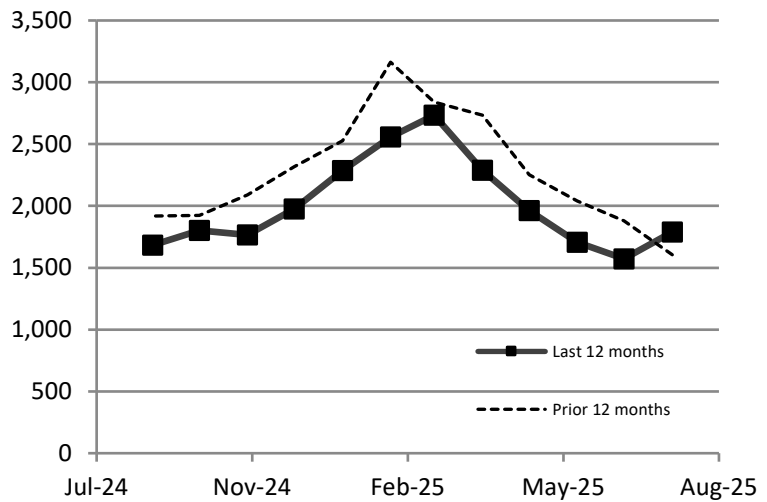
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report August 2025 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.42	17.81%	1.42
EBSD			0.05	0.66%	0.05
SCWD	3.04	26.96%	0.75	9.48%	3.79
ETWD			5.73	72.05%	5.73
SMWD	6.03	53.47%			6.03
CSC	2.21	19.57%			2.21
Total	11.27	100.00%	7.95	100.00%	19.22
or Acre-Feet per year equivalent					21,531

12-Month Running Total Discharge to Ocean Outfalls (AF)

Aug-25	1,790
Jul-25	1,573
Jun-25	1,705
May-25	1,962
Apr-25	2,288
Mar-25	2,734
Feb-25	2,558
Jan-25	2,286
Dec-24	1,976
Nov-24	1,766
Oct-24	1,802
Sep-24	1,684
Total	24,121



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

August 2025

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	MGD	inches
	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	MGD	
08/01/25	No Flow				0.661	16.8	5.1	0.1	1.240	7.0	5.0	<0.1	1.798	3.7	8.0	<0.1	0.000	0.477	0.132	4.308	0.00
08/02/25	0.471	ND	4.7	0.5	0.563	16.8	8.0	0.1	1.82	5.4	4.0		1.876	2.4	7.0		0.000	0.474	0.135	5.339	0.00
08/03/25	1.137	ND	6.1		0.729	6.9	4.3	<0.1	0.850	6.0	4.0	<0.1	2.014	4.4	10.0	<0.1	0.000	0.474	0.113	5.317	0.00
08/04/25	No Flow				0.798	7.8		<0.1	1.790	4.4	3.0	<0.1	2.225	13.1	6.0	<0.1	0.000	0.475	0.131	5.419	0.00
08/05/25	No Flow				1.173	8.8	4.1	0.1	0.730	5.3	4.0	<0.1	2.028	4.4	5.0	<0.1	0.517	0.475	0.131	5.054	0.00
08/06/25	No Flow	31.3	11.1		0.543	6.5	2.2	0.1	0.730	8.8	4.0	0.1	1.627	8.0	4.0	<0.1	0.857	0.474	0.139	4.370	0.00
08/07/25	2.198	37.7	11.9	<0.1	0.543	7.4	3.4	<0.1	0.710	7.2	4.0	<0.1	1.981	4.1	3.0	0.1	0.873	0.474	0.131	6.910	0.00
08/08/25	5.643	39.7	11.7	0.5	0.959	5.8	4.1	0.1	0.070	3.7	4.0	<0.1	2.454	4.9	3.0	<0.1	0.844	0.464	0.132	10.566	0.00
08/09/25	3.005	35.2	8.8	0.2	0.598	10.2	6.0	0.1	0.600	6.4	4.0		1.761	4.6	<3.0		0.873	0.444	0.136	7.417	0.00
08/10/25	3.328	ND	6.6	0.2	1.145	4.1	3.6	<0.1	1.720	3.1	4.0	<0.1	2.009	5.9	4.0	<0.1	0.866	0.446	0.134	9.648	0.00
08/11/25	3.441	ND	6.0	0.2	1.064	13.3		<0.1	0.980	7.0	5.0	<0.1	2.526	1.8	2.0	<0.1	0.860	0.446	0.126	9.443	0.00
08/12/25	3.900	ND		0.3	1.890	10.2	3.3	0.1	0.840	5.0	3.0	<0.1	2.088	9.1	3.0	<0.1	0.860	0.786	0.142	10.506	0.00
08/13/25	3.613	ND	7.2	0.3	0.605	58.0	6.0	0.1	0.240	5.2	5.0	<0.1	1.903	5.9	2.0		0.629	0.444	0.122	7.556	0.00
08/14/25	3.441	27.2	12.5	0.2	0.480	14.7	6.0	0.1	0.210	6.4	3.0	0.1	1.819	1.8	2.0	<0.1	0.846	0.443	0.154	7.393	0.00
08/15/25	3.384	ND	12.9	0.3	0.000	18.0	12.8	<0.1	0.120		3.0	<0.1	2.124	6.3	2.0	<0.1	0.847	0.483	0.104	7.062	0.00
08/16/25	3.378	24.5		0.3	0.000	11.6	4.0	0.1	0.340	6.0	5.0		1.882	13.0	4.0		0.847	0.482	0.163	7.092	0.00
08/17/25	3.396	26.0	6.6	0.4	0.020		2.0	<0.1	1.430	3.6	3.0	<0.1	2.371	11.2	4.0	<0.1	0.847	0.479	0.112	8.655	0.00
08/18/25	3.402	26.4	6.2	0.3	1.520	8.3		0.1	3.160	10.3	5.0	<0.1	2.215	3.2	3.0	0.1	0.846	0.478	0.139	11.760	0.00
08/19/25	3.420	24.8		0.2	1.375	7.2	3.2	0.1	0.400	12.6	7.0	<0.1	2.303	9.8	5.0	<0.1	0.489	0.473	0.134	8.594	0.00
08/20/25	3.471			0.5	0.555	11.4	5.0	0.1	0.540	5.6	3.0	<0.1	2.442	3.3	4.0	<0.1	0.421	0.508	0.129	8.066	0.00
08/21/25	3.504	26.0	6.6	0.4	0.523	13.0	4.0	0.1	0.860	21.4	5.0	<0.1	2.026	7.6	4.0	<0.1	0.423	0.505	0.141	7.982	0.00
08/22/25	3.486	26.4	6.9	0.5	0.725	8.1	3.3	0.1	0.540	4.3	3.0	<0.1	1.754	1.2	1.0	<0.1	0.426	0.475	0.137	7.543	0.00
08/23/25	3.457	ND		0.4	0.881	4.5	2.0	0.1	0.440	5.9	2.0		1.917	9.2	1.0		0.425	0.498	0.132	7.750	0.00
08/24/25	3.452	26.8	5.8	0.3	1.061	8.1	4.0	<0.1	2.390	6.6	4.0	<0.1	2.201	10.3	4.0	<0.1	0.425	0.455	0.127	10.111	0.00
08/25/25	3.455	26.8	5.4	0.3	1.315	5.8		0.1	2.560	8.1	5.0	0.1	2.250	2.3	2.0	<0.1	0.426	0.446	0.132	10.584	0.00
08/26/25	3.590	ND	5.5	0.4	1.100	12.2	4.3	0.1	0.230	11.2	5.0	<0.1	2.387	12.6	5.0	0.1	0.425	0.502	0.136	8.370	0.00
08/27/25	3.594	25.6	5.8	0.3	0.775	9.2	4.1	0.1	0.180	5.1	3.0	<0.1	2.613	18.0	5.0	<0.1	0.422	0.486	0.133	8.203	0.00
08/28/25	3.518	28.4	6.0	0.4	0.810	8.8	4.0	0.1	0.180	7.9	4.0	<0.1	1.907	1.8	<2.0	<0.1	0.422	0.458	0.147	7.442	0.00
08/29/25	3.486	29.6	7.2	0.3	1.215	9.6	3.9	0.1	0.130	5.0	4.0	<0.1	2.099	1.2	1.0	<0.1	0.425	0.466	0.133	7.954	0.00
08/30/25	3.459	32.0		0.4	1.594	9.2	4.0	0.1	0.560	3.6	3.0		2.349	3.3	3.0		0.425	0.467	0.137	8.991	0.00
08/31/25	3.460	40.0	8.0	0.4	0.921	7.1	3.9	<0.1	0.450	5.4	2.0	<0.1	1.854	7.6	5.0	<0.1	0.425	0.461	0.126	7.697	0.00
AVG	2.874	19.8	7.7	<0.3	0.843	11.3	4.5	<0.1	0.872	6.8	3.9	<0.1	2.090	6.3	3.8	<0.1	0.548	0.481	0.133	7.842	
TOTAL	89.09				26.14				27.04				64.80				16.99	14.92	4.120	243.10	0.00

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1 2025
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 08:44

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	08/05/25	08:10	<10	<10	<2	None	None	None	None	Green		Clear		
S4	08/05/25	11:00	<10	<10	2	None	None	None	None	Green		Clear		
S5	08/05/25	10:47	<10	<10	<2	None	None	None	None	Green		Clear		
S6	08/05/25	10:32	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	08/05/25	10:30	<10	<10	6	None	None	None	None	Green		Clear		
S7	08/05/25	10:25	<10	<10	2	None	None	None	None	Green		Clear		
S8	08/05/25	10:20	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	08/05/25	10:05	<10	<10	10	None	None	None	None	Green	59	Clear		
ACM1	08/05/25	09:50	<10	<10	2	None	None	None	None	Green		Clear		
S10	08/05/25	09:42	<10	10	10	None	None	None	None	Green		Clear		
S11	08/05/25	09:35	200	660	<2	None	None	None	None	Green		Clear		
S12	08/05/25	09:30	<10	<10	2	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 12:43
 Weather: Overcast
 COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S3	08/13/25	10:59	10	<10	<2	None	None	None	None	Blue		Clear		
S4	08/13/25	11:22	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	08/13/25	12:43	<10	<10	2	None	None	None	None	Blue		Clear		
S6	08/13/25	13:05	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	08/13/25	13:00	<10	<10	<2	None	None	None	None	Blue		Clear		
S7	08/13/25	12:55	20	<10	2	None	None	None	None	Blue	70	Clear		
S8	08/13/25	12:48	10	10	10	None	None	None	None	Green		Clear		
S9	08/13/25	12:45	<10	<10	20	None	None	None	None	Green		Clear		
ACM1	08/13/25	12:43	20	20	40	None	None	None	None	Green		Clear		
S10	08/13/25	12:20	<10	<10	<2	None	None	None	None	Blue		Clear		
S11	08/13/25	12:20	<10	<10	<2	None	None	None	None	Blue		Clear		
S12	08/13/25	12:14	<10	<10	<2	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100m

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 9:34
 Weather: Clear
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	08/21/25	9:13	<10	<10	<2	None	None	None	None	Green		Clear		
S4	08/21/25	8:58	30	<10	2	None	None	None	None	Green		Clear		
S5	08/21/25	8:39	10	<10	<2	None	None	None	None	Green		Clear		
S6	08/21/25	8:25	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	08/21/25	8:22	<10	<10	<2	None	None	None	None	Green		Clear		
S7	08/21/25	8:19	<10	<10	<2	None	None	None	None	Green		Clear		
S8	08/21/25	8:00	10	<10	<2	None	None	None	None	Green		Clear		
S9	08/21/25	7:58	20	<10	<2	None	None	None	None	Green		Clear		
ACM1	08/21/25	7:57	20	<10	2	None	None	None	None	Green		Clear		
S10	08/21/25	7:43	<10	10	<2	None	None	None	None	Green	69	Clear		
S11	08/21/25	7:39	20	<10	2	None	None	None	None	Green		Clear		
S12	08/21/25	7:34	40	<10	<2	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 11:40

Weather: Fog

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	08/26/25	10:16	<10	<10	<2	None	None	None	None	Blue	71	Clear		
S4	08/26/25	10:37	10	10	<2	None	None	None	None	Blue		Clear		
S5	08/26/25	11:44	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	08/26/25	11:00	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	08/26/25	10:59	10	10	6	None	None	None	None	Blue		Clear		
S7	08/26/25	10:55	10	10	<2	None	None	None	None	Blue		Clear		
S8	08/26/25	11:36	120	120	34	None	None	None	None	Blue		Clear		
S9	08/26/25	11:38	20	20	36	None	None	None	None	Blue		Clear		
ACM1	08/26/25	11:42	100	80	58	None	None	None	None	Blue		Clear		
S10	08/26/25	11:30	10	10	6	None	None	None	None	Blue		Clear		
S11	08/26/25	11:25	10	10	<2	None	None	None	None	Blue		Clear		
S12	08/26/25	11:20	100	<10	20	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Water Quality Sample Station Map – Aliso Creek Ocean Outfall



Aliso Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
S3	Three Arch Bay Beach; 10,000' down-coast from ACOO
S4	Ninth Street-1000 Steps; 5,000' down-coast from ACOO
S5	Laguna Lido Beach; 4,000 down-coast from ACOO
West	West Street Drain; 2,000' down-coast from ACOO
S6	Table Rock Beach; 3,000' down-coast from ACOO
S7	Camel Point Beach; 2,000' down-coast from ACOO
S8	Aliso Beach south; 1,000' down-coast from ACOO
S9	Aliso Beach middle; at ACOO
ACM1	Aliso Beach at Aliso Creek Outlet
S10	Aliso Beach north; 1,000' up-coast of ACOO
S11	Treasure Island Beach; 2,000' up-coast of ACOC
S12	Goff Island Beach; 3,000' up-coast of ACOO

MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

Report For: August 2025

Report Frequency: Monthly

Report Due: October 1, 2025

Sample Source: Receiving water, nearshore and offshore

Sampling Frequency: Monthly

Exact Sample Points: As specified in permit

Type of Sample: Grab

Samples Collected By: Seaventures/SOCWA staff

Tide: High Tide 9:03

Samples Analyzed By: SOCWA Lab

Comments: Foggy at offshore sites; clear nearshore

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	08/20/25	<2	<2	<2	8:05	0	0	
A-1	Mid depth	08/20/25	<10	<10	<10				
A-2	Surface	08/20/25	<2	2	2	8:02	0	0	
A-2	Mid depth	08/20/25	<10	<10	<10				
A-3	Surface	08/20/25	<2	<2	<2	8:17	0	0	
A-3	Mid depth	08/20/25	20	20	<10				
A-4	Surface	08/20/25	<2	<2	<2	8:22	0	0	
A-4	Mid depth	08/20/25	<10	<10	<10				
A-5	Surface	08/20/25	<2	<2	<2	8:12	0	0	
A-5	Mid depth	08/20/25	<10	<10	<10				
B-1	Surface	08/20/25	<2	<2	<2	7:49	0	0	
B-1	Mid depth	08/20/25	<10	<10	<10				
B-2	Surface	08/20/25	<2	<2	<2	8:34	0	0	
B-2	Mid depth	08/20/25	<10	<10	<10				
N1	Surface	08/20/25	2	4	<2	8:52	0	0	
N2	Surface	08/20/25	4	2	<2	8:50	0	0	
N3	Surface	08/20/25	6	2	<2	8:48	0	0	
N4	Surface	08/20/25	20	2	<2	8:47	0	0	
N5	Surface	08/20/25	10	6	<2	8:45	0	0	
N6	Surface	08/20/25	8	2	<2	8:43	0	0	
N7	Surface	08/20/25	4	2	2	8:41	0	0	

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL

calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL

(3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV)

of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated

in a static manner

**Compliance Summary Report
Aliso Creek Ocean Outfall August 2025**

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
There were no water quality violations during this reporting period.							



**SOCWA and MEMBER AGENCY FACILITIES ACOO
Spill / Overflow Report Log - August 2025 Order No.
R9-2022-0006 ~ NPDES Permit No. CA0107611**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
				No Spills During this Monitoring Period			

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

August 2025

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	Desalter FLOW MGD	Desalter FLOW MGD	FLOW MGD	Fall inches
08/01/25	8.040	7.3	8.0	<0.1	1.880	4.3	6.0	<0.1	0.000				0.005	<5.0	3.8	<0.1	0.530	0.174	11.250	0.00
08/02/25	7.960	7.4	8.4		2.190				0.000				0.015				0.530	0.173	11.180	0.00
08/03/25	8.110	6.5	6.7	<0.1	2.110	5.8	6.0		0.000				0.001				0.530	0.170	11.570	0.00
08/04/25	8.280	8.0	7.1	<0.1	2.400	5.2	8.0	<0.1	0.000				0.057				0.530	0.172	11.910	0.00
08/05/25	8.160	6.3	6.0	<0.1	2.240	5.3	10.0	<0.1	0.000				0.085	5.0	4.3	<0.1	0.530	0.171	11.770	0.00
08/06/25	8.010	7.5	5.4	<0.1	2.000	5.4	8.0	<0.1	0.009	1.8	2.0	<0.1	0.182	10.0	5.0	<0.1	0.290	0.174	11.480	0.00
08/07/25	7.990	9.3	5.1	0.1	2.090	6.9	8.0	0.1	0.000				0.032	<5.0	3.6	<0.1	0.370	0.170	11.260	0.00
08/08/25	8.090	8.1	6.5	<0.1	1.970	4.0	6.0	<0.1	0.000				0.027	5.0	3.1	<0.1	0.540	0.173	11.440	0.00
08/09/25	8.190	9.7	7.5		2.130				0.000				0.203				0.540	0.171	11.590	0.00
08/10/25	8.320	9.8	8.8	<0.1	2.260	3.7	6.0		0.000				0.178	7.0	4.7	<0.1	0.540	0.174	12.130	0.00
08/11/25	8.260	11.0	8.0	0.1	2.490	4.8	7.0	0.2	0.001	3.5	2.2	<0.1	0.003	5.0	4.0	<0.1	0.530	0.170	12.210	0.00
08/12/25	8.300	9.4	5.3	<0.1	1.990	7.2	8.0	0.1	0.002	2.9	2.5	<0.1	0.011	5.0	11.0	<0.1	0.530	0.173	11.540	0.00
08/13/25	8.040	16.4	7.7	<0.1	2.150	5.0	7.0	<0.1	0.047	4.2	2.2	0.1	0.006	5.0	4.1	<0.1	0.540	0.173	11.470	0.00
08/14/25	8.100	9.7	6.4	0.1	1.940	5.0	7.0	<0.1	0.000				0.016	5.0	3.8	<0.1	0.530	0.173	11.140	0.00
08/15/25	8.000	9.8	6.7	<0.1	2.260	5.9	7.0	0.1	0.000				0.004	5.0	3.2	<0.1	0.530	0.170	11.020	0.00
08/16/25	8.150	9.1	6.0		2.180				0.000				0.007	5.0	3.5	<0.1	0.500	0.173	11.270	0.00
08/17/25	8.400	8.0	6.0	<0.1	2.140	5.9	6.0		0.005	1.4	4.7	<0.1	0.225				0.510	0.173	11.520	0.00
08/18/25	8.510	11.5	6.7	0.1	2.570	6.0	8.0	0.1	0.015	2.9	3.9	<0.1	0.162	6.0	4.8	<0.1	0.530	0.170	12.080	0.00
08/19/25	8.660	5.7	5.3	<0.1	2.310	5.8	7.0	<0.1	0.004	3.5	4.9	<0.1	0.007	5.0	3.3	<0.1	0.550	0.173	12.510	0.00
08/20/25	8.240	7.8	7.0	<0.1	2.330	4.6	6.0	<0.1	0.086	3.6	5.2	0.2	0.032	5.0	3.4	<0.1	0.550	0.173	11.640	0.00
08/21/25	8.340	7.4	6.3	<0.1	2.060	5.0	7.0	0.2	0.002	3.3	4.3	<0.1	0.027	<5.0	3.9	<0.1	0.550	0.170	11.880	0.00
08/22/25	8.400	5.7	4.7	<0.1	2.380	4.1	6.0	<0.1	0.000				0.018	5.0	2.3	<0.1	0.550	0.173	11.460	0.00
08/23/25	8.350	4.9	3.7		2.080				0.000				0.032				0.550	0.172	11.420	0.00
08/24/25	8.640	7.5	5.7	<0.1	2.320	7.3	7.0		0.004	0.8	5.3	<0.1	0.007				0.550	0.170	12.060	0.00
08/25/25	8.610	8.4	7.3	<0.1	2.600	4.7	6.0	0.1	0.007	2.2	3.6	<0.1	0.014	5.0	5.3	<0.1	0.490	0.173	12.230	0.00
08/26/25	8.980	6.1	4.7	0.1	2.580	3.1	6.0	<0.1	0.000				0.044	6.0	3.9	<0.1	0.530	0.173	12.520	0.00
08/27/25	8.090	6.6	5.0	<0.1	1.930	7.7	8.0	0.1	0.003	1.2	4.2	<0.1	0.023	5.0	2.9	<0.1	0.540	0.046	11.240	0.00
08/28/25	8.500	5.7	5.7	<0.1	2.320	5.4	7.0	<0.1	0.000				0.006	6.0	4.1	<0.1	0.540	0.174	11.210	0.00
08/29/25	8.340	5.5	6.6	<0.1	2.660	6.8	7.0	<0.1	0.000				0.006	<5.0	3.5	<0.1	0.540	0.173	11.380	0.00
08/30/25	8.230	4.9	4.6		1.730				0.000				0.006				0.540	0.171	11.010	0.00
08/31/25	8.420	4.9	5.3	<0.1	2.090	6.3	7.0		0.000				0.007				0.540	0.173	11.380	0.00
AVG	8.281	7.9	6.3	<0.1	2.206	5.4	7.0	<0.1	0.006	2.6	3.8	<0.1	0.047	5.5	4.2	<0.1	0.521	0.168	11.605	
TOTAL	256.710				68.380				0.185				1.448				16.150	5.211	359.770	0.00

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 9:19

Weather: Overcast

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	None	None	None	None	None	None	None
S0	08/04/25	7:50	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S1	08/04/25	7:55	40	<20	2	None	None	None	None	Green		Slightly Turbid		
S2	08/04/25	8:58	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
DSB5	08/04/25	9:08	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
S3	08/04/25	8:33	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	08/04/25	8:31	<20	<20	<2	None	None	None	None	Green	68	Slightly Turbid		
S5	08/04/25	8:41	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	08/04/25	8:46	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	08/04/25	8:00	<100	100	<10	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 12:55

Weather: Overcast

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	08/14/25	9:12	<20	20	2	None	None	None	None	Green		Turbid		
S1	08/14/25	9:20	100	<20	<2	None	None	None	None	Green		Turbid		
S2	08/14/25	10:00	20	<20	10	None	None	None	None	Green	68	Turbid		
DSB5	08/14/25	10:05	40	<20	10	None	None	None	None	Green		Turbid		
S3	08/14/25	9:23	20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	08/14/25	9:23	20	<20	4	None	None	None	None	Green		Turbid		
S5	08/14/25	9:30	40	240	6	None	None	None	None	Green		Turbid		
DSB1	08/14/25	9:35	20	200	6	None	None	None	None	Green		Turbid		
SJC1	08/14/25	9:10	100	20	50	None	None	None	None	Blue		Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 12:47

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease		Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	Grease	Odor					
S0	08/19/25	13:14	<20	<20	<2	None	None	None	None	Green	67	Clear		
S1	08/19/25	13:10	<20	<20	<2	None	None	None	None	Green		Clear		
S2	08/19/25	13:27	<100	20	8	None	None	None	None	Green		Clear		
DSB5	08/19/25	13:23	<20	20	8	None	None	None	None	Green		Clear		
S3	08/19/25	13:03	<20	<20	<2	None	None	None	None	Green		Clear		
DSB4	08/19/25	12:42	<20	<20	<2	None	None	None	None	Green		Clear		
S5	08/19/25	12:35	<20	<20	<2	None	None	None	None	Green		Clear		
DSB1	08/19/25	12:29	<20	<20	<2	None	None	None	None	Green		Clear		
SJC1	08/19/25	12:55	<20	<20	<10	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2025
 REPORT DUE: October 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 11:03
 Weather: Overcast
 COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore	None	None	None	None	None	None	None
S0	08/25/25	8:36	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S1	08/25/25	9:10	20	20	2	None	None	None	None	Green		Slightly Turbid		
S2	08/25/25	8:43	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	08/25/25	8:48	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S3	08/25/25	9:11	20	<20	<2	None	None	None	None	Green	73	Slightly Turbid		
DSB4	08/25/25	9:12	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S5	08/25/25	9:21	<20	<20	28	None	None	None	None	Green		Slightly Turbid		
DSB1	08/25/25	9:25	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	08/25/25	8:38	<20	<20	<10	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

San Juan Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
DSB 5	Doheny Beach – North Creek Outlet 1500' up-coast from SJCOO
S2	Doheny Beach- Midway between Jetty and San Juan Creek
SJC1	San Juan Creek Mouth – up-coast from SJCOO
S0	Doheny Beach at Outfall; surf line over SJCOO
S1	Doheny Beach Campground; 1,000' down-coast from SJCOO
DSB 4	Doheny State Beach; 1,900' down-coast from SJCOO
S3	South Day Use; 2000' down-coast from SJCOO
S5	Doheny Beach near overpass; 3000' down-coast from SJCOO
DSB 1	End of Doheny State Beach; 3500' down-coast from SJCOO

MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

Report For: August 2025

Report Frequency: Monthly

Report Due: October 1, 2025

Sample Source: Receiving water, nearshore and offshore

Sampling Frequency: Monthly

Exact Sample Points: As specified in permit

Type of Sample: Grab

Samples Collected By: Seaventures/SOCWA staff

Tide: High Tide 9:03

Pod of common dolphins near B-2

Samples Analyzed By: SOCWA Lab

Comments:

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	08/20/25	2	<2	<2	9:57	0	0
A-1	Mid depth	08/20/25	<10	<10	<10			
A-2	Surface	08/20/25	<2	<2	<2	9:54	0	0
A-2	Mid depth	08/20/25	<10	<10	<10			
A-3	Surface	08/20/25	<2	<2	<2	10:07	0	0
A-3	Mid depth	08/20/25	<10	<10	<10			
A-4	Surface	08/20/25	<2	<2	<2	10:11	0	0
A-4	Mid depth	08/20/25	<10	<10	<10			
A-5	Surface	08/20/25	<2	<2	<2	10:02	0	0
A-5	Mid depth	08/20/25	<10	<10	<10			
B-1	Surface	08/20/25	<2	<2	<2	9:46	0	0
B-1	Mid depth	08/20/25	<10	<10	<10			
B-2	Surface	08/20/25	<2	<2	<2	10:21	0	0
B-2	Mid depth	08/20/25	<10	<10	<10			
N1	Surface	08/20/25	<2	<2	<2	9:36	0	0
N2	Surface	08/20/25	<2	<2	<2	9:33	0	0
N3	Surface	08/20/25	<2	<2	<2	9:30	0	0
N4	Surface	08/20/25	<2	<2	<2	9:25	0	0
N5	Surface	08/20/25	6	2	<2	9:22	0	0
N6	Surface	08/20/25	<2	2	<2	9:18	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL

(3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV) of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated in a static manner

**Compliance Summary Report
San Juan Creek Ocean Outfall August 2025**

SJCOO Permit Order No. R9-2025-0001

Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
MNWD-3A	8/4/2025	cBOD, TSS, SS	Daily (5-day/week)	mg/L & mL/L	Weekly	n/a	\$3,000
MNWD-3A	8/5/2025	Oil & Grease	Average Monthly	mg/L	Monthly	28	\$3,000



SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - August 2025
Order No. R9-2025-0001 ~ NPDES Permit No. CA0107417

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
No spills during this monitoring period.							

Recycled Water Report

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD - RTP	1/7/2025	TDS	12 month	mg/L	1000	1212	
MNWD - RTP	1/7/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	1/7/2025	Manganese	Daily Maximum	mg/L	0.06	0.07	
SOCWA - CTP	1/7/2025	Manganese	12-Month	mg/L	0.05	0.09	
MNWD - 3A	10/2/2024	TDS	12 month	mg/L	1000	1213	Offline
MNWD - 3A	10/2/2024	Manganese	12 month	mg/L	0.05	0.10	Offline
SMWD-NWRP	1/15/2025	TDS	Daily Maximum	mg/L	1000	1200	
SOCWA - CTP	2/4/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	
SOCWA - CTP	2/4/2025	Manganese	12 month	mg/L	0.05	0.09	
MNWD - RTP	2/4/2025	Manganese	Daily Maximum	mg/L	0.06	0.15	
MNWD - RTP	2/4/2025	Manganese	12 month	mg/L	0.05	0.13	
MNWD - RTP	2/4/2025	TDS	12 month	mg/L	1000	1189	
MNWD - 3A	10/2/2024	TDS	12 month	mg/L	1000	1213	Offline
MNWD - 3A	10/2/2024	Manganese	12 month	mg/L	0.05	0.10	Offline
MNWD - RTP	3/5/2025	TDS	12 month	mg/L	1000	1126	
MNWD - RTP	3/5/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	3/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.10	
MNWD - 3A	3/5/2025	TDS	12 month	mg/L	1000	1174	
MNWD - 3A	3/5/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	3/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.10	
SOCWA - CTP	3/4/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	
SOCWA - CTP	3/4/2025	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-NWRP	3/21/2025	TDS	12 month	mg/L	1000	1024.00	
SMWD-NWRP	3/21/2025	TDS	Daily Maximum	mg/L	1000	1153	
MNWD - RTP	4/8/2025	TDS	12 month	mg/L	1000	1088	
MNWD - RTP	4/8/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	4/8/2025	Manganese	Daily Maximum	mg/L	0.06	0.20	
MNWD - 3A	4/3/2025	TDS	12 month	mg/L	1000	1149	

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD - 3A	4/3/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	4/3/2025	Manganese	Daily Maximum	mg/L	0.06	0.12	
SOCWA - CTP	4/1/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	4/1/2025	Daily Maximum	12-Month	mg/L	0.05	0.09	
SMWD-NWRP	4/17/2025	TDS	12 month	mg/L	1000	1075	
MNWD - RTP	5/6/2025	TDS	12 month	mg/L	1000	1023	
MNWD - RTP	5/6/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	5/6/2025	Manganese	Daily Maximum	mg/L	0.06	0.12	
MNWD - 3A	5/5/2025	TDS	12 month	mg/L	1000	1090	
MNWD - 3A	5/5/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	5/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
SOCWA - CTP	5/19/2025	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-NWRP	5/13/2025	TDS	12 month	mg/L	1000	1048	
MNWD - RTP	6/2/2025	TDS	12 month	mg/L	1000	1008	
MNWD - RTP	6/2/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	6/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.16	
MNWD - 3A	6/2/2025	TDS	12 month	mg/L	1000	1048	
MNWD - 3A	6/2/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	6/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.12	
SOCWA - CTP	6/3/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	6/3/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
SMWD-NWRP	6/25/2025	TDS	12 month	mg/L	1000	1032	
MNWD - RTP	7/1/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	7/1/2025	Manganese	Daily Maximum	mg/L	0.06	0.10	
MNWD - 3A	7/2/2025	TDS	12 month	mg/L	1000	1024	
MNWD - 3A	7/2/2025	Manganese	12 month	mg/L	0.05	0.09	
MNWD - 3A	7/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.07	
SOCWA - CTP	7/1/2025	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-NWRP	7/16/2025	TDS	12 month	mg/L	1000	1091	
TCWD	7/1/2025	MBAS	Daily Maximum	mg/L	0.06	4.30	

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD - RTP	8/5/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	8/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.13	
MNWD - 3A	8/5/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	8/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.13	
SOCWA - CTP	8/5/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	8/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
SMWD-NWRP	8/20/2025	TDS	12 month	mg/L	1000	1003	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Aug 31, 2025

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average
TDS	mg/L	1000	878		918	1,003	994	946	771
Chloride	mg/L	375	222		248	298	222	203	171
Sulfate	mg/L	400	293		233	218	392	199	215
Sodium	mg/L	None	61		180	220		200	162
Alkalinity	mg/L	None	-	-	-	-		238	181
Adjusted SAR	Ratio	None	5.48		5.48	6.10	3.83	4.42	4.28
Iron	mg/L	0.3	0.051		0.138	0.163	0.19	0.269	0.153
Manganese	mg/L	0.05	0.007		0.043	0.017	0.10	0.124	0.075
MBAS	mg/L	0.5	ND0.49		0.20	0.25	<0.03	<0.12	<0.10
Boron	mg/L	0.67	0.262		0.255	0.468	0.29	0.308	0.27
Fluoride	mg/L	None	0.80		0.54	0.62	0.81	0.76	0.55
Total Organic Carbon	mg/L	None	6.2		13.0	12.7	9.9	11.7	10.0

*** The CTP 12-month permit limits are listed below:

TDS 1200 mg/L
 Chloride 400 mg/L
 Sulfate 500 mg/L

SOCWA Service Area
Recycled Water Production (ac-ft)
2025

Agency	Facility or Region	Jan '25	Feb '25	Mar '25	Apr '25	May '25	Jun '25	Jul '25	Aug '25	Sep '25	Oct '25	Nov '25	Dec '25	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					0.00
CSJC 2	Chiquita/SMWD	12.90	1.91	4.31	19.45	21.06	24.54	30.49	30.26					144.92
CSJC 3	Non-Domestic Wel	30.43	14.44	18.76	33.64	50.52	59.51	66.21	66.45					339.96
ETWD	Region 8	76.42	28.25	39.53	113.74	154.52	200.91	258.40	242.44					1,114.21
IRWD														
4	IRWD - 8	135.30	38.33	37.59	135.62	178.24	203.03	280.41	221.64					1,230.16
4	IRWD - 9	53.53	18.46	20.85	64.04	70.76	80.72	114.75	113.14					536.25
SCWD	SOCWA CTP	54.89	19.84	35.36	62.63	70.54	68.33	101.59	137.63					627.72
MNWD	JRP	449.87	260.06	73.93	223.63	378.52	439.96	531.16	583.83					2,940.95
	3-A Plant	0.00	0.00	145.44	144.28	126.07	117.61	23.67	152.77					709.84
5	CTP	5.27	-1.23	9.09	22.13	19.90	4.28	13.67	14.69					87.80
SMWD	Oso Creek													
	Chiquita	362.93	426.67	506.31	471.75	495.66	472.46	515.08	511.77					3,762.61
	Nichols	1.73	1.49	1.74	1.63	1.91	1.97	2.18	2.49					15.14
TCWD	RRWRP	37.50	35.59	41.56	39.15	39.67	38.45	24.77	37.70					294.38
TOTALS		1,220.77	843.82	934.45	1,331.69	1,607.37	1,711.77	1,962.39	2,114.80					11,803.96

- 1 Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.
 - 2 Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.
 - 3 Denotes nondomestic groundwater produced from wells used for landscape irrigation.
 - 4 IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments
 - 5 Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.
- Note: All of ETWD reclaimed water produced and used in Region 8.
NR = No Report

Agenda Item

5.F.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors
FROM: Jim Burror, Deputy General Manager/Chief Engineer
SUBJECT: September 2025 Operations Report

Summary/Discussion

The following selected operational reports are provided monthly to the Board of Directors. The operational reports included are as follows:

1) Monthly Operational Report

This is a six (6) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculations used by SOCWA to bill the agencies. Other items include important statistics for regulatory compliance, visits by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2) SOCWA Ocean Outfall Discharges by Agency

This data shows how much water is being discharged into the ocean each month and for the last 12 months. This data is presented for the agencies planning reuse projects to better understand the potential to expand water reuse in their service area.

3) Quarterly Report on Key Operational Expenses

A seven (7) page overview of monthly expenses for key operational expenses with estimated projections for the Fiscal Year. The key parameters being tracked are Electricity, Odor Control, Polymer, Biosolids, Maintenance expenses (not including SOCWA staff labor), small capital purchases, and safety.

4) Beach Ocean Monitoring Report

5) Recycled Water Report

6) Pretreatment Report

Fiscal Impact

No change.

Recommended Action:

Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report September 2025

Excursion, Complaint, and Violation Events

Events	CTP	JBL	Totals
Odor	0	0	0
Noise	0	0	0
Spills	0	0	0
Violations	0	0	0
Others	0	0	0

Plant Wastewater Characteristics

Key Parameters	CTP	JBL TP1	JBL TP2	Total
Influent (mgd) (1)	2.40	7.28	0.97	10.65
Effluent (mgd)	2.27	7.28	2.68	12.22
Peak Flow (mgd)	6.85	11.02	5.51	23.38
Influent BOD (mg/l)	316	317	357	
Influent TSS (mg/l)	422	459	644	
Effluent BOD (mg/l)	4.3	5.4	4.5	
Effluent TSS (mg/l)	8.6	6.0	5.3	
Effluent Turbidity (NTU)	3.7	3.6	3.0	

(1) CTP Influent value does not include AWT backwash in this table.

Recycled Water (AWT) Operations

Key Parameters	CTP	JBL	Totals
Average Flow (mgd)	0.89		0.89
Days of Operation (days)	30		
Total Flow (million gallons)	26.74		26.74
Plant Irrigation (million gallons)	0.10	0.28	0.38
AWT Time Online (%)	99.2		

Wastewater Unit Definitions

mgd = million gallons per day

mg/l = milligram per liter also known as parts per million

NTU = Nephelometric Turbidity Units

SOCWA Operational Report September 2025 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	JBL	Totals
Nursery Products (tons)		885.2	885.2
Prima Deshecha (tons)		0.0	0.0
Other: _____ (tons)		0.0	0.0
Total Processed (tons)		885.2	885.2

Summary of Maintenance Activities

Task Type	CTP	JBL	Totals
Preventative Maintenance	189	237	426
Corrective Maintenance	13	36	49

Site Visitors

Visitor Types	CTP	JBL	Totals
Regulatory	1	2	3
Member Agency	0	0	0
Residents	0	0	0
Others	0	30	30
Tours #/Visitors	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	NA	6.0

Chemical and Energy Utilization

Chemical/Utility	CTP	JBL	Totals
Ferric Chloride (tons)	NA	18.0	18
Utility Power Purchase (kWh)	NA	197,877	197,877
Cogen Power (kWh)		465,993	465,993
Natural Gas (Dth)	NA	NA	0
Digester Gas to Engine (scfm)		5,404,750	5,404,750
Digester Gas to Boiler (scfm)		0	0
Digester Gas to Flares (scfm)		186,371	186,371

NA = Not Available at the time this report was generated.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report September 2025 (cont'd)

Agency Flows to SOCWA Opearted Treatment Plants (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.359	54.30%			1.359
EBSB	0.048	1.91%			0.048
SCWD	1.096	43.79%	2.770	33.59%	3.867
SMWD			5.476	66.41%	5.476
Total	2.503	100.00%	8.246	100.00%	10.750

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB			1.36	14.46%	1.36	
EBSB			0.05	0.51%	0.05	
SCWD	3.05	27.01%	0.86	9.14%	3.91	Includes MNWD
ETWD			7.13	75.89%	7.13	Includes IRWD and MNWD
SMWD	6.01	53.14%			6.01	Includes CSJC
CSC	2.24	19.85%			2.24	
Total	11.30	100.00%	9.40	100.00%	20.70	

SOCWA Operational Report September 2025 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
SCWD	6.75	51.92%	2.998	39.11%	2.770	33.59%	2.82	33.89%
SMWD	6.25	48.08%	4.667	60.89%	5.476	66.41%	5.49	66.11%
Total	13.00	100.00%	7.665	100.00%	8.246	100.00%	8.31	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d) (2)	36 Month Rol. Avg. (%)
SCWD	16,055	41.62%	10,876	35.92%	9,955	31.52%	8,081	34.23%
SMWD	22,518	58.38%	19,402	64.08%	21,632	68.48%	15,526	65.77%
Total	38,573	100.00%	30,278	100.00%	31,586	100.00%	23,607	100.00%

Project Committee No. 5 - San Juan Creek Ocean Outfall (SJCOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSC	16.62%	13.296	16.62%	2.243	19.85%	2.302	19.74%
SCWD(3)	18.83%	15.064	18.83%	3.052	27.01%	3.359	28.80%
SMWD(4)	64.55%	51.640	64.55%	6.006	53.14%	6.002	51.46%
Total	100.00%	80.000	100.00%	11.302	100.00%	11.663	100.00%

(1) Influent billing meter summary:

- a. CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
- b. MNWD flows with SCWD flows are assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- d. The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

(2) The 36-month average is the average of the past 36 months. The Use Audit is based on the last 3 Fiscal Years versus the average of the past 36 months.

(3) All monthly flow data for MNWD is reported as part of SCWD's flow to the ocean outfall.

(4) All monthly flow data from CSJC is reported as part of SMWD's flow to the ocean outfall.

SOCWA Operational Report September 2025 (cont'd)

FY Flow/Solids Summary-Billing (cont'd)

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	3.64	54.33%	1.430	53.56%	1.359	54.30%	1.407	53.87%
EBSD	0.20	2.99%	0.060	2.25%	0.048	1.91%	0.053	2.03%
SCWD	2.86	42.69%	1.180	44.19%	1.096	43.79%	1.152	44.10%
Total	6.70	100.00%	2.670	100.00%	2.503	100.00%	2.612	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.00%	5.500	11.00%	1.359	14.46%	1.407	18.60%
EBSD	0.78%	0.390	0.78%	0.048	0.51%	0.053	0.70%
ETWD	16.30%	8.151	16.30%	1.493	15.88%	1.037	13.70%
MNWD(1)	43.85%	21.924	43.85%	1.931	20.55%	1.455	19.23%
IRWD(1)	15.76%	7.880	15.76%	3.709	39.46%	2.844	37.60%
SCWD	12.31%	6.155	12.31%	0.859	9.14%	0.768	10.16%
Total	100.00%	50.000	100.00%	9.399	100.00%	7.563	100.00%

(1) Permitted flow to the ACOO from IRWD and MNWD who are not member agencies of SOCWA.

