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

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

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

December 11, 2025
8:30 a.m.

PHYSICAL MEETING LOCATION:
Ocean Institute
24200 Dana Point Harbor Drive
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
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South Orange County Wastewater Authority
Board of Directors Meeting
December 11, 2025

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 November 6, 2025

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

   B. Minutes of Finance Committee 7

      - Finance Committee Special Meeting of September 16, 2025

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

   C. Minutes of Engineering Committee 10

      - Engineering Committee Regular Meeting of September 11, 2025

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

   D. Minutes of Executive Committee 13

      - Executive Committee Special Meeting of October 28, 2025

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

Agenda

Agenda

B. J.B. Latham Treatment Plant Old Effluent Pump Station Storage and Staging Area Construction Contract Award [Project Committee 2].....216

ACTION The Engineering Committee recommend that the PC 2 Board of Directors:

1. Approve an increase of $600,000 to the project budget, resulting in a revised total project budget of $850,000.
2. Authorize execution of a contract with Pacific Hygrotech in the amount of $791,700 for the JBL Old Effluent Pump Storage and Staging Area project.
3. Approve a construction contingency of $39,585 to address any unforeseen conditions encountered during the work.

C. Contract Award for Coastal Treatment Plant West Primary and Secondary Scum Skimming System Construction [Project Committee 15].....263

ACTION The Engineering Committee recommend that the PC 15 Board of Directors:

1. Approve an increase of $500,000 to the project budget, resulting in a revised total project budget of $1.75 million.
2. Authorize execution of a contract with Filanc in the amount of $784,000.
3. Approve a construction contingency of $35,040 to address any unforeseen conditions encountered during the work.

7. GENERAL MANAGER'S REPORT

A. Resolution No. 2025-15: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting the position change for the Administration department and Employee Salary Ranges Updated Exhibit "B" Salary Schedule and Exhibit "C" Organization Chart for January 2026. 309

ACTION Staff recommends that the Board of Directors approve Resolution No. 2025-15: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting the position of Lead Operator and Assistant Clerk and Revised Employee Salary Ranges updated Exhibit "B" Salary Schedule and Exhibit "C" Organization Chart for January 2026.

B. Resolution No. 2025-16: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Approving the Updated SOCWA Policy Handbook 320

ACTION Board Discussion, Direction and Action.

C. Annual Financial Policy Update..... 325

ACTION Information Item.

D. General Manager's Report 329

ACTION Information Item.

Agenda

E. SB 707 Virtual/Remote Meeting Options for SOCWA 331

ACTION Board Discussion, Direction and Action.

F. 2026 Meeting Calendar 337

ACTION Board Discussion, Direction and Action.

G. Resolution No. 2025-17: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Acknowledging Receipt of the 2025 'Roses' Award for the 2024 Reorganization Efforts 339

ACTION Staff recommends that the Board adopt Resolution No. 2025-17, entitled "A Resolution of the Board of Directors of the South Orange County Wastewater Authority Acknowledging Receipt of the 2025 'Roses' Award for the 2024 Reorganization Efforts."

H. Closed Session

1. Closed Session Conference with Legal Counsel—Existing Litigation pursuant to (Gov. Code 54956.9(d)(1)): *Case: SOCWA v. Olsson Construction, Inc*.
   OCSC Case No. 30-2025-01465359-CU-BC-NJC
2. Report out of Closed Session

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

MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Board of Directors

November 6, 2025

DRAFT

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held in person and via teleconference on November 6, 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:

MIKE GASKINS	El Toro Water District	Alternate Director
BOB WHALEN	City of Laguna Beach	Director
SCOTT GOLDMAN	South Coast Water District	Director
ROBB GRANTHAM	Santa Margarita Water District	Alternate Director
MIKE DUNBAR	Emerald Bay Service District	Director
DAVE REBENSDORF	City of San Clemente	Director

Staff Present:

AMBER BOONE	General Manager
RONI GRANT	Capital Improvement Program Manager
DINA ASH	HR Administrator
BOB CULVER	Environment Services Manager
LYNDA MAY	Assistant Secretary
ANNA SUTHERLAND	Staff Accountant

Also Present:

TRACIE STENDER	Snell & Wilmer
DANITA HIRSH	Public Member
MARC SENDER	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District

1. CALL TO ORDER

   Director Scott Goldman called the meeting to order at 8:29 a.m.