SOCWA Operational Report September 2025 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Troubleshoot the failing Flare ignitor system at JBL.
Repaired the leaking Centrifuge #2 at JBL.
Replaced the failed Vent Fan #1 (Plant #2 Blower Room) at JBL.
Repaired the leaking Vulcan Wash Press at JBL.
Disconnected the Bar Screen #3 for upcoming repairs at JBL.
Troubleshoot the failing Grit Pump #1 at JBL.
Troubleshoot the failing Fresh Air Fan #2 at JBL.
Repaired the leaking Scrubber Stage #2 Caustic Pump at JBL.
Troubleshoot the failing TWAS Borger Lobe Pump #2 at JBL.
Troubleshoot the failing Digester Mix Pump #2 at JBL.
Troubleshoot the failing Boiler Room Vent Fan #1 at JBL.
Troubleshoot the failing Raw Sewage Pump #7 at JBL.
Troubleshoot the failing Engineering Support at JBL.
Troubleshoot the breaker tripping for Digester Nos. 1 and 2 equipment.
Troubleshoot the failing Grit Washer #1 at JBL.
Replaced Muffin Monster Grinder (Cent. Feed Pump Area) at JBL.

CTP - PC15

Troubleshoot the failing WAS Pump #2 "W" at CTP.
Troubleshoot the failing Export Pump #4 at CTP.
Replaced the failed CL2 Analyzer at CTP.
Repaired the broken process water line near Aeration Tank #4 at CTP.
Replaced the failed East Nitrate Probe at CTP.
Replaced the failed DAF #1 Compressor Dryer at CTP.
Troubleshoot the failing Grit Valve 1A EN at CTP.
Troubleshoot the CTP SCADA SYSTEM callout issues at CTP.
Replaced the failing UPS for the AWT Control Building at CTP.
Troubleshoot the Building #30 Fresh Air Fan at CTP.

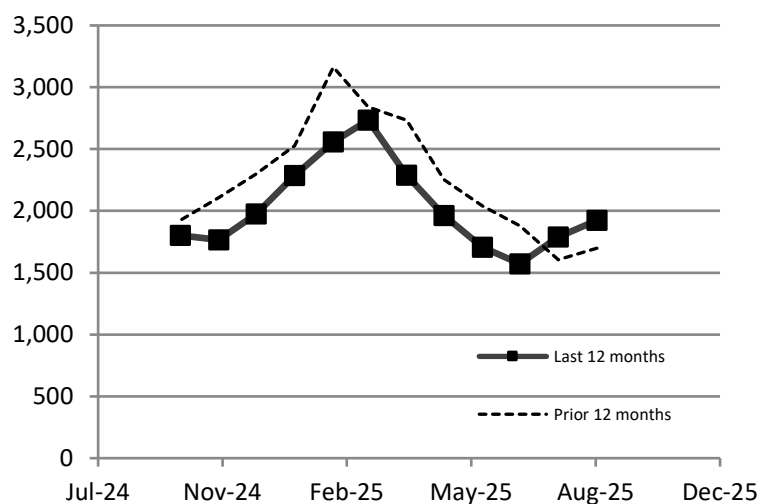
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report September 2025 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.36	14.46%	1.36
EBSD			0.05	0.51%	0.05
SCWD	3.05	27.01%	0.86	9.14%	3.91
ETWD			7.13	75.89%	7.13
SMWD	6.01	53.14%			6.01
CSC	2.24	19.85%			2.24
Total	11.30	100.00%	9.40	100.00%	20.70
or Acre-Feet per year equivalent					23,184

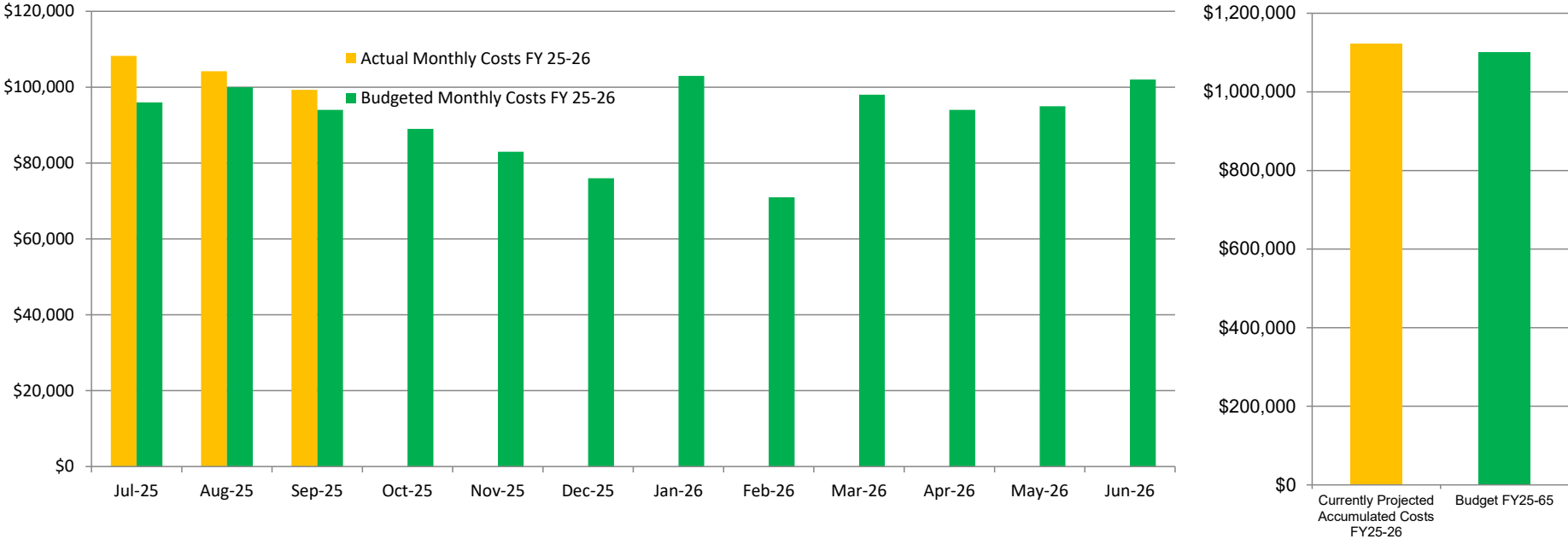
12-Month Running Total Discharge to Ocean Outfalls (AF)

Sep-25	1,924
Aug-25	1,790
Jul-25	1,573
Jun-25	1,705
May-25	1,962
Apr-25	2,288
Mar-25	2,734
Feb-25	2,558
Jan-25	2,286
Dec-24	1,976
Nov-24	1,766
Oct-24	1,802
Total	24,362



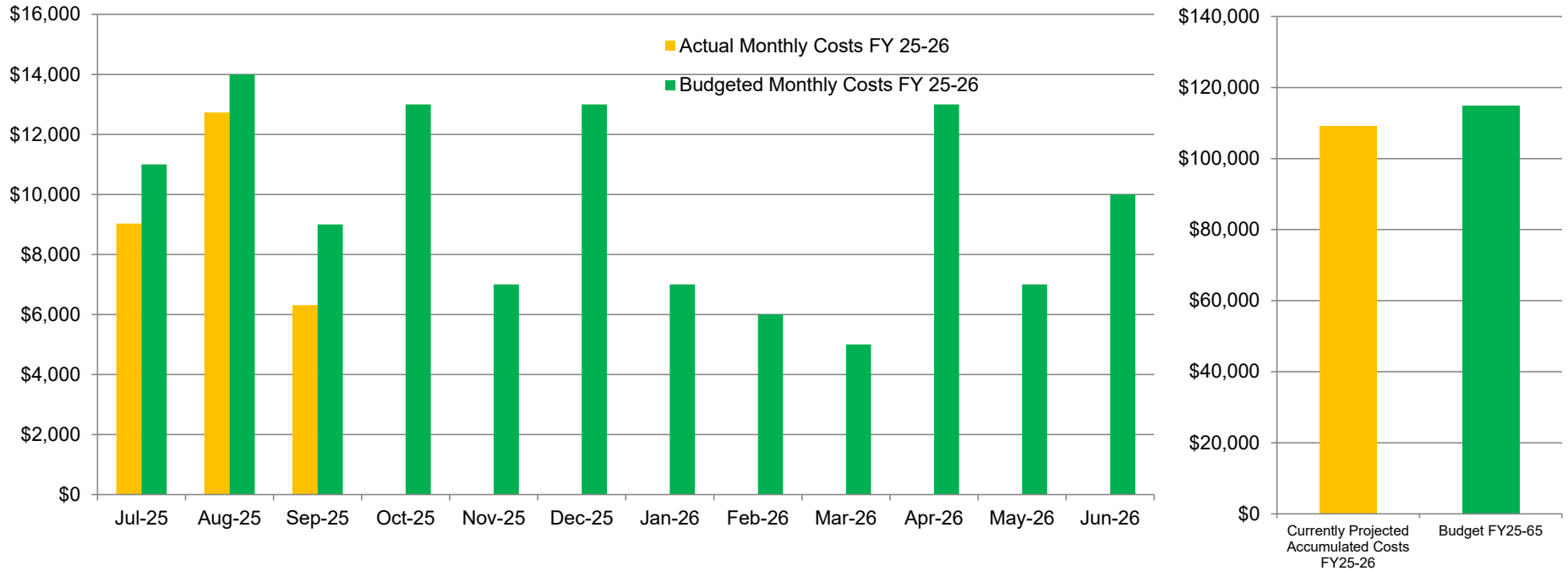
Quarterly Report on Key Operational Expenses

Electricity (5002) Costs



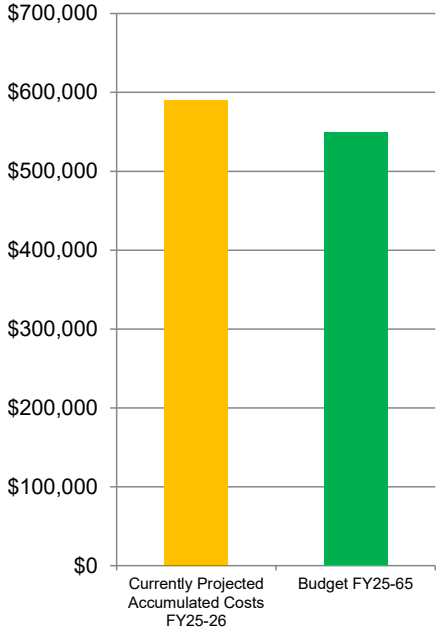
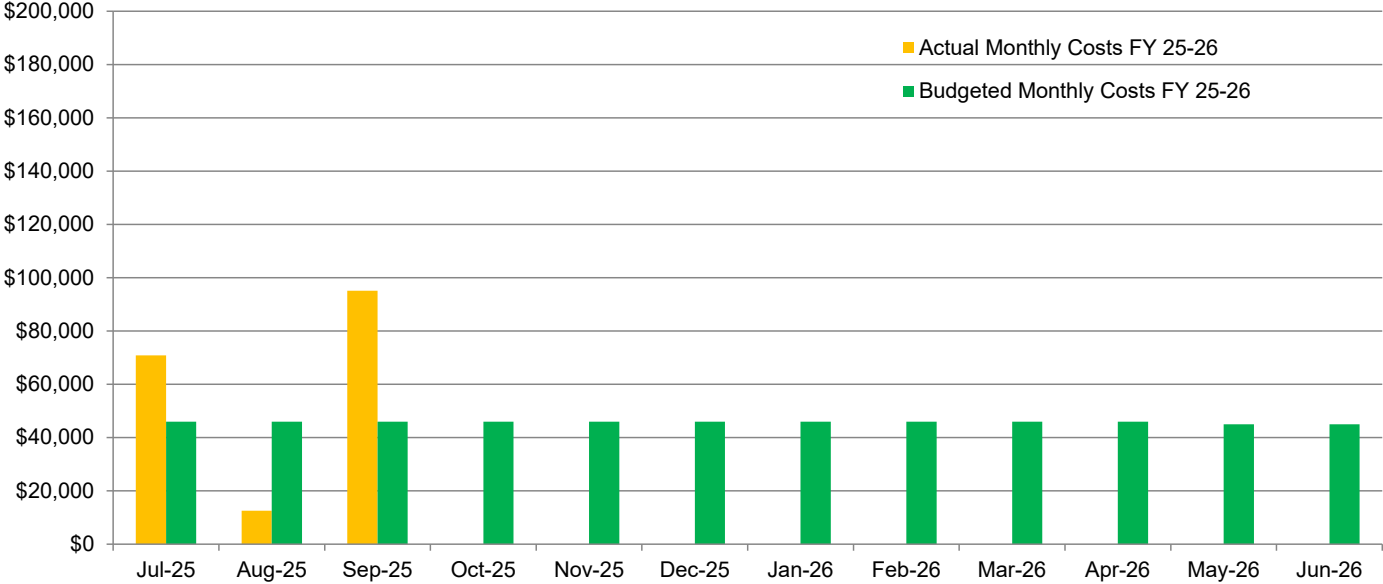
	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Currently Projected Accumulated Costs FY25-26	\$1,122,822
Actual Monthly Costs FY 25-26	\$108,266	\$104,206	\$99,310										Budget FY25-26	\$1,101,040
Budgeted Monthly Costs FY 25-26	\$96,000	\$100,000	\$94,000	\$89,000	\$83,000	\$76,000	\$103,000	\$71,000	\$98,000	\$94,000	\$95,000	\$102,040	Currently Projected Under(+)/Over (-) Budget	-\$21,782

Odor Control (5009) Costs



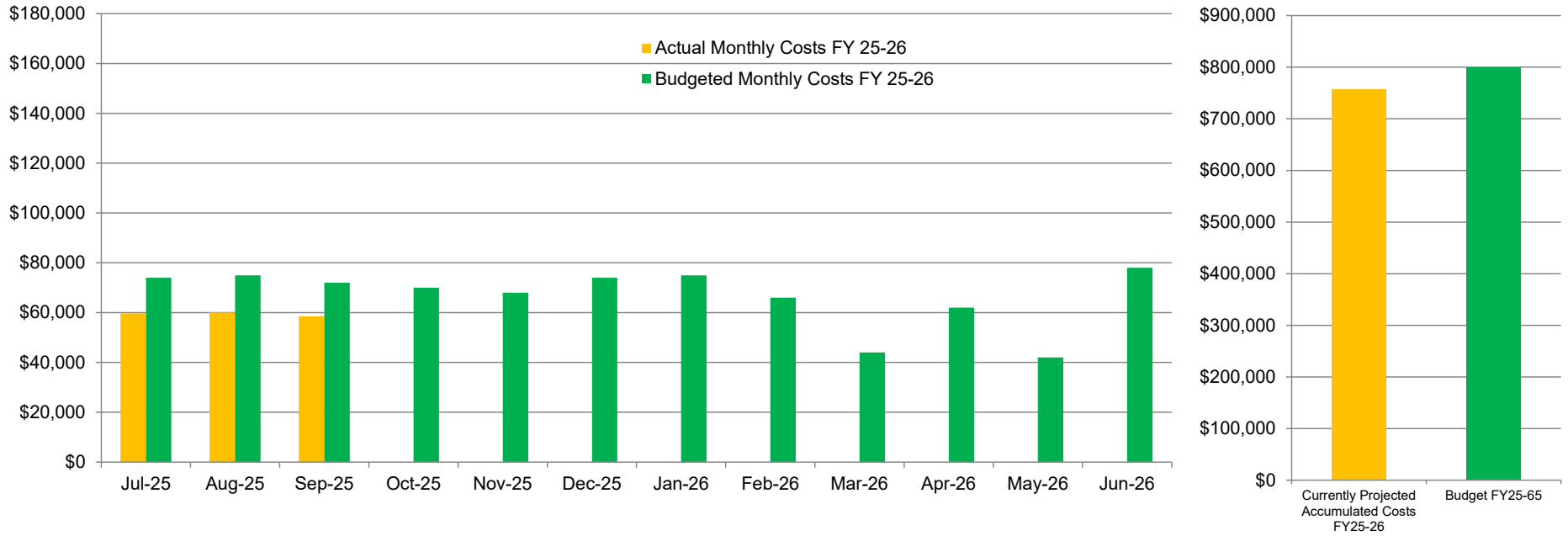
	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Currently Projected Accumulated Costs FY25-26	
Actual Monthly Costs FY 25-26	\$9,030	\$12,727	\$6,315										\$109,072	
Budgeted Monthly Costs FY 25-26	\$11,000	\$14,000	\$9,000	\$13,000	\$7,000	\$13,000	\$7,000	\$6,000	\$5,000	\$13,000	\$7,000	\$10,000	Budget FY25-26	\$115,000
													Currently Projected Under(+)/Over (-) Budget	\$5,928

Polymer (5007) Costs



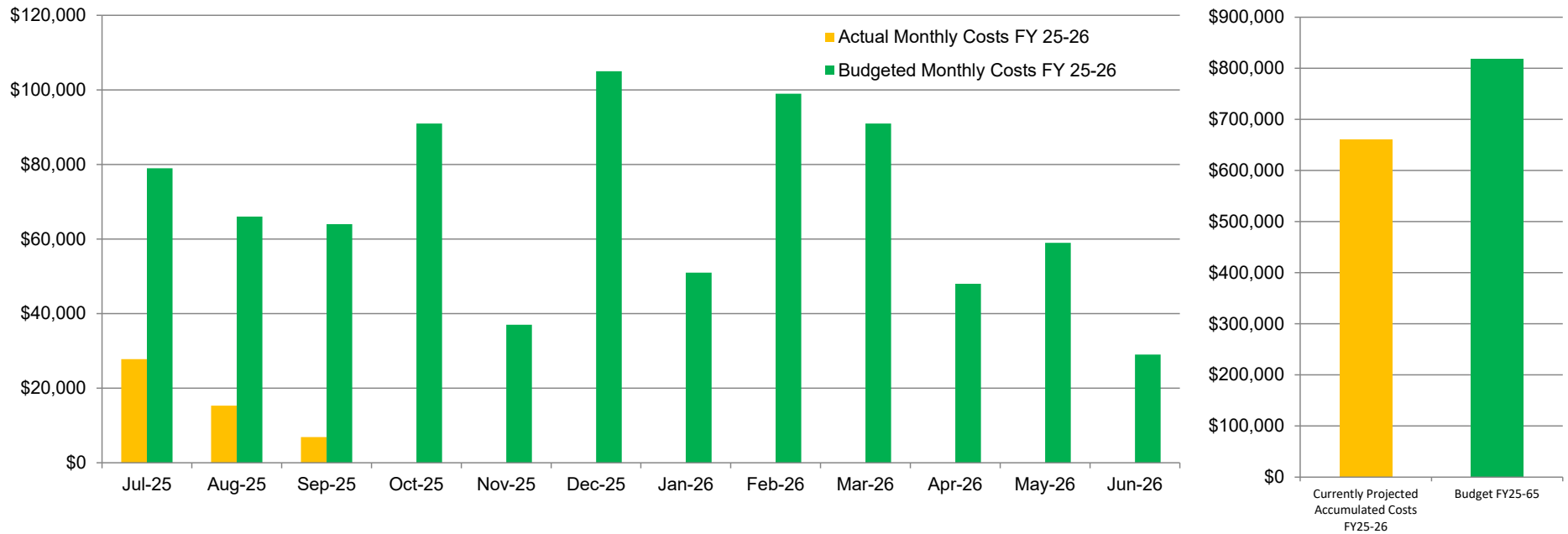
	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Currently Projected Accumulated Costs FY25-26	\$589,582
Actual Monthly Costs FY 25-26	\$70,887	\$12,569	\$95,126										Budget FY25-65	\$550,000
Budgeted Monthly Costs FY 25-26	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$46,000	\$45,000	\$45,000	Currently Projected Under(+)/Over (-) Budget	-\$39,582

Biosolids (5049) Costs



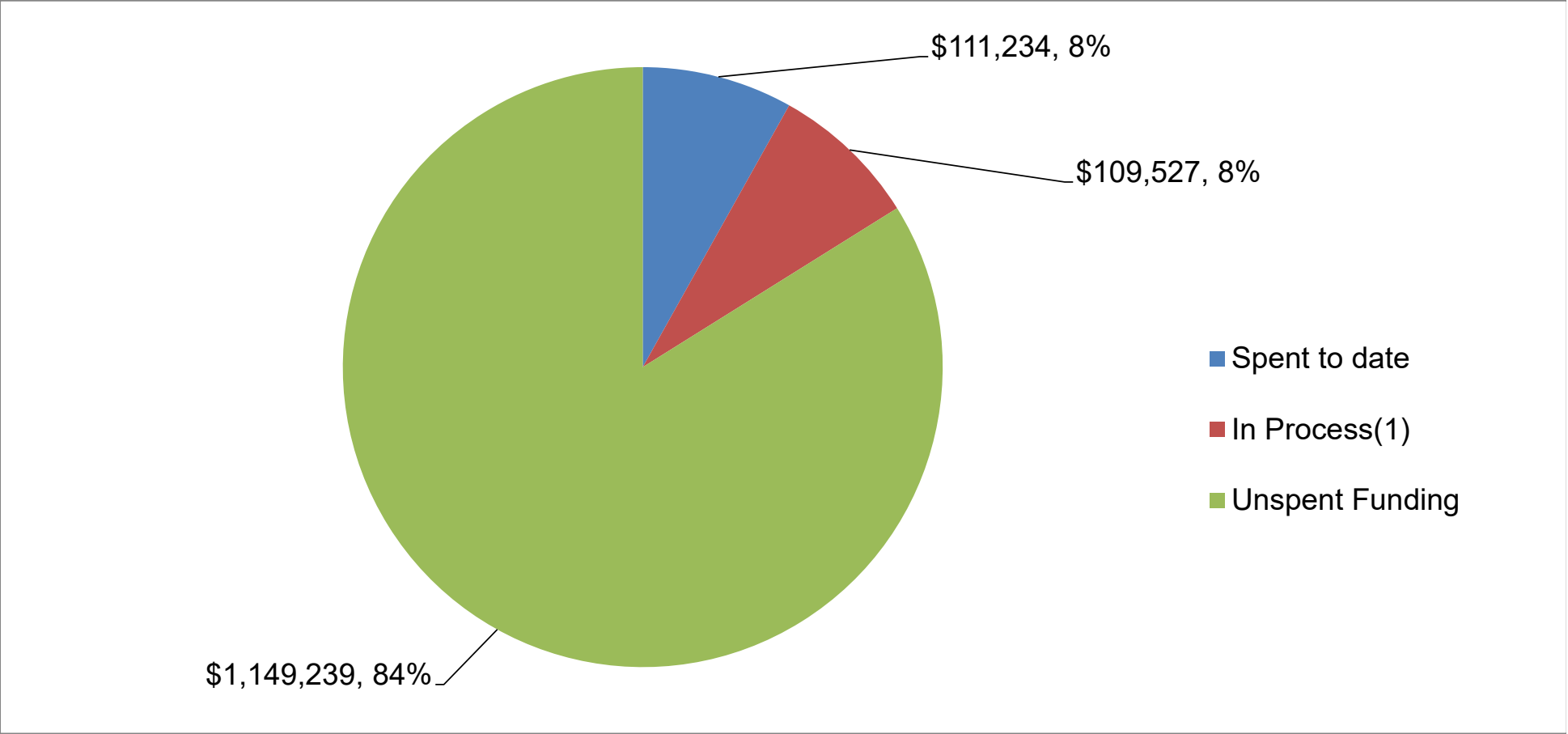
	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Currently Projected Accumulated Costs FY25-26	\$757,266
Actual Monthly Costs FY 25-26	\$59,675	\$60,074	\$58,517										Budget FY25-26	\$800,000
Budgeted Monthly Costs FY 25-26	\$74,000	\$75,000	\$72,000	\$70,000	\$68,000	\$74,000	\$75,000	\$66,000	\$44,000	\$62,000	\$42,000	\$78,000	Currently Projected Under(+)/Over (-) Budget	\$42,734

Maintenance Repair (5056 to 5060) Costs



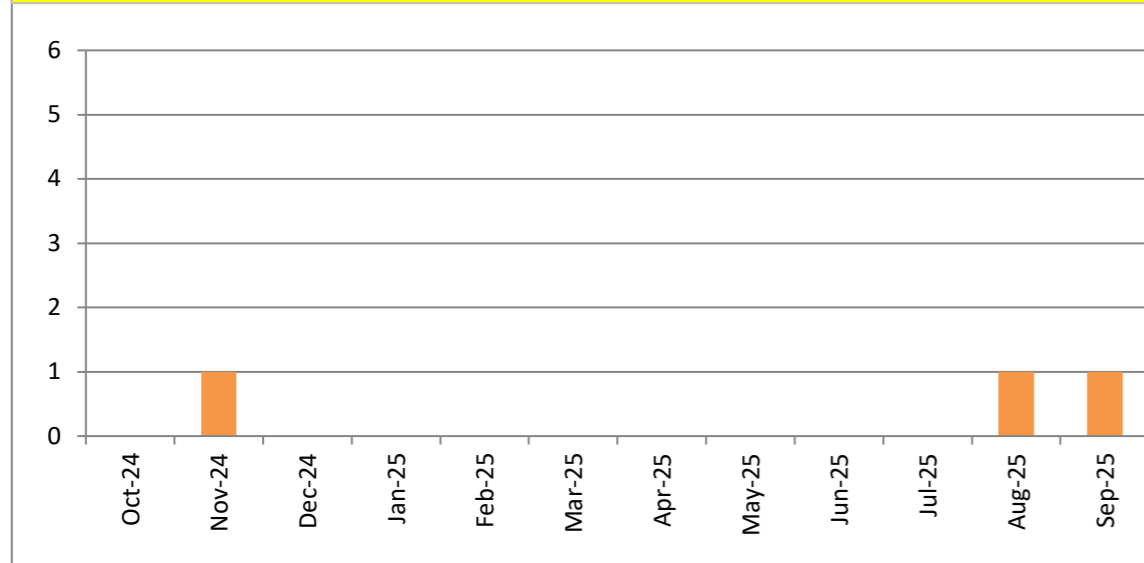
	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Currently Projected Accumulated Costs FY25-26	\$660,018
Actual Monthly Costs FY 25-26	\$27,808	\$15,333	\$6,878										Budget FY25-65	\$819,000
Budgeted Monthly Costs FY 25-26	\$79,000	\$66,000	\$64,000	\$91,000	\$37,000	\$105,000	\$51,000	\$99,000	\$91,000	\$48,000	\$59,000	\$29,000	Currently Projected Under(+)/Over (-) Budget	\$158,982

FY25-26 Small Internal Capital Costs



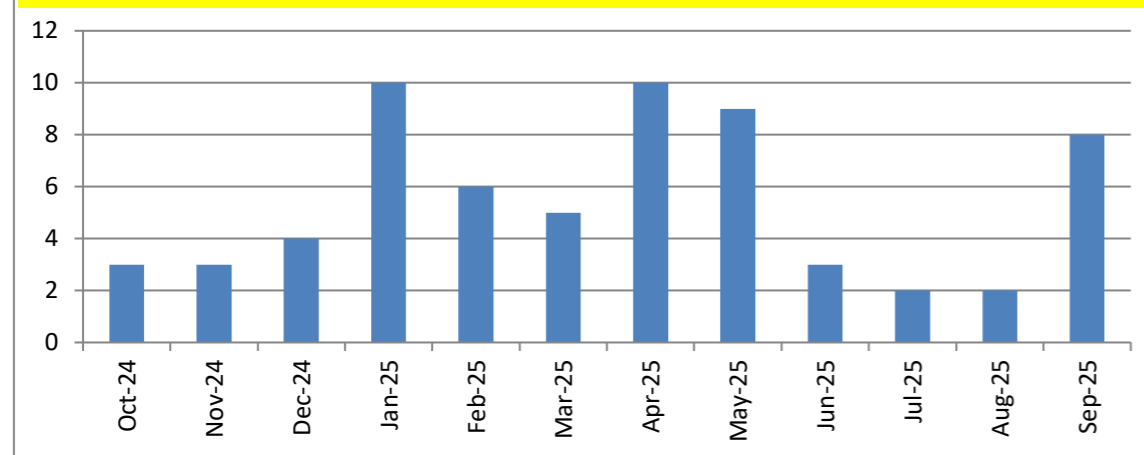
SOCWA SAFETY UPDATE - SEPTEMBER 2025

OSHA RECORDABLE INJURIES



	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
OSHA RECORDABLE INJURIES	0	1	0	0	0	0	0	0	0	0	1	1

NEAR MISS REPORTS



	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
NEAR MISS REPORTS	3	3	4	10	6	5	10	9	3	2	2	8

Updated: 10/2/2025

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
Sept '25 - CPR/First Aid/AED Training/Certification (small group format with SOCWA CPR Certified Instructor)	100%
Aug '25 - Annual Confined Space Entry Rescue Refresher Training	95%
July '25 - Workplace Violence Training / Additional PA System Use Training	95%
June '25 - Annual HAZWOPER Refresher Training	95%
May '25 - Emergency Tabletop Training Exercise, Fire Extinguisher Use Training, Forklift Train the Trainer	95%
Apr '25 - Annual Heat Illness Training (Outdoor and Indoor Heat)	100%
Feb '25 - Annual Bloodborne Pathogens Training	95%
Dec '24 - Annual Distracted and Defensive Driving Training with CHP	80%
Nov '24 - Annual Audiometric Hearing Testing / Indoor Heat Illness Training	95%
Oct '24 -Workplace Violence/De-Escalation, Annual Confined Space Entry Rescue, CPR-FA-AED Training	90%
September '24 (and July '24) - Annual Quantitative Respirator Fit Testing	100%
Sept '23 - Annual Respirator Fit Testing and INITIAL Confined Space Entry Rescue Refresher Training	100%
July '23 - Forklift Refresher Training	100%
May '23 - Emergency Tabletop Training Exercises and Fire Extinguisher Use Training	90% (of all SOCWA Employees)
Mar '23 - Emergency PA System Use Training / Additional ICS Training	90%
Nov '22 - Hearing Testing/Confined Space Entry Rescue Training/Supervisor Safety Training	95%
June '22 - Active Shooter/Workplace Violence Training and SPCCP Spill Training	95% (of all SOCWA Employees)
Oct '21 - Annual Hearing Testing, Wildfire Safety/Smoke Training, Respirator Fit Testing	100%
Sept '21 - Annual BBP Training and Lifting Safety Training (with CSRMA, remotely)	90%
Aug '21 - Confined Space Rescue Refresher and Electrical Safety in the Workplace	100%
Oct '19 - Fall Protection Training, Additional ICS Training, and Spill Training	90%
Sept '19 - Wildland Fire Training and CPR/First Aid/AED Training	90%
Aug '19 - Initial Confined Space Entry Rescue and Additional Active Shooter Training	95%
September '18 - Silica Safety Training / October '18 - Crane Safety	100%
Aug '18 - Fire Awareness Safety for Field Personnel and Lockout/Tagout Training	100% (all SOCWA employees)
Jan '18 - Respiratory PPE Training/Fit Testing and Additional ICS Training	90%
Sept '17 - Active Shooter/Workplace Violence Training	100%
May '17 - Safety Culture Training & July/Aug '17 - Spill Response Training (hands on)	100%
Mar '17 - Fall Protection Training and CPR/First Aid/AED Training	100%
Jan '17 - Lockout/Tagout Training and Confined Space Rescue Practice/Training	100%
Oct '16 - Confined Space Awareness/Entry Rescue Training and Forklift Training	100%
May '16 - Entry Level NIMS/ICS Training at SOCWA and Heat Illness Training	100%
Feb '16 - Biomechanics/Ergonomics Training (CSRMA) and Bloodborne Pathogens Training	100%
Oct '15 and Jan '16 - Initial Confined Space Entry Rescue Training (3-day trainings)	100%
Sept '15 - Pre-Storm Workshop, Arc Flash Training, and Forklift Training	100%
Aug '15 - Fire Prevention for Water Utility Field Staff & Disaster Cost Recovery Training	100%
July '15 - Additional NIMS/ICS Training, Attend Water and Power Resiliency Workshop	Ongoing
June '15 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%

Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

September 2025

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	FLOW MGD	inches
09/01/25	3.465	40.8	8.3	0.5	1.430	7.8		0.1	2.040	4.0	3.0	<0.1	2.721	1.6	<2.0	<0.1	0.422	0.458	0.119	10.655	0.00
09/02/25	3.355	34.0	8.3	0.2	3.103	8.2	4.1	0.1	0.78	6.3	4.0	0.2	2.414	8.9	5.0	<0.1	0.420	0.458	0.141	10.671	0.00
09/03/25	3.415	31.2	8.8	0.7	1.791	10.0	5.4	0.1	1.360	4.0	3.0	<0.1	1.810	6.9	5.0	<0.1	0.416	0.258	0.125	9.175	0.00
09/04/25	3.356	26.4	9.6	0.4	0.687	9.7	6.0	<0.1	0.270	11.8	6.0	0.1	1.785	2.6	2.0	0.1	0.309	0.167	0.153	6.727	0.00
09/05/25	2.298	10.0	5.0	<0.1	0.999	9.5	5.1	0.1	0.900	5.4	3.0	<0.1	2.149	8.9	4.0	<0.1	0.000	0.000	0.106	6.452	0.00
09/06/25	3.267	9.0	2.4	<0.1	0.690	9.9	5.3	0.1	1.670	5.0	3.0		1.774	6.7	3.0		0.000	0.000	0.173	7.574	0.00
09/07/25	3.267	11.2	2.7	<0.1	1.050	6.9	3.5	<0.1	0.970	4.0	3.0	<0.1	2.123	9.3	4.0	<0.1	0.000	0.000	0.111	7.521	0.00
09/08/25	3.284	7.8	<1.9	<0.1	2.475	5.3		0.1	1.700	4.1	3.0	<0.1	2.361	10.5	4.0	<0.1	0.000	0.000	0.133	9.953	0.00
09/09/25	3.377	7.6	<2.1	<0.1	1.789	9.8	3.6	0.1	0.960	10.0	4.0	0.4	2.043	8.3	4.0	0.1	0.000	0.000	0.132	8.301	0.00
09/10/25	3.399	10.4	<2.1	<0.1	0.800	8.2	3.8	0.1	3.070	10.8	4.0	0.1	1.407	7.1	5.0	<0.1	0.000	0.000	0.131	8.807	0.00
09/11/25	3.419	7.6	<2.0	<0.1	0.780	11.2	4.3	<0.1	1.300	3.0	2.0	<0.1	1.894	8.8		<0.1	0.305	0.000	0.138	7.836	0.00
09/12/25	3.404	8.0	<2.0	<0.1	1.041	10.2	4.2	0.1	1.180	3.8	3.0	0.1	2.801	9.3	6.0	<0.1	0.425	0.455	0.136	9.442	0.00
09/13/25	3.397	7.7		<0.1	1.318	9.6	5.0	0.1	1.060	5.3	3.0		1.924	6.2	4.0		0.426	0.479	0.141	8.745	0.00
09/14/25	3.415	10.9	<1.9	<0.1	1.278	6.4	4.0	<0.1	2.400	3.1	3.0	<0.1	2.303	10.1	6.0	<0.1	0.426	0.477	0.118	10.417	0.00
09/15/25	3.408	7.6	<1.9	<0.1	1.677	4.9		<0.1	3.180	5.1	3.0	<0.1	2.298	8.9	5.0	<0.1	0.410	0.465	0.130	11.568	0.00
09/16/25	3.403	6.0	6.3	<0.1	1.388	8.6	3.7	<0.1	1.890	4.7	2.0	<0.1	1.497	10.4	4.0	<0.1	0.401	0.000	0.141	8.720	0.00
09/17/25	3.445	7.6	6.9	<0.1	1.247	5.6	2.4	0.1	1.300	2.9	2.0	<0.1	1.644	9.2	4.0	0.1	0.422	0.000	0.128	8.186	0.00
09/18/25	3.409	8.0	7.2	<0.1	1.462	7.4	3.2	0.1	2.130	6.0	3.0	0.1	2.031	9.2	4.0	0.1	0.421	0.000	0.125	9.578	0.15
09/19/25	3.403	7.0	7.7	<0.1	1.595	9.2	3.5	0.1	1.650	10.4	3.0	0.1	2.246	6.1	5.0	<0.1	0.000	0.000	0.131	9.025	0.00
09/20/25	3.400	9.7		<0.1	1.726	6.0	3.0	0.1	2.350	3.1	2.0		2.329	11.2	5.0		0.000	0.000	0.132	9.937	0.00
09/21/25	3.412	9.0	47.5	<0.1	1.784	6.0	3.3	<0.1	2.180	3.2	2.0	<0.1	2.204	11.9	5.0	<0.1	0.000	0.000	0.145	9.725	0.00
09/22/25	3.433	7.6	7.9	<0.1	1.940	3.6		<0.1	3.780	3.4	2.0	<0.1	2.356	11.4	6.0	<0.1	0.000	0.000	0.137	11.646	0.00
09/23/25	3.512	8.0	<2.1	<0.1	1.801	7.2	2.7	0.1	2.600	6.0	3.0	0.1	2.478	7.0	3.0	<0.1	0.000	0.464	0.130	10.985	0.00
09/24/25	3.558	8.4	<2.1	<0.1	0.983	2.6	2.0	0.1	2.040	4.4	5.0	0.1	1.733	14.5	5.0	0.1	0.000	0.465	0.105	8.884	0.00
09/25/25	3.529	9.6	<2.4	<0.1	1.023	6.7	3.3	0.1	2.040	4.1	3.0	<0.1	1.937	6.0	4.0	<0.1	0.000	0.462	0.121	9.112	0.00
09/26/25	3.502	10.2	2.7	<0.1	0.910	7.3	4.3	0.1	1.950	3.9	5.0	0.1	2.600	11.6	5.0	0.1	0.000	0.461	0.134	9.557	0.00
09/27/25	3.472	10.4		<0.1	2.174	7.3	4.0	0.1	1.810	4.6	4.0		2.249	13.6	3.0		0.000	0.000	0.164	9.869	0.00
09/28/25	3.476	10.6	2.7	<0.1	2.663	5.3	3.3	<0.1	3.350	3.7	4.0	<0.1	2.529	10.3	5.0	<0.1	0.000	0.000	0.112	12.130	0.00
09/29/25	3.448	13.6	3.5	<0.1	1.621	4.6		0.1	3.360	3.7	4.0	<0.1	2.469	1.5	3.0	<0.1	0.000	0.000	0.133	11.031	0.00
09/30/25	3.468	37.2	3.6	<0.1	1.557	7.0	2.6	0.1	2.670	5.9	6.0	<0.1	1.901	8.6	6.0	<0.1	0.000	0.000	0.138	9.734	0.00
AVG	3.380	13.1	6.0	<0.1	1.493	7.4	3.8	<0.1	1.931	5.2	3.3	<0.1	2.134	8.6	4.3	<0.1	0.160	0.169	0.132	9.399	
TOTAL	101.40				44.78				57.94				64.01				4.80	5.07	3.963	281.96	0.15

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1 2025
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 8:25

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	09/03/25	10:47	<10	<10	<2	None	None	None	None	Green	69	Slightly Turbid	Flowing	
S4	09/03/25	10:28	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S5	09/03/25	10:20	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	09/03/25	10:00	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	09/03/25	9:57	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S7	09/03/25	9:50	10	20	4	None	None	None	None	Green		Slightly Turbid		
S8	09/03/25	9:20	210	190	350	None	None	None	None	Green		Slightly Turbid		
S9	09/03/25	9:17	100	>600	270	None	None	None	None	Green		Slightly Turbid		
ACM1	09/03/25	9:09	200	400	290	None	None	None	None	Green		Slightly Turbid		
S10	09/03/25	8:44	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S11	09/03/25	8:39	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S12	09/03/25	8:31	30	<10	30	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 11:16
 Weather: Clear
 COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S3	09/10/25	10:19	<10	<10	2	None	None	None	None	Blue	67	Clear		
S4	09/10/25	10:44	10	<10	2	None	None	None	None	Blue		Clear		
S5	09/10/25	11:16	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	09/10/25	11:53	<10	<10	2	None	None	None	None	Blue		Clear		
WEST	09/10/25	11:47	<10	<10	8	None	None	None	None	Blue		Clear		
S7	09/10/25	11:41	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	09/10/25	11:12	20	<10	8	None	None	None	None	Green		Clear		
S9	09/10/25	11:14	40	<10	8	None	None	None	None	Green		Clear		
ACM1	09/10/25	11:16	<10	<10	<2	None	None	None	None	Green		Clear		
S10	09/10/25	10:55	<10	<10	4	None	None	None	None	Green		Slightly Turbid		
S11	09/10/25	12:05	<10	<10	28	None	None	None	None	Blue		Clear		
S12	09/10/25	12:13	<10	10	2	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100m

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 7:31
 Weather: Clear

COMMENTS: Resident reported that the berm opened naturally at 6:30 am (near sampling hours).

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	09/16/25	7:01	60	50	<2	None	None	None	None	Blue	67	Clear		
S4	09/16/25	9:06	10	<10	2	None	None	None	None	Blue		Clear		
S5	09/16/25	8:53	<10	<10	2	None	None	None	None	Blue		Clear		
S6	09/16/25	8:35	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	09/16/25	8:34	20	<10	<2	None	None	None	None	Blue		Clear		
S7	09/16/25	8:30	10	<10	<2	None	None	None	None	Blue		Clear		
S8	09/16/25	8:16	30	10	2	None	None	None	None	Blue		Clear		
S9	09/16/25	8:13	20	20	5	None	None	None	None	Blue		Clear		
ACM1	09/16/25	8:10	80	<10	90	None	None	None	None	Blue		Clear	Flowing	
S10	09/16/25	7:42	50	50	74	None	None	None	None	Blue		Clear		
S11	09/16/25	7:39	10	<10	<2	None	None	None	None	Blue		Clear		
S12	09/16/25	7:33	<10	<10	<2	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 10:18

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	09/23/25	8:43	10	<10	<2	None	None	None	None	Blue		Clear		
S4	09/23/25	9:01	10	<10	<2	None	None	None	None	Blue		Clear		
S5	09/23/25	10:28	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	09/23/25	9:27	<10	40	<2	None	None	None	None	Blue		Clear		
WEST	09/23/25	9:25	20	<10	2	None	None	None	None	Blue		Clear		
S7	09/23/25	9:19	10	<10	4	None	None	None	None	Blue		Clear		
S8	09/23/25	10:23	20	20	10	None	None	None	None	Blue		Clear		
S9	09/23/25	10:20	50	20	36	None	None	None	None	Blue		Clear		
ACM1	09/23/25	10:18	40	80	240	None	None	None	None	Blue	67	Clear	Flowing	
S10	09/23/25	10:12	100	130	58	None	None	None	None	Blue		Clear		
S11	09/23/25	10:58	110	190	110	None	None	None	None	Blue		Clear		
S12	09/23/25	10:53	30	10	<2	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 7:59
 Weather: Overcast
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	09/30/25	10:45	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S4	09/30/25	10:26	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S5	09/30/25	10:20	<10	<10	<2	None	None	None	None	Green	65	Slightly Turbid		
S6	09/30/25	9:30	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	09/30/25	9:25	<10	<10	6	None	None	None	None	Green		Slightly Turbid		
S7	09/30/25	9:21	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	09/30/25	8:36	30	20	26	None	None	None	None	Green	64	Slightly Turbid		
S9	09/30/25	8:31	10	10	30	None	None	None	None	Green		Slightly Turbid		
ACM1	09/30/25	8:40	10	<10	8	None	None	None	None	Green		Slightly Turbid		
S10	09/30/25	10:00	20	10	<2	None	None	None	None	Green		Slightly Turbid		
S11	09/30/25	9:55	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S12	09/30/25	9:48	<10	<10	4	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Water Quality Sample Station Map – Aliso Creek Ocean Outfall



Aliso Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
S3	Three Arch Bay Beach; 10,000' down-coast from ACOO
S4	Ninth Street-1000 Steps; 5,000' down-coast from ACOO
S5	Laguna Lido Beach; 4,000 down-coast from ACOO
West	West Street Drain; 2,000' down-coast from ACOO
S6	Table Rock Beach; 3,000' down-coast from ACOO
S7	Camel Point Beach; 2,000' down-coast from ACOO
S8	Aliso Beach south; 1,000' down-coast from ACOO
S9	Aliso Beach middle; at ACOO
ACM1	Aliso Beach at Aliso Creek Outlet
S10	Aliso Beach north; 1,000' up-coast of ACOO
S11	Treasure Island Beach; 2,000' up-coast of ACOC
S12	Goff Island Beach; 3,000' up-coast of ACOO

MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

Report For: September 2025

Report Frequency: Monthly

Report Due: November 1, 2025

Sample Source: Receiving water, nearshore and offshore

Sampling Frequency: Monthly

Exact Sample Points: As specified in permit

Type of Sample: Grab

Samples Collected By: Seaventures/SOCWA staff

Tide: High Tide 9:06

Samples Analyzed By: SOCWA Lab

Comments:

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	09/04/25	<2	<2	<2	8:09	0	0	
A-1	Mid depth	09/04/25	<10	<10	<10				
A-2	Surface	09/04/25	<2	<2	2	8:03	0	0	
A-2	Mid depth	09/04/25	<10	<10	<10				
A-3	Surface	09/04/25	<2	<2	2	8:19	0	0	
A-3	Mid depth	09/04/25	<10	<10	<10				
A-4	Surface	09/04/25	<2	<2	<2	8:22	0	0	
A-4	Mid depth	09/04/25	<10	<10	<10				
A-5	Surface	09/04/25	<2	<2	2	8:12	0	0	
A-5	Mid depth	09/04/25	<10	<10	<10				
B-1	Surface	09/04/25	<2	<2	2	7:50	0	0	
B-1	Mid depth	09/04/25	<10	<10	<10				
B-2	Surface	09/04/25	<2	<2	2	8:33	0	0	
B-2	Mid depth	09/04/25	<10	<10	<10				
N1	Surface	09/04/25	<2	<2	2	8:52	0	0	
N2	Surface	09/04/25	<2	<2	<2	8:49	0	0	
N3	Surface	09/04/25	<2	<2	<2	8:48	0	0	
N4	Surface	09/04/25	<2	<2	2	8:47	0	0	
N5	Surface	09/04/25	<2	<2	<2	8:45	0	0	
N6	Surface	09/04/25	<2	<2	<2	8:44	0	0	
N7	Surface	09/04/25	<2	<2	2	8:42	0	0	

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL

calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL

(3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV)

of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated

in a static manner

**Compliance Summary Report
Aliso Creek Ocean Outfall September 2025**

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
LAWRP-Ptp Brine	9/3/2025	pH	Deficient monitorng	s.u.	Daily (5 days/week)	N/A	\$3,000
LAWRP-SGU Brine	9/3/2025	pH	Deficient monitorng	s.u.	Daily (5 days/week)	N/A	\$3,000
LAWRP-SGU Brine	9/27/2025	Turbidity, TDS, SS	Deficient monitorng	NTU, mg/L, ml/L	Weekly	N/A	\$3,000



**SOCWA and MEMBER AGENCY FACILITIES ACOO
Spill / Overflow Report Log - September 2025 Order
No. R9-2022-0006 ~ NPDES Permit No. CA0107611**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
				No Spills During this Monitoring Period			

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

September 2025

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	Desalter FLOW MGD	Desalter FLOW MGD	FLOW MGD	Fall inches
09/01/25	8.300	6.0	4.6	<0.1	2.110	8.3	9.0	0.1	0.007	1.6	4.0	<0.1	0.012	5.0	7.4	<0.1	0.540	0.170	11.300	0.00
09/02/25	8.780	7.2	5.7	<0.1	2.400	8.8	9.0	<0.1	0.014	2.5	4.5	<0.1	0.014	8.0	8.6	<0.1	0.540	0.173	12.030	0.00
09/03/25	8.410	4.2	4.6	<0.1	2.440	8.4	7.0	<0.1	0.028	3.6	5.0	<0.1	0.011	10.0	8.2	<0.1	0.550	0.172	11.510	0.00
09/04/25	8.290	5.7	6.7	<0.1	1.870	7.5	7.0	0.1	0.000				0.012	9.0	7.9	<0.1	0.540	0.172	11.570	0.00
09/05/25	8.490	6.0	4.3	0.1	2.250	5.7	7.0	0.1	0.000				0.372	8.0	7.2	<0.1	0.540	0.173	11.610	0.00
09/06/25	8.260	5.5	5.4	<0.1	2.080				0.000				0.436				0.540	0.173	11.640	0.00
09/07/25	8.490	6.6	6.4	<0.1	1.840	4.3	6.0		0.001	1.7	4.2	<0.1	0.487				0.540	0.171	12.160	0.00
09/08/25	8.610	6.6	5.3	<0.1	2.490	4.7	6.0	0.1	0.005	4.0	4.8	<0.1	0.018	8.0	8.1	<0.1	0.280	No Flow	12.430	0.00
09/09/25	8.220	6.4	4.0	<0.1	2.160	8.8	8.0	0.2	0.000				0.010	6.0	6.1	<0.1	0.240	No Flow	10.880	0.00
09/10/25	8.130	4.5	5.4	<0.1	2.120	5.9	7.0	0.1	0.035	3.2	4.1	<0.1	0.020	7.0	6.1	<0.1	0.540	1.225	10.340	0.00
09/11/25	8.080	6.2	5.7	<0.1	2.610	5.1	6.0	0.2	0.000				0.020	5.0	3.4	<0.1	0.540	0.210	12.700	0.00
09/12/25	8.110	4.3	7.4	<0.1	2.370	5.5	7.0	1.5	0.000				0.014	7.0	2.7	<0.1	0.530	0.177	11.580	0.00
09/13/25	8.130	5.2	5.4		2.020				0.000				0.020				0.530	0.173	11.360	0.00
09/14/25	8.230	6.1	6.4	<0.1	2.010	5.7	7.0		0.009	1.2	4.2	<0.1	0.020				0.540	0.178	11.500	0.00
09/15/25	8.350	8.7	6.7	<0.1	2.530	4.5	7.0	<0.1	0.016	3.5	4.5	<0.1	0.007	9.0	8.0	<0.1	0.550	0.173	11.620	0.00
09/16/25	8.240	4.8	3.7	<0.1	2.270	7.6	8.0	0.1	0.002	4.1	4.9	<0.1	0.004	11.0	4.1	<0.1	0.550	0.174	11.610	0.00
09/17/25	8.130	4.6	4.0	<0.1	2.070	7.2	6.0	<0.1	0.029	2.8	4.8	<0.1	0.009	6.0	2.0	<0.1	0.550	0.173	11.140	0.00
09/18/25	8.290	6.1	4.7	0.1	1.830	5.9	7.0	0.2	0.000				0.128	5.0	3.8	<0.1	0.550	0.176	11.170	0.15
09/19/25	8.340	2.9	4.0	<0.1	2.410	4.2	6.0	0.1	0.000				0.006	5.0	3.5	<0.1	0.550	0.177	11.270	0.00
09/20/25	8.250	4.2	3.7		1.820				0.000				0.010				0.550	0.173	11.170	0.00
09/21/25	8.320	7.9	4.7	<0.1	1.770	5.0	7.0		0.000				0.007				0.550	0.177	11.150	0.00
09/22/25	8.240	4.5	4.7	<0.1	2.320	5.0	6.0	0.2	0.000				0.007	7.0	5.0	<0.1	0.550	0.172	11.220	0.00
09/23/25	8.230	6.4	4.7	0.1	2.370	5.0	7.0	<0.1	0.000				0.005	8.0	5.0	<0.1	0.550	0.176	11.230	0.00
09/24/25	8.120	5.9	4.0	0.1	3.110	5.4	3.0	0.2	0.005	0.8	2.9	<0.1	0.004	5.0	3.7	<0.1	0.540	0.172	11.290	0.00
09/25/25	8.150	5.4	4.3	<0.1	1.790	5.3	4.0	0.2	0.009	0.4	2.9	<0.1	0.006	5.0	3.2	<0.1	0.540	0.175	11.220	0.00
09/26/25	8.050	6.3	6.7	0.1	2.440	5.8	4.0	0.2	0.000				0.005	5.0	3.8	<0.1	0.550	0.176	11.200	0.00
09/27/25	8.140	5.8	3.7		2.650				0.000				0.009				0.550	0.175	11.270	0.00
09/28/25	8.240	8.6	7.4	<0.1	2.230	8.3	8.0		0.000				0.005				0.550	0.172	11.560	0.00
09/29/25	8.410	7.6	6.0	<0.1	2.490	9.0	9.0	0.3	0.000				0.003	<5.0	5.9	<0.1	0.540	0.175	11.790	0.00
09/30/25	8.260	3.1	4.0	<0.1	2.430	9.2	9.0	0.3	0.000				0.813	<5.0	4.4	<0.1	0.530	0.177	11.690	0.00
AVG	8.276	5.8	5.1	<0.1	2.243	6.4	6.8	<0.2	0.005	2.5	4.2	<0.1	0.083	6.8	5.4	<0.1	0.525	0.199	11.474	
TOTAL	248.290				67.300				0.160				2.494				15.740	5.960	344.210	0.15

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 08:11

Weather: Overcast

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	None	None	None	None	None	None	None
S0	09/02/25	08:35	<20	20	10	None	None	None	None	Blue	71	Clear		
S1	09/02/25	08:40	20	<20	<2	None	None	None	None	Blue		Clear		
S2	09/02/25	09:20	<20	<20	10	None	None	None	None	Green		Clear		
DSB5	09/02/25	09:25	20	<20	<2	None	None	None	None	Green		Clear		
S3	09/02/25	09:31	40	<20	<2	None	None	None	None	Green		Clear		
DSB4	09/02/25	09:11	20	<20	2	None	None	None	None	Green		Clear		
S5	09/02/25	09:05	40	<20	<2	None	None	None	None	Green		Clear		
DSB1	09/02/25	09:01	80	<20	2	None	None	None	None	Green		Clear		
SJC1	09/02/25	08:49	<20	20	<2	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 10:46

Weather: Overcast

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	09/09/25	09:47	<20	<20	2	None	None	None	None	Green		Turbid		
S1	09/09/25	09:53	<20	<20	10	None	None	None	None	Green		Turbid		
S2	09/09/25	10:25	<20	<20	2	None	None	None	None	Green		Turbid		
DSB5	09/09/25	08:57	40	20	20	None	None	None	None	Green	68	Turbid		
S3	09/09/25	09:57	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	09/09/25	09:57	20	<20	<2	None	None	None	None	Green		Turbid		
S5	09/09/25	10:03	20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	09/09/25	10:06	20	60	4	None	None	None	None	Green		Turbid		
SJC1	09/09/25	09:45	200	20	150	None	None	None	None	Green		Turbid		50

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 10:24

Weather: Overcast

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease		Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore	Grease	Odor					
S0	09/15/25	09:35	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S1	09/15/25	09:20	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	09/15/25	09:55	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	09/15/25	10:15	<20	100	2	None	None	None	None	Green		Slightly Turbid		
S3	09/15/25	09:15	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	09/15/25	09:10	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	09/15/25	09:00	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
DSB1	09/15/25	08:50	<20	<20	<2	None	None	None	None	Green	64	Slightly Turbid		
SJC1	09/15/25	09:45	<100	<100	<10	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

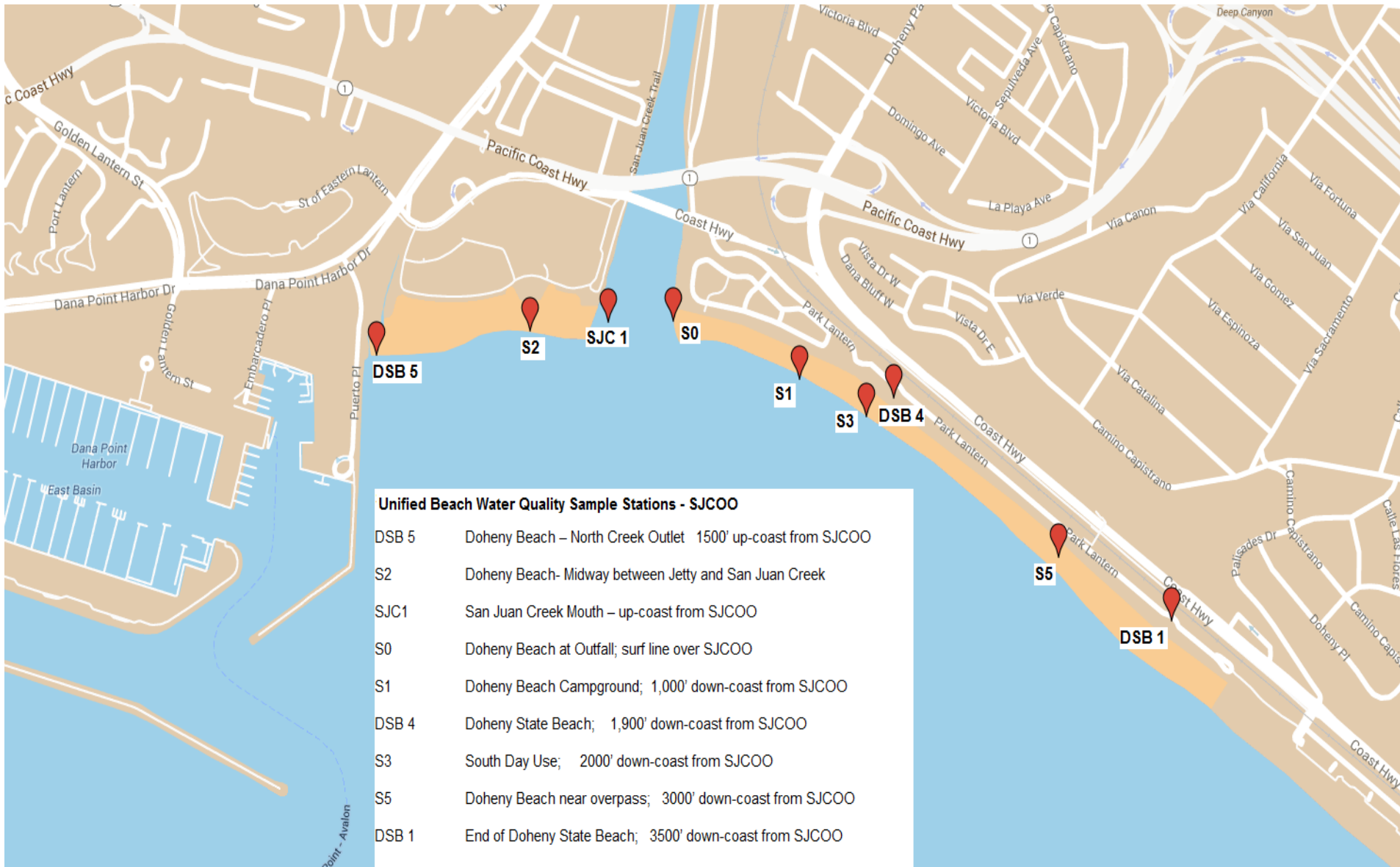
REPORT FOR: September 2025
 REPORT DUE: November 1, 2025
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 10:29
 Weather: Clear
 COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore	None	None	None	None	None	None	None
S0	09/24/25	7:53	20	20	8	None	None	None	None	Green		Slightly Turbid		
S1	09/24/25	8:32	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	09/24/25	7:58	20	<20	2	None	None	None	None	Green	65	Slightly Turbid		
DSB5	09/24/25	8:02	<20	40	20	None	None	None	None	Green		Slightly Turbid		
S3	09/24/25	8:35	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	09/24/25	8:38	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	09/24/25	8:43	40	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	09/24/25	8:49	40	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	09/24/25	7:55	400	100	20	None	None	None	None	Green		Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.



San Juan Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
DSB 5	Doheny Beach – North Creek Outlet 1500' up-coast from SJCOO
S2	Doheny Beach- Midway between Jetty and San Juan Creek
SJC1	San Juan Creek Mouth – up-coast from SJCOO
S0	Doheny Beach at Outfall; surf line over SJCOO
S1	Doheny Beach Campground; 1,000' down-coast from SJCOO
DSB 4	Doheny State Beach; 1,900' down-coast from SJCOO
S3	South Day Use; 2000' down-coast from SJCOO
S5	Doheny Beach near overpass; 3000' down-coast from SJCOO
DSB 1	End of Doheny State Beach; 3500' down-coast from SJCOO

MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

Report For: September 2025

Report Frequency: Monthly

Report Due: November 1, 2025

Sample Source: Receiving water, nearshore and offshore

Sampling Frequency: Monthly

Exact Sample Points: As specified in permit

Type of Sample: Grab

Samples Collected By: Seaventures/SOCWA staff

Tide: High Tide 8:45

Samples Analyzed By: SOCWA Lab

Comments: One nearby boat at A-1

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	
A-1	Surface	09/04/25	<2	2	2	10:07	0	0	
A-1	Mid depth	09/04/25	<10	<10	<10				
A-2	Surface	09/04/25	<2	<2	<2	10:02	0	0	
A-2	Mid depth	09/04/25	<10	<10	<10				
A-3	Surface	09/04/25	<2	<2	<2	10:16	0	0	
A-3	Mid depth	09/04/25	<10	<10	<10				
A-4	Surface	09/04/25	<2	<2	<2	10:20	0	0	
A-4	Mid depth	09/04/25	<10	<10	<10				
A-5	Surface	09/04/25	<2	<2	2	10:11	0	0	
A-5	Mid depth	09/04/25	<10	<10	<10				
B-1	Surface	09/04/25	<2	<2	<2	9:50	0	0	
B-1	Mid depth	09/04/25	20	20	10				
B-2	Surface	09/04/25	<2	<2	<2	10:28	0	0	
B-2	Mid depth	09/04/25	<10	<10	<10				
N1	Surface	09/04/25	<2	<2	<2	9:33	0	0	
N2	Surface	09/04/25	<2	<2	<2	9:29	0	0	
N3	Surface	09/04/25	<2	<2	<2	9:27	0	0	
N4	Surface	09/04/25	2	<2	<2	9:22	0	0	
N5	Surface	09/04/25	4	<2	<2	9:20	0	0	
N6	Surface	09/04/25	2	<2	<2	9:17	0	0	

0 - None
1 - Mild
2 - Moderate
3 - Severe

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL

(3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV) of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated in a static manner

Compliance Summary Report
San Juan Creek Ocean Outfall September 2025

SJCOO Permit Order No. R9-2025-0001							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
There were no water quality violations during this reporting period.							



SOCWA and MEMBER AGENCY FACILITIES

SJCOO Spill / Overflow Report Log - September 2025

Order No. R9-2025-0001 ~ NPDES Permit No. CA0107417

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
No spills during this monitoring period.							

Recycled Water Report

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD - RTP	1/7/2025	TDS	12 month	mg/L	1000	1212	
MNWD - RTP	1/7/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	1/7/2025	Manganese	Daily Maximum	mg/L	0.06	0.07	
SOCWA - CTP	1/7/2025	Manganese	12-Month	mg/L	0.05	0.09	
MNWD - 3A	10/2/2024	TDS	12 month	mg/L	1000	1213	Offline
MNWD - 3A	10/2/2024	Manganese	12 month	mg/L	0.05	0.10	Offline
SMWD-NWRP	1/15/2025	TDS	Daily Maximum	mg/L	1000	1200	
SOCWA - CTP	2/4/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	
SOCWA - CTP	2/4/2025	Manganese	12 month	mg/L	0.05	0.09	
MNWD - RTP	2/4/2025	Manganese	Daily Maximum	mg/L	0.06	0.15	
MNWD - RTP	2/4/2025	Manganese	12 month	mg/L	0.05	0.13	
MNWD - RTP	2/4/2025	TDS	12 month	mg/L	1000	1189	
MNWD - 3A	10/2/2024	TDS	12 month	mg/L	1000	1213	Offline
MNWD - 3A	10/2/2024	Manganese	12 month	mg/L	0.05	0.10	Offline
MNWD - RTP	3/5/2025	TDS	12 month	mg/L	1000	1126	
MNWD - RTP	3/5/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	3/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.10	
MNWD - 3A	3/5/2025	TDS	12 month	mg/L	1000	1174	
MNWD - 3A	3/5/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	3/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.10	
SOCWA - CTP	3/4/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	
SOCWA - CTP	3/4/2025	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-NWRP	3/21/2025	TDS	12 month	mg/L	1000	1024.00	
SMWD-NWRP	3/21/2025	TDS	Daily Maximum	mg/L	1000	1153	
MNWD - RTP	4/8/2025	TDS	12 month	mg/L	1000	1088	
MNWD - RTP	4/8/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	4/8/2025	Manganese	Daily Maximum	mg/L	0.06	0.20	
MNWD - 3A	4/3/2025	TDS	12 month	mg/L	1000	1149	

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD - 3A	4/3/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	4/3/2025	Manganese	Daily Maximum	mg/L	0.06	0.12	
SOCWA - CTP	4/1/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	4/1/2025	Daily Maximum	12-Month	mg/L	0.05	0.09	
SMWD-NWRP	4/17/2025	TDS	12 month	mg/L	1000	1075	
MNWD - RTP	5/6/2025	TDS	12 month	mg/L	1000	1023	
MNWD - RTP	5/6/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	5/6/2025	Manganese	Daily Maximum	mg/L	0.06	0.12	
MNWD - 3A	5/5/2025	TDS	12 month	mg/L	1000	1090	
MNWD - 3A	5/5/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	5/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
SOCWA - CTP	5/19/2025	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-NWRP	5/13/2025	TDS	12 month	mg/L	1000	1048	
MNWD - RTP	6/2/2025	TDS	12 month	mg/L	1000	1008	
MNWD - RTP	6/2/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	6/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.16	
MNWD - 3A	6/2/2025	TDS	12 month	mg/L	1000	1048	
MNWD - 3A	6/2/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	6/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.12	
SOCWA - CTP	6/3/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	6/3/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
SMWD-NWRP	6/25/2025	TDS	12 month	mg/L	1000	1032	
MNWD - RTP	7/1/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	7/1/2025	Manganese	Daily Maximum	mg/L	0.06	0.10	
MNWD - 3A	7/2/2025	TDS	12 month	mg/L	1000	1024	
MNWD - 3A	7/2/2025	Manganese	12 month	mg/L	0.05	0.09	
MNWD - 3A	7/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.07	
SOCWA - CTP	7/1/2025	Manganese	12-Month	mg/L	0.05	0.08	
SMWD-NWRP	7/16/2025	TDS	12 month	mg/L	1000	1091	
TCWD	7/1/2025	MBAS	Daily Maximum	mg/L	0.06	4.30	

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD - RTP	8/5/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	8/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.13	
MNWD - 3A	8/5/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	8/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.13	
SOCWA - CTP	8/5/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	8/5/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
SMWD-NWRP	8/20/2025	TDS	12 month	mg/L	1000	1003	
MNWD - RTP	9/3/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	9/3/2025	Manganese	Daily Maximum	mg/L	0.06	0.14	
MNWD - 3A	9/26/2025	Manganese	12 month	mg/L	0.05	0.10	
MNWD - 3A	9/26/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	
SOCWA - CTP	9/2/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	9/2/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending:

Sep 30, 2025

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average

TDS	mg/L	1000	855		918	964	932	905	754
Chloride	mg/L	375	225		248	298	227	203	171
Sulfate	mg/L	400	284		233	218	356	199	215
Sodium	mg/L	None	61		180	220		200	162
Alkalinity	mg/L	None	-	-	-	-		241	182
Adjusted SAR	Ratio	None	5.50		5.48	6.10	4.38	4.42	4.28
Iron	mg/L	0.3	0.051		0.138	0.163	0.21	0.275	0.153
Manganese	mg/L	0.05	0.005		0.043	0.017	0.10	0.125	0.075
MBAS	mg/L	0.5	<0.50		0.20	0.25	<0.04	<0.12	<0.10
Boron	mg/L	0.67	0.265		0.255	0.468	0.28	0.308	0.27
Fluoride	mg/L	None	0.79		0.54	0.62	0.78	0.76	0.55
Total Organic Carbon	mg/L	None	6.1		13.0	12.7	9.6	11.7	10.0

*** The CTP 12-month permit limits are listed below:

TDS 1200 mg/L
Chloride 400 mg/L
Sulfate 500 mg/L

SOCWA Service Area
Recycled Water Production (ac-ft)
2025

Agency	Facility or Region	Jan '25	Feb '25	Mar '25	Apr '25	May '25	Jun '25	Jul '25	Aug '25	Sep '25	Oct '25	Nov '25	Dec '25	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
CSJC 2	Chiquita/SMWD	12.90	1.91	4.31	19.45	21.06	24.54	30.49	30.26	38.37				183.29
CSJC 3	Non-Domestic Wel	30.43	14.44	18.76	33.64	50.52	59.51	66.21	66.45	48.90				388.86
ETWD	Region 8	76.42	28.25	39.53	113.74	154.52	200.91	258.40	242.44	185.71				1,299.93
IRWD														
	⁴ IRWD - 8	135.30	38.33	37.59	135.62	178.24	203.03	280.41	221.64	258.15				1,488.32
	⁴ IRWD - 9	53.53	18.46	20.85	64.04	70.76	80.72	114.75	113.14	99.92				636.17
SCWD	SOCWA CTP	54.89	19.84	35.36	62.63	70.54	68.33	101.59	99.61	82.06				648.50
MNWD	JRP	449.87	260.06	73.93	223.63	378.52	439.96	531.16	583.83					2,940.95
	3-A Plant	0.00	0.00	145.44	144.28	126.07	117.61	23.67	152.77	147.78				857.62
	⁵ CTP	5.27	-1.23	9.09	22.13	19.90	4.28	13.67	14.69	14.07				101.87
SMWD	Oso Creek													
	Chiquita	362.93	426.67	506.31	471.75	495.66	472.46	515.08	511.77	491.21				4,253.82
	Nichols	1.73	1.49	1.74	1.63	1.91	1.97	2.18	2.49	2.49				17.63
TCWD	RRWRP	37.50	35.59	41.56	39.15	39.67	38.45	24.77	37.70	38.01				332.39
TOTALS		1,220.77	843.82	934.45	1,331.69	1,607.37	1,711.77	1,962.39	2,076.77	1,406.66				13,149.33

- 1 Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.
 - 2 Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.
 - 3 Denotes nondomestic groundwater produced from wells used for landscape irrigation.
 - 4 IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments
 - 5 Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.
- Note: All of ETWD reclaimed water produced and used in Region 8.
NR = No Report

Pretreatment Report

Agenda Item

5.F.

Legal Counsel Review: No

Meeting Date: November 6, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report – September and October 2025
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order # R9-2022-0005
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order # R9-2022-0006

Summary of Program Activities

Staff continue to utilize the California Manufacturers Directory, submitted will-serve notices, and business licensing data to identify industrial users (IUs) and update each Member Agency's (MA) Industrial Waste Survey (IWS) spreadsheet. Refer to the "Summary of IWS Activities" table below for details. In addition, staff are conducting targeted outreach to Dental User Establishments (DSEs) within the service area to obtain the submittals of the One-Time Compliance Report. As this is an ongoing effort, the most up-to-date DSE compliance figures will be reported later.

Permit Related Activities

The following Wastewater Discharge (WD) Permits, Special Wastewater Discharge (SWD) Permits, Nuisance Water-Special Wastewater Discharge (NSWD) Permits, Non-Industrial Wastewater Discharge (NIWD) forms, and BMP letters were issued or are in the process of being drafted for issuance:

SOCWA – Southern California Gas Company (SoCalGas) – SWD Permit #SOCWA-4-010-01-26
- On June 12, 2025, staff received a permit application and discharge request for hydrotest wastewater associated with a 2.2 mile existing 30-inch natural gas transmission line which runs parallel to Alipaz St. Staff issued a permit on September 8, 2025 with an effective date of October 1, 2025. The permit requires testing of the treated water prior to commencement of discharge to the sewer facilities and expires on January 1, 2026.

IRWD - Velco Tool & Die – Velco was inspected on June 12, 2025, and determined to be a non-significant industrial user (NSCIU) under Metal Finishing Rules, 40 CFR Part 433. As required, site staff submitted a permit application to SOCWA on August 8, 2025, and remain in communication regarding implementation of necessary equipment and procedures. The application is currently under review, and staff anticipate issuing a permit by the end of October 2025. Prior to issuing the permit, the facility has been instructed to monitor and record the pH of its discharge daily and to log daily flow volumes.

SMWD – Applied Medical Passivation Building – WD Permit #SMWD-1-009 – Over the past year, Applied Medical staff tested a pilot treatment system in preparation for full-scale implementation and maintained ongoing communication with SOCWA staff throughout the project. On September 8, 2025, facility staff submitted a permit application detailing the proposed pretreatment system designed to treat all process wastewater—including wastewater from passivation, rinsing, deburring, and tumbling operations—in accordance with the standards and limitations specified in the facility's permit. On September 11, 2025, SOCWA issued a permit modification letter approving an increase in the facility's total flow limit from 3,000 to 5,000 gallons per day and authorizing the addition of a new discharge and sampling location, sampling location 002. Staff is planning to inspect and sample location 002 independent of Applied Medical.

Training and Meetings

Staff attend monthly OC Strike Force meetings to share and receive environmental legal updates.

Staff attend monthly CWEA SARBS BOD meetings as the current pretreatment chair.

In 2023, staff and other members of the P3S community assisted CWEA in updating the Environmental Compliance Inspector (ECI) certification exam questions. At present, staff is assisting with a rewrite of the questions which have scored poorly over the past year.

Staff participate in Clean Water So Cal meetings and trainings as the current pretreatment co-chair. Staff assisted in hosting a virtual Pretreatment Committee Meeting - Software Discussion, on September 18, 2025.

On October 15, 2025, SOCWA Staff attended the Annual OC Strike Force Training/ Networking Event at the Irvine Ranch Water District Rattlesnake Reservoir Facility. Training was presented by Orange County Public Works on the use of drones for environmental surveillance and sampling.

On October 29, 2025, staff attended a CWEA SARBS training event to showcase and tour the SCWD Sewer Tunnel.

Inspections

SOCWA staff has started the process of conducting its required annual site inspections and monitoring/sampling of all SIU/CIU's in the SOCWA service area. This is a required activity of the SOCWA pretreatment program. The information and data obtained from these required activities will be incorporated into the SOCWA Pretreatment Annual Report.

IRWD – On August 28, 2025, SOCWA and IRWD staff jointly inspected Karem Aircraft. The inspection was prompted by a stormwater notice of violation (NOV) issued by the City of Lake Forest for discharging non-contact cooling water to the storm drain. Inspection findings yielded no findings and confirmed the facility does not generate any regulated wastewater. Further, the non-contact wastewater stream is made up of potable water with no addition of chemicals. The site was granted permission to connect and discharge the non-contact cooling wastewater to the sewer.

MNWD – Staff is assisting with the investigation of high sewer flows in Crown Valley/I15 wastewater shed. On August 25, 2025, and September 8, 2025, staff inspected Triumshire Century Center for unauthorized connection of a groundwater pumping system to the sewer. The site was denied

a discharge permit by letter on August 6, 2019, and SOCWA/MNWD understood that rather than pursue an NPDES permit for discharge to the curb/gutter, the site would use collected groundwater for irrigation. Inspection findings require the site to cease the discharge of any groundwater to the sewer and to prove a second well and sump pump on-site is connected to a holding tank for use as irrigation water. On October 9, 2025, staff received confirmation that the site is no longer discharging any groundwater to the sewer. Staff expect to visit the site again to confirm this information. Additionally, staff will begin to investigate other locations in the sewer shed to identify illicit discharges to the sewer starting with the Mission Viejo Mall and Kaleidoscope complex.

CSC – On September 16, 2025, staff inspected both sites for Custom Flavors Inc., located off Calle Iglesia. The inspections yielded no major findings. However, the reports include recommendations for improvement.

SMWD – In an effort to document processes in all Applied Medical facilities, on October 1, 2025, staff inspected building R105 of the Applied Medical campus, located at 30200 Avenida De Las Banderas, and confirmed that no process wastewater is discharged from the site.

IRWD – On October 2, 2025, staff inspected the Applied Medical facilities (bldgs. L201 & L202) located at 20161 & 20162 Windrow Drive in Lake Forest. Building L201 remains regulated under a BMP letter issued on June 6, 2016, to allow continuous discharge of non-contact cooling wastewater associated with the plastic and metal molding machinery. L202 remains regulated under WD permit # IRWD-1NS-001 as a non-significant categorical industrial user (NSCIU). The inspections yielded no findings, and the sites have a good history of compliance.

IRWD – On November 4, 2025, SOCWA staff and IRWD staff jointly performed the annual inspection and sampling event of Dynacast. Inspection findings and sampling data are pending.

Summary of IWS Activities in SOCWA's Service Area - YTD through October 20, 2025

<u>MA IUs</u>	<u>Events</u>	<u>Permits</u>	<u>NIWD</u>	<u>BMPs</u>	<u>FSEs</u>	<u>OSes</u>	<u>DSEs</u>	<u>Closed</u>	<u>Enforcement</u>	<u>Total IUs</u>
CLB (S)	0	2	2	5	8	110	15	0	0	143
CSC (S)	21	10	35	18	190	1263	38	0	2	1554
CSJC (S)	32	0	27	58	141	1703	30	6	0	1959
ETWD (M)	21	0	88	0	261	143	50	5	0	498
EBS (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	3	5	51	21	63	915	18	1	0	1073
MNWD (S)	36	4	120	38	659	2145	152	10	2	3118
SMWD (S)	58	9	19	19	222	856	52	15	3	1177
SCWD (S)	0	8	33	7	148	186	15	0	2	397
TCWD (S)	0	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	6	1	0	0	0		0	0	6
Totals	171	45	387	166	1699	7354	372	37	9	9977

(S) = SOCWA conducts PT program
(M) = MA conducts PT program /w SOCWA
(U) = Urban Diversion Only

NIWD = Non-industrial Waste Discharger
BMP = Best Management Practices
FSE = Food Service Establishment

YTD = Year to Date
OSE = Other Surveyed Establishment
DSE = Dental Surveyed Establishment

Agenda Item

5.G

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors
FROM: Amber Boone, General Manager
SUBJECT: Use Audit Flows and Solids FY 24-25

Summary

The Use Audit flow allocation methodology has relied on historical practice for allocation of costs. This agenda item reviews the methodology per project committee (PC), which is presented to the Engineering Committee and SOCWA Board members on an annual basis for review, comment, and use in the annual Use Audit for FY 24-25.

Results

Captured herein are the methodologies employed and the results by member agency based on the raw and calculated data, which have been distributed to Engineering Committee members for review and comment. Please note that PC 5 and PC 24 are attributed to fixed costs.

PC 2

Member agency average flows for the FY were used in the flow allocation and applied proportionally from the total combined flow from each tributary trunk line. The PC 2 uses FY flows and three-year FY average solid loadings to reconcile the budgeted amounts. Solids loadings are calculated by adding the average FY BOD and TSS and, dividing by 2 and then multiplying the result by the flow and the 8.34 pounds conversion factor. In March 2018, PC2 members Moulton Niguel Water District (MNWD) and Santa Margarita Water District (SMWD) came to an agreement on how to allocate solids for budgeting and use audit purposes. The new method captures the influent loading at Plant 3A as it was recognized that this allocation would isolate MNWD's solids contributions to JBL to a single variable. SMWD solids to JBL would then be the balance of solids contributed by the Oso Creek Water Reclamation Plant, 3A, and any other discharges to the Oso Trabuco line to JBL.

Summary results for PC2 are included in Table 1. The total sum of the metered flows on the line influent into the JB Latham facility was 7.98 mgd. Calculated values with the 1.4mgd constant from MNWD is 8.49 mgd. The percentage difference between metered and billing flows was 6.2%.

Table 1: PC2 Liquids and Solids Summary Table

PC2 - JB Latham Plant				
Liquids Summary (mgd)				
Agency	2024-2025 Budgeted Flow (mgd)	2024-2025 Budgeted Percent	2024-2025 Total Billing Flow (mgd)	Total Percent To Date
San Juan Trunkline (1)				
MNWD (2)	1.40	19.07 %	1.40	16.50 %
SCWD	1.74	23.71 %	1.58	18.62 %
Oso-Trabuco Trunkline/SMWD (1),(2),(3)	4.20	57.22 %	5.51	64.88 %
	7.34	100.00 %	8.49	100.00 %
Solids Summary Loading (mgd)				
Agency	2024-2025 Budgeted Flow	2024-2025 Budgeted Percent	Total Avg. Loadings Billing Loading	Total Percent To Date
San Juan Trunkline (1)				
MNWD (2)	5134.17	19.29 %	4103.00	17.71 %
SCWD	6279.59	23.59 %	5980.00	25.80 %
Oso-Trabuco Trunkline/SMWD (1),(2),(3)	15206.71	57.12 %	13091.00	56.49 %
	26620.47	100.00 %	23174.00	100.00 %
(1) San Juan Trunkline was previously allocated to the City of San Juan Capistrano (CSJC). With the acquisition of CSJC's flow by SMWD, the flows are included in SMWD's total flows and solids loading and included for clarity in total flows and solids contribution due to sharing of the Oso-Trabuco line by SMWD and MNWD.				
(2) Please refer to the MNWD & SMWD Agreement from 2018 for flow/solids splitting in the Oso-Trabuco line.				
(3) SMWD includes flow from San Juan Creek trunkline flow plus Oso trabuco flow split minus the 1.4mgd flow constant from MNWD.				

PC 12

The PC 12 method of production is detailed by member agency in the following narrative. San Juan Capistrano is the acre-foot sum of the Rosenbaum well, the Mission Street Well, and the total reclaimed water from the SMWD/CSJC intertie. For MNWD, it is the amount of reclaimed water produced from the Regional Treatment Plant (RTP) and the 3A Treatment Plant (split with

SMWD). South Coast Water District (SCWD) is the total reclaimed water produced from the Coastal Treatment Plant (CTP). The Santa Margarita Water District (SMWD) is the combined sum of reclaimed water produced from the 3A Treatment Plant (split with MNWD), the Oso Creek Water Reclamation Plant (OCWRP), the Chiquita Water Reclamation Plant (CWRP), and the Nichols Water Reclamation Plant (NWRP). The Trabuco Canyon Water District (TCWD) is reclaimed water produced from the Robinson Ranch Water Reclamation Plant (RRWRP). Summary results for PC2 are included in Table 2.

Table 2: PC12 Liquids Summary Table

PC 12 Recycled Water		
Master Recycled Water Permit		
2024-2025		
Member Agency	Region 9 Recycled Production FY 2024-2025	% RW Produced FY 2024-2025
	acft	%
CSJC	868.00	6.45
MNWD	5650.00	42.03
SCWD	745.00	5.54
SMWD	5724.00	42.58
TCWD	458.00	3.41
Total	13445.00	100.00

PC 15

Due to the lack of solids handling capacity at the Coastal Treatment Plant (CTP), allocation methodology is based on flows to the treatment plant. In addition, there are no current flow meters installed to account for any flow sent to CTP from MNWD, so no flow is being accounted for in this PC flow allocation methodology. The City of Laguna Beach (CLB) is the average annual flow into CTP (metered). The Emerald Bay Services District (EBSB) is the average annual flow into CTP (calculated from the monthly meter reads from the lift station divided by the days in the month). The South Coast Water District (SCWD) is the average annual flow into CTP (metered). The meter calibration is performed annually in June. Summary results for PC15 are included in Table 3.

Table 3: PC15 Liquids and Solids Summary Table

PC 15 Actual Flows		
FY 2024-2025		
Coastal Treatment Plant		
Member Agency	Plant Flows MGD	Plant Flow Percent
CLB	1.65	58.70
EBSB	.07	2.48
SCWD	1.09	38.82
MNWD	.00	.00
Total	2.82	100.00

PC 17

PC 17 has liquid and solids contribution. The liquid flow allocation is based on influent flow to the plant. The influent flow is solely contributed by the MNWD. Due to liquid flow from CTP, the centrate flow is divided by 5 and distributed to each agency, then summed to create a total liquid flow to RTP. The flows are then distributed on a proportional basis. The solids contribution is based on the total daily average pounds contributed by each agency distributed proportionally. The meter calibration is performed annually in June. Summary results for PC17 are included in Tables 4 and 5 with significant digits to the ten thousand digits due to lower comparative flows of the centrate.

Due to the reorganization of SOCWA, effective December 12, 2025, Use Audit values were included from July 1, 2025 through December 12, 2025.

Table 4 & 5: PC 17 Liquids (Table 4) and Solids (Table 5) Summary Tables

PC 17 Liquids Regional Treatment Plant FY 2024-2025				
Member Agency	Plant Flow (MGD)	Centrate Flow (MGD)	Total Flow (MGD)	Liquid Flow (%)
CLB	.00	0.01200	0.0120	0.17%
EBS	.00	0.00000	0.0000	0.00%
SCWD	.00	0.01000	0.0100	0.14%
ETWD	.00	0.01200	0.0120	0.17%
MNWD	7.05	0.05800	7.1097	99.52%
Total	7.05	.09	7.14	100%

PC 17 Solids Regional Treatment Plant FY 2024-2025		
Agency	#/Day	%
CLB	5497.86	15.14%
ETWD	5032.43	13.85%
EBS	232.45	0.64%
MNWD	21657.76	59.62%
SCWD	3903.97	10.75%
Total	36324.47	100%

Recommended Action: The Engineering Committee recommends that the SOCWA Board of Directors approve the Use Audit calculated results for the close of the Use Audit for disbursement or collection of additional funds for FY 2024-25.