2. PLEDGE OF ALLEGIANCE – Director Scott Goldman

3. ORAL COMMUNICATIONS

   None.

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

   None.

5. CONSENT CALENDAR

Director Goldman pulled Item 5.A, 5.E, 5.F and 5.H for corrections and discussion.

ACTION TAKEN
A motion was made by Director Goldman and seconded by Director Dunbar to approve the remainder of the Consent Calendar .

Motion carried:	Aye 5 Nay 0, Abstained 1, Absent 0	
	Director Dunbar	Aye
	Director Gaskins	Abstain
	Director Whalen	Aye
	Director Grantham	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

(5B-5D & 5G)

B. Minutes of Finance Committee Meeting for August 19, 2025
C. Minutes of Engineering Committee Meeting for June 12, 2025
D. Minutes of Executive Committee Meeting for September 23, 2025
G. Use Audit Flows and Solids FY 24-25
Approved Action: The SOCWA Board of Directors approved the Use Audit calculated results for the close of the Use Audit for disbursement or collection of additional funds for FY 2024-25

Director Goldman pulled Item 5.A to incude Rick Shintaku being in attendance, and Items 5.E & F to fix a spelling typo. Director Goldman pulled 5H to inform that South Coast Water Dristrict requests Moulton Niguel Water District's flows be included in the operational reports, and requested the construction completion dates be included in the capital project status report. Roni Grant confirmed they will be included going forward.

ACTION TAKEN
A motion was made by Director Goldman and seconded by Director Dunbar to approve the amendments for the 4 items.

Motion carried:	Aye 5 Nay 0, Abstained 1, Absent 0	
	Director Dunbar	Aye
	Director Gaskins	Abstain
	Director Whalen	Aye
	Director Grantham	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

6. ENGINEERING MATTERS

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

An open discussion ensued on updates to the Scope of Work. Clean-up suggestions were made by Director Goldman regarding the sections for Master Planning Goals, External Community Engagement, Reviewing Existing Reports, Developing Project Alternatives, and Deliverables.

This was an information item; no action was taken.

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

An open discussion ensued regarding the Scope of Work's (SOW's) operational costs and relevance to the ongoing master planning process. Director Goldman emphasized the need for high-level evaluation and cost comparisons. It was also suggested that the impact on South Coast be included if coastal flows are redirected. Staff will circulate the SOW to the PC15 members for review and comment before releasing approximately 2 weeks after the Board meeting.

This was an information item; no action was taken.

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

Ms. Amber Boone confirmed that a consensus was reached on the choice of firm and the agency will bring this to the Engineering Committee meeting, and then back to the Board on December 11.

This was an information item; no action was taken.

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.

ACTION TAKEN

A motion was made by Director Whalen and seconded by Director Goldman to approve Resolution No. 2025-12: A Resolution of the Board of Directors of the South Orange County Wastewater Authority for A Commendation to Richard Gardener for providing Dedicated Service to the South Orange County Wastewater Authority and the Residents of Southern Orange County for the period of February October 1996 to October 2025.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Gaskins	Aye
	Director Whalen	Aye
	Director Grantham	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

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.

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Dunbar to 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.

Motion carried: Aye 6, Nay 0, Abstained 0, Absent 0

Director Dunbar	Aye
Director Gaskins	Aye
Director Whalen	Aye
Director Grantham	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

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

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Dunbar to 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.