Agenda Item

5.H.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Grant, Capital Improvement Program Manager

SUBJECT: Capital Improvement Program Status Report and Construction Projects Progress and Change Order Report (October) [Project Committees 2 and 15]

The status of the SOCWA Capital Improvement Program and construction projects progress are presented in the tables on the following pages. Below are updates for the previous month for the major construction projects currently underway at SOCWA facilities, including any change orders.

J.B. Latham Treatment Plant Electrical System Upgrades

Replacement of MCC-M and Plant 1 Standby Generator

Pre-Purchasing of MCC and Plant 1 generator is underway.

J.B. Latham Treatment Plant Effluent Pump Station and Energy Building Upgrades

Replacement of effluent valves and piping; installation of monorail system, roof, safety and seismic retrofit in the Energy Building.

Construction is currently in progress.

J.B. Latham Plant 2 Headworks Rehabilitation

Plant 2 Headworks Building rehabilitation including roof, channel coating, grating, HVAC system and misc. electrical upgrades.

Construction is currently in progress

Coastal Treatment Plant Aeration Deck Grating Replacement

Improvements to the aeration deck grating, including concrete repair and grating supports

Construction is near completion, the contractor is working on punch list items.

CTP West Primary and Secondary Scum Skimming System

Replacement to the scum skimmers, launders and weirs

The pre-purchased scum skimming systems are at CTP, bidding of installation is currently in progress.

Coastal Treatment Plant Personnel Building Reconstruction

Improvements to Personnel Building including lockers, fixtures, ceilings, tiles and minor electrical

Re-bidding of Phase 2 is currently in progress.

Recommended Action: Information only.

Jul - Sep	Oct - Dec	Jan - Mar	Apr - Jun	Jul - Sep	Oct - Dec	Jan - Mar	Apr - Jun
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SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2025/2026				FY 2026/2027			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant											
3215/3252	MCC M and Plant 1 Generator Replacement	\$ 4,406,903	Pre-procurement and design underway	D	D	D	B&A	C	C	C	C
3285	Main Plant Drain Line Reconstruction	\$ 500,000	Design underway	D	D	B&A	C	C	C		
32241L	Effluent Pump Station Storage and Staging Area	\$ 250,000	Bids under review	D	B&A	C	C	C			
32226L	Effluent Pump Station Upgrades	\$ 1,877,000	Construction underway	C	C	C					
32243L	Plant 2 Headworks Rehabilitation	\$ 2,200,000	Construction underway	C	C	C					
32262L	DAF Polymer System Upgrade	\$ 741,000	Planning underway	P	P	D	D	D	B&A	C	C
3216/32225C /32225S	Energy Building Upgrades	\$ 1,955,000	Construction underway	C	C	C					
32232S	Buried Digester Gas and Flare Piping Improvements	\$ 125,000	Design underway	D	D	D	D	B&A	C	C	C
32234S	Heat Exchanger 4 Pipe Replacement	\$ 75,000	Design underway	D	D	D	D	B&A	C	C	C
32224S	Truck Loading area, MCC 2 and CF Reconstruction	\$ 3,000,000	FY 26/27					P	P	D	D
32231S	Gas Flare Replacement	\$ 2,000,000	Design underway	D	D	D	D	B&A	C	C	C
32261S	Odor Control Scrubber No. 2 Replacement	\$ 2,000,000	Planning underway	P	P	D	D	D	B&A	C	C
32262S/32264S	Dewatering System Replacement	\$ 1,056,490	Planning underway	P	P	D	D				
32263S	Buried Digester Piping Reconstruction	\$ 250,000	Design underway	D	D	D	D	B&A	C	C	C
322236S	Digester 3 and 4 Upgrades and Coating	\$ 500,000	FY 26/27	P	P	D	D	B&A	C	C	C
32252S	Cogen 60K Overhaul	\$ 400,000	Construction underway	C	C						
PC 5 - San Juan Creek Ocean Outfall											
5059	Monitoring Vault Rehabilitation	\$ 165,000	FY 26/27					P	D	D	D
PC15 - Coastal Treatment Plant											
3541A	Export Sludge Environmental Mitigation	\$ 1,392,100	Mitigation work/permitting ongoing	ENV	ENV	ENV	ENV				
35242L	Grit Baffles and Diffusers	\$ 200,000	Construction underway	B&A	C	C	C				
15820/15821	East Primary Tank Sludge Piping, Troughs and Scum Skimmers	\$ 275,000	FY 26/27					P	D	D	D
3543	Export Sludge Pipeline Replacement at RTP	\$ 400,000	Planning underway	P	D	D	D	P	D	D	D

SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2025/2026				FY 2026/2027			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
35247L	Aeration Blower System Upgrades	\$ 142,657	Preliminary design underway	P	P	D	D	B&A	C	C	C
35246L/35239L	West Primary and Secondary Sludge Skimmers and Launderers/Weirs	\$ 1,100,000	Bids under review	D	B&A	C	C				
35229L/35235L	Odor Control Scrubber/Foul Air System Reconstruction	\$ 1,650,000	Final design underway	D	D	D	B&A	C	C	C	C
3522AL	Drainage Pump Station	\$ 4,200,000	Final design underway	D	D	D	B&A	C	C	C	
3525	Personnel Building Reconstruction	\$ 471,586	Phase 1 completed, Phase 2 bidding underway	D	B&A	C	C				
35233L/35236L	Scum Pump Station and Wet well	\$ 300,000	FY 26/27					P	D	D	D
35234L	RAS/WAS Pump Station Repair	\$ 100,000	FY 26/27					P	P	D	D
35237L	Electrical Manhole/Cable Project	\$ 85,000	FY 26/27					P	P	D	D
15817	EQ Tank Liner Rehabilitation	\$ 300,000	FY 26/27					D	B&A	C	C
35248L	Access Road Repaving	\$ 950,000	Design underway	D	B&A	C	C				
35245L	Grating Replacement on Aeration/Secondary Deck	\$ 160,000	Construction near completion	B&A	C	C	C				
PC 21 - Effluent Transmission Main											
3107/3108	Air Valve Replacement	\$ 911,424	Design/permitting underway	D	ENV	ENV	B&A	C	C		
31222B	Reach B Techite Pipe Replacement	\$ 657,000									
3101/31221B	Trail Bridge Crossing	\$ 1,947,284	Planning/design underway	P	P	P	P	ENV	ENV	ENV	ENV
PC 24 - Aliso Creek Ocean Outfall											
542210	Outfall inspection, port cleaning and repairs	\$ 400,000	FY26/27					P	D	D	B&A
342220	Golf Course Road	\$ 45,000		D	D	B&A	C	C			

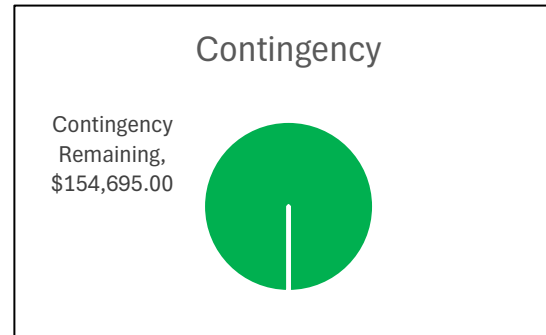
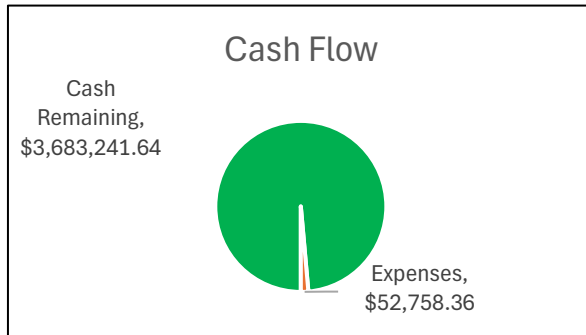
P	Planning
CA	Condition Assessment
ENV	Environmental/Permitting
D	Design
B&A	Bidding and Award
C	Construction

Project Financial Status

Project Committee	2
Project Name	Effluent Pump Station and Energy Building Upgrades
Project Description	Replacement of effluent valves and piping; installation of monorail, roof, safety upgrades and seismic retrofit in the Energy Building

Data Last Updated

October 23, 2025



Cash Flow

Collected	\$ 3,736,000.00
Expenses	\$ 52,758.36

Project Completion

Schedule	10%
Budget	1.41%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Pacific Hydrotech	21280	\$ 3,093,900.00			\$ 3,093,900.00	
Carollo Engineers	20453	\$ 119,316.00			\$ 119,316.00	\$ 23,684.40
Project Partners	21283	\$ 12,500.00			\$ 12,500.00	
SOCWA Staff Time	32226L/32225S/3216					\$ 29,073.96
		\$ 3,225,716.00	\$ -	\$ -	\$ 3,225,716.00	\$ 52,758.36

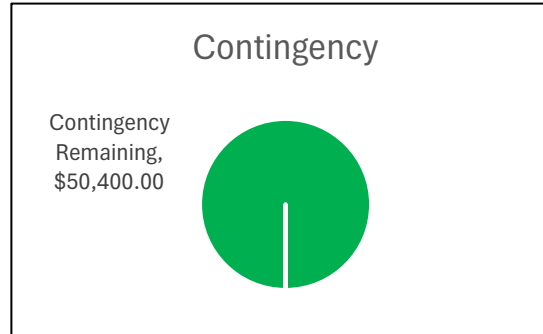
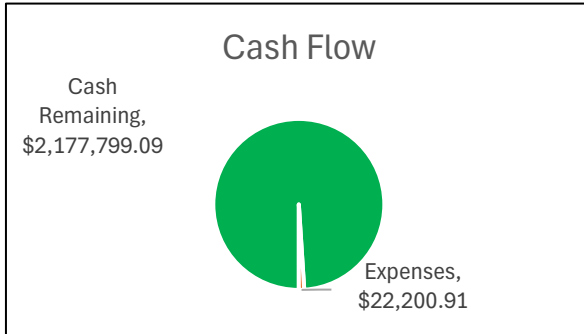
Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids/Solids/Common	32226L/32225S/3216	\$ 154,695.00		\$ 154,695.00	0.0%
		\$ 154,695.00	\$ -	\$ 154,695.00	0.0%

Project Financial Status

Project Committee	2
Project Name	Plant 2 Headworks Rehabilitation - 32243L
Project Description	Plant 2 Headworks building roof replacement, channel concrete repair and cover replacement, and electrical modification

Data Last Updated
October 23, 2025



Cash Flow

Collected	\$ 2,200,000.00
Expenses	\$ 22,200.91

Project Completion

Schedule	10%
Budget	1.01%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Pacific Hydrotech		\$ 2,149,600.00			\$ 2,149,600.00	
Dudek Engineers	20250	\$ 47,858.00			\$ 47,858.00	
Project Partners	21283	\$ 5,000.00			\$ 5,000.00	
SOCWA Staff Time	32243L					\$ 22,200.91
		\$ 2,202,458.00	\$ -	\$ -	\$ 2,202,458.00	\$ 22,200.91

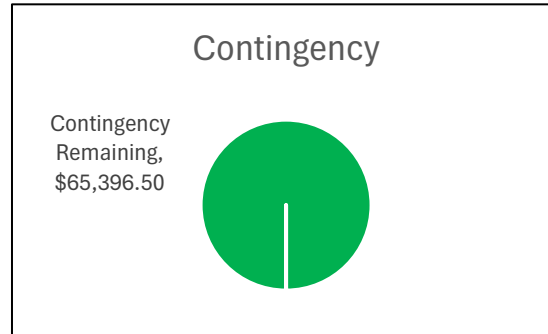
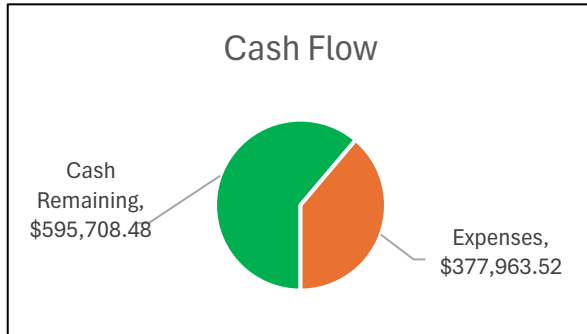
Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	32243L	\$ 50,400.00		\$ 50,400.00	0.0%
		\$ 50,400.00	\$ -	\$ 50,400.00	0.0%

Project Financial Status

Project Committee	2
Project Name	Electrical System Upgrades - 3252
Project Description	Electrical System upgrades including MCC and Plant 1 Generator

Data Last Updated
October 23, 2025



Cash Flow

Collected	\$ 973,672.00
Expenses	\$ 377,963.52

Project Completion

Schedule	40%
Budget	46%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Quinn Power	20975	\$ 414,940.00			\$ 414,940.00	\$ 264,999.15
Pacific Parts	20561	\$ 239,025.00			\$ 239,025.00	\$ 56,331.22
Hazen	14331	\$ 164,350.00			\$ 164,350.00	\$ 6,140.00
SOCWA Staff Time	3252					\$ 50,493.15
		\$ 818,315.00	\$ -	\$ -	\$ 818,315.00	\$ 377,963.52

Construction Contingency

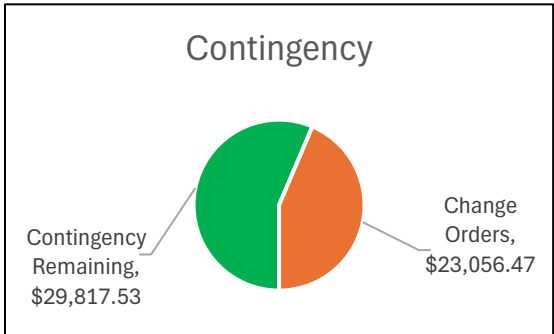
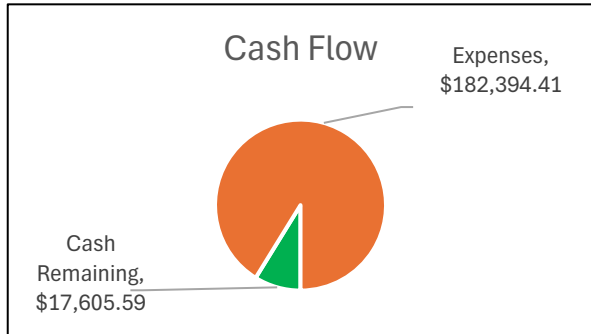
Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3252	\$ 65,396.50		\$ 65,396.50	0.0%
		\$ 65,396.50	\$ -	\$ 65,396.50	0.0%

Project Financial Status

Project Committee	15
Project Name	Grating Replacement on Aeration/Secondary Deck - 35245L
Project Description	Replacement of grating on west aeration/secondary deck

Data Last Updated

October 23, 2025



Cash Flow

Collected	\$ 200,000.00
Expenses	\$ 182,394.41

Project Completion

Schedule	95%
Budget	91%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
SS Mechanical	20588	\$ 147,126.00	\$ 23,056.47		\$ 170,182.47	\$ 161,673.35
Project Partners	20877	\$ 25,000.00			\$ 25,000.00	\$ 9,759.00
Steve Andrews	20332	\$ 2,818.00			\$ 2,818.00	\$ 483.00
SOCWA Staff Time	35245L					\$ 10,479.06
		\$ 174,944.00	\$ 23,056.47	\$ -	\$ 198,000.47	\$ 182,394.41

Construction Contingency

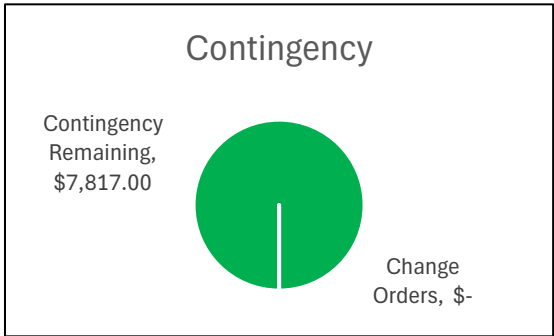
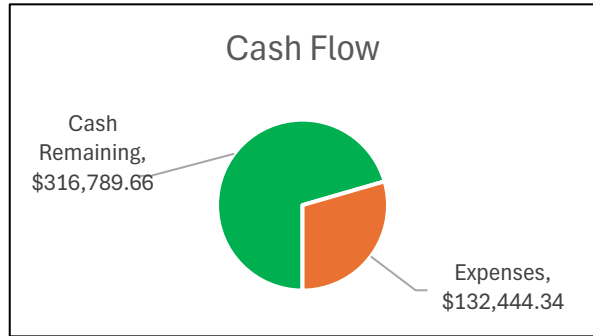
Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	35245L	\$ 52,874.00	\$ 23,056.47	\$ 29,817.53	43.6%
		\$ 52,874.00	\$ 23,056.47	\$ 29,817.53	43.6%

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
1	SS Mechanical	35245L	316L SST angle in lieu of 304L SST angle at the Step-Feed Channel	1/8/2025	94	\$ 2,235.25
2	SS Mechanical	35245L	Change Secondary effluent grating from 1-inch to 1.5"	1/31/2025	89	\$ 8,639.53
3	SS Mechanical	35245L	Removal and Replacement of Rebar without proper edge clearances	7/9/2025	90	\$ 12,181.69
						\$ 23,056.47

Project Financial Status

Data Last Updated
October 23, 2025

Project Committee	15
Project Name	Personnel Building Reconstruction - 3525
Project Description	Personnel building reconstruction including fixtures, lightings, ceiling, tiles and minor electrical



Cash Flow

Collected	\$ 449,234.00
Expenses	\$ 132,444.34

Project Completion

Schedule	100%
Budget	29%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
T.E. Roberts	20930	\$ 78,165.00			\$ 78,165.00	\$ 78,165.00
Project Partners	20877	\$ 35,000.00			\$ 35,000.00	\$ 26,633.50
SOCWA Staff Time	3525					\$ 27,645.84
		\$ 113,165.00	\$ -	\$ -	\$ 113,165.00	\$ 132,444.34

Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3525	\$ 7,817.00		\$ 7,817.00	0.0%
		\$ 7,817.00	\$ -	\$ 7,817.00	0.0%

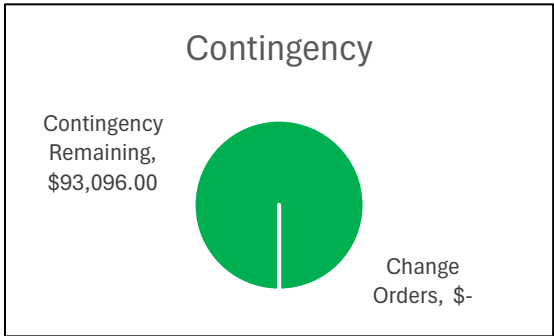
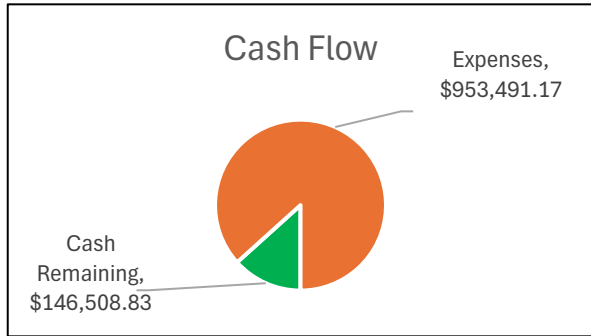
Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
						\$ -

Project Financial Status

Project Committee	15
Project Name	West Primary and Secondary Sludge Skimming System - 35246L/35239L
Project Description	Replacement of west primary and secondary sludge skimming system

Data Last Updated

October 23, 2025



Cash Flow

Collected	\$ 1,100,000.00
Expenses	\$ 953,491.17

Project Completion

Schedule	50%
Budget	87%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Brentwood	20496	\$ 930,960.00			\$ 930,960.00	\$ 930,960.00
Z&K/Ardurra	12240	\$ 12,240.00			\$ 12,240.00	\$ 11,031.00
SOCWA Staff Time	35246L/35239L					\$ 11,500.17
		\$ 943,200.00	\$ -	\$ -	\$ 943,200.00	\$ 953,491.17

Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	35246L/35239L	\$ 93,096.00	\$ -	\$ 93,096.00	0.0%
		\$ 93,096.00	\$ -	\$ 93,096.00	0.0%

Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount

Agenda Item

6.A.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: PC 15 Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Grant, Capital Improvement Program Manager

SUBJECT: CTP Facility Assessment Planning Draft Request for Proposal Review
[Project Committee 15]

Overview

SOCWA has retained Dopudja & Wells Consulting (D&W) to assist in the development of the Request for Proposal (RFP) scope of services for the J.B. Latham Treatment Plant (JBL) and Coastal Treatment Plant (CTP) Master Planning initiative.

In April 2025, D&W facilitated a kickoff meeting with SOCWA and its member agencies to outline the strategic direction and priorities for the master planning effort. The draft Request for Proposal (RFP) was distributed to the PC 15 members on June 17, 2025, for comments and feedback. The RFP review meeting was held on July 10th during the PC 2/15 joint meeting. The revised RFP was distributed on July 17, 2025 for additional comments and feedback.

Between August and October 2025, SOCWA received additional comments and strategic direction from PC 15 member agencies. In response, staff held a coordination meeting with PC 15 representatives on October 9, 2025, to further align on priorities and next steps.

Based on the feedback received, the CTP Master Plan will be structured in phases, beginning with the Facility Planning Assessment (FPA), followed by the comprehensive master planning effort. Additionally, a separate high-level technical and cost feasibility study will be initiated to evaluate potential decommissioning of the Coastal Treatment Plant (CTP) and redirection of flows.

The draft CTP FPA RFP is attached for review and comment.

Recommended Action: PC15 Board Discussion/Direction/Action.

ATTACHMENT A

BACKGROUND/GOAL/ SCOPE OF WORK

DRAFT

Conceptual Scope of Services for Coastal Treatment Plant Master Planning Effort

October 2025

Background

The South Orange County Wastewater Authority (SOCWA) is a Joint Powers Authority (JPA) responsible for providing wastewater treatment, effluent and biosolids disposal, and water recycling at regional facilities in the southern part of Orange County. The Member Agencies of SOCWA include: the City of Laguna Beach (CLB), the City of San Clemente (CSC), El Toro Water District (ETWD), Emerald Bay Service District (EBSA), Santa Margarita Water District (SMWD), and South Coast Water District (SCWD). SOCWA owns and operates wastewater treatment facilities, transmission mains, and ocean outfalls.

Recently, SOCWA has undergone reorganization impacting ownership of and participation in two critical SOCWA wastewater treatment plants, the J.B. Latham Treatment Plant (JBLTP) and the Coastal Treatment Plant (CTP). The major changes from this reorganization include the withdrawal of one of the original SOCWA Member Agencies, Moulton Niguel Water District (MNWD), from the JPA, the transfer in ownership of SOCWA's Regional Treatment Plant to MNWD, and the transfer of MNWD's capacity in the JBLTP and CTP to the other Member Agencies with capacity in those facilities. The affected SOCWA members recognize the importance of proactive, long-term master planning at both the JBLTP and CTP to support future treatment plant modernization, potential recapitalization, and sizing capacity appropriately to accommodate future uses.

SOCWA administers project responsibilities based on Member Agency participation. If a SOCWA project or facility involves less than all SOCWA's Member Agencies, the affected Member Agencies form a "Project Committee" (or "PC") that is responsible for decisions regarding the construction, operation, and maintenance of that project or facility.

The CTP is governed by CLB, EBSD, and SCWD (together, the “PC 15 Member Agencies”) and are the Participating Member Agencies of Project Committee 15 (“PC 15”). This committee shares financial and decision-making responsibility for the plant's operations and improvements.

Following recent reorganization and reassignment of MNWD’s capacity at the CTP to the remaining PC 15 Member Agencies, SOCWA is working in collaboration with the PC 15 Member Agencies in seeking to retain a qualified firm to conduct a comprehensive Facility Planning Assessment (FPA) for the CTP. The primary objective of the FPA will be to prepare a comprehensive analysis of potential treatment facility improvement alternatives that will optimize long-term treatment and beneficial reuse opportunities for PC 15 Member Agencies based on their collective anticipated and projected wastewater flows, reuse objectives, regulatory considerations, and addressing site specific challenges unique to the CTP.

Coastal Treatment Plant

The CTP is located within the Aliso and Woods Canyon Wilderness Park, between the Cities of Laguna Niguel and Laguna Beach, was established in 1983, and treats an average of 3.2 million gallons per day (MGD) of wastewater, with a capacity of 6.7 MGD. It serves communities including the CLB, EBSD, and SCWD.

The treatment plant uses a conventional activated sludge process including screening, grit removal, clarification, and biological treatment. Treated effluent from the treatment plant is partially used for Title 22 recycled water reuse with the remainder discharged into the ocean via the Aliso Creek Ocean Outfall. Figure A provides an overview schematic of the CTP and corresponding treatment processes. The outfall is located approximately 1.5 miles offshore from Aliso Beach in Laguna Beach, California. Primary sludge and thickened waste activated sludge from the treatment plant are pumped through a force main to Moulton Niguel Water District’s Regional Treatment Plant (RTP) for solids treatment and disposal under contract with the PC 15 Member Agencies. The CTP also produces Title 22 recycled water for non-potable purposes through the Advanced Water Treatment (AWT) facility located within the CTP. Also located within the CTP is the Aliso Creek Water Reclamation Facility (ACWRF), which uses advanced treatment (ultrafiltration and reverse osmosis) treat Title 22 recycled water from the AWT for salinity management and to treat harvested water from Aliso Creek when available under specific permit conditions. Currently, the ACWRF is unable to access water from Aliso Creek due to limited flows in the creek and permit/operational restrictions. The product water from both the AWT and

ACWRF facilities meet Title 22 standards and is blended and distributed for non-potable landscape irrigation uses.

Recent upgrades to the CTP include new energy-efficient aeration systems, electrical improvements, and enhanced safety features. The plant also emphasizes environmental stewardship, operating near protected wilderness areas and adhering to strict pollution prevention standards.

The CTP Treatment process generally includes:

- Screening
- Grit Removal
- Primary Clarification
- Secondary Treatment
- Secondary Clarification
- Thickening

The CTP also includes advanced treatment through the AWT and ACWRF to treat Title 22 recycled water.

Overall Master Planning Goals

The CTP master planning effort has multiple goals, including but not limited to:

- Conducting a phased facility master planning effort to identify potential treatment facility improvement alternatives that will optimize long-term treatment and beneficial reuse opportunities for the CTP.
- Completing a 30-year base capacity utilization and peaking analyses for the CTP based upon current and forecast flows, loads and flow characteristics (peaking), and other future potential uses of the CTP.
- Performing high-level process-by-process assessments to determine existing available capacity, general asset condition, available useful life remaining, and to support assessment of future infrastructure opportunities and capacity right-sizing options.
- Identifying treatment alternatives that ensure facility resiliency and reliability and manage risks related to variations in flows and loading, flooding, regulatory changes and other operational uncertainties.
- Evaluating potential biosolids treatment technologies, if deemed feasible and cost-effective, to achieve Class B solids or as needed based on future regulatory outlook.
- Developing an effluent utilization strategy to evaluate and determine the most effective future uses of the treated wastewater and Title 22 recycled water produced at the plant

- Evaluate opportunities for future water reuse initiatives, including potential regional partnerships for indirect or direct potable reuse to further reduce ocean discharge and enhance local water supply reliability.
- Identifying project alternatives that reduce energy consumption, improve resource recovery and enhance environmental sustainability.
- Determining long-term regulatory compliance and permitting needs and assessing readiness to meet them.

Conceptual Scope of Services: Facility Planning Assessment

The treatment plant master planning effort for the CTP will be completed in two phases. The services requested under this engagement are for Phase 1 only. Phase 2 is not part of this request for services and is only provided for reference. A summary of each phase is provided below:

- Phase 1: Facility Planning Assessment (this effort) - will focus on identifying and evaluating a range of project alternatives to address current and future needs for the CTP. This phase will include technical assessments and regulatory considerations to ensure viable and cost-effective solutions for further consideration in Phase 2.
- Phase 2: Facility Master Plan (future effort) - will build upon the findings of Phase 1 to develop the comprehensive facility master plan for the CTP, outlining recommended improvements, and implementation strategies for future facility upgrades and improvements. If a consultant is successfully selected for Phase 1, they would not be precluded from participating in the future Phase 2: Facility Master Plan effort.

The following should be considered a preliminary scope of services for the Facility Planning Assessment (FPA) under Phase 1. Proposals may include modifications to this scope of services that the firm deems desirable or necessary based upon experience and expertise.

The project scope of work is separated into the following tasks supported by subtasks as outlined below.

1 Project Management

1.1 Project Control Plan

A Project Control Plan (PCP) will be developed by the Consultant to establish clear project management procedures and strategies so that the Consultant and PC 15 Member Agencies are unified in understanding of expectations, roles, and responsibilities. FPA tasks, assignments, and project communications will be documented to provide for the efficient execution of the planning process and to help achieve quality assurance throughout the entire FPA process. The PCP should include decision-making processes, establish planning and design criteria, basis for project cost estimates, coordination needs with concurrent projects, coordination with SOCWA and the PC 15 Member Agencies, summarize FPA goals and objectives, meetings, workshops, Board presentations, deliverables, and include an overall project schedule with key milestones.

As part of the PCP, the Consultant shall prepare a comprehensive Table of Contents for the FPA Report, outlining each proposed chapter, section, and subheadings of the report. The Consultant shall develop chapters throughout the FPA process and submit each chapter according to their proposed deliverable schedule.

1.2 Project Meetings and Communications

The kick-off meeting will assist in refining the initial vision and objectives developed for the FPA. This includes identifying what the plan is to accomplish, summarizing FPA drivers (e.g. regulatory, policy, strategic initiatives, growth, aging infrastructure, optimization, sustainability, solids handling, etc.), what information it will provide, and how the FPA will be used in subsequent implementation steps.

The Consultant will need to facilitate collaboration, effective communication, open discussion, and constructive interaction among all members of the FPA team. Prepare for and conduct kick-off and progress meetings, conference call updates, and strategically scheduled workshops with SOCWA staff, the PC 15 Member Agencies, and the Board of Directors.

The Consultant shall provide progress reports that include project updates, schedules, and track percent completed by task. The Consultant should assume one (1) kick-off meeting and twelve (12) monthly progress meetings.

The Consultant shall hold and describe in its proposal meetings, workshops, and Board presentations undertaken throughout the FPA process to keep SOCWA and the PC 15 Member Agencies apprised of the work efforts, review work-in-progress, share information, discuss submittals, present findings, receive feedback, and obtain decisions and direction. The Consultant shall include five (5) staff workshops and three (3) Board presentations to present findings based on project milestones outlined in the Tasks below.

In addition to internal coordination with SOCWA and the PC 15 Member Agencies, the Consultant will also need to support two (2) external community engagement events. These events are anticipated to occur at the initiation of the FPA process, and subsequently when the Draft FPA is completed and publicly available. Support for the community engagement events shall include attending two (2) in-person committee meetings at a location selected by the PC 15 members in the vicinity of the CTP, providing technical assistance and requested support for the development of presentation materials, and providing up to eight (8) hours of preparation support. Consultant is not expected to schedule or lead the community event meetings.

2 Existing Facilities Evaluation

2.1 Description of Existing Facilities

Develop descriptions, supporting figures, and tables for the existing wastewater treatment and solids handling and ancillary facilities for the plant. The description will include design criteria, unit sizing, and both hydraulic and process capacities. Provide updated plant layouts, hydraulic profiles, mass balance schematics, and piping and instrumentation diagrams (P & IDs) as necessary for comprehensive alternatives development and analysis.

2.2 Review Existing Reports and Models

Conduct comprehensive review of existing planning documents, master plans, design documents, plant operating data, condition assessment reports, and other pertinent studies necessary for the FPA. This review aims to assess the relevancy and applicability of each report and how they may affect the master planning of future facilities. Review previously developed treatment process and hydraulic models necessary for the completion of the FPA tasks. Summarize the relevance of each major past report/model to the master planning process and confirm the

proposed improvements and estimated costs where capital improvements were recommended in reports. The FPA team will review and provide input and comments on these draft documents, as necessary, before they are finalized. Existing documents to be reviewed may include, but are not limited to, the following reports provided by SOCWA.

Coastal Treatment Plant Facility Planning Studies

- 2022: Consequence of failure analysis by Dudek
- 2021: Future Alternative Feasibility Study by Hazen
- 2019: MBR and blower evaluation by Hazen
- 2019: Blower alternatives evaluation by Hazen
- 2013: Facility plan by CH2MHill
- 2008: RAS upgrades study by Carollo
- 2008: Aeration blower capacity analysis by Carollo
- 2000: Aeration system preliminary design by HDR

The link to access the reports is located here:

SOCWA INSERT LINK

The Consultant may also request copies of the 2025 SOCWA reorganization and capacity assignment agreements referred to in the Background section of this document.

2.3 Flow and Loading Analysis

2.3.1 Historical Wastewater Flows and Loading

The Consultant will review, evaluate, and summarize historical wastewater flows, pollutants and other load characteristics, and loading for the purpose of projecting wastewater flows and loads and evaluating treatment plant capacities. Identify any data gaps, incomplete or inconsistent data, and its impact on projections. Flows, loads, and associated peaking factors will be evaluated on average dry weather, average day, maximum month, and peak hourly basis, along with consideration of peak wet-weather flows. Diurnal and seasonal variability in flow will also need to be considered, as needed, for evaluating process capacities, assessing master plan alternatives, and optimizing existing facilities. The Consultant shall review and summarize past data and reports related to receiving water characteristics.

2.3.2 Projected Wastewater Flows and Loads

The FPA effort will establish and summarize wastewater flow and load projections (average dry weather, average day annual, average day maximum month, and peak hourly, and consideration of peak wet-weather flows) for the planning horizon (30 years) and build-out conditions considering future population projections, per capita wastewater flow rate, and loads, historical flows and loads trending, current and projected trends in water consumption and water conservation, current and projected trends in inflow and infiltration (I/I). The Consultant shall coordinate and obtain flow projections from SOCWA and the Member Agencies.

2.4 Existing Facilities Analysis

2.4.1 Establish Planning and Design Criteria

Determine planning and design criteria to evaluate the capacity of existing facilities. Criteria shall consider original design criteria, the Consultant's experience with similar facilities, SOCWA operational and maintenance experiences, reliability information from other similar types of treatment plants, and from pertinent engineering and industry practices.

The Consultant will review original design and sizing criteria, past reports, historical operations and flow data, and current operational strategies for each treatment plant process. Assess the hydraulic and process capacities of each treatment plant process by evaluating hydraulic and process loadings, the historical performance of each process, and considering the established design criteria.

The Consultant will review and assess Level of Service (LOS) and corresponding evaluative criteria to identify any potential recommendations for SOCWA and the PC 15 Member Agencies consideration. Any revisions to the LOS and related evaluative criteria shall be finalized and agreed to by SOCWA and the PC 15 Member Agencies prior to evaluation of the proposed project alternatives under Task 3.

2.4.2 Hydraulic Capacity Evaluation

Review and update SOCWA's current hydraulic capacity model for all major unit processes. This effort should be a high-level assessment and update to support appropriate alternative analysis. Provide an updated hydraulic profile and evaluate hydraulic capacity throughout the treatment plant to identify potential hydraulic capacity limitations and assess capacity requirements from changes in average dry weather, average day annual, average day maximum month, and peak hourly flows.

The hydraulic model shall be provided to SOCWA at the end of the FPA, including all rights to own and use the model developed under the FPA effort.

2.4.3 Process Model Configuration

Review and update SOCWA's current process loading model for all major unit processes. This effort should be a high-level assessment and update to support appropriate alternatives analysis. Perform any additional configuration and/or calibration required to model future treatment plant alternatives and evaluate existing process capacities. The process model shall be provided to SOCWA at the end of the FPA, including all rights to own and use the model developed under the FPA effort.

2.5 Condition Assessment of Major Unit Processes

The Consultant shall conduct an onsite high-level visual condition assessment of the CTP/AWT/ACWRF major unit processes, both operating and non-operating, focusing on the structural, process, electrical, instrumentation, and mechanical aspects of each process. The objective is to evaluate the current condition and estimate the remaining useful service life of critical equipment and processes that are expected to remain in service as part of the proposed treatment alternatives developed in Task 3.

SOCWA has completed previous conditional assessment studies, which the Consultant shall review and incorporate, where feasible, into the development of the assessment plan, analysis, and recommendations. The Consultant should prioritize assets and major treatment processes based on criticality and condition to determine useful life and feasibility of continued use of assets going forward. In addition, the Consultant shall determine if advanced performance testing, predictive analysis, or specialized evaluation methods beyond visual inspection would be required to more accurately determine the life expectancy of some of the assets. Information regarding the need for specialized evaluation methods or assessments beyond visual inspection should be provided to SOCWA and the PC 15 Member Agencies for further consideration.

3 Wastewater Treatment Alternatives

3.1 Identify and Develop Treatment Alternatives

3.1.1 Liquid Treatment Alternatives

Prior to developing liquid treatment alternatives, the Consultant shall establish a baseline scenario based on the current plant configuration. The baseline scenario shall assess the existing liquid treatment processes under current and projected flows and loading and include recommended process and capacity optimization. The baseline scenario shall be used as a basis for comparison to other liquid treatment alternatives.

The Consultant shall identify and summarize candidate liquids treatment alternative technologies to meet anticipated regulatory requirements, existing and projected flows and loads (including water conservation impacts), cost and level of service criteria, asset management, performance, and operational efficiency requirements. Liquid treatment alternatives should consider equalization, preliminary, secondary, tertiary, and disinfection treatment processes, as well as effluent discharge and other plant hydraulic and pumping processes and facilities. The Consultant shall consider potential related impacts on other processes, such as potential future solids treatment alternatives. Consideration of future regulatory changes under Task 3.2 should be evaluated to determine the best treatment technologies.

The Consultant shall assess various liquid treatment technologies to establish a range of conceptual treatment alternatives in developing a recommended future liquid treatment strategy. Evaluate, rank and select up to four (4) liquid treatment project alternatives for SOCWA's and the PC 15 Member Agencies' consideration.

3.1.2 Solids Treatment and Disposal Alternatives

The CTP currently sends primary and thickened waste activated sludge to the MNWD's RTP via a force main and pumpstation system for treatment and disposal.

The Consultant shall review and assess potential alternatives and if deemed feasible and cost-effective at CTP, identify candidate solids treatment technologies and disposal alternatives to meet anticipated regulatory requirements, loading, cost and level of service criteria, disposal requirements, asset management, performance, and operational efficiency requirements. Project alternatives shall be

compared to the current practice of sending solids to the RTP, and shall consider facilities and costs, assess energy impacts, and air emissions compliance requirements for each proposed technology. The Consultant shall consider potential related impacts on other processes, such as liquid treatment.

If deemed feasible at CTP, solids treatment and disposal alternatives should consider thickening, stabilization, dewatering, and storage processes, as well as other solids handling processes and facilities. Consideration of future regulatory changes in digester gas handling and recovery, biosolids management and disposal under Task 3.2 should be evaluated to determine the best treatment technologies, regardless of location where solids treatment and disposal occurs.

The Consultant shall compare the various solids treatment technologies to consider and assess a range of conceptual treatment alternatives in developing a recommended future solids treatment strategy. Evaluate, rank and select up to four (4) solids treatment project alternatives for SOCWA's and the PC 15 Member agencies' consideration.

3.1.3 Evaluate Electrical Distribution, Instrumentation, and Control Systems

For each proposed treatment alternative, the Consultant shall perform a high-level assessment of recommended improvements to the wastewater plants current electrical distribution (onsite and offsite), instrumentation, and control (PLCs, SCADA, etc.) systems. Assess normal and standby/backup power supply systems and identify strategies to improve reliability.

3.1.4 Evaluate Energy Recovery Facilities

The CTP currently sends solids to the RTP for treatment and disposal and does not have digester gas or other energy recovery facilities. In conjunction with the evaluation of solids treatment and disposal alternatives under Section 3.1.2, the consultant shall provide a high-level review and assessment of potential alternatives and if deemed feasible at CTP, identify candidate energy recovery technologies and recommend facility improvements and associated agreements. If deemed feasible and cost-effective at CTP, recommend energy recovery improvements as part of the proposed FPA project alternatives.

3.1.5 Support Processes and Facilities

For the top-ranked liquid and solids treatment technologies and corresponding project alternatives, the Consultant shall prepare site layouts showing the general

and ancillary support processes and facilities required. Layouts should include the extent of each project alternative, major utility corridors, process piping, support buildings, odor control, major ancillary support processes and facilities, electrical systems, roadways, security, access requirements, etc.

3.1.6 Site Planning Evaluation

Review and summarize previous site plans and evaluate future considerations based on each of the liquid and solids project alternatives. Include costs associated with site configuration adjustments and potential additional land needs based on the proposed treatment alternatives.

3.2 Risk and Resilience Planning Elements

The Consultant shall evaluate the following elements as part of the proposed project alternatives to assess uncertain future conditions regarding operational disruptions, and uncertain regulatory outlook. The following planning elements shall be evaluated and assessed over the 30-year planning period to determine potential impact. The Consultant shall consider these elements as they identify and develop the project alternatives.

3.2.1 Resilience Adaptation Planning

Provide a high-level planning assessment of the potential impacts on the wastewater treatment plant site and operations resulting from items such as extreme wet weather events and flooding, wildfires, ocean level rise, and excessive influent flow peaking from inflow and infiltration (I&I) caused by heavy and prolonged precipitation.

3.2.2 Vulnerability Planning

Assess vulnerabilities with the wastewater treatment plant and provide recommendations for improving SOCWA's resiliency from potential operational disruptions. Vulnerabilities include lack of replacement parts for aged assets, prolonged or frequent power outages from wildfires or other power grid disruptions, and other material vulnerabilities identified by the consultant team.

3.2.3 Evaluate Regulatory Scenarios

Review and assess SOCWA's operating and discharge permits with pertinent regional, federal, and state regulatory requirements governing the treatment and discharge of wastewater to the Pacific Ocean, and Title 22 recycled water reuse. In

addition, review solids treatment and disposal regulations, and applicable air quality and emission regulations.

Identify, prioritize, and summarize applicable new and emerging regulatory issues and develop regulatory compliance strategies that encompass the potential future regulatory outlook for SOCWA. Evaluate the proposed regulatory compliance strategy against each project alternative and identify its ability to achieve compliance or determine required improvements for achieving future compliance.

4 Recycled Water Facilities and Effluent Utilization Evaluation

In addition to performing the liquid and solids treatment assessments under Task 3, the Consultant shall conduct an evaluation of recycled water operations and opportunities at the CTP including the existing operations of the plant's Title 22 Advanced Water Treatment (AWT) facilities, and the integrated operation of the Aliso Creek Water Reclamation Facility (ACWRF). The ACWRF uses advanced treatment (ultrafiltration and reverse osmosis) to treat Title 22 recycled water from the AWT for salinity management and to treat harvested water from Aliso Creek when available under specific permit conditions. Currently, the ACWRF is unable to access water from Aliso Creek due to limited flows in the creek and permit/operational restrictions.

To create a baseline scenario, the Consultant shall conduct a review of existing reports, facility data, and operational trends at the CTP, the AWT and the ACWRF and assess improvements necessary to maintain SOCWA's current and projected uses of recycled water and to evaluate the performance of the existing recycled water infrastructure. The analysis shall also address potential changes in water quality (e.g., increasing salinity), regulatory changes, and identify capital improvements required for continued use of the recycled water facilities to comply with current commitments and future recycled water demands. This includes recommending strategies and improvements necessary to address potential impacts as part of the FPA project alternatives.

The Consultant shall also conduct an analysis of effluent utilization on beneficial reuse alternatives to increase recycled water utilization and reduce or eliminate ocean discharge. Reuse options shall include indirect potable reuse (IPR) and direct

potable reuse (DPR) alternatives, including enhancements needed to the AWT and/or ACWRF systems. The assessment shall include technical feasibility, regulatory requirements, environmental impacts, and cost-effectiveness of each alternative considering existing plant operations, applicable regulations, potential treatment plant, AWT and ACWRF infrastructure needs, and lifecycle cost analysis. A multi-criteria decision matrix shall be developed to compare alternatives to the current baseline scenario.

This task is intended to inform SOCWA's long-term planning by identifying additional options for optimizing the use of treated effluent in support of local and regional reuse interests and initiatives. The task will include evaluating, ranking and recommending up to two (2) water recycling options for SOCWA's consideration.

The Consultant shall primarily focus the effluent utilization feasibility assessment on improvements that would be needed at the wastewater treatment plant, the AWT and the ACWRF. Consideration of future recycled water regulatory changes should also be evaluated to determine the best treatment technologies under Task 3. To inform the alternatives analysis where appropriate, the Consultant shall conduct a high-level cursory assessment of potential offsite treated effluent uses, needed off-site infrastructure improvements and other considerations related to each recycling option. The offsite assessment is intended to support early-stage decision-making and does not include detailed design engineering.

Recommendations and findings from this task will inform and be integrated into the FPA project alternatives, ensuring that recycled water remains a viable and optimized resource for SOCWA and the PC 15 Member Agencies.

5 Develop Project Alternatives

The Consultant shall develop a range of proposed future project alternatives for the CTP based on the findings from Task 3 and Task 4. Summarize immediate and future needs of the treatment plant by comparing current and projected wastewater flows and loadings with the capacity of the existing facilities on a process-by-process basis (liquids, solids, digester gas, energy, and other processes as appropriate). Consider related drivers such as risk and resilience elements, potential impact from regulatory requirements, treatment technologies, capacity needs, peaking, process optimization, operational performance, and the condition of existing assets as part of each project alternative.

5.1 Identify Proposed Project Alternatives

Evaluate and rank project alternative using the LOS standards for treatment plant performance and evaluative criteria finalized with SOCWA and the PC 15 Member Agencies as part of Task 2.4.1. All project alternatives must meet the basic LOS standards for treatment plant performance established by SOCWA and the PC 15 Member Agencies. For each alternative, perform a sensitivity analysis using the agreed to evaluative criteria to help test the effectiveness and resilience of project alternatives, and to rate and rank each project alternative. The Consultant shall also utilize key economic, social and environmental evaluative criteria to perform a triple bottom line analysis as part of the overall comparison of FPA project alternatives.

Evaluate, rank and propose up to four (4) combined project alternatives for SOCWA's and the PC 15 Member Agencies' consideration. Prepare planning level facility descriptions, layouts, site plans, cost estimates, and preliminary design criteria for each proposed project alternative. The Consultant shall conduct a staff workshop and Board presentation to present the proposed treatment alternatives.

6 Prepare Facility Planning Assessment Report and Documents

Prepare the required deliverables and technical memorandums (TMs) throughout the FPA master planning process as outlined in Task 6.1. Organize and provide the documents based on the Consultant's deliverable schedule developed as part of the PCP in Task 1. Summarize the major findings, recommendations, and conclusions into a comprehensive FPA report with an executive summary of the final recommendations.

6.1 List of Deliverables

The Consultant shall prepare the following deliverables under Phase 1, including but not limited to the following list, based upon the Consultants' experience and expertise in master planning processes.

<u>Task No.</u>	<u>Task Description</u>	<u>Deliverable</u>
1	Project Management	Project Control Plan with schedule of workshops and Board presentations.
1	Project Management	Facility Planning Assessment (FPA) Table of Contents and corresponding schedule of deliverables
1	Project Management	Monthly progress reports
2	Existing Facilities Evaluation	Conditional Assessment Report
2	Existing Facilities Evaluation	Process Flow Diagram for Liquid and Solids
2	Existing Facilities Evaluation	Hydraulic model output files
2	Existing Facilities Evaluation	Hydraulic profile
2	Existing Facilities Evaluation	Process model output files
2	Existing Facilities Evaluation	Task 2 technical summary of findings. Material to be incorporated with the corresponding Chapter of the FPA Report.
3	Wastewater Treatment Alternatives	Task 3 technical summary of findings and project alternatives. Material to be incorporated with the corresponding Chapter of the FPA report.
4	Recycled Water Facilities and Effluent Utilization Evaluation	Task 4 technical summary of findings. Material to be incorporated with the corresponding Chapter of the FPA report.
5	Develop Project Alternatives	Project alternative evaluation matrix
5	Develop Project Alternatives	Task 5 technical summary of findings of proposed treatment alternatives and corresponding project alternatives. Material to be incorporated with the corresponding Chapter of the FPA Report.
6	Prepare Facility Planning Assessment Report	Administrative Draft, Draft, and Final version of each Chapter included in the Facility Planning Assessment Report. Each Chapter shall be developed and submitted according to the deliverable schedule under Task 1.
6	Prepare Facility Planning Assessment Report	Administrative Draft, Draft, and Final versions of the Facility Planning Assessment Report with Exhibits.
6	Prepare Facility Planning Assessment Report	Administrative Draft, Draft, and Final versions of the Executive Summary that succinctly presents key findings, conclusions, and recommendations.

7 Anticipated Scope of Services for Phase 2 (future phase and for reference only)

As previously indicated, the treatment plant master planning effort for the CTP will be completed in two phases. The services requested under this engagement is for Phase 1. Phase 2 is not part of this request for services, and the following anticipated scope of services is only provided for reference. The intent of pursuing Phase 1 prior to Phase 2 is to allow for a comprehensive analysis of potential treatment facility improvement alternatives

that will optimize long-term treatment and beneficial reuse opportunities prior to completing a detailed Facility Master Plan and corresponding Capital Improvement Plan.

Phase 2: Facility Master Plan (future effort) - will build upon the findings of Phase 1 to develop the comprehensive Facility Master Plan for the CTP, outlining recommended improvements, and implementation strategies for future facility upgrades and improvements.

The following conceptual scope of services should be considered preliminary and for reference only for the Facility Master Plan (FMP) under Phase 2.

- Project Management and Communications
- Review and validate Existing Facility Needs
- Review and validate Existing and Projected flows and loadings
- Developing a Repair and Replacement (R&R) Program and Costs
- Evaluate site specific requirements for recommended project alternative under Phase 1
- Perform risk and resilience planning related to climate change, wildfire and other site-specific threats.
- Develop Recommended Master Plan Program
- Develop Capital Improvement Plan
- Identify Funding Opportunities
- Developing an Environmental Compliance Strategy
- Prepare Facility Master Plan Report
- Prepare detailed capital improvement and project summary sheets.

END

Agenda Item

6.B.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: PC 15 Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Grant, Capital Improvement Program Manager
Jim Burror, Deputy General Manager/Chief Engineer

SUBJECT: CTP Regional Flow Study Scope of Work [Project Committee 15]

Overview

As part of the CTP master planning effort, SOCWA staff have been working with the PC 15 member agencies to finalize a Facilities Master Plan. An offshoot of that process led to the need for a supplemental study to evaluate several region-wide flow routing options, which will be incorporated into the larger CTP Facilities Master Plan.

The supplemental work effort will include assessing the technical feasibility and costs for the following regional-wide flow options:

- Redirecting flows to OCSAN and decommissioning all, or a part of, CTP
- Redirecting flows to JBL (PC2) and decommissioning all, or a part of, CTP
- Redirecting CLB's secondary effluent flows discharged to the ocean to RTP for reclamation (MNWD)
- Maintaining flows at CTP (summarizing the planned NCI CIP investments)

The current scope of work was distributed to the member agencies on October 10th for feedback and is attached for further review, discussion, and potential action.

Recommended Action: PC15 Board Discussion/Direction/Action.

CTP Regional Flow Study Scope of Work

1. Project Overview

This Scope of Work (SOW) outlines the professional engineering services required to conduct a high-level evaluation of the technical feasibility and associated costs for potential redistribution of all or portions of wastewater and/or recycled water that currently are treated at the SOCWA Coastal Treatment Plant (CTP), along with any associated right sizing of existing infrastructure. Currently incoming wastewater flows at the CTP are collected from the City of Laguna Beach (CLB), South Coast Water District (SCWD), and Emerald Bay Service District (EBSD), then treated to both secondary levels for ocean discharge and Title 22 quality irrigation used by SCWD. Options for redistribution of wastewater flows and/or recycled water to alternative facilities, include the Orange County Sanitation District (OCSAN), Regional Treatment Plant (RTP), and JB Latham Treatment Plant (JBL). The evaluation will incorporate key considerations including, but not limited to existing CTP assets, current and future wastewater treatment needs, current and future agency recycled water demands and reuse objectives, and existing and planned major conveyance infrastructure such as the SCWD Tunnel Stabilization & Sewer Pipeline Replacement Project, pumping and force main facilities, and future planned improvements of the North Coast Interceptor (NCI).

The primary objectives of this SOW are to:

- Assess the technical viability of flow redistribution at a conceptual level, identifying major opportunities, constraints, and risks.
- Estimate high-level costs for redistribution of wastewater and/or recycled water flows entering CTP for each alternative to be considered
- Potential related rightsizing, infrastructure modifications, and operational transitions, resulting from redistribution alternatives considered
- Integrate regional considerations to ensure alignment with ongoing projects, water resource management goals, and funding strategies.
- Provide actionable recommendations to guide decision-making and potential detailed future studies.

This SOW focuses on a high-level analysis and does not include detailed design, permitting, or implementation. It assumes access to relevant data from the Client, Member Agencies, and stakeholders, including flow records, infrastructure maps, and stakeholder inputs. Compliance with regulations such as the Clean Water Act, California Coastal Act, and the California Environmental Quality Act (CEQA) will be considered at a preliminary level.

2. Scope of Services

The Firm shall perform the following tasks in accordance with professional standards from the American Society of Civil Engineers (ASCE) and relevant regulatory guidelines. Services are divided into phases for structured execution.

Project Element 1: Project Initiation and Data Collection

- Gather and review existing documentation, including CTP operational data, flow diagrams, as-built drawings, permits, and historical records.
- Collect information on current flows from CLB, SCWD, and EBSD, including volumes, quality parameters, and seasonal variations.
- Obtain details on recipient facilities (OCSAN, RTP, JBL), such as capacity, treatment capabilities, and integration requirements.
- Review regional projects and data, including, but not limited to:
 - SCWD Tunnel Stabilization & Sewer Pipeline Replacement Project documentation (e.g., tunnel enlargement and new pipeline, pump station, and agency intertie installation in the Laguna Beach area).
 - Recycled water demand projections for South Orange County (e.g., local agency reports indicating X% of demand met by recycled water).
- Funding planning records for the North Coast Interceptor (NCI), a key conveyance pipeline operated by CLB.
- Conduct virtual or in-person interviews with stakeholders from CLB, SCWD, EBSD, OCSAN, RTP, JBL, and relevant agencies (e.g., OCWD, SOCWA) to gather insights.
- Potential community and business impacts from OCSAN non-point source control program (qualitative listing of the requirements only), including, but not limited to, dry weather diversions, chemicals of reasonable concern used by business, etc.

Deliverables: A listing of all attained resources and a copy of all received electronic and paper files.

Project Element 2: Technical Feasibility Assessment

Evaluate the high-level feasibility of either right sizing CTP, or portions of the CTP and redistributing and/or redirecting all or portions of flows, with a focus on technical, operational, and environmental aspects. Assessments will include:

1. Wastewater Flows from City of Laguna Beach (CLB) and Emerald Bay Services District:
 - a. Assess redirection options to sending raw sewage to OCSAN, considering NCI's role as the primary conveyance system, sending raw sewage or secondary to JBL, and secondary effluent flows from CTP to RTP.
 - b. Evaluate integration with CLB's NCI funding and maintenance strategies, including potential cost-sharing for upgrades.
 - c. Evaluate integration with EBSD's facilities, as well as EBSD contributions in the NCI cost-sharing for upgrades.
 - d. Maintain the flow allocation percentages between CLB and EBSB for allocating costs under Project Element 3
2. Wastewater Flows from South Coast Water District (SCWD):
 - a. Analyze compatibility with the recently completed SCWD Tunnel Stabilization & Sewer Pipeline Replacement Project, assessing how tunnel improvements (e.g., enlarged structure and 24-inch pipeline) could facilitate or constrain redirections.
 - b. Identify synergies, conflicts, and additional facility requirements (pumping capacity, pipelines, etc.) for SCWD's to 1) convey raw sewage from CTP to

OCSAN, 2) convey raw sewage or secondary from CTP to JBL, and 3) convey surplus secondary effluent to RTP. These options must also include any additional facilities, agreements, etc. to maintain recycled water services within the SCWD service area.

3. Recycled Water Flows used by South Coast Water District (SCWD):

- c. Assess opportunity to continue production of Title 22 Recycled Water at CTP for distribution within SCWD's existing recycled water system.
- d. Assess opportunity to redistribute wastewater flows for Title 22 recycled water production at alternative treatment sites.
- e. Assess options to utilize alternative available recycled water sources for incorporation into SCWD's Title 22 distribution system.

Overall feasibility analysis will cover:

- Hydraulic assessment at a conceptual level to simulate redirection scenarios.
- Infrastructure needs, such as pipeline extensions, lift station upgrades, pump upgrades, or metering.
- Environmental and regulatory considerations, including water quality compliance and effects on SCWD's recycled water production (e.g., maintaining supplies for irrigation in parks, golf courses, and green belts to meet X% of South County demands).
- Risk identification, such as system disruptions during transition or climate-related vulnerabilities.
- A listing/description of potential limitations to future projects including, but not limited to, for each option:
 - a. Permits
 - b. New property needs
 - c. Maintenance access concerns limitations (i.e., maintenance access in PCH, city traffic islands, heavy traffic intersections, etc.)
 - d. Other local agency limitations/restrictions (i.e., moratoriums on street construction, limited hours for construction/maintenance access (i.e. PCH may be night only and/or outside the summer months), local agency requirements for additional paving outside the trench zone, local business signage and outreach requirements during construction, bikeway impact restrictions, etc.)

Project Element 3: Cost Evaluation

- Develop high-level cost estimates for key components, including:
 - a. CTP redistribution and/or decommissioning (e.g., shutdown, site remediation, asset disposition).
 - b. Flow redistribution/redirection infrastructure (e.g., pipelines, pumps, controls).
 - c. Operational transitions and monitoring.
 - d. Incorporate cost implications of considerations:
 - e. Potential cost savings from utilizing SCWD's tunnel project investments to reduce redirection costs.
 - f. Potential savings or offsets from enhanced recycled water utilization in South County.

- g. Funding contributions from CLB and EBSD for NCI enhancements, drawing from city budgets or loans (e.g., historical allocations for NCI replacement phases).
- h. Use industry benchmarks and parametric estimating methods for accuracy at this level.
- i. Perform sensitivity analysis on variables like material costs, labor, and contingencies.
- j. A listing only or other considerations including, but not limited to, environmental mitigations, supplement fees/charges (i.e. OCSAN annexation fees), LAFCO processes (annexation or out of area sewer service agreements), lower flow impacts to the Aliso Creek Ocean Outfall, etc.

Project Element 4: Analysis and Recommendations

- Synthesize findings into a feasibility matrix, highlighting viable redirection options, risks, and mitigation strategies.
- Provide recommendations on next steps, such as detailed studies or pilot testing.
- Address regional integration, including how the project alternatives align with the three PC15 Agencies goals, ongoing capital projects, potential to avoid other capital costs or difficult projects, continuation or expansion of recycled water uses, and NCI funding by CLB/EBSD.
- Develop estimated implementation timelines for each of the project alternatives.

Project Element 5: Reporting and Deliverables

- Technical Memorandums must be submitted and approved for Elements 1 and 2 prior to proceeding with Project Element 3.
- Deliver a final report including:
 - Executive summary. (An initial draft will be submitted for review and approval prior to inclusion in the final report.)
 - Final Technical Memorandums for Project Elements 1 through 3.
 - - Provide digital files in standard formats (e.g., PDF, Excel).

Project Element 6: Project Management

A Project Control Plan (PCP) will be developed by the Consultant to establish clear project management procedures and strategies so that the Consultant and PC 15 Member Agencies are unified in the understanding of expectations, roles, and responsibilities. The PCP should include decision-making processes, confirmation of planning criteria to be used, the basis for project cost estimates, coordination needs with concurrent projects, coordination with SOCWA and the PC 15 Member Agencies.

Project Meetings and Communications

The project will have at a minimum:

- Kick-off meeting
- Monthly PM meetings
- Up to 3 Individual Agency meetings

- At least 3 workshops The Consultant shall provide progress reports that include project updates, schedules, and track percent completed by project element at the monthly PM meetings.

Assumptions and Exclusions

- Assumptions:
 - a. Client provides timely access to data and stakeholders.
 - b. No major changes in regulatory requirements or flow characteristics during the study.
 - c. High-level estimates based on available data; accuracy within $\pm 30-50\%$.
 - Exclusions:
 - a. Detailed engineering design or construction documents.
 - b. Full CEQA environmental impact assessments.
 - c. Financial modeling is beyond high-level costs (e.g., no rate studies).
- Legal advice on funding or inter-agency agreements.

Schedule

The project shall commence upon agreement execution and be completed within [X] months, with milestones as follows:

- Phase 1: [X] weeks from start.
- Phase 2: [X] weeks following Phase 1.
- Phase 3: [X] weeks following Phase 2.
- Phase 4: [X] weeks following Phase 3.
- Phase 5: [X] weeks following Phase 4, including reviews.

Agenda Item

6.C.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: PC 2 Board of Directors
FROM: Amber Boone, General Manager
STAFF CONTACT: Roni Grant, Capital Improvement Program Manager
SUBJECT: JBL Facility Planning Assessment Staff Update

Overview

SOCWA retained Dopudja & Wells Consulting (D&W) to assist in the development of the Request for Proposal (RFP) scope of services for the J.B. Latham Treatment Plant (JBL) and Coastal Treatment Plant (CTP) Master Planning initiative, focused on flows within the fence at each facility.

In April 2025, D&W facilitated a kickoff meeting with SOCWA and its member agencies to outline the strategic direction and priorities for the master planning effort. The draft Request for Proposal (RFP) was distributed to the PC 2 members on Jun 17, 2025, for comments and feedback. The RFP review meeting was held on July 10, 2025 during the PC 2/15 joint meeting. The revised RFP was distributed on July 17, 2025 for additional comments and feedback.

In August, SOCWA received directions to break the master planning effort into Phase 1 – Facility Planning Assessment (FPA), and Phase 2 – Master Planning. Parallel to this effort are flow studies that could effect the overall design of the master plan efforts. The current FPA is focused on the flows inside the fence at JBL but additional discussion of effluent usage outside the fence are currently being discussed with a follow-up to this FPA as a separate scope of work. SOCWA staff also met with PC2 staff members and MNWD on projected flows into the JB Latham facility as part of the planning efforts.

Proposals

SOCWA solicited proposals through PlanetBids on August 15, 2025. Over 15 firms were contacted during this process. Two proposals were received from Carollo and HDR. To better understand the limited response, staff proactively contacted the firms that chose not to submit. The feedback indicated a strong preference among those firms to participate in the subsequent master planning phase, rather than the preliminary effort. This suggests continued interest and engagement from the broader consultant community, positioning SOCWA for a competitive and well-supported master planning process.

The two proposals were distributed to the Evaluation Committee (PC 2 Engineering Committee, members from El Toro Water District and City of San Clemente who were on the interview panel, and SCOWA staff) on October 8, 2025. Interviews with Carollo and HDR were conducted on October 22, 2025 at the South Coast Water District (SCWD) Dana Hills Tennis Center.

Staff continues to work with staff from member agencies and the evaluation committee on the preferred choice for this first phase of the work.

Recommended Action: PC2 Board Discussion/Direction/Action.

RESOLUTION NO. 2025-12

**A RESOLUTION OF COMMENDATION ADOPTED BY
THE BOARD OF DIRECTORS OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

**COMMENDATION TO RICHARD GARDNER FOR PROVIDING DEDICATED SERVICE TO
THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE RESIDENTS OF
SOUTHERN ORANGE COUNTY FOR THE PERIOD OF
OCTOBER 1996 TO OCTOBER 2025**

WHEREAS: South Orange County Wastewater Authority (SOCWA) facilitates and manages the collection, transmission, treatment, reuse, and disposal of wastewater for more than 500,000 homes and businesses across South Orange County.

WHEREAS: Richard Gardner began his twenty-nine-year career with South Coast Water District as a Laboratory Technician I and then joined AWMA/SERRA in 1999. Richard is finishing his career as a Laboratory Technician III with SOCWA.

WHEREAS: During Richard's tenure with SOCWA, he has distinguished himself as an exceptional analyst—dedicated to delivering quality data, supporting operations, and safeguarding public health. Beyond his technical excellence, Richard has been a generous mentor, committed to fostering growth, knowledge, and opportunities for others. He has set a lasting example through his enduring commitment, strong work ethic, and genuine enthusiasm for the water testing industry. Richard's steadfastness, expertise, quick wit, and wealth of obscure knowledge have enriched our team, put smiles on our faces and he will be deeply missed.

THEREFORE, BE IT RESOLVED that the Board of Directors of the South Orange County Wastewater Authority and on behalf of the member agencies of SOCWA does hereby commend Richard Gardner for his dedicated 29 years of service and commitment to the mission of the South Orange County Wastewater Authority.

PASSED AND ADOPTED, AND SIGNED by the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, County of Orange, State of California, on the 6th day of November 2025.

(Seal)

Frank Ury, Board Chair

Amber Boone, General Manager, and
Board Secretary

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, AMBER BOONE, Secretary of the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA"), do hereby certify that the foregoing Resolution No. 2025-12 was duly adopted by the SOCWA Board of Directors at their Board Meeting held on the 6th day of November 2025 and that it was so adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dated: November 6, 2025

Amber Boone, Secretary/ General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, AMBER BOONE, Secretary of the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA"), do hereby certify that the foregoing is a full, true, and correct copy of Resolution No. 2025-12 of said Board and that the same has not been amended or repealed.

Dated: November 6, 2025

Amber Boone, Secretary/ General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

(Seal)

RESOLUTION NO. 2025-13

**A RESOLUTION OF COMMENDATION ADOPTED BY
THE BOARD OF DIRECTORS OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

**COMMENDATION TO DANITA HIRSH FOR PROVIDING DEDICATED SERVICE TO
THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE RESIDENTS OF
SOUTHERN ORANGE COUNTY FOR THE PERIOD OF
SEPTEMBER 2017 TO DECEMBER 2025**

WHEREAS: South Orange County Wastewater Authority (SOCWA) facilitates and manages the collection, transmission, treatment, reuse, and disposal of wastewater for more than 500,000 homes and businesses across South Orange County.

WHEREAS: Danita Hirsh began her seventeen+-year career with South Coast Water District as an Administrative Assistant and finishing her career as an Executive Assistant/Clerk of the Board with SOCWA.

WHEREAS: With great respect and sincere appreciation that we recognize Danita Hirsh for her exemplary service and unwavering dedication to SOCWA. Throughout her tenure, Danita has consistently demonstrated professionalism, integrity, and a commitment to excellence that has significantly contributed to our mission and values.

THEREFORE, BE IT RESOLVED that the Board of Directors of the South Orange County Wastewater Authority and on behalf of the member agencies of SOCWA does hereby commend Danita Hirsh for her dedicated eight (8) years of service and commitment to the mission of the South Orange County Wastewater Authority.

PASSED AND ADOPTED, AND SIGNED by the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, County of Orange, State of California, on the 6th day of November 2025.

(Seal)

Frank Ury, Board Chair

Amber Boone, General Manager, and
Board Secretary

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, AMBER BOONE, Secretary of the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA"), do hereby certify that the foregoing Resolution No. 2025-13 was duly adopted by the SOCWA Board of Directors at their Board Meeting held on the 6th day of November 2025 and that it was so adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dated: November 6, 2025

Amber Boone, Secretary/ General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, AMBER BOONE, Secretary of the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA"), do hereby certify that the foregoing is a full, true, and correct copy of Resolution No. 2025-13 of said Board and that the same has not been amended or repealed.

Dated the 6th day of November 2025.

Amber Boone, Secretary/General Manager
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

(Seal)

Agenda Item

7.C.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Dina Ash, Human Resources Administrator

SUBJECT: Resolution No. 2025-14, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting the additional position for the Environmental Services department and Employee Salary Ranges Updated Exhibit "B" Salary Schedule and Exhibit "C" Organization Chart for October 2025.

Discussion/Analysis

The addition of the Laboratory Quality Manager will enhance organizational efficiency while maintaining critical regulatory compliance capabilities, and administrative efficiency.

To comply with CalPERS' requirements, the Board of Directors must adopt the salary schedule. This ensures transparency and public accessibility.

Staff updated Exhibit "B" Job Classification Salary Schedule to include the Laboratory Quality Manager's compensation for compliance with PERS.

Recommended Action: Staff recommends that the Board of Directors approve Resolution No. 2025-14, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting additional position for the Environmental Services department and Revised Employee Salary Ranges updated Exhibit "B" Salary Schedule and Exhibit "C" Organization Chart for October 2025.

Attachments:

1. Exhibit "B" revised South Orange County Wastewater Authority Employee Handbook – Job Classification Salary Schedule
2. Exhibit "C" revised Organization Chart
3. Job Description (Laboratory Quality Manager)
4. Resolution No. 2025-14 Adopting Additional Position for the Environmental Services Department

EXHIBIT "B"

Revised 10/2025

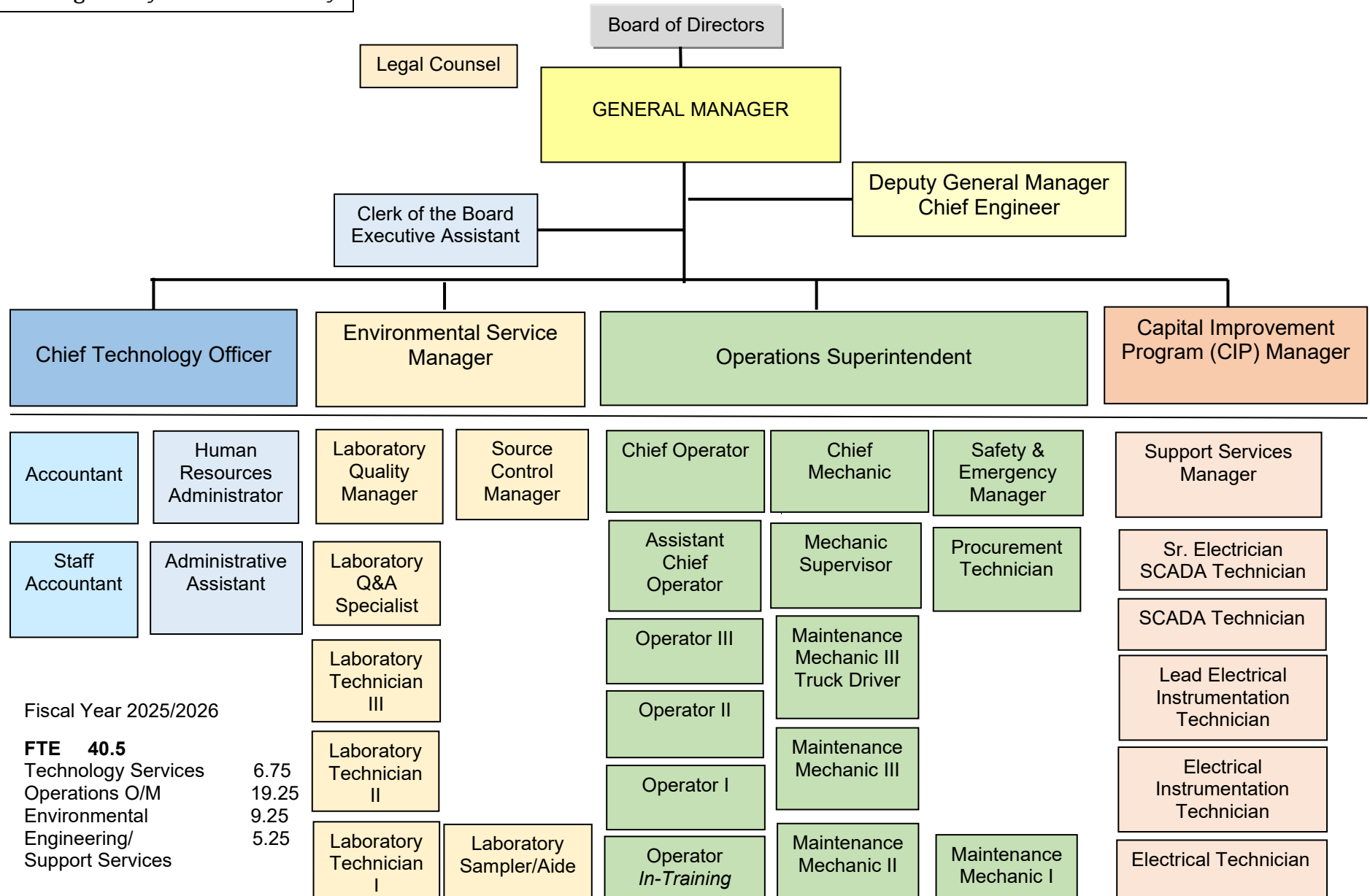
**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
EMPLOYEE HANDBOOK - JOB CLASSIFICATION SALARY SCHEDULE
7/1/2025 w/COLA of 3%**

SEA Represented Classifications / Non-Exempt						
Classification	Salary	Minimum	Maximum	Minimum	Maximum	
	Range	Hourly Salary	Hourly Salary	Monthly Salary	Monthly Salary	
<i>Operations</i>						
Operator Grade III	43	\$ 53.02	\$ 67.66	\$ 9,190.13	\$ 11,727.73	
Operator Grade II	41	\$ 48.08	\$ 61.37	\$ 8,333.87	\$ 10,637.47	
Operator Grade I	37	\$ 39.53	\$ 50.47	\$ 6,851.87	\$ 8,748.13	
Operator in Training	35	\$ 35.89	\$ 45.79	\$ 6,220.93	\$ 7,936.93	
<i>Maintenance</i>						
Maintenance Mechanic III / Truck Driver	43.5	\$ 54.35	\$ 69.35	\$ 9,420.67	\$ 12,020.67	
Maintenance Mechanic III	42.5	\$ 51.75	\$ 66.04	\$ 8,970.00	\$ 11,446.93	
Maintenance Mechanic II	38	\$ 41.54	\$ 53.02	\$ 7,200.27	\$ 9,190.13	
Maintenance Mechanic I	36	\$ 37.67	\$ 48.08	\$ 6,529.47	\$ 8,333.87	
Procurement Technician	40.5	\$ 46.94	\$ 59.90	\$ 8,136.27	\$ 10,382.67	
<i>Support Services</i>						
Sr. Electrician/SCADA Technician	45	\$ 58.40	\$ 74.60	\$ 10,122.67	\$ 12,930.67	
SCADA Technician	45	\$ 58.40	\$ 74.60	\$ 10,122.67	\$ 12,930.67	
Lead Electrical/Instrumentation Technician	43.5	\$ 54.35	\$ 69.35	\$ 9,420.67	\$ 12,020.67	
Electrical/Instrumentation Technician	42	\$ 50.47	\$ 64.45	\$ 8,748.13	\$ 11,171.33	
Electrical Technician	40	\$ 45.79	\$ 58.40	\$ 7,936.93	\$ 10,122.67	
<i>Laboratory Services</i>						
Laboratory Q&A Specialist	44.5	\$ 57.10	\$ 72.82	\$ 9,897.33	\$ 12,622.13	
Laboratory Technician III	43.5	\$ 54.35	\$ 69.35	\$ 9,420.67	\$ 12,020.67	
Laboratory Technician II	41	\$ 48.08	\$ 61.37	\$ 8,333.87	\$ 10,637.47	
Laboratory Technician I	39	\$ 43.65	\$ 55.68	\$ 7,566.00	\$ 9,651.20	
Laboratory Aide/Sampler	35	\$ 35.89	\$ 45.79	\$ 6,220.93	\$ 7,936.93	

Unrepresented Classifications						
Classification	Salary	Minimum	Maximum	Minimum	Maximum	
	Range	Hourly Salary	Hourly Salary	Monthly Salary	Monthly Salary	
<i>Operations</i>						
Assistant Chief Operator	44	\$ 55.68	\$ 71.04	\$ 9,651.20	\$ 12,313.60	
<i>Maintenance</i>						
Maintenance Mechanic Supervisor	44	\$ 55.68	\$ 71.04	\$ 9,651.20	\$ 12,313.60	
<i>Environmental Compliance</i>						
Source Control Manager	48	\$ 67.66	\$ 86.38	\$ 11,727.73	\$ 14,972.53	
<i>Administration</i>						
Executive Assistant						
Clerk of the Board	46	\$ 61.37	\$ 78.32	\$ 10,637.47	\$ 13,575.47	
Administrative Assistant	30	\$ 28.07	\$ 35.78	\$ 4,865.47	\$ 6,201.87	
Sr. Accountant	43	\$ 53.02	\$ 67.66	\$ 9,190.13	\$ 11,727.73	
Accountant	38	\$ 41.54	\$ 53.02	\$ 7,200.27	\$ 9,190.13	
Staff Accountant	37	\$ 39.53	\$ 50.47	\$ 6,851.87	\$ 8,748.13	

Professional Classifications						
Classification	Salary	Minimum	Maximum	Minimum	Maximum	
	Range	Hourly Salary	Hourly Salary	Monthly Salary	Monthly Salary	
<i>Operations / Safety / Maintenance</i>						
Chief Operator	50	\$ 74.60	\$ 95.21	\$ 12,930.67	\$ 16,503.07	
Chief Mechanic	50	\$ 74.60	\$ 95.21	\$ 12,930.67	\$ 16,503.07	
Safety & Emergency Manager	45.5	\$ 59.90	\$ 76.45	\$ 10,382.67	\$ 13,251.33	
<i>Support Services</i>						
Support Services Manager	50	\$ 74.60	\$ 95.21	\$ 12,930.67	\$ 16,503.07	
<i>Environmental Compliance / Laboratory Services</i>						
Source Control Manager	48	\$ 67.66	\$ 86.38	\$ 11,727.73	\$ 14,972.53	
Laboratory Quality Manager	46	\$ 61.37	\$ 78.32	\$ 10,637.47	\$ 13,575.47	
<i>Administration Division</i>						
Human Resource Administrator	49	\$ 71.04	\$ 90.68	\$ 12,313.60	\$ 15,717.87	

Management Classifications						
Classification	Salary	Minimum	Maximum	Minimum	Maximum	
	Range	Hourly Salary	Hourly Salary	Monthly Salary	Monthly Salary	
<i>Executive Management Division</i>						
General Manager		Set by the Board by Contract			\$ 25,380.99	
Deputy GM/Chief Engineer	55	\$ 95.21	\$ 121.51	\$ 16,503.07	\$ 21,061.73	
Operations Superintendent	52	\$ 82.28	\$ 104.98	\$ 14,261.87	\$ 18,196.53	
Capital Improvement Program (CIP) Manager	52	\$ 82.28	\$ 104.98	\$ 14,261.87	\$ 18,196.53	
Chief Technology Officer	52	\$ 82.28	\$ 104.98	\$ 14,261.87	\$ 18,196.53	
Environmental Compliance Manager	52	\$ 82.28	\$ 104.98	\$ 14,261.87	\$ 18,196.53	



**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
CLASSIFICATION STATEMENT
Laboratory**

Laboratory Quality Manager

All Laboratory positions working in Lab environment are required to follow Blood Borne Pathogen PPE and procedure requirements.

The following is a non-exclusive list of essential duties and responsibilities. The duties listed below are intended only as illustrations of the various types of work that may be performed. The omission of specific duties does not exclude them from the position if the work is similar or related as determined by the incumbent's supervisor.

DEFINITION:

Under the general direction of the Environmental Service Manager or Technical Lab Manager, the Laboratory Quality Manager oversees SOCWA's Quality Assurance and Quality Control (QA/QC) programs, ensuring compliance with The NELAC Institute (TNI) standards, the Environmental Laboratory Accreditation Program (ELAP), the Method Update Rule, and other applicable regulations. This position is responsible for managing all quality-related functions, supervising laboratory staff, and performing selected laboratory management duties. The Laboratory Quality Manager ensures data integrity, operational efficiency, and regulatory compliance while fostering a culture of quality and continuous improvement.

With directions from the Environmental Service Manager or Technical Lab Manager, supervise laboratory staff and provide significant input and assist in composing staff annual reviews. The Laboratory Quality Manager serves additional leadership responsibilities compared to the position of Quality Specialist and acts as second-in-command for laboratory operations.

SUPERVISION EXERCISED:

- Direct supervision of laboratory staff.
- Oversight of Quality Systems and technical staff in laboratory operations.
- Provides input and directly participates in hiring, training, performance evaluations, and staff development.

EXAMPLE OF ESSENTIAL DUTIES AND RESPONSIBILITIES:

Quality Assurance / Quality Control

- Develop, implement, and maintain SOCWA lab's Quality Management System in compliance with TNI and ELAP requirements.
- Coordinate and oversee internal and external audit programs, including validation of laboratory and field data, ensuring accuracy in HACH WIMS and other database systems.
- Review, standardize, and update Standard Operating Procedures (SOPs) to reflect current regulatory requirements and best practices.
- Maintain and update the Laboratory Quality Manual, and quality control procedures.
- Ensure accurate, complete, and timely data entry to meet data quality objectives.
- Oversee, enforce, and perform applicable training for data integrity, ethics, and policy compliance consistent with TNI standards and SOCWA policies.
- Tracking corrective/preventive actions (CAPA) and maintaining logs.
- Maintaining training, quality records, and document control

- Reviewing and validate lab data and quality systems.
- Create and review Quality Assurance Project Plans (QAPPs) for internal and external projects.
- Remain current with advances in the water/wastewater field or with new technology by attending relevant seminars, training and/or taking applicable coursework.

Laboratory Management Support

- Assist in planning, coordinating, and scheduling daily laboratory activities.
- Supervise laboratory operations in the absence of the Environmental Service Manager or Technical Lab Manager.
- Develop staff training, work schedules, assign tasks, and ensure completion of monitoring, testing, and reporting requirements.
- Participation in strategic planning for quality and efficiency improvement
- Manage adequate inventory of laboratory supplies and coordinate purchasing activities.
- Assist in interpreting complex water and wastewater data for regulatory reporting and operational decision-making.
- Provide technical guidance on analytical procedures, troubleshooting, and new method development.
- Attend meetings related to regulatory requirements and quality management.
- Develop and deliver training materials for laboratory staff related to QA/QC, technical procedures, safety, and regulatory compliance.
- Mentor laboratory staff to ensure competency and consistency in quality standards.
- Foster a collaborative and high-performance work environment.

Regulatory Compliance & Reporting

- Oversee regulatory monitoring, testing, and reporting in coordination with laboratory and environmental staff.
- Perform data review of SOCWA and member agency reports, confirming report anomalies, coordinating corrections, and identifying violations to ensure accurate reporting to regulatory agencies.
- Prepare compliance reports for timely submission to regulatory agencies.
- Maintain awareness of industry trends, emerging technologies, and regulatory developments.

General Duties

- When needed, perform complex chemical analyses of wastewater, industrial waste recycled water, and potable water.
- Provide direct and backup support to other laboratory staff. Perform the duties of a Laboratory Technician as needed.
- Conduct and oversee special monitoring and studies as needed.
- Work efficiently and effectively with all other departments and member agencies to achieve the most economical and satisfactory resolution to operational concerns.
- Comply and enforce Agency safety rules and regulations.
- Perform all related duties as assigned and/or directed.

MINIMUM TRAINING AND EXPERIENCE REQUIRED TO PERFORM ESSENTIAL FUNCTIONS:

- A minimum of 5 years' experience in a wastewater treatment plant laboratory or similar laboratory including two (2) years in QA/QC program oversight.

- Minimum of two (2) years of supervisory or management experience.
- Thorough knowledge of the current technology in water and wastewater.
- Ability to interface with plant personnel, member agencies, public, contractors, vendors and provide technical support for troubleshooting, research, and development of new applications for purposes of cost savings and efficient plant operations.
- Ability to utilize personal computers for data processing, report generation and quality control.
- Knowledge of laboratory safety principles, state and federal regulations pertaining to wastewater treatment. Knowledge of principles of supervision; ability to prepare concise verbal and written reports.