Motion carried: Aye 6, Nay 0, Abstained 0, Absent 0

Director Dunbar	Aye
Director Gaskins	Aye
Director Whalen	Aye
Director Grantham	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

D. Ratification of Preferred Restoration Contract for Administration Building Replairs

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Grantham to approve the 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.

Motion carried: Aye 6, Nay 0, Abstained 0, Absent 0

Director Dunbar	Aye
Director Gaskins	Aye
Director Whalen	Aye
Director Grantham	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

E. SOCWA & Ocean Institute Collaboration MOU

An open discussion ensued with Adriana Ochoa reviewing the MOU. Mike Gaskins stated he was in favor of Option 1, instead of Option 2.

ACTION TAKEN
A motion was made by Director Goldman and seconded by Director Grantham to approve Option 2: Equal Split of $50,000 among six (6) Board-Represented Agencies over a period of 5 years at $10,000 per year.

Motion carried: Aye 5, Nay 1, Abstained 0, Absent 0

Director Dunbar	Aye
Director Gaskins	Nay
Director Whalen	Aye
Director Grantham	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

F. WEFTEC Summary Report

An open discussion ensued on the WEFTEC Report, and suggestions were made to include vendor follow-ups. Ms. Amber Boone noted the agency will bring in WIMS in January and will include any of the member agency staff that's involved. Alternative Director Grantham noted that SOCWA should lead the region in wastewater innovation through bringing outside agencies and member agency staff to SOCWA for training.

This was an information item; no action was taken.

G. General Manager's Report

An open discussion ensued regarding SOCWA being named as a Waste Discharge Agreement, and negotions in place with 34 cities and counties on additional fees. SOCWA staff also discussed the exfiltration task force stemming from the General Manager working group. Further discussion was made on potential alternatives to ferric chloride, and bio-solids management projects.

This was an information item; no action was taken.

H. General Counsel's Report

Ms. Tracie Stender, General Counsel, Snell & Wilmer, provided an update to the Board of Directors on legislation and the Brown Act revision. She briefed on the option for remote meetings and new disclosure requirements.

This was an information item; no action was taken.

I. Upcoming Meetings Schedule:
- December 11, 2025 – Board of Directors Regular Meeting
- November 13, 2025 – Engineering Committee Meeting

- November 18, 2025 – Finance Committee Meeting

This was an information item; no actions were taken.

9. OTHER MATTERS

None.

10. ADJOURNMENT

There being no further business, Director Goldman adjourned the meeting at 9:40 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 November 6, 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

DRAFT

September 16, 2025

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee was held on September 16, 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 [arrived @ 10.33 am]
DENNIS CAFFERTY	El Toro Water District	Alternate Director
ERICA CASTILLO	South Coast Water District	Alternate Director
PAUL PENDER	Santa Margarita Water District	Alternate Director

Staff Participation:

AMBER BOONE	General Manager
JIM BURROR	Deputy GM/Chief Engineer
JACK BECK	Accountant
ANNA SUTHERLAND	Staff Accountant
RONI GRANT	Capital Improvement Program Manager
DINA ASH	HR Administrator
MATT CLARKE	Chief Technology Officer
LYNDA MAY	Administrative Assistant
DANITA HIRSH	Executive Assistant/Clerk of the Board

Also Participating:

ADRIANA OCHOA	Snell & Wilmer
KATHRYN FRESHLEY	El Toro 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 10:31 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 August 19, 2025.

ACTION TAKEN
A motion was made by Director Castillo and seconded by Director Cafferty to approve the Minutes for August 19, 2025, as submitted.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 1	
	Director Curran	Absent
	Director Cafferty	Aye
	Director Pender	Aye
	Director Castillo	Aye

5. Financial Policies Update

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

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

The Finance Committee reviewed the Capitalization and Depreciation of Facilities & Equipment and the External Auditor policies and expressed no further comments. They were satisfied with the content as presented.