OTHER SPECIAL REQUIREMENTS:

- Graduation from a college or university with a baccalaureate degree in physical, chemical, or biological sciences.
- CWEA Lab Technician Grade III certification (or higher) is required or must be actively pursued upon hiring.
- Must possess a valid California, Class C, driver's license in good standing.
- May be required to respond to plant emergencies; to go out on a boat to take ocean samples and may be required to collect surf zone samples.

PHYSICAL AND MENTAL ABILITIES REQUIRED TO PERFORM ESSENTIAL FUNCTIONS:

Language Ability and Interpersonal Communication:

- Ability to analyze and categorize data and information to determine the relationship of data with reference to established criteria/standards. Ability to compare, count, differentiate, measure assemble, copy, and record and transcribe data and information. Ability to classify, compute and tabulate data.
- Ability to explain, demonstrate and clarify to others within well-established policies, procedures, and standards. Ability to follow specific instructions and respond to simple requests from others.
- Ability to communicate effectively orally and in writing with Agency personnel.

Mathematical Ability:

- Ability to calculate percentages, fractions, decimals, ratios, and algebraic equations.

Judgment and Situational Reasoning Ability:

- Ability to use functional reasoning and apply rational judgment in performing diversified work activities.
- Ability to exercise the judgment, decisiveness and creativity required in situations involving the evaluation of information against measurable criteria.

Physical Requirements:

- Must be able to pass Agency's pre-employment physical examination.
- Ability to coordinate eyes, hands, feet, and limbs in performing movements requiring skill and training, such as assembling equipment.
- Ability to exert effort in strenuous physically demanding work, typically involving some combination of climbing and balancing, stooping, kneeling, crouching, crawling, lifting, carrying, pushing, and pulling. Ability to lift and move 50 pounds or more.
- Ability to recognize and identify degrees of similarities or differences between characteristics of colors, shapes, sounds, odors, and textures associated with job-related objects, materials, and tasks.
- Ability to withstand exposure to inclement weather conditions, working in wet and/or odorous areas.

- Ability to be subject to 24-hour recall, variable working hours, overtime, weekends, and holidays. May be required to perform stand-by duties and respond to plant emergencies.

Environmental Adaptability:

Some tasks may risk exposure to temperature variations, sewage, toxic agents/chemicals, noise, machinery, vibrations, electrical currents, wetness, and dust.

SOCWA is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the Agency will provide reasonable accommodations to qualified individuals with disabilities and encourage both prospective and current employees to discuss potential accommodations with the employer.

RESOLUTION NO. 2025-14

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
APPROVING THE POSITION OF A QUALITY MANAGER FOR THE ENVIRONMENTAL
SERVICES DEPARTMENT AND EMPLOYEE JOB CLASSIFICATION SALARY SCHEDULE
TO THE SOCWA EMPLOYEE MANUAL**

WHEREAS, to provide the South Orange County Wastewater Authority with the necessary and adequate staff resources to conduct the business of the authority, the General Manager is recommending a change to the Board of Directors for approval; and

WHEREAS, the General Manager recommends the position of Quality Manager to the Environmental Services department.

WHEREAS, the Board recognizes the importance of establishing a cohesive and effectively structured Environmental Services team to guide SOCWA through its evolving operational demands; and

WHEREAS, the proposed structure will enhance organizational efficiency while maintaining critical regulatory compliance capabilities, and administrative efficiency;

WHEREAS, the SOCWA now desires to approve a revised Exhibit “B” and “C” to the Manual.

NOW, THEREFORE, the Board of Directors of the South Orange County Wastewater Authority does hereby **RESOLVE, DETERMINE AND ORDER** as follows:

Section 1.

Exhibit “B” of the Authority’s Employee Manual and Memorandum of Understanding (MOU) is amended to: (1) add the position of Quality Manager: (2) also revise the salary schedule.

Section 4.

Exhibit “C” of the Authority’s Employee Manual amended to show the Organization Chart with additional job classifications.

Section 5.

The Secretary of SOCWA shall certify the adoption of Resolution No. 2025-14 and shall maintain a certified copy thereof at the principal office of SOCWA.

PASSED and **ADOPTED** by the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, County of Orange, State of California, on the 6th day of November 2025.

(Seal)

Frank Ury, Chairman

Amber Boone, General Manager, and Board Secretary

Agenda Item

7.D

Budgeted: No

Budget amount: N/A

Legal Counsel Review: No

Meeting Date: November 6, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, SOCWA General Manager

STAFF CONTACT: Jim Burror, SOCWA Deputy General Manager

SUBJECT: Ratification of Preferred Restoration Contract for Administration Building Repairs

Summary

The JB Latham Administration Building had water and mold damage that necessitated immediate action to remove the mold for the safety of the employees. Once mold was identified, staff were removed from the facility and repairs commenced. Notification was provided to the Board of the status of the repairs. The General Manager followed the procedures under the Emergency Management provisions in the SOCWA Policy, which include notification and post award summary and ratification. An Emergency is defined in the Purchasing Policy as follows “A sudden, unexpected occurrence posing clear and imminent danger, requiring immediate action to prevent or mitigate loss or impairment of life, health, property, or essential public Services.”

Discussion/Analysis

On September 29, 2025, SOCWA staff noticed pooling of water at various spots in the Administration Building. In May 2021, there was a similar pinhole leak at the facility that was repaired and reimbursed through insurance. For the recent event, a plumber was called, the pinhole leak identified, and coating of the pipes was performed to stop future leaks on the administrative side of the building. However, there was significant water damage and black mold found in the building.

CSMRA insurance was contacted at the beginning of the water leak and staff continue to work with CSMRA. SOCWA staff opened a quotation process for competitive selection of a company to perform the mold and damaged walls. Four companies were evaluated in the selection process based on range of price, scope of work, duration, removal of flooring, mold remediation, and air quality processing. Table 1 provides a summary of the companies and bids received. Preferred Restoration was the company chosen for the first phase of the work totaling \$46,800. To expedite return of staff to the office and governance activities, Phase 2 was initiated, after discussion with the SOCWA Board Chair. The Phase 2 contract by Preferred Restoration was \$107,764.59 which is being requested for ratification. Staff are working with CSMRA for reimbursement for the restoration efforts.

Table 1: Bid selection evaluation matrix

Contractor	Quoted Range (Low-High)	Primary Scope of Work	Duration (Days)	Flooring Removal	Mold Remediation	Containments / HEPA / Air Machines	Notes & Conditions
Company 1	\$45,000 – \$55,000	Mitigation in multiple rooms; removal of drywall (up to 2'), baseboards, insulation, and wet wood flooring; setup of negative air, dehumidifiers (8), air movers (16).	≈7	Yes	Limited (general sanitization)	2 negative air machines, 8 dehumidifiers, 16 air movers	ROM for emergency services; includes all labor, materials, consumables, equipment. (no mold clearance), no NTE in contract.
Company 2 (No Floor Removal)	\$14,960.80 – \$23,553.06	Mitigation only; removal of wet drywall, baseboards, tile walls; drying and air quality control. Floors remain unless buckling.	≈3–5	No (unless buckling)	Limited (localized patch)	Air movers, scrubbers, dehumidifiers; HEPA filtration	Excludes reconstruction, clearance testing, permits, engineering; non-prevailing wage basis.
Company 2 (With Floor Removal)	\$19,329.67 – \$29,677.09	Same as above plus full flooring removal and expanded labor/equipment.	≈5–7	Yes	Limited	Air movers, scrubbers, dehumidifiers	Same exclusions as above; ROM budget estimate; non-prevailing wage basis.
Company 3	\$67,410 (flat)	Full water and mold mitigation: drywall, flooring, cabinetry demo; HEPA vacuuming, antimicrobial, dehumidifiers, negative air, containment, PPE, fogging, disposal.	≈7–10	Yes	Full	Multiple dehumidifiers, air movers, scrubbers, PPE, HEPA filters, fog treatment	Includes full containment and disinfectant fog; most detailed line-item estimate (~532 items). No mold clearance.
Preferred Restoration (South Coast)	Up to \$46,800 (NTE)	Water & mold remediation; remove drywall, baseboards, tile walls, cabinets if damaged; sand/sanitize framing; no flooring, containment & HEPA negative pressure; detail clean.	≈4–5	Yes	Full	Containment, HEPA vacuum, sanitize	Excludes clearance testing, permits, structural/electrical repairs, and contents handling. No mold clearance.

Fiscal impact: The total combined cost for the emergency restoration is \$154,564.59. Staff are requesting a 10% contingency in the total contract award for Preferred Restoration.

Recommended Action: Staff recommends to the SOCWA Board of Directors ratification of the combined contract value of \$154,564.59 to Preferred Restoration with a 10% contingency for repairs that may arise in the restoration efforts.

Attachment(s): Preferred Restoration Phase 1 and Phase 2 Contracts



South Orange County Wastewater Authority
34156 Del Obispo St, Dana Pt, CA 92629

PURCHASE ORDER	
Purchase Order No.	21496
Vendor ID	Pref2487
10/13/2025	Page 1

VENDOR

Preferred Restoration Inc.
2487 Industrial Pkwy W
Hayward, CA 94545

SHIP TO

South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Attention: Andy Olsen
Phone: (657) 680-1846
E-mail: andy@pref-rest.com

Attention: Please reference requisitioner name on packing slip.
Phone: (949) 234-5400 Fax: (949) 489-0130

ShipVia	Requisitioner	Terms	PO Date	Approver
	Burror, James		10/13/2025	Jim Burror
			Department	Requisition No.
				JAMES BURROR

Invoices should be emailed to finance@socwa.com. Purchase is subject to and conditioned upon acceptance of SOCWA's Terms and Conditions, attached.

Line No.	Product ID	Vendor Part Number	Required	Unit	Quantity	Extended Price
Description			Promised	Unit Price		
1				EACH	46800	\$46,800.00
WATER & MOLD REMEDIATION				\$1.00		
					Total	\$46,800.00

James Burror
10/13/25

James Burror

Authorized Signature 1

**Purchase Order Terms and Conditions (“CONTRACT”)
Construction and Maintenance for
South Orange County Wastewater Authority (“Authority”)**

1. Contract: This CONTRACT is entered into by and between the Authority and the undersigned vendor (“Vendor”) effective as of the earlier of Vendor’s signature hereto or commencement of performance hereunder, including without limitation upon Vendor’s shipment or delivery of goods or provision of any services.

The CONTRACT consists of the following documents: (1) these terms and conditions, (2) any purchase order issued by the Authority to Vendor, and (3) Vendor’s attached scope of work. In the event of any conflict or inconsistency, the CONTRACT documents shall control and take precedence in the order set forth above.

2. Pricing: The CONTRACT price includes full compensation for providing the goods and services according to the specifications, and no additional compensation will be allowed. Except as expressly provided in Vendor’s attached scope of work, all fees and charges shall exclude, and Authority shall not be responsible for, sales or use tax or any levies or tariffs.

3. Delivery: Vendor shall deliver the goods and/or perform services in accordance with the schedule set forth in Vendor’s attached scope of work or Authority’s purchase order, as applicable; time is of the essence. No partial deliveries shall be accepted. All transportation and delivery charges must be prepaid in full to destination, and the prepaid freight bill must be submitted to Authority with invoice, FOB Destination. Goods shall not be accepted if shipped C.O.D.

4. Acceptance: Acceptance shall not be deemed complete unless in writing and until all the goods and/or services have actually been received, inspected, and tested to the satisfaction of Authority. Authority reserves the right to reject any good or service which does not comply with the specifications and/or terms of this CONTRACT.

5. Payment: Net 30 days on approved invoices.

6. Invoices: Vendor shall submit itemized invoices to Authority, Attn. Accounts Payable at: 34156 Del Obispo St., Dana Point, CA 92629. Each invoice must show Authority’s Purchase Order number, item number description of supplies or services, sizes, units of measure, quantity, unit price and extended totals, and shall cover only goods delivered or services performed. Invoices shall include supporting documentation including but not limited to, paid receipts and invoices to validate the charges for each invoiced item.

7. Warranty: Vendor expressly warrants that the goods, materials and equipment provided by this CONTRACT are free of liens and encumbrances, and are new, conform to Authority specifications, and are free from defects. Vendor further warrants that all services will be of good quality and performed to the standard of care customary of Vendor’s trade or profession. Neither Authority’s inspection nor failure to inspect shall relieve Vendor of any obligation hereunder, if in Authority’s opinion any good or service fails to conform to specifications or is otherwise defective. Vendor shall promptly replace same at Vendor’s expense. No acceptance or payment by Authority shall constitute a waiver of the forgoing, and nothing herein shall exclude or limit any warranties implied by law. Vendor’s warranty shall be effective for one year after the date of Authority’s final payment.

8. Termination: Authority may in its sole and absolute discretion, terminate this CONTRACT with cause effective immediately and without cause upon 5 days’ written notice. Vendor shall be entitled to payment only for goods and services provided up to the effective date of termination.

9. Assignment and Subcontractors: Vendor shall not assign or subcontract its rights or obligations under this CONTRACT without the written

consent of Authority. Vendor shall ensure that any subcontractor complies with all terms of this CONTRACT.

10. Independent Contractor: Vendor is an independent contractor, not an agent or employee of Authority.

11. Compliance with Laws: Vendor represents and warrants that all goods and services provided under this CONTRACT shall comply with applicable federal, state and local laws, regulations and ordinances.

12. Indemnification: Vendor shall indemnify, defend and hold harmless Authority, its agents and member agencies, from and against any and all loss, liability or expense arising out of or relating to the goods and/or services furnished pursuant hereto to the extent permissible by law, except as resulting from Authority's gross negligence or willful misconduct. This provision shall survive the expiration or termination of the CONTRACT.

13. Insurance: For the duration of the CONTRACT, Vendor shall maintain at its sole cost and expense insurance appropriate to cover risks associated with the scope of work provided by this CONTRACT, including without limitation: General Liability with limits not less than \$1,000,000 per occurrence for bodily injury and property damage; Auto Liability with limits not less than \$1,000,000 for each accident; and Workers' Compensation with statutory limits. Vendor's General Liability and Auto policies shall be endorsed to name Authority and its member agencies as additional insureds. Vendor's insurance shall be primary and any insurance maintained by Authority shall not contribute to it. Vendor shall provide Authority with certificates and endorsements evincing such coverages upon request.

14. Prevailing Wages: For public works projects of more than \$1,000, Vendor shall pay the general prevailing rate of per diem wages to all workers as established by the California Department of Industrial Relations ("DIR") and shall comply with all applicable requirements of California's Prevailing Wage Laws (Labor Code § 1720 *et seq.*

and 8 C.C.R. § 1600 *et seq.*). Vendor shall post a copy of all prevailing wage rates on the jobsite and shall provide all other required jobsite notices. Vendor shall register with the Department of Industrial Relations pursuant to the requirements of Labor Code sections 1725.5 and 1771.1 and shall ensure all subcontracts are so registered. Vendor shall keep accurate payroll records and furnish them as required by Labor Code section 1776. Vendor acknowledges that it is subject to compliance monitoring and enforcement by the DIR.

15. Safety: Vendor shall be solely and completely responsible for the safety of all Vendor personnel, including personnel of any subcontractors, during performance of the work. Vendor shall provide Authority with a Safety Data Sheet (SDS) for every product provided by Vendor which contains hazardous chemicals.

16. Governing Law and Venue: This CONTRACT shall be governed by and construed under the laws of the State of California. Any action or proceeding arising out of or relating to this CONTRACT shall be brought and tried exclusively in the County of Orange, California.

17. Amendments: This CONTRACT may be modified only upon mutual agreement, in writing, between Authority and Vendor subject to any required Authority approval.

18. Severability: If any provision of this CONTRACT is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder of the provisions hereof shall remain in full force and effect and shall in no way be affected, impaired or invalidated thereby.

19. Interpretation: This CONTRACT represents the entire and integrated contract between Authority and Vendor and supersedes all prior negotiations, representations, and agreements.

20. Waiver: No provision of this CONTRACT shall be deemed waived and no breach shall be deemed excused, unless such waiver or excuse is in writing and signed by the party making the waiver or excusing the breach

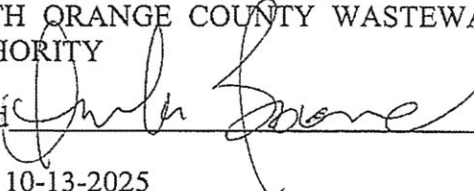
21. **Attorneys' Fees:** In any action or proceeding to enforce or interpret any provisions of this CONTRACT, or where any provisions hereof is validly asserted as a defense, each party shall bear its own attorneys' fees, costs and expenses

22. **PO Payment Bond:** Pursuant to Civil Code 3247 et seq. if this CONTRACT authorizes work in an amount greater than \$25,000 and the Vendor is engaged in services other than architectural, engineering or land surveying, and Consultant will supply any third party or subcontracted labor, materials, or equipment in order to complete the Scope of Work, the Vendor shall supply to Authority prior to beginning work on the project a payment bond in form acceptable to the Authority in the amount of the total to be paid to Vendor under this CONTRACT.

23. **Debarment or Suspension:** For federally funded agreements in the amount of \$25,000 or more, the Vendor agrees to certify that he/she and his/her principals are not debarred or suspended from federal financial assistance programs and activities (Executive Order 12549, 7 Code of Federal Regulations ("CFR") Part 3017, 45 CFR Part 76, and 44 CFR Part 17).

Each of the undersigned hereby acknowledges that it has read, understands and agrees to all terms and conditions of this CONTRACT and has authority to enter into this CONTRACT.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Signed 
Date 10-13-2025

By Amber Boone

Its General Manager

VENDOR

Signed 

Print Name Andrew Olsen

Title Project Manager

Date 10-13-25

DIR Registration No. 20250604145



CSLB# 106321 DOSH# 1220

October 8, 2025

South Coast County Wastewater
Attn: James Burror
34156 Del Obispo
Dana Point, Ca 92629

WATER & MOLD REMEDIATION PROPOSAL

We are pleased to submit our proposal to furnish all necessary labor; materials and equipment to remove water damaged materials at the subject project.

SCOPE OF WORK

- Set containments in affected areas.
- Detach cabinets as needed. If cabinets are water damaged, we will dispose of them.
- Removal of water damaged drywall and baseboards.
- Removal of tile walls as needed.
- Sand exposed framing and sanitize affected areas.
- Leave all affected areas ready for clearance testing.

General:

- Power and water will be provided by the site for the duration of the project.
- Establish HEPA filtered negative pressure containment in the unit.
- Detail clean inside containment i.e., HEPA vacuum and wet wiping.
- Price doesn't include clearance testing.

PROJECT SUMMARY COST

Mold Remediation NOT TO EXCEED \$46,800.00

TIME FRAME

Work is estimated to take approx. 4-5 days.

CLARIFICATIONS - EXCLUSIONS

1. Owner to provide electric and water.
2. Repair or replacement of impacted structural, architectural, mechanical or electrical item.
3. Damage resulting from remediation procedures such as, but not limited to: tape damages to paint, paneling or wallpaper; moisture damage to walls or flooring.
4. Any local permits by others.
5. Mold Clearance are not included in this proposal.
6. Assume single layer building materials, should multiple layers be discovered a supplement shall be submitted.
7. All fixtures that are to be saved, shall be removed by the owner prior to the start of the work.
8. No contents of any kind will be manipulated in order to facilitate the renovation work.

Thank you for the opportunity to provide an estimate for the proposed work. Please don't hesitate to contact me with any questions.

Sincerely,
Brady Olsen
Project Manager
657-680-1846
Brady@pref-rest.com

Acknowledgment:

This acknowledgment shall have the force and effect of Notice to Proceed to provide services in accordance with the above stated pricing.

Name: Amber Boone

Payment Terms:

Owner to remit payment to Preferred Restoration, Inc. (PRI) upon completion of the work. The customer agrees that the court of jurisdiction, for any claim shall be in San Mateo, CA

Authorized Signature
Amber Boone

Date: 10/13/25



South Orange County Wastewater Authority
34156 Del Obispo St, Dana Pt, CA 92629

PURCHASE ORDER	
Purchase Order No.	21534
Vendor ID	Pref2487
10/23/2025	Page 1

VENDOR

Preferred Restoration Inc.
2487 Industrial Pkwy W
Hayward, CA 94545

SHIP TO

South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Attention: Andy Olsen
Phone: (657) 680-1846
E-mail: andy@pref-rest.com

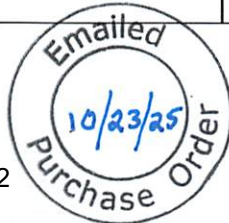
Attention: James Jones
Phone: (949) 234-5400
Fax: (949) 489-0130

ShipVia	Requisitioner	Terms	PO Date	Approver
	Jones, James		10/23/2025	Jim Burror
			Department	Requisition No.
			JBL Maintenance	15347

Invoices should be emailed to finance@socwa.com. Purchase is subject to and conditioned upon acceptance of SOCWA's Terms and Conditions, attached.

Line No.	Product ID	Vendor Part Number	Required	Unit	Quantity	Extended Price
Description			Promised	Unit Price		
1				EACH	107764.59	\$107,764.59
RESTORATION / SERVICE / REMODEL ADMIN OFFICE				\$1.00		
					Total	\$107,764.59

James Jones
10/23/25



James Jones

Authorized Signature 1

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South Orange County Wastewater Authority (“Authority”)**

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- 3. Delivery:** Vendor shall deliver the goods and/or perform services in accordance with the schedule set forth in Vendor’s attached scope of work or Authority’s purchase order, as applicable; time is of the essence. No partial deliveries shall be accepted. All transportation and delivery charges must be prepaid in full to destination, and the prepaid freight bill must be submitted to Authority with invoice, FOB Destination. Goods shall not be accepted if shipped C.O.D.
- 4. Acceptance:** Acceptance shall not be deemed complete unless in writing and until all the goods and/or services have actually been received, inspected, and tested to the satisfaction of Authority. Authority reserves the right to reject any good or service which does not comply with the specifications and/or terms of this CONTRACT.
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- 7. Warranty:** Vendor expressly warrants that the goods, materials and equipment provided by this CONTRACT are free of liens and encumbrances, and are new, conform to Authority specifications, and are free from defects. Vendor further warrants that all services will be of good quality and performed to the standard of care customary of Vendor’s trade or profession. Neither Authority’s inspection nor failure to inspect shall relieve Vendor of any obligation hereunder, if in Authority’s opinion any good or service fails to conform to specifications or is otherwise defective. Vendor shall promptly replace same at Vendor’s expense. No acceptance or payment by Authority shall constitute a waiver of the forgoing, and nothing herein shall exclude or limit any warranties implied by law. Vendor’s warranty shall be effective for one year after the date of Authority’s final payment.
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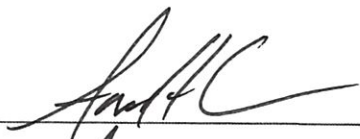
- 10. Independent Contractor:** Vendor is an independent contractor, not an agent or employee of Authority.
- 11. Compliance with Laws:** Vendor represents and warrants that all goods and services provided under this CONTRACT shall comply with applicable federal, state and local laws, regulations and ordinances.
- 12. Indemnification:** Vendor shall indemnify, defend and hold harmless Authority, its agents and member agencies, from and against any and all loss, liability or expense arising out of or relating to the goods and/or services furnished pursuant hereto to the extent permissible by law, except as resulting from Authority's gross negligence or willful misconduct. This provision shall survive the expiration or termination of the CONTRACT.
- 13. Insurance:** For the duration of the CONTRACT, Vendor shall maintain at its sole cost and expense insurance appropriate to cover risks associated with the scope of work provided by this CONTRACT, including without limitation: General Liability with limits not less than \$1,000,000 per occurrence for bodily injury and property damage; Auto Liability with limits not less than \$1,000,000 for each accident; and Workers' Compensation with statutory limits. Vendor's General Liability and Auto policies shall be endorsed to name Authority and its member agencies as additional insureds. Vendor's insurance shall be primary and any insurance maintained by Authority shall not contribute to it. Vendor shall provide Authority with certificates and endorsements evincing such coverages upon request.
- 14. Prevailing Wages:** For public works projects of more than \$1,000, Vendor shall pay the general prevailing rate of per diem wages to all workers as established by the California Department of Industrial Relations ("DIR") and shall comply with all applicable requirements of California's Prevailing Wage Laws (Labor Code § 1720 *et seq.* and 8 C.C.R. § 1600 *et seq.*). Vendor shall post a copy of all prevailing wage rates on the jobsite and shall provide all other required jobsite notices. Vendor shall register with the Department of Industrial Relations pursuant to the requirements of Labor Code sections 1725.5 and 1771.1 and shall ensure all subcontracts are so registered. Vendor shall keep accurate payroll records and furnish them as required by Labor Code section 1776. Vendor acknowledges that it is subject to compliance monitoring and enforcement by the DIR.
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- 19. Interpretation:** This CONTRACT represents the entire and integrated contract between Authority and Vendor and supersedes all prior negotiations, representations, and agreements.
- 20. Waiver:** No provision of this CONTRACT shall be deemed waived and no breach shall be deemed excused, unless such waiver or excuse is in writing and signed by the party making the waiver or excusing the breach
- 21. Attorneys' Fees:** In any action or proceeding to enforce or interpret any provisions of this CONTRACT, or where any provisions hereof is

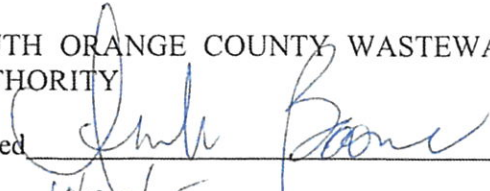
validly asserted as a defense, each party shall bear its own attorneys' fees, costs and expenses

22. PO Payment Bond: Pursuant to Civil Code 3247 et seq. if this CONTRACT authorizes work in an amount greater than \$25,000 and the Vendor is engaged in services other than architectural, engineering or land surveying, and Consultant will supply any third party or subcontracted labor, materials, or equipment in order to complete the Scope of Work, the Vendor shall supply to Authority prior to beginning work on the project a payment bond in form acceptable to the Authority in the amount of the total to be paid to Vendor under this CONTRACT.

23. Debarment or Suspension: For federally funded agreements in the amount of \$25,000 or more, the Vendor agrees to certify that he/she and his/her principals are not debarred or suspended from federal financial assistance programs and activities (Executive Order 12549, 7 Code of Federal Regulations ("CFR") Part 3017, 45 CFR Part 76, and 44 CFR Part 17).

Each of the undersigned hereby acknowledges that it has read, understands and agrees to all terms and conditions of this CONTRACT and has authority to enter into this CONTRACT.

Signed 
Print Name Andrew Olsen
Title Project Manager
Date 10.23.25
DIR Registration No. 2226-007

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Signed 
Date 10/23/25
By Amber Boone
Its General Manager
VENDOR



Preferred Restoration Inc

Client: South OC Wastewater Auth.
Property: 34156 Del Obispos St.
Dana Point, CA 92663

Operator: BRADY

Estimator: Andy Olsen
Company: Preferred Restoration Inc
Business: 967 N. Eckhoff Street
Orange, CA 92867

Business: (714) 267-0973
E-mail: andy@pref-rest.com

Type of Estimate:

Date Entered: 10/22/2025

Date Assigned:

Price List: CAOG8X_OCT25

Labor Efficiency: Restoration/Service/Remodel

Estimate: SOUTH-OC-WATER(STR)

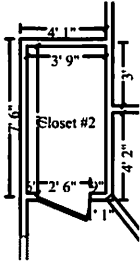
Estimate for repairs following water/mold damages.

Please note this estimate is to rebuild as best as we can visually inspect. Does not include any hidden or unseen damages. Remediation is currently in progress with containments in place during inspection. Estimate reflects re-installing existing countertops and rebuilding cabinet boxes as needed.

If any unforeseen scope items arise after containments are removed or during reconstruction a supplement will be submitted.

CONTINUED - Entry

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
Totals: Entry					245.07	4,523.24	27,139.42



Closet #2

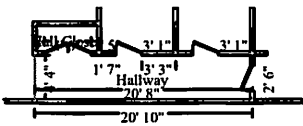
Height: 9'

192.77 SF Walls	26.10 SF Ceiling
218.87 SF Walls & Ceiling	26.10 SF Floor
2.90 SY Flooring	21.42 LF Floor Perimeter
21.42 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
18. Mask wall - plastic, paper, tape (per LF)	21.42 LF		0.00	3.97	0.45	17.10	102.59
19. 5/8" - drywall per LF - up to 2' tall	14.00 LF		0.00	30.80	1.82	86.60	519.62
20. Add for bullnose (rounded) corners - per LF	8.00 LF		0.00	11.75	0.48	18.90	113.38
21. Texture drywall - smooth / skim coat	64.00 SF		0.00	4.72	0.69	60.56	363.33
22. Cove base molding - rubber or vinyl, 4" high	21.42 LF		0.00	3.58	2.86	15.92	95.46
23. Mask and prep for paint - plastic, paper, tape (per LF)	71.42 LF		0.00	3.22	1.49	46.30	277.76
24. Seal/prime (1 coat) then paint (2 coats) the walls - 2 colors	192.77 SF		0.00	3.76	5.83	146.12	876.77
25. Clean floor	26.10 SF		0.00	1.33	0.02	6.94	41.67
Totals: Closet #2					13.64	398.44	2,390.58

Hallway

Height: 8'



366.67 SF Walls	89.56 SF Ceiling
456.22 SF Walls & Ceiling	89.56 SF Floor
9.95 SY Flooring	45.83 LF Floor Perimeter
45.83 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
26. Mask wall - plastic, paper, tape (per LF)	45.83 LF		0.00	3.97	0.96	36.60	219.51
27. 5/8" - drywall per LF - up to 2' tall	45.83 LF		0.00	30.80	5.97	283.52	1,701.05

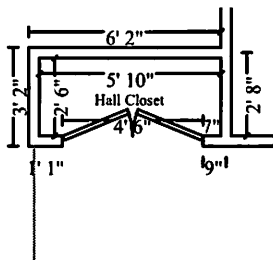
SOUTH-OC-WATER(STR)

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CONTINUED - Hallway

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
28. Add for bullnose (rounded) corners - per LF	12.00 LF		0.00	11.75	0.73	28.34	170.07
29. Texture drywall - smooth / skim coat	183.33 SF		0.00	4.72	1.99	173.46	1,040.77
30. Baseboard - 4 1/4"	45.83 LF		0.00	8.75	9.98	82.20	493.19
31. Additional labor charge for rounded corners	4.00 EA		0.00	21.56	0.00	17.24	103.48
32. Mask and prep for paint - plastic, paper, tape (per LF)	45.83 LF		0.00	3.22	0.96	29.72	178.25
33. Seal/prime (1 coat) then paint (2 coats) the walls	366.67 SF		0.00	3.04	11.08	225.16	1,350.92
34. Paint baseboard, oversized - two coats	45.83 LF		0.00	3.82	0.96	35.22	211.25
35. Clean floor	89.56 SF		0.00	1.33	0.07	23.84	143.02
Totals: Hallway					32.70	935.30	5,611.51

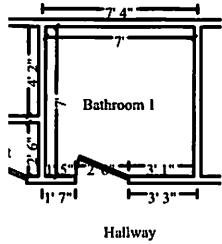


Hall Closet

Height: 8'

133.33 SF Walls	14.58 SF Ceiling
147.92 SF Walls & Ceiling	14.58 SF Floor
1.62 SY Flooring	16.67 LF Floor Perimeter
16.67 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
36. Mask wall - plastic, paper, tape (per LF)	16.67 LF		0.00	3.97	0.35	13.32	79.85
37. 5/8" - drywall per LF - up to 2' tall	16.67 LF		0.00	30.80	2.17	103.12	618.73
38. Add for bullnose (rounded) corners - per LF	8.00 LF		0.00	11.75	0.48	18.90	113.38
39. Texture drywall - smooth / skim coat	66.67 SF		0.00	4.72	0.72	63.08	378.48
40. Baseboard - 4 1/4"	16.67 LF		0.00	8.75	3.63	29.90	179.39
41. Mask and prep for paint - plastic, paper, tape (per LF)	16.67 LF		0.00	3.22	0.35	10.82	64.85
42. Seal/prime (1 coat) then paint (2 coats) the walls	133.33 SF		0.00	3.04	4.03	81.86	491.21
43. Paint baseboard, oversized - two coats	16.67 LF		0.00	3.82	0.35	12.82	76.85
44. Clean floor	14.58 SF		0.00	1.33	0.01	3.88	23.28
Totals: Hall Closet					12.09	337.70	2,026.02



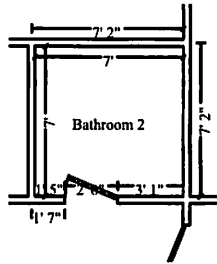
Bathroom 1

Height: 8'

224.00 SF Walls	49.00 SF Ceiling
273.00 SF Walls & Ceiling	49.00 SF Floor
5.44 SY Flooring	28.00 LF Floor Perimeter
28.00 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
45. Batt insulation - 4" - R13 - unfaced batt	56.00 SF		0.00	1.55	3.39	18.04	108.23
46. Mask wall - plastic, paper, tape (per LF)	28.00 LF		0.00	3.97	0.59	22.36	134.11
47. 5/8" - drywall per LF - up to 2' tall	28.00 LF		0.00	30.80	3.65	173.22	1,039.27
48. Texture drywall - smooth / skim coat	140.00 SF		0.00	4.47	1.52	125.46	752.78
49. Mask and prep for paint - plastic, paper, tape (per LF)	28.00 LF		0.00	3.22	0.59	18.16	108.91
50. Seal more than the floor perimeter w/latex based stain blocker - one coat	140.00 SF		0.00	1.49	1.09	41.94	251.63
51. Paint more than the floor perimeter - two coats	140.00 SF		0.00	2.26	3.58	64.00	383.98
52. Remove Ceramic/porcelain tile	84.00 SF		6.14	0.00	0.00	103.16	618.92
53. Ceramic/porcelain tile	126.00 SF		0.00	26.48	55.86	678.48	4,070.82
54. Ceramic tile base	28.00 LF		0.00	36.69	14.63	208.38	1,250.33
55. Tile / Cultured Marble Installer - per hour	2.00 HR		0.00	217.48	0.00	87.00	521.96
Applies to additional prep and labor to cut around plumbing.							
56. Detach & Reset Handicap grab bar - Stainless steel, 1 1/2" x 36"	2.00 EA	107.28	0.00	0.00	1.55	43.24	259.35
57. Install Paper towel dispenser - Detach & reset	1.00 EA		0.00	78.80	1.40	16.04	96.24
58. Toilet paper dispenser - Detach & reset	1.00 EA		0.00	93.54	0.00	18.70	112.24
59. Install Toilet seat cover dispenser - Detach & reset	1.00 EA		0.00	93.61	0.78	18.88	113.27
60. Soap/hand sanitizer dispenser - Detach & reset	1.00 EA		0.00	88.44	0.00	17.68	106.12
61. Plumbing Access Panel - Detach and reset	1.00 EA		0.00	20.15	0.00	4.04	24.19
62. Sink - wall mounted - Detach & reset	1.00 EA		0.00	588.19	0.11	117.66	705.96
63. R&R Angle stop valve	2.00 EA		15.36	73.26	1.93	35.82	214.99
64. Clean floor	49.00 SF		0.00	1.33	0.04	13.04	78.25

Totals: Bathroom 1 90.71 1,825.30 10,951.55
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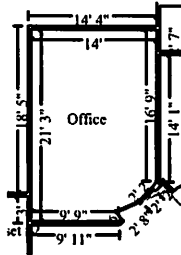
Bathroom 2

Height: 8'

224.00 SF Walls	49.00 SF Ceiling
273.00 SF Walls & Ceiling	49.00 SF Floor
5.44 SY Flooring	28.00 LF Floor Perimeter
28.00 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
65. Batt insulation - 4" - R13 - unfaced batt	56.00 SF		0.00	1.55	3.39	18.04	108.23
66. Mask wall - plastic, paper, tape (per LF)	28.00 LF		0.00	3.97	0.59	22.36	134.11
67. 5/8" - drywall per LF - up to 2' tall	28.00 LF		0.00	30.80	3.65	173.22	1,039.27
68. Texture drywall - smooth / skim coat	140.00 SF		0.00	4.47	1.52	125.46	752.78
69. Mask and prep for paint - plastic, paper, tape (per LF)	28.00 LF		0.00	3.22	0.59	18.16	108.91
70. Seal more than the floor perimeter w/latex based stain blocker - one coat	140.00 SF		0.00	1.49	1.09	41.94	251.63
71. Paint more than the floor perimeter - two coats	140.00 SF		0.00	2.26	3.58	64.00	383.98
72. Remove Ceramic/porcelain tile	84.00 SF		6.14	0.00	0.00	103.16	618.92
73. Ceramic/porcelain tile	126.00 SF		0.00	26.48	55.86	678.48	4,070.82
74. Ceramic tile base	28.00 LF		0.00	36.69	14.63	208.38	1,250.33
75. Tile / Cultured Marble Installer - per hour	2.00 HR		0.00	217.48	0.00	87.00	521.96
Applies to additional prep and labor to cut around plumbing.							
76. Detach & Reset Handicap grab bar - Stainless steel, 1 1/2" x 36"	2.00 EA	107.28	0.00	0.00	1.55	43.24	259.35
77. Install Paper towel dispenser - Detach & reset	1.00 EA		0.00	78.80	1.40	16.04	96.24
78. Toilet paper dispenser - Detach & reset	1.00 EA		0.00	93.54	0.00	18.70	112.24
79. Install Toilet seat cover dispenser - Detach & reset	1.00 EA		0.00	93.61	0.78	18.88	113.27
80. Soap/hand sanitizer dispenser - Detach & reset	1.00 EA		0.00	88.44	0.00	17.68	106.12
81. Plumbing Access Panel - Detach and reset	1.00 EA		0.00	30.15	0.00	6.04	36.19
82. Sink - wall mounted - Detach & reset	1.00 EA		0.00	588.19	0.11	117.66	705.96
83. R&R Angle stop valve	2.00 EA		15.36	73.26	1.93	35.82	214.99
84. Clean floor	49.00 SF		0.00	1.33	0.04	13.04	78.25

Totals: Bathroom 2					90.71	1,827.30	10,963.55
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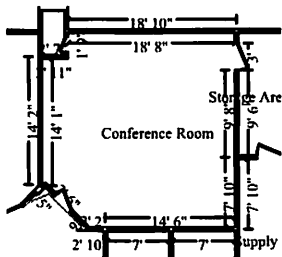
Office

Height: 9'

611.54 SF Walls
 899.74 SF Walls & Ceiling
 32.02 SY Flooring
 67.95 LF Ceil. Perimeter

288.20 SF Ceiling
 288.20 SF Floor
 67.95 LF Floor Perimeter

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
85. Mask wall - plastic, paper, tape (per LF)	55.00 LF		0.00	3.97	1.15	43.92	263.42
86. 5/8" - drywall per LF - up to 2' tall	52.00 LF		0.00	30.80	6.77	321.68	1,930.05
87. Add for bullnose (rounded) corners - per LF	12.00 LF		0.00	11.75	0.73	28.34	170.07
88. Texture drywall - smooth / skim coat	220.00 SF		0.00	4.72	2.39	208.16	1,248.95
89. Cove base molding - rubber or vinyl, 4" high	67.95 LF		0.00	3.58	9.06	50.48	302.80
90. Mask and prep for paint - plastic, paper, tape (per LF)	67.95 LF		0.00	3.22	1.42	44.04	264.26
91. Seal/prime (1 coat) then paint (2 coats) the walls - 2 colors	611.54 SF		0.00	3.76	18.48	463.58	2,781.45
92. Contents - move out then reset	1.00 EA		0.00	191.64	0.00	38.32	229.96
93. Clean floor	288.20 SF		0.00	1.33	0.22	76.70	460.23
Totals: Office					40.22	1,275.22	7,651.19

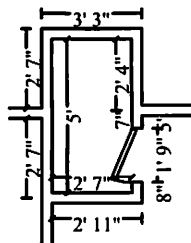


Conference Room

Height: 9'

762.78 SF Walls
 1,207.77 SF Walls & Ceiling
 49.44 SY Flooring
 84.75 LF Ceil. Perimeter

445.00 SF Ceiling
 445.00 SF Floor
 84.75 LF Floor Perimeter



Subroom: Conference Closet (1)

Height: 9'

136.50 SF Walls
 149.42 SF Walls & Ceiling
 1.44 SY Flooring
 15.17 LF Ceil. Perimeter

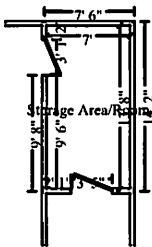
12.92 SF Ceiling
 12.92 SF Floor
 15.17 LF Floor Perimeter

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
SOUTH-OC-WATER(STR)					10/22/2025		Page: 7

CONTINUED - Conference Room

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
94. Mask wall - plastic, paper, tape (per LF)	85.00 LF		0.00	3.97	1.78	67.86	407.09
95. 5/8" - drywall per LF - up to 2' tall	80.00 LF		0.00	30.80	10.42	494.88	2,969.30
96. Add for bullnose (rounded) corners - per LF	60.00 LF		0.00	11.75	3.63	141.72	850.35
97. Texture drywall - smooth / skim coat	320.00 SF		0.00	4.72	3.47	302.78	1,816.65
98. Cove base molding - rubber or vinyl, 4" high	99.92 LF		0.00	3.58	13.32	74.20	445.23
99. Mask and prep for paint - plastic, paper, tape (per LF)	99.92 LF		0.00	3.22	2.09	64.76	388.59
100. Seal/prime (1 coat) then paint (2 coats) the walls - 2 colors	899.28 SF		0.00	3.76	27.18	681.70	4,090.17
101. Cabinetry - Repair and Install	8.00 LF		0.00	346.36	143.46	582.88	3,497.22
102. Install Countertop -Install existing	8.00 LF		0.00	39.64	0.00	63.42	380.54
103. Install Sink - single	1.00 EA		0.00	243.10	0.00	48.62	291.72
104. Install P-trap assembly - ABS (plastic)	1.00 EA		0.00	121.56	0.00	24.32	145.88
105. Plumbing fixture supply line	2.00 EA		0.00	37.14	1.05	15.08	90.41
106. Clean floor	457.91 SF		0.00	1.33	0.35	121.88	731.25

Totals: Conference Room 206.75 2,684.10 16,104.40



Storage Area/Room

Height: 9'

372.00 SF Walls	95.67 SF Ceiling
467.67 SF Walls & Ceiling	95.67 SF Floor
10.63 SY Flooring	41.33 LF Floor Perimeter
41.33 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
107. Mask wall - plastic, paper, tape (per LF)	41.33 LF		0.00	3.97	0.86	33.00	197.94
108. 5/8" - drywall per LF - up to 2' tall	32.00 LF		0.00	30.80	4.17	197.96	1,187.73
109. Add for bullnose (rounded) corners - per LF	10.00 LF		0.00	11.75	0.60	23.62	141.72
110. Texture drywall - smooth / skim coat	165.33 SF		0.00	4.72	1.79	156.44	938.59
111. Cove base molding - rubber or vinyl, 4" high	41.33 LF		0.00	3.58	5.51	30.70	184.17

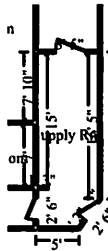
SOUTH-OC-WATER(STR)

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CONTINUED - Storage Area/Room

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
112. Mask and prep for paint - plastic, paper, tape (per LF)	41.33 LF		0.00	3.22	0.86	26.80	160.74
113. Seal/prime (1 coat) then paint (2 coats) the walls - 2 colors	372.00 SF		0.00	3.76	11.24	281.98	1,691.94
114. Clean floor	95.67 SF		0.00	1.33	0.07	25.46	152.77
Totals: Storage Area/Room					25.10	775.96	4,655.60



Supply Rm

Height: 8'

433.86 SF Walls	133.33 SF Ceiling
567.18 SF Walls & Ceiling	133.33 SF Floor
14.81 SY Flooring	54.23 LF Floor Perimeter
54.23 LF Ceil. Perimeter	

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
115. Mask wall - plastic, paper, tape (per LF)	85.00 LF		0.00	3.97	1.78	67.86	407.09
116. 5/8" - drywall per LF - up to 2' tall	80.00 LF		0.00	30.80	10.42	494.88	2,969.30
117. Add for bullnose (rounded) corners - per LF	60.00 LF		0.00	11.75	3.63	141.72	850.35
118. Texture drywall - smooth / skim coat	320.00 SF		0.00	4.72	3.47	302.78	1,816.65
119. Cove base molding - rubber or vinyl, 4" high	54.23 LF		0.00	3.58	7.23	40.26	241.63
120. Mask and prep for paint - plastic, paper, tape (per LF)	54.23 LF		0.00	3.22	1.13	35.14	210.89
121. Seal/prime (1 coat) then paint (2 coats) the walls - 2 colors	433.86 SF		0.00	3.76	13.11	328.88	1,973.30
122. Cabinetry - Repair and Install	14.00 LF		0.00	346.36	251.05	1,020.02	6,120.11
123. Install Countertop -Install existing	14.00 LF		0.00	39.64	0.00	111.00	665.96
124. Clean floor	133.33 SF		0.00	1.33	0.10	35.48	212.91
Totals: Supply Rm					291.92	2,578.02	15,468.19
Total: Main Level					1,048.91	17,160.58	102,962.01

General

CONTINUED - General

DESCRIPTION	QTY	RESET	REMOVE	REPLACE	TAX	O&P	TOTAL
125. Haul debris - per pickup truck load - including dump fees	1.00 EA		402.24	0.00	5.04	81.44	488.72
126. Cleaning Technician - per hour	16.00 HR		0.00	133.00	0.00	425.60	2,553.60
127. Commercial Supervision / Project Management - per hour	8.00 HR		0.00	183.36	0.00	293.38	1,760.26
Totals: General					5.04	800.42	4,802.58
Line Item Totals: SOUTH-OC-WATER(STR)					1,053.95	17,961.00	107,764.59

Grand Total Areas:

4,764.82 SF Walls	1,548.43 SF Ceiling	6,313.25 SF Walls and Ceiling
1,548.43 SF Floor	172.05 SY Flooring	492.61 LF Floor Perimeter
0.00 SF Long Wall	0.00 SF Short Wall	501.28 LF Ceil. Perimeter
1,548.43 Floor Area	1,660.57 Total Area	5,046.81 Interior Wall Area
2,105.02 Exterior Wall Area	202.39 Exterior Perimeter of Walls	
0.00 Surface Area	0.00 Number of Squares	0.00 Total Perimeter Length
0.00 Total Ridge Length	0.00 Total Hip Length	

Summary



Line Item Total	88,749.64
Material Sales Tax	1,053.95
Subtotal	89,803.59
Overhead	8,980.50
Profit	8,980.50
Replacement Cost Value	\$107,764.59
Net Claim	\$107,764.59

Andy Olsen

Activities

- Home
- Purchasing
- Requisitions
- Receiving

Activities

-  View All Requisitions
-  View My Requisitions

Requisition 15347

Created By: jjones **Approval Rule:** CPO - CTP
Status: Approved [Show Rule Details](#)
Description: RESTORATION / SERVICE / REMODEL ADMIN OFFICE

Total: ~~107,764.59~~ **107,764.59**

Line Items

Line #	Line Item Description	Quantity	Unit Cost	Extended Price	Status
1	<u>RESTORATION / SERVICE / REMODEL ADMIN OFFICE</u>	107,764.5900	\$1.000	\$107,764.59	Approved View

Vendor: Preferred Restoration Inc.