The Finance Committee reached a consensus to direct staff to incorporate the feedback from the discussion into the remaining policies and return updated versions for the Committee's review at the October meeting.

6. Quarterly Investment Reporting Under Government Code Section 53646

An open discussion ensued regarding the framework for the quarterly reporting of the Local Agency Investment Fund (LAIF).

The Finance Committee reached a consensus to direct staff to incorporate the feedback from the discussion and return with an updated version for the Committee's review at the October meeting.

7. Ocean Institute Partnership Opportunity Funding Strategy

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

ACTION TAKEN
A motion was made by Director Castillo and seconded by Director Curran recommending to the Board of Directors the cost allocation Option 2: Equal Split Among six (6) Board-Represented Agencies.

Motion carried:	Aye 3, Nay 1, Abstained 0, Absent 0	
	Director Curran	Aye
	Director Cafferty	Nay
	Director Pender	Aye
	Director Castillo	Aye

ACTION TAKEN
A motion was made by Director Castillo and seconded by Director Pender recommending to the Board of Directors the payment structure: Annual Basis ($10,000/yr for 5 years).

Motion carried:	Aye 3, Nay 0, Abstained 1, Absent 0	
	Director Curran	Aye
	Director Cafferty	Abstained
	Director Pender	Aye
	Director Castillo	Aye

8. Adjournment

There being no further business, Chairperson Pender adjourned the meeting at 11:43 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 September 16, 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

DRAFT

September 11, 2025

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on September 11, 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 REBENSDORF	City of San Clemente

Staff Present:

AMBER BOONE	General Manager
RONI GRANT	Capital Improvement Program (CIP) Manager
JIM BURROR	Deputy GM/Chief Engineer
BOB CULVER	Environment Service Manager
ANNA SUTHERLAND	Staff Accountant
SEAN JARDIN	Interim Chief Operator
MATT CLARKE	Chief Technology Officer
DANITA HIRSH	Executive Assistant/Clerk of the Board

Also Present:

ROD WOODS	Moulton Niguel Water District
TARYN KJOLSING	South Coast Water District
CHRIS NEWTON	South Coast Water District

1. Call Meeting to Order

   Ms. Roni Grant, Capital Improvement Program (CIP) Manager, called the meeting to order at 8:32 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 June 12, 2025.

   ACTION TAKEN

A motion was made by Mr. Dunbar and seconded by Ms. Ford to approve the Engineering Committee Minutes for June 12, 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 Status Report (Bylaws Update)

An open discussion ensued regarding the consideration of reducing the number of Committee seats from six to four (similar to the Finance Committee) due to most projects being related to PC 2 and PC 15. However, feedback and legal review suggested maintaining the current structure.

The Engineering Committee reached a consensus to maintain the Engineering Committee's existing structure.

6. FY 24-25 Use Audit Flows and Solids

An open discussion ensued regarding a routine review of flows and solids data as part of the audit process. The raw data was shared with agencies to provide transparency and allow them to verify their own figures before being presented to the Board of Directors for consideration and approval.

ACTION TAKEN
A motion was made by Ms. Leahy and seconded by Mr. Dunbar to approve the calculated results of the Use Audit for FY 24-25, including the disbursement or collection of additional funds, with corrections as noted during the discussion.

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

7. Operations Report

Mr. Jim Burror, Deputy GM/Chief Engineer, reported that Operations are currently quiet due to reduced staffing. Despite the lean team, preparations are underway for the upcoming construction activities. A recent overnight shutdown drill was conducted to ensure staff readiness when contractors arrive on site. He gave a special thanks to Roni for supporting the team during this preparation.

This was an information item; no action was taken.