Attributes

No Attributes Associated.

History of Changes

Item Changed	Previous Setting	New Setting	Changed On	Changed By
Status	Editing	Submitted	10/23/2025	jjones
Status	Submitted	Approved	10/23/2025	abaylor

Agenda Item

7.E.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors
FROM: Amber Boone, General Manager
SUBJECT: Ocean Institute Partnership Opportunity Funding Strategy

Executive Summary

The SOCWA Board met on September 4, 2025 and directed SOCWA staff to review the fiscal impact of a new partnership with the Ocean Institute and directed the Finance Committee to review the fiscal impact of the proposed cost share.

Fiscal Impact

Following the board's request for details on how to pay for this sponsorship, the proposal allocation is contained herein with two cost-splitting options for the \$50,000 sponsorship among member agencies and participating agencies: (1) proportional split based on each agency's percentage of the total O&M before Admin, GF, UAL, and OPEB; and (2) equal split among the 6 board-represented member agencies (City of Laguna Beach, City of San Clemente, El Toro Water District, Emerald Bay Service District, Santa Margarita Water District, and South Coast Water District). Note that under the proportional split, additional carry-over and other allocations are billed separately as shown.

Option 1: Proportional Split Based on O&M Percentages

Agency	Percentage	Amount (\$)
City of Laguna Beach	11.85%	5,925
City of San Clemente	1.41%	705
El Toro Water District	0.96%	480
Emerald Bay Service District	0.70%	350
IRWD (C.O. ETWD)	1.09%	545
MNWD (C.O. ETWD)	2.43%	1,215
Moulton Niguel Water District	4.33%	2,165

Santa Margarita Water District	34.64%	17,320
MNWD (C.O. SMWD)	0.57%	285
South Coast Water District	28.97%	14,485
MNWD (C.O. SCWD)	13.04%	6,520
Total	100.00%	50,000

Option 2: Equal Split Among 6 Board-Represented Agencies

Agency	Amount (\$)
City of Laguna Beach	8,333.33
City of San Clemente	8,333.33
El Toro Water District	8,333.33
Emerald Bay Service District	8,333.33
Santa Margarita Water District	8,333.33
South Coast Water District	8,333.33
Total	50,000

Additionally, below is a comparison of payment structures: flat fee versus annual basis. The sponsorship covers a five-year period, so the annual option assumes equal payments spread over five years (e.g., \$10,000 per year).

Payment Structure	Flat Fee (\$50,000 One-Time)	Annual Basis (\$10,000/Year for 5 Years)
Pros	Secures full partnership upfront	Spreads financial impact over multiple fiscal years
	Simplifies administration	Improves cash flow and budget flexibility
	Cost certainty without future adjustments	Allows for annual review or adjustments if needed

	Possible discount for upfront payment (to be negotiated)	
Cons	Larger immediate impact on current fiscal year's budget	May involve additional administrative effort for recurring payments
	Requires immediate availability of funds	
Total Cost	\$50,000	\$50,000

Minor internal costs for content development are anticipated regardless of the chosen option. The sponsorship would need a budget adjustment due to no budgeted funds for Public Relations for FY 25-26.

Recommended Action: The Finance Committee recommends to the SOCWA Board of Directors Option 2: Equal Split of \$50,000 among six (6) Board-Represented Agencies with a payment structure of \$10,000 per year over the next five years.

MEMORANDUM OF UNDERSTANDING

Between

South Orange County Wastewater Authority (“SOCWA”) and Ocean Institute (“OI”)

Effective Date: October 1, 2025

1. Purpose

This Memorandum of Understanding (“MOU”) sets forth the collaboration between SOCWA and OI to support the Ocean Institute’s Educational Signage, water refill stations, and Stan Cummings Internship Scholars program during the 2025–2026 school year. The partnership will:

1. highlight SOCWA’s best practices to collect, treat, beneficially reuse, and dispose of wastewater in a manner that protects and respects the environment, maintains public health
2. advance OI’s mission by engaging students and the public with high-quality educational materials about the importance of SOCWA’s role in safe wastewater practices
3. increase equitable access for OI Interns by sponsoring their roles with 3 water-focused practices.

2. Definitions

- **SOCWA:** South Orange County Wastewater Authority
- **OI:** Ocean Institute

3. Funding and Allocation

3.1 Amount. SOCWA will provide fifty thousand dollars (\$50,000) to OI.

3.2 Allocation. SOCWA funding will support the full scope of work and costs for educational signage around OI’s campus, water refill stations, and 3 interns and their water-focused projects.

3.3 Good-Faith Use. OI will use funds in good faith to maximize student and community impact and to advance the educational goals of Ocean Institute and SOCWA.

3.4 Financial Administration. OI will track expenditures consistent with standard nonprofit accounting practices and make records related to this MOU available to SOCWA upon request.

4. Recognition and Branding

4.1 Logo Placements. SOCWA’s logo will be displayed at:

(a) the donor wall in our gift shop, (b) all educational signs with SOCWA information (c) all signs on/near the water refill stations to highlight their support.

4.2 **Brand Guidelines.** Each party will follow the other party's brand guidelines, as provided.

4.3 **Licenses.** Each party grants the other a non-exclusive, royalty-free, non-transferable license to use its name and marks solely for recognition and activities under this MOU, subject to prior written approval (email acceptable).

5. Educational Content and Signage

5.1 **Content Collaboration.** SOCWA and OI will collaborate on educational content that explains SOCWA's mission, best practices, and clearly connects these topics to OI and our educational curriculum related to water, water quality, and protecting and sustaining our oceans.

5.2 **Materials Provision.** SOCWA will provide to OI the educational material for signage, as well as imagery and logos.

5.3 Design and Approval Workflow.

(a) OI will design the signage that incorporates SOCWA-provided materials and OI educational framing.

(b) OI will submit draft designs to SOCWA for factual and brand review.

(c) SOCWA will provide consolidated feedback or approval within five (5) business days of receipt.

(d) OI will make reasonable revisions and resubmit to SOCWA for final approval.

(e) Fabrication and installation will occur only after SOCWA's written approval (email is acceptable)

5.4 **Editorial Control and Accuracy.** OI retains final editorial control over visitor experience, pedagogy, and interpretive tone. SOCWA will have factual review over content describing SOCWA operations and brand usage.

5.5 **Accessibility and Quality.** Signage will be designed to be durable, legible, and visitor-friendly, and in compliance with applicable accessibility standards.

5.6 **Maintenance.** OI will maintain signage in good repair during the Term and use reasonable efforts to repair or replace damaged or faded signage within a commercially reasonable period.

6. Facilities Use Benefits (In-Kind)

6.1 **Boardroom Rental.** SOCWA will receive four (4) uses of the OI Boardroom during the first year of the contract (October 1, 2025-October 1, 2026), subject to availability (events must fall between Monday-Friday), with a total in-kind value of ~\$200/hour. (Boardroom can hold a maximum of 12 sitting guests at the boardroom table).

6.2 **Scheduling.** Each use must be scheduled at least one (1) month in advance. Blackout dates may apply, including major OI programs and events such as the Maritime Festival.

6.3 Scope of Use. Standard use includes access to the Boardroom for up to four (4) hours, basic on-hand furniture (tables and chairs), and standard on-site coordination. As part of the partnership, OI will also provide a short presence during the event to welcome guests and share information about the Ocean Institute and its mission. This presence may include a brief (5–10 minute) welcome or remarks by an OI representative, distribution of informational materials, and/or a small display table with exhibit or program highlights. The exact format will be coordinated in advance with SOCWA to complement the event schedule. Additional services (rentals, audiovisual, security, catering, special staffing, extended time, cleaning beyond standard levels) are at SOCWA's expense at OI's prevailing rates.

6.4 Rescheduling and Weather. If severe weather or operational constraints require a change, OI will offer a comparable alternative date. SOCWA rescheduling and cancellations will follow OI standard policies.

6.5 Unredeemed Uses. Any Surf Deck uses not redeemed by October 1, 2026 expire and are not refundable or transferable.

7. Donor Tours

7.1 Benefit. Upon request, OI will host donor tours for SOCWA for up to ten (10) guests per tour.

7.2 Scheduling. Tours must be scheduled at least three (3) days in advance and are subject to operations and staffing.

7.3 Experience. Content and route may vary based on safety and daily operations. All guests must follow OI safety and facility rules.

8. Communications and Publicity

8.1 Announcements. The parties may issue joint or individual announcements regarding the partnership. Drafts will be shared with the other party prior to implementation and presentation.

8.2 Attribution. OI may recognize SOCWA on-site, on its website, and on social channels consistent with this MOU and OI donor recognition standards.

9. Reporting and Evaluation

9.1 Interim Check-ins. Upon request, OI will provide brief progress updates throughout the year.

9.2 Funding Report. Upon request, OI can provide progress report related to spending of the \$50,000.

10. Timeline and Deliverables

10.1 Materials Delivery. SOCWA will provide educational material, imagery, logos, and brand guidelines within ten (10) business days of the Effective Date, or as otherwise mutually agreed.

10.2 **Design Milestones.** OI will provide concept signage layouts within ten (10) business days of receiving complete SOCWA materials. Review and revision cycles will proceed under Section 5.3.

10.3 **Installation Target.** Following SOCWA approval, OI will proceed to fabrication and installation on a mutually agreed timeline, taking into account production lead times and site conditions for all educational materials/signage.

10.4 **Internship Programs:** OI Internships run from October – June. SOCWA will be invited to watch the interns present their projects at the Internship Showcase in June 2026.

11. Compliance, Safety, and Operations

11.1 **Compliance.** Each party will comply with applicable laws and regulations.

11.2 **Operations.** OI retains discretion over campus operations, scheduling, and safety. OI may limit access to areas as needed for safety or program integrity.

12. Indemnification

To the extent permitted by law, each party will indemnify and hold harmless the other party and its officers, employees, and agents from third-party claims arising out of the indemnifying party's negligent acts or omissions in connection with this MOU.

13. Intellectual Property

14.1 **Pre-Existing IP.** Each party retains ownership of its pre-existing intellectual property.

13.2 **New Educational Content.** Educational content jointly developed for the Estuary Exhibit may be used by each party for commercial and noncommercial educational purposes with appropriate attribution.

13.3 **Brand Integrity.** Nothing in this MOU transfers ownership of names, marks, or logos.

14. Term, Termination, and Suspension

14.1 **Term and Renewal.** This MOU shall remain in effect for a period of five (5) years from the Effective Date, unless terminated earlier by either party. (October 1, 2025- October 1, 2030)

At the conclusion of the five (5) year term:

- a) The parties will review the outcomes of the partnership, including programmatic impact, community benefit, and alignment with each organization's mission.
- b) The MOU will expire automatically unless extended or renewed in writing by mutual agreement of both parties.
- c) Renewal of the partnership will require a renewal of funding.
- d) Either party may propose modifications or new terms to continue, expand, or restructure the partnership.

- e) In the absence of renewal, both parties will work in good faith to ensure an orderly transition, including the completion of any projects or commitments already in progress.

14.2 Termination for Convenience. Either party may terminate with thirty (30) days' written notice.

14.3 Termination for Cause. Either party may terminate upon material breach by the other party that remains uncured thirty (30) days after written notice.

14.4 Term, Renewal, and Effect of Termination. The initial term of this Agreement shall be five (5) years, commencing on the Effective Date ("Initial Term"). Upon expiration of the Initial Term, SOCWA shall have the option to renew its sponsorship for successive five (5) year terms (each, a "Renewal Term"), subject to mutual written agreement of the Parties and availability of funding. There shall be no limit to the number of Renewal Terms SOCWA may elect to enter into, provided that such renewals are documented in writing by both Parties.

Recognition signage associated with this Agreement shall remain in place for the duration of the Initial Term and, if applicable, any Renewal Term(s). During each Renewal Term, recognition signage may, at SOCWA's election and subject to funding, be renewed in its existing form, replaced with updated signage, or allowed to remain in place without modification.

If SOCWA elects not to renew, OI shall, where feasible, complete any scheduled SOCWA-funded programs or refund uncommitted funds on a prorated basis. Recognition signage may remain in place for up to an additional five (5) years from the date of the most recent term's expiration, unless (i) SOCWA provides written notice requesting removal, or (ii) OI secures new funding that necessitates replacement of the signage. In the absence of a Renewal Term, OI shall be free, in its sole discretion, to offer new partnerships and sponsorships, including program sponsorships, recognition signage, naming opportunities, and other benefits, to third parties. Upon receipt of a written request from SOCWA, OI shall remove signage within a commercially reasonable period of time.

14.5 Suspension. OI may temporarily suspend access or benefits when required by safety, facility, or operational necessity.

15. Force Majeure

Neither party will be liable for delay or failure to perform due to causes beyond its reasonable control, including acts of nature, severe weather, labor disputes, governmental actions, or emergencies. The affected party will promptly notify the other and use reasonable efforts to resume performance.

16. Relationship of the Parties; Non-Exclusivity

The parties are independent and not agents or partners of each other. This MOU is non-exclusive and all benefits are non-transferable.

17. Assignment; Entire Agreement; Amendments; Waiver; Severability; Counterparts

This MOU may not be assigned without prior written consent of the other party. This MOU is the entire agreement on the subject matter and supersedes prior discussions. Amendments must be in writing and signed by both parties. Failure to enforce any provision is not a waiver. If any provision is held invalid, the remaining provisions remain in effect. This MOU may be executed in counterparts and by electronic signatures.

Signatures

South Orange County Wastewater Authority

By: _____

Name: _____

Title: _____

Date: _____

South Orange County Wastewater Authority

By: _____

Name: _____

Title: _____

Date: _____

Ocean Institute

By: _____

Name: Kaitlyn Davidson

Title: Senior Development and Marketing Manager

Date: _____

Ocean Institute

By: _____

Name: Riley Russell

Title: Director of Education and Operations

Date: _____

Schedule A — Boardroom Use and Terms

1. Four (4) use of the OI Boardroom; total in-kind value of ~\$200/hour. Must be used in the first year of the year of the 5 year term.
2. Schedule each use at least one (1) month in advance; subject to availability and OI policies.
3. Blackout dates include major public programs and fundraising events.
4. SOCWA is responsible for third-party rentals, catering, specialty AV, special staffing, extended time, and cleaning beyond standard levels.
5. All guests must follow OI safety and conduct policies.
6. Weather or operational impacts may require relocation or rescheduling at OI discretion.
7. Unused benefits expire October 1, 2026

Schedule B — Donor Tours

1. Up to ten (10) guests per tour; three (3) days advance scheduling; subject to availability.
2. Content and route may vary based on operations and safety.
3. Photography or recording may be limited in certain areas.
4. If weather or operations prevent a planned experience, OI will offer a comparable alternative.

Schedule C — Branding and Signage

1. Logo placements: fence-line entrance, P-Lab, (potential ROV Tank placement- pending facilities needs)
2. Materials provision: SOCWA will provide educational material and content, imagery, logos, and brand guidelines.
3. Design and approval: OI designs; SOCWA reviews for factual accuracy and brand use; OI secures SOCWA written approval before fabrication and installation.
4. Editorial control: OI retains final interpretive control; SOCWA retains factual review for SOCWA operations.
5. Maintenance: OI will maintain and, if needed, repair or replace signage in a commercially reasonable time.
6. Accessibility: OI will design for legibility and visitor experience.

Schedule D — Project Timeline and Approvals

1. SOCWA to deliver Materials and brand guidelines within 10 business days of Effective Date.
2. OI to deliver concept layouts within 10 business days of complete Materials receipt.
3. SOCWA to provide feedback or approval within 10 business days per submission.
4. Fabrication begins after SOCWA final approval; installation scheduled per vendor lead times and site readiness.
5. Target installation window: At earliest dates, subject to vendor and site conditions.

Agenda Item

7.F.

Board of Directors Meeting

Meeting Date: November 6, 2025

TO: Board of Directors
FROM: Amber Boone, General Manager
SUBJECT: WEFTEC 2025 Summary

Executive Summary

This report summarizes key sessions, takeaways, booth visits, technologies, panel presentation, and actionable ideas from WEFTEC 2025 (September 29 – October 1, Chicago, IL), focusing on wastewater treatment innovations, AI integration, asset management, and process optimization for potential SOCWA applications. Staff members in attendance were Amber Boone, Jim Burror, Roni Grant, and Bob Culver, with updates from each staff member included in this report.

Overview

Attendance at WEFTEC 2025 encompassed a range of technical sessions addressing topics such as AI applications, biosolids management, asset management strategies, and emerging technologies. The event also included booth visits to explore flow metering solutions, sensor technologies, and AI tools, along with networking opportunities. Prominent themes throughout the conference involved the adoption of AI in utility operations, process intensification techniques, PFAS source tracking, and sustainable approaches to biosolids management. Amber Boone gave three presentations at WEFTEC: Saturday, September 27, 2025 (Generative AI Workshop), Monday, September 29, 2025 (Innovation Pavillion), and Tuesday, September 20, 2025 (Water/AI Nexus Theater).

Daily Sessions and Activities

Monday, September 29

AI-Related Sessions and Items

The "AI Data Exchange" session showcased Palantir Foundry applications at Pima County and the California Data Collaborative's Wavelet platform, emphasizing new data focus and operator-in-loop control for 20% power savings.

Physical Infrastructure-Related Sessions and Items

Technical sessions covered Membrane Bioreactor (MBR) optimization for better effluent and energy efficiency, biosolids planning for resource recovery, asset management frameworks for longevity and cost control, capital planning for efficient project delivery, and low SRT MABR dynamics for system stability. Activities included meetings with Carollo and Coombs Hopkins, plus booth visits to Brentwood and Ovivo. In the expo, flow metering options like Teledyne ISCO

and US Flow showed promise for ACOO-San Juan/Oso sewers with site visits scheduled, while sensors from Sentry and Proteus offered microbial and multi-parameter monitoring. The biosolids evaluation reviewed technologies like Suspended Air Flotation (SAF), Electro Osmosis Dehydrator (ELODE), low-temp drying, pyrolysis, and gasification, with enhancement options ready for adoption despite disruptive tech's higher costs.

Tuesday, September 30

AI-Related Sessions and Items

Tuesday's sessions on AI included explorations of its evolution to agentic systems with workforce preparation needs, utility projects yielding cost savings, digital asset tools demanding data governance, agent capabilities using ensemble models, AI for NO₂ control with proprietary models and data cleaning, GenAI roles including regulator engagement, PFAS ML fingerprinting for source identification, and strategies to overcome barriers like starting small and ISO 42001 compliance.

Physical Infrastructure-Related Sessions and Items

Sessions also covered advanced aeration challenges requiring pilots and collaboration, nanobubbles for treatment intensification, and carbon-based IPR/DPR as a cost-effective alternative. Activities included a meeting with Coombs Hopkins and booth visits to Arzen Blowers, Moleaer, Frontmatec, and Vulcan.

Wednesday, October 1

AI-Related Sessions and Items

Wednesday featured sessions on strategic AI integration for transformation via infrastructure and culture, CVWRF's phased AI analytics emphasizing engagement, and hybrid modeling for N₂O reduction achieving 65–70% accuracy with 2025 tests. In the expo, Aquatic Informatics' beta Rio Digital Twin for wastewater prompted a scheduled demo for SCADA/WIMS integration and potential pilot.

Physical Infrastructure-Related Sessions and Items

Sessions also covered intensification beyond BNR with tailored hybrids, wastewater epidemiology programs like CDC NWSS for disease tracking and metagenomics, and the Water Leadership Institute for networking, recommended for 2027 application. In the expo, Hach's SL250 analyzer provided EPA-approved tests for parameters like chlorine.

Key Technologies and Innovations Summary

AI-Related Items

AI platforms like Trinnex waterCAST offered explainable data unification and anomaly detection, GE Vernova's Proficy provided predictive analytics expanding to water, and Infinitii AI delivered cloud-based predictions and QA/QC with API support. Other AI innovations included TDK SenseI's edgeRX for condition monitoring via vibration and AI computer vision, Artesis' sensorless maintenance using AI/ML-based electrical signature analysis, HydroDigital's digital twins for real-time decision support in sewers, and IoT gateways for enhancing PLC trends and data integration. Online sensors from Proteus and Sentry supported BOD/TSS monitoring to aid

AI modeling and reduce sampling. Sankey Diagrams were noted as a new visualization technique potentially useful for AI-driven reports.

Physical Infrastructure-Related Items

Standout physical technologies included PWTech's Volute Thickener/Press 3.0 for low-energy sludge handling to over 20% TS, IOTSENS for user-friendly open-architecture integration with vendors like Siemens and Honeywell, Ecological Labs' microbial seeding for adjusting treatment regimes, LCI Thin Film Dryer for compact 85–95% TS processing, Moleaer's nanobubbles for 20–45% efficiency gains in California installations, and AeMBR for reuse-quality effluent in small footprints despite energy trade-offs. New terms like Process Intensification (PI) for capacity boosts in existing setups and Densification (DAS) for improved settling were highlighted.

Ideas for SOCWA

AI-Related Items

Conference ideas included developing a Water Information Management System (WIMS) model for periodic data checking and correcting to ensure accuracy, using agents as an alternative to consolidating data or models for flexible handling, smoothing old data gaps without detailed reviews to enable transfer learning-based model retraining as datasets improve, and piloting the Rio Digital Twin to integrate SCADA with WIMS and additional sensors at one plant. Incorporating online sensors for AI modeling in primary/secondary effluents and digesters could reduce lab sampling needs

Physical Infrastructure-Related Items

Ideas also encompassed installing smart controllers on top of SCADA PLCs to enhance trends and functionality, with attendance at a future Rockwell Automation conference for deeper insights into SCADA applications in water management. For the Low Dissolved Oxygen (DO) project, query AECOM on using microbial seeding from vendors like Ecological Labs to expedite the transition to a new treatment regime, and explore Westech's process for switching from DO to ammonia control, which has demonstrated effective results. Staff is planning on attending a demonstration of Moleaer's nanobubble technology.

New Resources

The Water Research Foundation's Machine Learning (ML) Toolkit for Water Process Control provides case studies with workflows, Google Colab code, and videos on topics like carbon diversion, dosage optimization, struvite prediction, and biosolids optimization. Python/ML resources include UC Berkeley fundamentals, Geeks for Geeks tutorials, Machine Learning Mastery's step-by-step guide, and Google's Colab tutorial with an ML glossary.

Conclusion

WEFTEC 2025 showcased AI's role in optimization, with examples like Palantir yielding 20%+ savings, though challenges include data cleaning, skills, and regulations. Recommend scheduling vendor follow-ups with Teledyne, Trinnex, and GE; investigating nanobubbles/AeMBR for intensification; applying for Water Leadership Institute 2027; and piloting AI sensors/tools at one plant. Focus on incremental AI adoption for ROI in energy, compliance, and efficiency.

Recommended Action: Information Item

Agenda Item

7.G.

Legal Counsel Review: No

Meeting Date: November 6, 2025

TO: SOCWA Board of Directors
FROM: Amber Boone, SOCWA General Manager
SUBJECT: General Manager's Report

Orange County Taxpayers Association Roses and Radishes Award

On October 29, 2025, SOCWA was one of three organizations that were awarded the “Roses” award for the 2024 Reorganization Efforts. Elected officials from Santa Margarita Water District (Laura Freese and Sandra Jacobs) were in attendance. SOCWA’s Executive Committee members, Kathryn Freshley, Scott Goldman, and Frank Ury attended the ceremony, and Frank Ury accepted the award with General Manager Boone at the event.



External Presentations

On August 20, 2025, SOCWA staff delivered an AI overview presentation at the OCWA meeting. This was followed by a similar presentation at the SMWD meeting on August 25, 2025, and on October 16, 2025, SOCWA staff provided an AI overview at the SCWD Board meeting.

Waste Discharge Agreement

On June 30, 2025, the second amendment to Waste Discharge Agreement was executed by SOCWA and the 34 cities of Orange County, to extend negotiations of new rate fees for disposal of trash and biosolids in the Prima Deshecha landfill by June 30, 2026. SOCWA staff have been

participating in the coordination meetings. The two options increase tipping fees over the next three years in the double-digit range but due to the minor impact per customer and the need to restore the imbalance of funds at the landfill. The group is requesting additional true ups at the end of each year to reflect the balance of funds to avoid such large fees in proceeding years.

General Manager's Working Group

The SOCWA General Manager's met on June 25, 2025, to provide SOCWA staff with recommendations based on the MOU on an innovative service model for SOCWA. SOCWA staff provided a memo for five potential areas to focus on over FY 25-26 and FY 26-27 for the managers to consider. The SOCWA General Managers were interested in Artificial Intelligence and Exfiltration as the key focal areas for SOCWA staff to focus on.

Artificial Intelligence

Attached to this board report is Water Research Foundation Project 5321 White Paper on Generative AI's role in boosting water sector efficiency and resilience against challenges like aging infrastructure and water scarcity. Key findings include opportunities for unifying expertise, piloting GenAI applications (e.g., in digital twins for infrastructure modeling), sharing knowledge, and mitigating risks. It introduces the foundational understanding, common vocabulary, and utility experiments, with case studies from DC Water, Hampton Roads Sanitation District, and SOCWA (VoiceSOP.org).

Exfiltration

The San Diego Regional Water Quality Control Board adopted Investigative Order No. R9-2019-0014 in June 2019, mandating regulated parties to submit technical and monitoring reports quantifying sources and transport pathways of human fecal material in the lower San Diego River watershed with the study results commencing in 2024. The findings of the study pointed to exfiltration from sewers as a source of contamination in a watershed despite a transport mechanism identified in the results. On February 28, 2025, SOCWA hosted a Clean Water SoCal meeting to discuss the next steps for implementing evaluations of exfiltration discovery. Although regulated under the San Diego Regional Water Quality Control Board region, SOCWA has not yet been named in a similar study, but this exercise enables proactive identification of potential issues not fully resolved in the San Diego study. By collaborating with the County of Orange and industry partners, SOCWA will lead the study in alignment with broader exfiltration efforts in the Los Angeles region.

CASA Innovative Technology Seminar

The Innovative Technology Seminar was held on October 28, 2025, at Orange County Sanitation (OC San), convened industry experts to present state-of-the-art solutions for wastewater treatment, with a primary focus on per- and polyfluoroalkyl substances (PFAS) remediation. Key discussions encompassed microbial, thermal, and collaborative strategies to enhance efficiency, regulatory compliance, and resource recovery. Morning sessions addressed hydrogen integration for energy optimization via co-located production facilities utilizing recycled water for electrolysis; enzymatic microbial degradation of PFAS with proven applications in contaminated sites; and modeling tools for PFAS mobility in biosolids-amended soils using mathematical simulations for migration and leaching. Afternoon presentations covered AI-optimized anaerobic digestion for biogas yield improvement through parameter monitoring (e.g., temperature and pH); gasification

for sludge conversion to biochar and vitrified ash in oxygen-limited environments; and integrated dewatering systems for carbon-negative commodity production.

Jon Teaford from Green Steel Environmental presented on nutrient removal and limiting chemicals in a session relevant to SOCWA, highlighting the PSR™ technology, an iron-rich material derived from steel manufacturing byproducts like slag. Introduced as a slurry or dry granule into clarifiers and digesters, it sequesters phosphorus and sulfur, achieving 80% removal of phosphates and sulfides within hours while reducing phosphorus to regulatory levels and sulfur to non-detectable amounts within days, and inhibiting struvite formation. As a non-hazardous alternative to ferric chloride, PSR™ avoids corrosion, scaling, and workplace risks, improves solids dewatering by up to 15%, acts as a natural pH buffer, and lowers overall costs without increasing chloride or sulfate in effluent. By utilizing upcycled steel slag, the technology matches ferric chloride's performance in sequestration while reducing environmental liabilities through minimized chloride and aluminum discharges, thereby preventing eutrophication in aquatic ecosystems. Operationally, it could decrease chemical costs amid ferric chloride price, lower H₂S scrubbing needs, enhance dewatering efficiency, mitigate infrastructure corrosion, and yield substantial savings with improved safety, as demonstrated by pilot studies at the University of Colorado. The presentation also noted that the product meets all regulatory testing standards.

The event concluded with Rob Thompson from OC San providing an update on planning and implementation of biosolids management: Super critical water oxidation (SCWO) and biosolids injection. The SCWO pilot unit is six tons and is expected to be onsite in the Spring and fully operational six months later. The biosolids injection project is still in development and follows the design of the Terminal Island Energy Renewal Site by Los Angeles Sanitation District.

Biosolids Management Projects Updates

SoCal Regional Biosolids Coalition (City of San Bernardino Municipal Water Department lead project)

A draft report for Phase 1 of the project is expected by the end of November 2025. The report will identify several potential management sites, estimated costs for management at each site, and additional supporting information for Phase 2. The estimated costs and agency participation in the next phase will be discussed by the coalition in December 2025. The participating agencies will have an opportunity to continue to participate in Phase 2 or remove themselves from the Coalition.

IRWD Project

SOCWA staff met with IRWD staff to discuss a contract for SOCWA to transport Biosolids to IRWD for drying and off-site management. SOCWA staff has transmitted proposed deal points for IRWD to consider and comment on.

Lystek Proposal For CTP

Lystek is working with SOCWA staff on its proposal to process Biosolids at the CTP site. SOCWA staff is expecting a draft report late November 2025.

Open RFP for Biosolids Management

SOCWA continues to maintain an open RFP for Biosolids Management in Planet Bids for vendors to propose on Management options to SOCWA. SOCWA staff had discussions with Synagro and Ancon, Inc. regarding the open RFP, but SOCWA has not received proposals from either vendor for consideration at this time.

Purchases over \$25,000 but under \$100,000

Per the SOCWA December 2024 Uniform Purchasing Policy, the General Manager will report authorized purchases to the Board that were over \$25,000 but under \$100,000. The following items were authorized since the last Board meeting report:

Purchase	Amount
Administration Mold Restoration Project	\$46,800.00
Relocation of JBL Gas Line next to the Old Effluent Pump Station	\$26,029.34
Engineering Services for JBL Digester ¾ Sludge Heating Pump #4 Replacement Evaluation	\$57,168.00
JBL and CTP Construction Support Services	\$89,220.00
CTP Project Management Support Services	\$45,000.00
JBL and CTP SCADA Feasibility Study	\$32,860.00
JBL High Efficiency Blower Filter System Upgrades	\$40,389.00
JBL 3D Laser Scanning and Documentation	\$25,000.00
SJCOO Sediment and Fish Tissue Chemistry	\$39,879.00
ACOO Sediment and Fish Tissue Chemistry	\$27,823.00
SJCOO and ACOO Sediment Toxicity Testing	\$31,500.00

Recommended Action: Information Item

Project 5321

GenAI as a Catalyst for Water Sector Transformation: Summary of WRF Project 5321 Findings

How GenAI/LLMs Can Help Solve Challenges Facing Water Utilities Globally

September 2025

Executive Summary

Purpose

The Water Research Foundation (WRF) project 5321, *The Role of Generative AI (GenAI) for the Global Water Sector*, brings together researchers from the American Water Works Association (AWWA), Water Environment Foundation (WEF), and Karmous Edwards Consulting to build a foundational understanding of the role that GenAI powered by public large language models (LLMs) could play for municipal water and wastewater utilities.

The project connects major sector-wide initiatives. It supports AWWA's Water 2050 vision of advancing innovation for a sustainable and resilient water future, while also aligning with WEF's Circular Water Economy initiative, which emphasizes reducing, recovering, and regenerating resources across the water cycle. By integrating both perspectives, WRF project 5321 contributes to the water sector's ongoing evolution and its ability to meet future challenges.

This research project aims to increase awareness, share knowledge, and facilitate experimentation with GenAI/LLMs to support municipal water and wastewater utilities in adopting and gaining value from GenAI/LLMs. This project explores practical applications of GenAI/LLMs to improve efficiency and operational outcomes.

The four objectives of this project are to help utilities develop a foundational understanding of GenAI/LLMs techniques by:

- Building a common vocabulary and definition of terms. The project explores key concepts such as retrieval augmented generation (RAG), Agentic AI, the role of unstructured data, data cleansing and analytics, optical character recognition (OCR), voice applications, and computer vision
- Identifying practical applications of GenAI/LLMs using available public and open source LLMs via well-documented use cases.

- Developing useful guidelines for global water utilities on their GenAI journey.
- Developing a research roadmap for the future role of GenAI/LLMs in the water sector.

AI Concepts and Definitions

At its core, WRF project 5321 will share information about GenAI/LLMs to raise awareness among water professionals showcasing how existing GenAI tools powered by public facing LLMs such as ChatGPT-5, Claude, Gemini, etc., can be safely and effectively leveraged. Through regular knowledge exchanges, webinars, and workshops, the research team gained insights into how GenAI/LLMs can support daily operations, optimize workflows, and enhance decision-making.

GenAI refers to a subset of artificial intelligence (AI) models that can generate new content, rather than just classifying data from existing data sets or answering questions based on existing information. These models can create new content in the form of text or other forms of media based on patterns and examples they have been trained on.

AI is a broad field in computer science that focuses on developing smart machines capable of performing tasks that typically require human intelligence. These tasks include problem-solving, pattern recognition, decision-making, and language understanding. AI encompasses various subfields, including machine learning, deep learning, natural language processing, and transformer-architecture-based LLMs, each contributing to advancements in automation and intelligent computing.

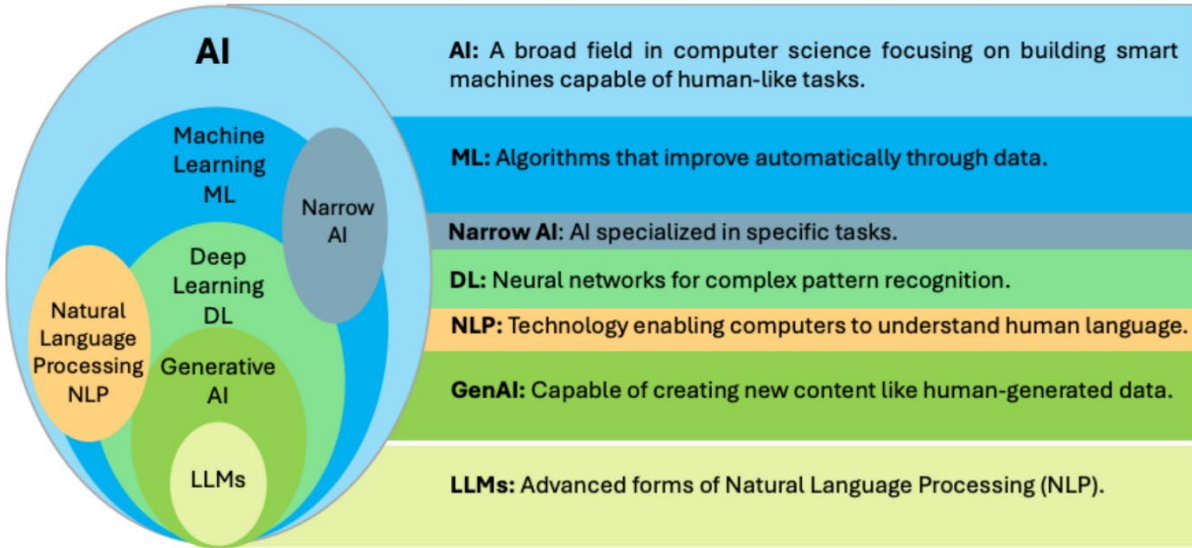


Figure 1. AI Concepts Defined.

Machine learning (ML) is a subset of AI that enables systems to learn and improve from data via algorithms that analyze large datasets, detect patterns, and make predictions. A subset of ML is deep learning (DL), which uses neural networks designed to mimic the human brain's functioning by detecting layers of patterns. DL models are particularly effective for tasks like image recognition, speech processing, and complex pattern recognition.

Natural language processing (NLP) is another crucial AI field that enables computers to understand, interpret, and generate human language. It is the foundation for chatbots, translation services, and text analysis tools. Within NLP, LLMs represent a significant advancement, as it allows AI models to generate

new human-like content, such as text, images, videos, and even code, based on input data. LLMs are a powerful subset of GenAI that have been trained on massive amounts of data such as content from the internet and textbooks. LLMs are a subset of GenAI, meaning all LLMs are a form of GenAI, but not all GenAI models are LLMs. GenAI refers to any AI model that creates new, original content, including text, images, music, and code. For example, Midjourney and DALL-E are GenAI models that create images, but they are not LLMs because they do not create new content of text form. However, multimodal LLMs are a more advanced type of LLM that handles multiple data types and therefore referred to as multimodal.

This project primarily focuses on the practical applications of GenAI by experimenting with existing public LLMs. The research explores how these GenAI/LLMs tools can support water utilities in areas such as data cleansing, summarizing unstructured documents, and detecting anomalies through AI-powered computer vision, and more. By leveraging the capabilities of LLMs, utilities can improve operational efficiencies, enhance decision-making, and facilitate knowledge sharing across their organizations.

Retrieval Augmented Generation (RAG)

Another key concept that leverages GenAI/LLMs is Retrieval-Augmented Generation (RAG), a method that improves the accuracy of LLMs by allowing them to retrieve and incorporate relevant external data (users' data) during their response generation process. Traditional language models are trained on vast datasets but lack specific, real-time, or organization-specific context. RAG enables models to query structured and unstructured data sources, retrieve relevant information, and incorporate it into their responses, improving precision and contextual relevance. This also reduces the chances of hallucination, a term that describes when an AI system presents false, misleading, or distorted information as factual, since the LLM is mainly going to the local sources of information the user provided for the query.

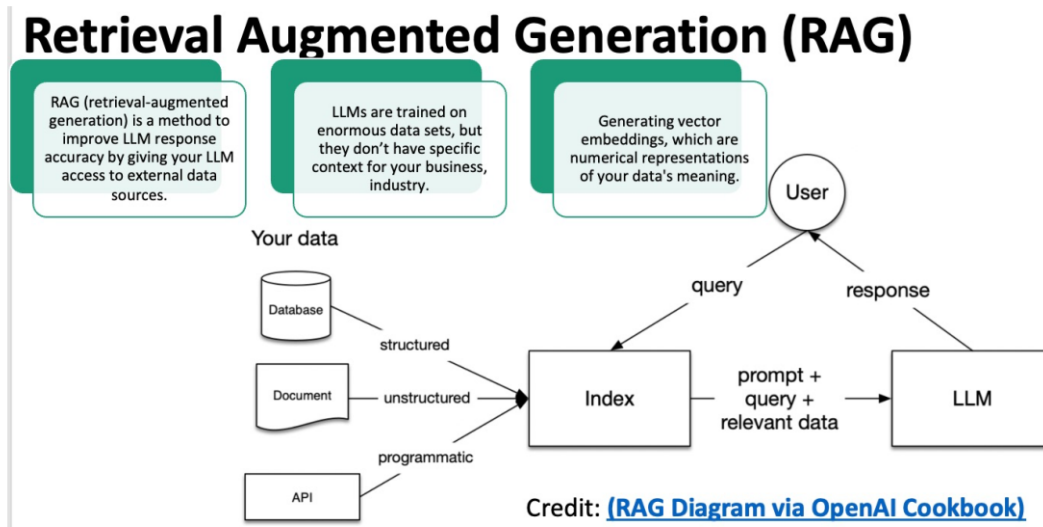


Figure 2. Retrieval Augmented Generation.

Source: Theja 2023.

A key component of RAG is the use of vector embeddings, which are numerical representations of textual, visual, or other data types. Embeddings allow language models to process and understand relationships between pieces of information efficiently. When unstructured data such as documents or images are indexed, they are converted into vector embeddings, which capture semantic meaning in a

way that makes them easily searchable. When a user submits a query, the system retrieves the most relevant embeddings based on similarity scores, ensuring that the language model has contextually appropriate information before generating a response.

Recently, there has been much talk of Agentic AI, systems that go beyond responding to single prompts. Agentic AI software operates as autonomous agents capable of planning, executing, and adapting across multi-step tasks. These AI agents can make decisions, invoke other tools, access databases, and iterate based on feedback or changing conditions. The research team believes Agentic AI could be used to monitor SCADA anomalies, retrieve maintenance histories, draft reports, or even schedule follow-up tasks, without needing to be prompted for each step. For example, an agent could detect a suspected pump failure, cross-reference asset logs, summarize relevant repair instructions, and notify staff via an internal chatbot. This task-oriented autonomy can reduce time for operators, increase workflow efficiency, and help utilities stay proactive in managing infrastructure. As agent frameworks mature, they hold immense promise for streamlining complex utility operations in a safe, auditable, and scalable way.

A short glossary of terms:

- **Artificial Intelligence (AI):** Broad field of computer science focused on building smart machines capable of human-like tasks (problem-solving, decision-making, language, pattern recognition). AI is the broadest field.
- **Narrow AI:** AI systems specialized in specific tasks.
- **Machine Learning (ML):** Subset of AI that learns and improves automatically from data using algorithms.
- **Deep Learning (DL):** Subset of ML that uses neural networks to detect complex patterns (e.g., image or speech recognition).
- **Natural Language Processing (NLP):** Enables computers to understand, interpret, and generate human language (foundation for chatbots, translation, text analysis).
- **GenAI:** AI that creates new content (text, images, code, video, music) based on patterns in training data.
- **Large Language Models (LLMs):** Advanced GenAI models trained on massive datasets that can generate and explain human-like text; some are multimodal (can handle text, images, audio, etc.).
- **Retrieval Augmented Generation (RAG):** RAG means the AI can “look things up” in trusted documents before answering, so its responses are based on real information the user provides, not just what it learned during training.
- **Agentic AI:** Agentic AI is artificial intelligence that can plan and carry out multi-step tasks on its own, like a digital assistant that not only answers questions but also takes action, while still allowing humans to stay in control.
- **Traditional AI:** Refers to systems that analyze large sets of structured data to classify, predict, or optimize outcomes. These models are designed for specific, well-defined tasks like detecting leaks, forecasting demand, or recognizing images.

GenAI/LLMs vs. Traditional AI

Traditional AI and ML are primarily designed to classify, predict, or optimize outcomes based on large sets of structured data, such as SCADA data, weather, and sensor data. These systems usually require specialized expertise in data science, software development, and deep knowledge of the domain being analyzed. In contrast, GenAI, powered by LLMs, can create and explain new content, including text, code, images, and even voice interactions while using natural human language as the interface. This is a breakthrough because staff no longer need to write code or master advanced analytics to work with complex data, whether structured (tables, sensor readings) or unstructured (PDFs, handwritten notes, images, voice memos).

There is still an essential role for data scientists, system experts, and software developers, especially to design, validate, and maintain digital AI systems. However, GenAI/LLMs democratize access by allowing non-technical staff to extract insights from data that were previously out of reach. This project has shown that with GenAI/LLMs, a utility operator can describe what they need in plain language, and the system can generate insights, or even produce the code to achieve the result. This shift makes advanced AI accessible to non-technical staff, lowers the barrier to entry, and is why GenAI/LLMs represent a true game-changer for the water sector.

The role of unstructured data becomes critical because most utility information is unstructured. Gartner explains that 80% of enterprise data is unstructured. GenAI/LLMs can convert unstructured data into searchable, structured data and produce quick summaries and charts. With RAG, answers are grounded in an organization's standard operating procedures (SOPs), permits, manuals, and SCADA exports, improving relevance, while significantly reducing hallucinations. GenAI/LLMs also writes and reviews code, such as Python, to help with data analytics, including cleaning and joining datasets and producing visualizations. It supports voice as an interface for hands-free queries and field updates, and emerging Agentic AI can run multi-step workflows with human-in-the-loop oversight. Together, these capabilities form the foundation for the pilots, governance, and adoption roadmaps that follow.

"Together, we aim to leverage the cost-effective yet sophisticated capabilities of generative AI to enhance utility operations, bridge the digital divide among utilities of all sizes, and establish a research roadmap that will propel global digital transformation in the water sector."

Gigi Karmous-Edwards, Technical Lead
and Co-Principal Investigator

Technology Enablers

GenAI/LLMs are usable today with two model paths for utilities: public LLM services using enterprise versions for security purposes (GPT-5, Claude, Gemini, etc.) and open-source LLM models (GPT-OSS, Llama, etc.) that can run in an organization's cloud or on-premises. These tools are all multimodal (text, images, PDFs, some have voice) and increasingly Agentic AI (able to plan and execute multi-step tasks with human-in-the-loop). Utilities can choose models based on security controls (audit logs, no data sharing, etc.), cost, latency, and deployment options. Utilities can build new efficient applications in three ways:

- No-code (custom GPTs and chat workflows).
- Low-code (notebooks, workflow builders, simple API wrappers).
- Full-code.

The research team describes Vibe coding as a way for non-software developers to describe application concepts in plain language and have the model develop the code and analytics to start the implementation. Utilities can utilize RAG so their GenAI/LLMs application, GPT, or prompt can summarize for users their own SOPs, permits, manuals, and SCADA exports. Another promising application is the use of voice to capture for hands-free field input, or any application input.

Agentic AI is now being used across various applications. They are a focus area for the main LLM companies like OpenAI and Gemini. OpenAI has put a focus on Agentic AI with OpenAI's CEO, Sam Altman, predicting that AI agents could begin to join the workforce in 2025 and significantly impact companies' output (Broomfield 2025). There has been a real effort in the tools to build agents at OpenAI with key releases in 2025:

- The Operator Agent, powered by the Computer-Using Agent (CUA) model, was released in January 2025 as a research preview and developer API. It is designed to interact with graphical user interfaces (GUIs) to automate tasks like coding and booking travel.
- The Agents SDK was released in March 2025, providing developers with tools to build their own agentic AI applications. It includes features for web search, file search, and computer use.
- ChatGPT Agent was introduced in mid-July 2025. This AI tool can perform multi-step tasks such as online shopping, creating presentations, and generating spreadsheets. An "all-in-one" agent was also launched in mid-July 2025, which Superhuman AI described as allowing for the quick, no-code deployment of AI agents.

Beyond awareness, the project facilitated experimentation by enabling utilities to test and validate small- to large-scale GenAI/LLMs capabilities. These proof-of-concept (PoC) experiments focus on practical applications to address water utility challenges. The project will document, analyze, and share findings from experiments as best practices with both participants and the global water sector, producing a utility guidebook, case studies, and a research roadmap to support GenAI/LLMs integration in utilities.

By democratizing access to GenAI/LLMs knowledge and tools, the initiative aims to ensure that all utilities, even under-resourced utilities, can benefit from technological advancements. Through collaboration with global utilities and industry experts, this study will help bridge the digital divide and promote practical, secure, and beneficial GenAI/LLMs adoption across the sector.

“The voices that we need now include technology experts who can identify technology concepts that have the capability to be game changers in the water community – including Generative AI. This proposed project serves to do just that, to facilitate the development of best practices and guidance in this innovative and important new era.”

David LaFrance, CEO, AWWA

GenAI/LLMs Solutions to Challenges Facing the Water Sector

The global water sector is currently facing critical challenges with aging infrastructure, climate variability, resource constraints, workforce shortages, and customer affordability. GenAI/LLMs emerge with timely and accessible solutions, including:

- Simplifying workflows through employee digital assistants.
- Supporting asset maintenance and customer service.
- Optimizing operations.
- Preserving institutional knowledge.
- Delivering high-level capabilities at low cost through an easy-to-use interface.
- Streamlining optimizations across all operations.

This work aims to move beyond conceptual discussions and instead ground the research in utility-led, field-tested pilot/experimentation projects, and the everyday efforts of utility staff working across operations, customer service, and compliance roles.

Project Participants and Objectives

Project leadership, water utility participants, key objectives, and deliverables are summarized in the figure below. The leadership team carefully chose a diverse mix of utilities. Selection of the Global GenAI Utility Group (G3) comprised of utilities of different sizes, water and wastewater services, and global locations. This ensured that GenAI is not just for large utilities; our findings show GenAI works for smaller utilities too.

The Role of Generative AI (GenAI) for the Global Water Sector - WRF #5321 Research Project

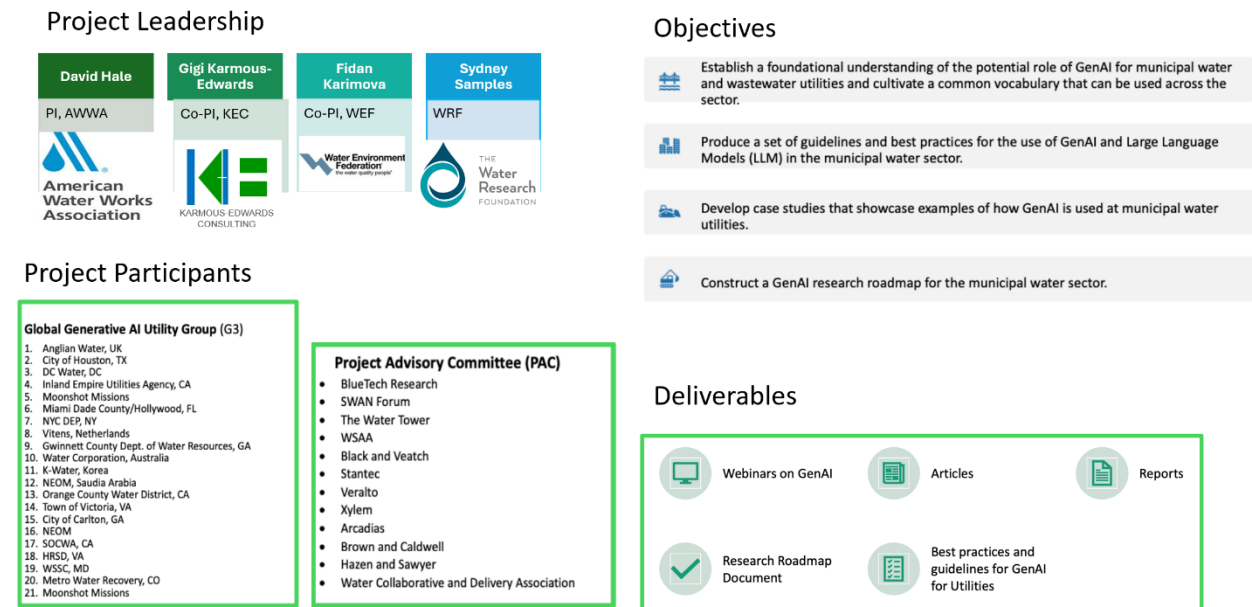


Figure 3. WRF Project 5321 Overview.

Main Findings

The research shows that GenAI/LLMs offer a practical, scalable, and affordable set of tools that can help address many of the sector's most persistent challenges. Rather than requiring large IT investments, utilities can begin applying GenAI/LLMs capabilities such as optical character recognition (OCR), computer vision, data analytics, and RAG with all types of structured and unstructured data sets, as well as PDFs, voice memos, images, engineering drawings, and handwritten documents. Importantly, these tools are accessible through secure enterprise versions, typically costing only \$25–\$60 per user per month, making them both affordable and aligned with data protection needs.

The research team discovered that a human-language interface to the enterprise version of GenAI/LLMs makes it easy for nearly all staff roles to start experimenting with enterprise versions of LLMs in a secure manner. Human-language interfaces have the potential to lower barriers for staff across all roles. When utilities hesitate to adopt GenAI/LLMs, it is usually for two main reasons: fears of job loss and concerns about data security and compliance. This project demonstrates GenAI/LLMs work best as a digital assistant that augments staff rather than replaces them. With enterprise deployments, added required security enabled, and model-training/data-sharing turned off, utilities can meet compliance requirements for digital applications.

Key Challenges to Scalable Adoption of GenAI/LLMs

Through numerous conversations and workshop dialogues, the participants discovered that utilities need to make safe, practical data governance the top priority by expanding policies and controls to cover both structured and unstructured information. Looking to ensure that a high quality of data is achieved and maintained because this determines the quality and reliability of the outputs generated. GenAI/LLMs tools can analyze both structured data and unstructured data making more information available for data-driven insights. The utilities in the G3 played a major role in creating practical recommendations to guide this effort for the report.

Data Governance

The G3 team focused on developing recommendations for effective data governance as water utilities adopt GenAI/LLMs, not just for compliance, but for enabling reliable, and impactful outcomes. The report outlines a strategic roadmap for utilities to govern their structured and unstructured data, covering everything from foundational data charters and inventories to tiered access, metadata standards, and decision-data capture. It emphasizes the importance of integrating cybersecurity, scaling governance to utility size, and continuously adapting to change. With more than 80% of enterprise data unstructured, GenAI/LLMs offer an unprecedented opportunity, but only if paired with intentional, right-sized governance. Here is a summary of topics:

- Start with a data charter.
- Inventory and classify data.
- Govern decision-data.
- Use tiered access controls.
- Scale governance to fit.

In summary, data governance has moved from important to mission critical. Managing unstructured content with the same rigor as SCADA tags or billing data will be essential for safe GenAI adoption.

Workforce and Change Management

Alongside data governance, the G3 focused on three additional pillars for successful GenAI/LLMs adoption, mainly related to workforce and people-related aspects:

1. Establishing a utility-wide community of practice.
2. Training staff on the safe and effective use of GenAI/LLMs.
3. Securing executive buy-in for enterprise-level deployments.

In parallel, the group documented several other common challenges, including concerns about job loss and issues of security, privacy, and compliance. A common concern among utility staff is that adopting GenAI/LLMs will eventually replace their jobs. However, the team's experiments show the opposite. The research team has observed these tools as a co-pilot, not a replacement. These tools help staff work more efficiently by automating repetitive tasks, surfacing insights from unstructured data, and preserving institutional knowledge, while leaving critical judgment, decision-making, and community engagement to people. In practice, GenAI/LLMs reduce the burden of paperwork and data searching, giving employees more time to focus on higher-value work. Rather than eliminating roles, it strengthens them, making the workforce more capable, confident, and future-ready.

There is also an awareness gap because many confuse GenAI/LLMs with traditional AI (mainly considered to be data and analytics). Many employees are unclear on the difference between GenAI/LLMs, traditional analytics, and narrow AI tools already in use. In contrast, GenAI/LLMs go beyond prediction, since it can create new content such as text, images, code, and even insights from unstructured data, all through natural language interfaces. This makes GenAI/LLMs far more accessible, allowing non-technical staff to use advanced AI capabilities without needing data science or programming skills.

Utilities often operate in silos, with different departments struggling to collaborate. This lack of shared terminology slows internal discussions and early planning, making it harder to align efforts. The result is fragmented pilots, duplication of work, and mistrust between teams. A further challenge is the divide between technical and non-technical staff, which creates uncertainty about roles as plain-language tools may bypass traditional IT processes. This research provides a common framework and language to help utilities bridge these gaps and work together more effectively. One key strategic risk is that utilities delaying GenAI/LLM adoption may find it harder to attract and retain top talent, further widening the digital divide.

Research participants found the following approaches to be good practices:

- Position GenAI/LLMs as an assistant, not a replacement, with visible executive sponsorship.
- Provide layered training for all roles and create a community of practice.
- Put clear policies in place for acceptable use, governance, and data security.
- Run small, measurable pilots, share results, and celebrate wins to build confidence, attract and retain talent, and preserve institutional knowledge.

In summary, the G3 team found that the success of GenAI/LLMs in the water sector depends not only on data or tools, but on people. Adoption will stall without a workforce that understands, trusts, and can effectively apply AI capabilities in daily workflows. The report explores how utilities can foster a shared vocabulary, create targeted training paths, and embed GenAI/LLMs into culture and operations through intentional design. Utilities that invest in role-relevant training, pilot coordination, and early success

stories are best positioned to translate isolated and siloed AI trials into scalable, system-wide transformation.

Broader Challenges to Adoption

G3 participants examined the broader sector challenges associated with utilities adopting GenAI/LLMs. Some of the challenges identified will require further research and sector-wide coordination. Alongside the above challenges of data governance and workforce preparedness, are fragmented efforts, thin budgets, and unclear policies. The report explores practical ways the sector can start to address these issues. For water and wastewater utilities that do not embrace GenAI they face a significant risk of talent loss, as top professionals, especially young ones, gravitate towards organizations that prioritize innovative.

Participants also explored the growing water and energy demand related to GenAI/LLMs and the emerging resource crunch today from the unprecedented acceleration in building data centers across the country and the global constraints for capital, human, and supply chain resources in this globally competitive environment. There is also a great deal of effort from these GenAI/LLMs companies to move towards zero-water. Microsoft, for example, recently announced the successful deployment of a new closed-loop, chip-level cooling system that virtually eliminates evaporative water use (Ambros 2025).

These innovations dovetail with WEF's Circular Water Economy initiative. Although these innovations are currently in the works, today, most data centers being built require millions of gallons of water for cooling. The global AI race is driving the acceleration for the building of U.S. data centers. Also, the current U.S. Administration's Executive Order 14179 further adds to the momentum and adoption needs. Released in July 2025, this order includes an AI action plan with the following three pillars:

- **Accelerating AI Innovation:** Removing regulatory hurdles and encouraging broad AI adoption.
- **Building American AI Infrastructure:** Streamlining the permitting process for AI data centers, chips, and energy infrastructure, and prioritizing domestic sourcing.
- **Leading in International AI Diplomacy and Security:** Using U.S. influence to promote American AI standards globally, strengthen export controls against adversaries, and protect U.S. AI innovations.

For water utilities, this growth has direct, near-term impacts: large, continuous water demands for cooling; new peaks in electricity use that tighten the water–energy nexus; and accelerated timelines for permitting, capacity planning, and infrastructure upgrades. Many of these data centers are being built in rural areas due to lower land costs and lower taxes, yet the utilities in these areas have limited staff, thin budgets, and constrained supplies, making it hard to absorb the sudden industrial loads.

Bridging the Digital Divide with GenAI

Small and rural water utilities often lack funding, IT staff, and modern systems, which slow their digital progress. Staff are already stretched thin, and vital knowledge often leaves with retiring employees. Traditional grant processes and outdated technology create further barriers. Many small or low-resourced utilities are sometimes dependent on paper logs, siloed spreadsheets, or phone calls to keep operations running.

“In an era when utilities face rapidly expanding challenges—from extreme weather to emerging contaminants and the retirement of experienced personnel—water leaders need a lifeline to help face these challenges in an affordable way. Generative AI can offer this lifeline to capture and share knowledge which can then be customized to deliver predictive and proactive recommendations to any employee at any size utility in any circumstance in any place. This project will provide essential insights on how this tool could evolve to be the most important addition to the management of water in a generation, perhaps any generation.”

George Hawkins, CEO, Moonshot Missions

GenAI/LLMs show a glimpse of being a game-changer with the potential to bridge the digital divide between small and larger utilities. WRF project 5321 shows that GenAI/LLMs could be a practical path forward for small and rural utilities that is affordable.

By using enterprise versions of public GenAI/LLMs at a modest monthly cost, utilities can digitize handwritten notes, photos, and voice memos, turning them into searchable, actionable data without major infrastructure upgrades. Natural-language interfaces mean staff do not necessarily need coding skills, or to be a data analyst, to use the tools. They can use human language as a potential interface to ask important questions or give voice commands to generate reports, spot trends, or access SOPs.

Early pilots show that GenAI/LLMs can preserve institutional knowledge, cut down on double entry, and enable real-time insights, helping even the smallest utilities modernize workflows and compete on a more level playing field.

Proof-of-Concepts

WRF project 5321 findings raise awareness, share knowledge, and enable hands-on experimentation with GenAI/LLMs to improve efficiency and knowledge sharing across utilities. Through ongoing knowledge exchanges, webinars, and workshops, G3 participants learned how to use current tools (e.g., enterprise versions of LLMs) safely and effectively to support daily operations, streamline workflows, and strengthen decision-making.

The experiments drove value and momentum. Utilities ran proof-of-concepts across topics including rate structure studies, sensor maintenance and placement, coding of operational scripts, computer vision, and capturing institutional knowledge.

These proof-of-concepts range from simple, high-value RAG applications to more complex efforts, code-based operations optimization, OpenAI’s GPTs (generative pre-trained transformers) for rate-structure calculations, and exploratory Agentic AI for digital twins.

Sharing each pilot’s method and results sparked new experiments at other utilities. Every completed pilot delivered a measurable benefit and great learning opportunities to better understand risks and existing challenges (which are recorded in the report). Each experiment produced time or cost savings and/or higher accuracy, proving that simply running the pilot creates immediate benefit.

The team noted that GenAI/LLMs accelerate digital transformation at any maturity level by making unstructured information usable and by enabling plain-language into workflows while using existing technology such as mobile phones. This is especially significant for small and under-resourced utilities.

For small utilities, they found benefits of GenAI/LLMs such as digitizing paper processes, interpreting existing utility documents, and automating reporting without large investments in IT projects or new infrastructure. GenAI/LLMs helps bridge the digital divide between small and large utilities at accessible cost.

Findings are captured as best practices, utility guidelines, case studies, and the beginning of a GenAI/LLMs research roadmap for the water sector. The final report will widen access to GenAI/LLMs for utilities around the globe and help bridge the digital divide.

Sample Use Cases

Example 1: Computer Vision for Safety and Asset Monitoring in Wastewater Facilities

Partner Utility: Hampton Roads Sanitation District (HRSD), VA

This case study documents Hampton Roads Sanitation District's effort to use computer vision to detect leaks outside of pipes, corrosion, human presence, and smoke/fire across wastewater facilities. The goal is to supplement (not replace) operator shift rounds with continuous automated monitoring and timely alerts. The solution prototype began May 2025, with significant code authored using Anthropic's AI tool called "Claude" within the Cursor IDE Technologies. Early work focuses on site-ready detection datasets, use of classification and anomaly detection models, and integration paths with existing operations.

Example 2: Water Synchronicity (Rate Structure Assistant) GPT

Partner Utility: City of Carlton, and TWT, GA

Water Synchronicity ChatGPT is a GenAI/LLM-assisted decision-support tool in the form of a chatbot that helps small water utilities explore alternative rate structures aligned with goals for affordability, conservation, and revenue stability. Built on affordability research authored/co-authored by Dr. Ben Rachunok and tested with the City of Carlton case study, the tool combines community-specific spreadsheets (system data and low-to-moderate-income data) with a LLM trained on a curated corpus of affordability research, regulatory guidance, and rate-design best practices. It operates in a closed (no-internet) mode for data protection and can incorporate workforce salary needs into scenario planning.

Users state their priorities and weights (e.g., protect low- and moderate-income (LMI) households, encourage conservation, maintain revenue stability) and receive tailored rate structure suggestions with transparent trade-offs, accelerating analysis, surfacing options, and informing stakeholder discussions. Outputs are starting points, not final rate designs. Although safeguards reduce it, the model can over-recommend flat rates, which are often unsuitable; results should be reviewed and refined through utility-specific analysis and engagement. As an exploratory assistant, the tool speeds scenario testing, improves clarity around trade-offs, and supports more informed, data-driven rate studies.

Example 3: Houston Water's AI Agents for Dynamic CIP Planning

Partner Utility: City of Houston, TX

Houston Water Infrastructure Planning Group is piloting an AI Agent for Dynamic Capital Improvement Planning (CIP) to modernize how infrastructure investments are prioritized. The agent integrates hydraulic modeling, asset condition, and growth data to continuously update project priorities based on evolving needs and constraints. By enabling scenario testing and risk-informed strategies, it shifts

utilities from static five-year CIP cycles to adaptive, data-driven planning, delivering more resilient, and cost-effective infrastructure investment decisions.

Example 4: WaterGPT LLM for Houston Water Infrastructure Planning

Partner Utility: City of Houston, TX

Houston Water Infrastructure Planning Group is piloting WaterGPT to enable more informed planning and decision making. WaterGPT is a domain-specific LLM (an on premise downloaded opensource LLM) built for the water sector at City of Houston, designed to unify regulatory frameworks, planning documents, and operational datasets into a secure, conversational platform. It provides utilities with rapid access to complex regulatory and engineering knowledge, while supporting data-driven analyses for capital planning, risk management, and operational efficiency.

The system is architected for offline deployment to safeguard data sovereignty and can scale from regulatory compliance to advanced applications such as main break prediction, demand forecasting, and digital twin integration. By embedding strong governance protocols and piloting AI with non-sensitive datasets, WaterGPT builds trust with the users, while advancing the sector toward predictive and resilient water management.

Example 5: Modern-Day Customer Service (AI-Enabled)

Partner Utility: DC Water, Washington, D.C.

DC Water's Customer Care Department is committed to enhancing customer satisfaction and service quality by implementing GenAI-powered self-service capabilities. Applying the 80:20 Pareto Principle to customer service, the team first identified which 20% of the set of questions or support issues from customers drives 80% of our support volume. In other words, most of the effort is spent on a narrow set of commonly asked questions. Most of the questions that are constantly being asked have for the most part the same answers, which was incorporated into the GenAI Self-service.

In response, DC Water is in the process of automating portions of its customer service through GenAI/LLMs. The aim is to enable customer support 24x7x365 in multiple languages. This will be accomplished through a combination of: (i) conversational GenAI, (ii) text chatbots, and (iii) an interactive voice response (IVR) system. This includes creating and modifying service orders, accessing emergency updates, reporting emergency issues, retrieving account details, and making payments, among many other functions.

Example 6: Voice SOP at South Orange County Wastewater Authority

Partner Utility: South Orange County Wastewater Authority (SOCWA), CA

This case study explores Voice SOP, a voice-activated AI assistant designed to enable lab technicians in water utilities to query and access standard operating procedures (SOPs) hands-free, without removing gloves. The solution leverages GenAI/LLMs for natural language processing and voice commands to retrieve and verbalize SOP details, improving safety, efficiency, and compliance in lab environments. The main outcomes include:

- Reduced manual interruptions and time savings on SOP consultations.
- Enhanced accuracy in procedure adherence.
- Better overall workflow in glove-restricted settings.

Example 7: What Would Jerry Do (WWJD) – Chlorine GPT

Partner Utility: City of Carlton and TWT, GA

This GPT, known as “WWJD – Chlorine,” serves as a specialized expert assistant for rural and small water system operators, particularly those managing chlorine residuals in well water systems. Modeled after a seasoned rural water engineer, Jerry, it delivers clear, experienced-based advice tailored to the unique challenges of small utilities, like limited staffing, aging infrastructure, variable water quality, and strict regulatory oversight under the Safe Drinking Water Act. It provides guidance on chlorine dosing, residual monitoring, seasonal impacts, disinfection byproduct (DBP) control, equipment troubleshooting, and regulatory compliance.

The GPT is grounded in authoritative sources, including U.S. Environmental Protection Agency small system research, case studies on chlorine residuals and DBPs, and field-ready SOPs from the Rural Water Association, as well as a two-hour detailed conversation with Jerry on specific and frequently asked questions he gets daily. Its tone blends technical rigor with calm, practical wisdom, helping rural operators make sound, affordable decisions for safe and compliant drinking water. Operators that normally would have called Jerry for an answer to their question can now first try to chat with this chatbot via their mobile phone or computer to get the answers they were looking for.

Vision

WRF 5321 demonstrates GenAI/LLMs can provide practical and timely solutions for municipal water and wastewater utilities; the next step is scale. The research team approach is inclusive and human centered. GenAI/LLMs serve as a virtual assistant, augmenting utility professionals rather than replacing them. As a timely, accessible digital assistant, G3 members have shown that GenAI/LLMs simplify workflows, support asset maintenance, optimize operations, enhance customer service, preserve institutional knowledge, and democratize information, by delivering high capability at low cost through easy-to-use interfaces (e.g., voice, mobile phone, text).

Because most utilities share far more similarities than differences, such as SOPs, assets, vendors, regulatory workflows, the research team believes the sector must move away from one-off pilots to create robust tools that can be adapted for multiple scenarios. The team has documented pilots for replication; however, in the last few months the focus has been on scaling, not just duplicating. With AWWA, WEF, and WRF convening the sector to provide best practices, the team will help inform the sector on some of the core building blocks of GenAI/LLMs-enabled tools including unstructured-data ingestion, OCR/RAG, evaluation and safety guardrails, and role-based interfaces. This will enable utilities to take advantage of tools that bridge the digital divide, preserve institutional knowledge, and boost workforce productivity.

This research has made important progress in showing the practical, secure, and affordable role of GenAI/LLMs in the water sector. At the same time, it has surfaced key questions that must be addressed for the sector to continue growing and evolving in this space. These questions will form the foundation of a research roadmap to guide future efforts, ensuring that utilities, researchers, and industry partners can move forward together in a coordinated way. The upcoming second in-person workshop will be a key moment to capture these priorities, refine the roadmap, and set the direction for the next phase of research and innovation. The final report will include the research roadmap.

For further questions or suggestions, please contact:

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Authors by Organization

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Metro Water Recovery	Josh Goldman
North Carolina State University	Ben Rachunok
Moonshot Missions	Andy Koester
New York City Department of Environmental Protection	Michael Shum
Orange County Water Districts	Gina Ayala
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South Orange County Wastewater Authority	Amber Boone
Vitens	Martin Hutten
Water Environment Federation	Fidan Karimova
The Water Research Foundation	Sydney Samples
WSSC Water	Michael Abobor

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Agenda Item

7.H.

Legal Counsel Review: No

Meeting Date: November 6, 2025

TO: SOCWA Board of Directors
FROM: Adriana Ochoa, General Counsel
SUBJECT: General Counsel's Report

Summary:

The General Manager has requested a standing written report on legislative updates from General Counsel. The attachment includes the General Counsel's report of SOCWA related legislation.

Recommended Action: Information Item

Attachment: California Legislative Updates

Snell & Wilmer

TO: SOCWA Board of Directors

FROM: Adriana Ochoa, arochoa@swlaw.com
Thomas Williams, twilliams@swlaw.com
Snell & Wilmer, LLP

DATE: October 24, 2025

RE: **California Legislative Updates**

This memorandum provides a comprehensive update to new California legislation that has recently been signed into law by Governor Newsom, with most bills and the majority of their provisions taking effect on January 1, 2026. The memorandum highlights key pieces of legislation originating out of both chambers of the California legislature including new laws on open meeting requirements, notice requirements to unions, and additional disclosure requirements for elected and appointed officials in public office. This memorandum also includes a short summary of a bill banning PFAS chemicals (sponsored by CASA) that was recently vetoed by Governor Newsom and would require a two-thirds majority of both chambers to be passed into law.

I. SB 707 (Durazo) Open Meetings: Meetings and Teleconference Requirements

SB 707 was signed into law by Governor Newsom on October 2, 2025, and marks a significant overhaul to the Ralph M. Brown Act by modernizing local open meeting rules to reflect a hybrid, multilingual, and accessible public sphere. The legislation imposes new obligations for statutorily defined eligible legislative bodies and a uniform set of reforms that apply to all legislative bodies.

A. Eligible Legislative Bodies and Their Requirements

SB 707 imposes a hybrid participation mandate on eligible legislative bodies—namely, city councils and county boards in jurisdictions meeting specified population thresholds, and boards of large special districts meeting statutory size metrics. Eligible legislative bodies are defined as (1) cities with a population of 30,000 or more; (2) boards of supervisors of a city or county with a population of 30,000 or more; (3) city councils of a city located in a county with a population of 600,000 or more; and (4) the board of directors of a special district that has website and either (a) encompasses the entirety of a county with a population of 600,000 or more and the special district has over 200 full-time employees, (b) has more than 1,000 full-time employees, or (c) has annual revenues of more than \$400 million. **SOCWA does not meet any of these thresholds therefore SB 707 does not apply to SOCWA; however, two of SOCWA’s member agencies meet this criteria: the City of San Clemente (1) & (3) and the City of Laguna Beach (3).**

Eligible legislative bodies must provide the public real-time, two-way participation by phone or video for meetings, subject to limited exceptions including judicial or administrative proceedings, inspection of real or personal property, and emergency situations upon a majority vote of the legislative body.

To ensure continuity when technology fails, eligible legislative bodies must adopt by open-session vote, no later than July 1, 2026, a written policy addressing disruptions of the required two-way platform and restoration efforts. If a disruption prevents public attendance, the body must recess and attempt to restore access for at least one hour. After those efforts, it may resume only upon a roll-call finding that it undertook good-faith restoration efforts and that continuation serves the public interest more than further delay. The legislation also confirms authority to maintain order in both physical and remote forums. An eligible legislative body or the presiding officer may remove or limit participation by individuals who engage in disruptive conduct, regardless of whether they attend in person or via the required audiovisual or telephonic service.

SB 707 also requires targeted outreach infrastructure to broaden participation, especially among historically underrepresented populations. Eligible legislative bodies must implement an electronic system to accept and fulfill agenda requests, maintain a dedicated and accessible meetings webpage, which is linked from the agency’s homepage, describing how the public can attend and comment, and make reasonable efforts to invite historically underrepresented communities to participate, including through media serving non-English-speaking audiences and civic engagement organizations, with discretion as to implementation.

The legislation establishes robust language access obligations for eligible legislative bodies. Agendas and participation instructions must be translated into any language spoken by at least 20% of the applicable population that self-reports speaking English less than “very well,” as identified by the American Community Survey. The dedicated meetings webpage must be translated using the same threshold. Eligible legislative bodies must provide reasonable assistance to members of the public who bring personal interpreters, including space and additional time to facilitate interpretation, and must make a freely accessible physical location near the agenda posting site available so the public can post additional community-provided translations.

B. Uniform Rules for All Legislative Bodies

For all legislative bodies, SB 707 reorganizes and harmonizes the Brown Act’s teleconferencing architecture, aligning notice, disclosure, accessibility, and public comment standards across common remote-attendance scenarios. It restates and refines frameworks for declared emergencies, “just cause,” and emergency circumstances, expressly extending emergency teleconferencing to locally declared emergencies and expanding “just cause” to encompass circumstances such as physical or family medical emergencies that prevent in-person attendance, as well as military service. The legislation also preserves special teleconferencing options for neighborhood councils and certain community college organizations.

SB 707 authorizes remote attendance as a reasonable accommodation under applicable disability laws, including the Americans with Disabilities Act. Members of a legislative body attending under this accommodation generally must disclose the presence of any adults in the remote location and their relationship to the member, and participate with audio and video, unless their disability precludes compliance.

The statute further creates calibrated remote-meeting pathways for two defined bodies. First, “eligible subsidiary bodies” of local agencies—advisory entities lacking final decision-making

authority and primary jurisdiction over delineated sensitive topics such as elections, budgets, police oversight, privacy, library material restrictions, or taxing/spending proposals—may meet by teleconference if they maintain at least one physical public location, require remote members to appear on camera, and are authorized by the creating legislative body through findings adopted initially and at least every six months afterwards. Second, “eligible multijurisdictional bodies”—composed of representatives from multiple agencies or formed by joint powers agreements—may permit members to participate remotely if at least a quorum participates from one or more publicly accessible physical locations and remote members receive no compensation for that attendance, with limits on the frequency of remote appearances by any one member. SB 707 also clarifies that passive viewing via a webcast without interactive, two-way capability is not within the statutory definition of teleconferencing.

C. Additional Reforms to the Brown Act

SB 707 codifies several baseline transparency and compliance enhancements. Agencies must provide a copy of the Brown Act to each person elected or appointed to a legislative body, replacing prior language that merely encouraged distribution. The legislation removes a condition that previously constrained elected legislative bodies from imposing more stringent open-meeting requirements on appointed bodies, thereby clarifying authority to apply stricter local rules. It also standardizes special and emergency meeting notice and website posting requirements across all legislative bodies, eliminating prior carveouts. The law makes permanent the social media safe-harbor permitting separate, non-majority communications by members on internet-based platforms so long as they do not discuss specific business within the body’s jurisdiction in a way that constitutes deliberation.

D. Enactment of SB 707

Most provisions take effect on January 1, 2026, with the new eligible legislative body requirements beginning on July 1, 2026. The provisions regarding eligible legislative bodies would also sunset on January 1, 2030, unless extended by the California legislature.

II. SB 682 (Allen) Environmental Health: Product Safety PFAS (Vetoed)

SB 682 proposed a categorical ban on the distribution, sale, or offering of sale products that contained intentionally added PFAS chemicals. Under the proposed legislation, cleaning products, dental floss, products designed for use by infants and children under 12, food packaging, and ski wax that contained intentionally added PFAS would be banned in California beginning on January 1, 2028, and cookware that contained intentionally added PFAS would be banned beginning January 1, 2030. SB 682 was passed by the California state legislature on September 13, 2025, and was vetoed by Governor Newsom on October 13, 2025. **To override Governor Newsom’s veto, it would require an affirmative two-thirds vote from each house in the California legislature.**

III. AB 339 (Ortega) Local Public Employee Organizations: Notice Requirements

AB 339 was signed into law by Governor Newsom on October 13, 2025. The legislation requires local public agencies, boards, and commissions to give recognized employee

organizations—i.e., unions—no fewer than 45 days’ written notice before either (1) issuing a request for proposal; (2) issuing a request for quotation; or (2) renewing or extending any existing contract, for services within the scope of work of job classifications by the union. The written notice must include the anticipated contract duration, scope of work, anticipated cost, draft solicitation (or equivalent information), and the agency’s rationale for why the contract is necessary. In emergencies, the agency must provide as much advance notice as practicable, which is left undefined and to be determined by the local agency, board, or commission.

However, AB 339 exempts from coverage any contracts that are already governed by California’s public works and qualifications-based selection regimes. Specifically, it exempts: (1) contracts for construction, alteration, demolition, installation, repair, or maintenance that fall under the state’s prevailing wage public works law, along with any highly specialized data, software, or related services directly tied to that work; and (2) contracts for architectural, engineering, land surveying, environmental, construction or project management, and similar professional services identified in California’s Mini-Brooks Act, as well as other services connected to the planning, design, administration, oversight, review, or delivery of public works, buildings, or infrastructure subject to adopted codes or standards.

IV. AB 1286 (Boerner) Political Reform Act of 1974: Prospective Employment

AB 1286 was signed into law by Governor Newsom on October 1, 2025. The legislation addresses elected officials’ and appointees’ conflicts of interest, and it mandates disclosures about arrangements for prospective future employment in addition to other mandatory disclosures already required by the Fair Political Practice Commission’s Form 700. Under the enacted legislation, elected officials and appointees to public office are **required to disclose any arrangement for prospective employment if the employment with that employer has not begun as of the date of assuming office**. The legislation defines “arrangement for prospective employment” as “an agreement pursuant to which a prospective employer’s office of employment has been accepted by the prospective employee.”

A. Timing and Contents of Disclosures

Under the enacted legislation, elected officials must disclose an arrangement for prospective employment within 30 days of assuming office. Appointees or nominees to public office are also required to file disclosures for an arrangement of prospective employment within the same 30-day period of assuming office. However, appointees or nominees that are subject to confirmation by the Commission on Judicial Appointments or the California Senate are required to file within 10 days of their appointment or nomination. If the individual holding an elected or appointed position leaves office, he or she is required to file a disclosure statement within 30 days that details any arrangements for prospective employment covering the period in which they last filed a disclosure statement, in addition to the disclosure of investments, interests in real property, and income ordinarily required. This legislation forecloses any gap in the reporting period in which an elected or appointed official could accept an offer and not report it, furthering transparency with California state officials.

If an arrangement for prospective employment is required to be reported in self-disclosure forms, the statement must also include (1) the date that the filer accepted the prospective offer of employment, (2) the business position, (3) a general description of the business activity of the prospective employer, and (4) the name and street address of the prospective employer.

B. Additional Disclosure Requirements

Notably, AB 1286 does not abrogate any previous disclosure requirements by elected officials, nominees, appointees, or candidates for elected office but adds an additional level of disclosure for future prospective employment for California state officials. Elected and appointed officials are still required to disclose investments and interests in real property on the date of assuming office and all income received during the last 12 months before assuming office. The period for reporting investments and interests in real property begins on the date the person filed a declaration of candidacy, if applicable.