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

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

- JBL Electrical Upgrades - Pre-purchasing activities for the Motor Control Center (MCC) and Plant 1 Generator are currently underway.\
- JBL Old Effluent Pump Station and Energy Building Upgrades – Construction is currently in progress.
- JBL Plant 2 Headworks Rehabilitation – Construction is currently in progress.
- JBL Old Effluent Pump Station Storage and Staging – The project is currently in bidding phase.
- CTP Diffusers Replacement – the Construction has been completed.
- CTP Aeration Deck Grating Replacement – Construction is near completion.
- CTP West Primary and Secondary Scum Skimming System – Pre-purchasing of scum skimmers, launders, and weirs is currently in progress.
- CTP Personnel Building Phase 2 Reconstruction – the project is currently in re-bidding phase.

This was an information item; no action was taken.

9. Regional Lab Feasibility Study

An open discussion ensued on the Laboratory Feasibility Study, a comprehensive study conducted by the Austin Company and a long-term project that was reintroduced to the Engineering Committee on May 9, 2024. As part of the 10-year plan, the study had previously outlined four options for the lab's future. Based on agency feedback, two options were prioritized: 1. Modernizing the existing facility without expansion, and 2. Expanding the lab to separate drinking water and wastewater operations.

Public Speaker: Rod Woods, Moulton Niguel Water District

There was consensus from the Engineering Committee to pause the current study temporarily, with plans to revisit the discussion in the future.

10. Adjournment

There being no further business, Ms. Grant adjourned the meeting at 9:08 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 September 11, 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

DRAFT

Executive Committee

October 28, 2025
9:00 a.m.

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Executive Committee was held on October 28, 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 9:03 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 10:10 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 October 28, 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

Lynda May, Administrative Assistant
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item 5.E.

Finance Committee Meeting

Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Jack Beck, Accountant

SUBJECT: Financial Reports for the Month of September 2025

Summary/Discussion

The enclosed financial reports are provided to the Finance Committee for recommendation to the Board of Directors to receive and file the summary of the O&M Budget vs. Actual Expenses as of September 30, 2025:

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

	FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended
02 - Jay B. Latham Plant	8,616,077	2,187,294	6,428,783	25.4%
05 - San Juan Creek Ocean Outfall	944,588	150,885	793,703	16.0%
08 - Pre Treatment	289,662	57,257	232,405	19.8%
12 - Water Reclamation Permits	88,769	5,768	83,001	6.5%
15 - Coastal Treatment Plant	3,822,518	885,455	2,937,063	23.2%
17 - Joint Regional Wastewater Reclamation and Sludge Handling	568,217	117,126	451,091	20.6%
21 - Effluent Transmission Main	27,589	8,789	18,800	31.9%
23 - North Coast Interceptor	17,500	5,168	12,332	29.5%
24 - Aliso Creek Ocean Outfall	807,996	169,538	638,458	21.0%
Total	15,182,916	3,587,279	11,595,637	23.7%

The O&M expenses should be less than 25% to remain in budget for September.

The reports included are as follows:

a. Budget vs. Actual Expenses:
   - Capital Projects Summaries (Exhibit A)
   - Operations and Environmental Summary (Exhibit A-1)
   - Operations and Environmental by PC (A-1.2)
   - Administration (Exhibit A-3)
   - Information Technology (IT) (Exhibit A-4)

Recommended Action: The Finance Committee recommends that the Board of Directors receive and file the September 2025 Financial Reports.

Exhibit A

South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended September 30, 2025
(in dollars)

Description	FY 2025-26 Budget vs. Actual Spending			
	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended
PC 2-JB Latham	$ 8,213,790	$ 438,997	$ 7,774,793	5.3%
PC 5-San Juan Creek Outfall	-	7,626	(7,626)	-
PC 15-Coastal	3,771,345	470,004	3,301,341	12.5%
PC 17-Regional	176,500	7,562	168,938	4.3%
PC 21 Effluent Transmission	827,273	10,407	816,866	1.3%
PC 24 Aliso Creek Outfall	45,000	9,942	35,058	22.1%
Total Large Capital	**$ 13,033,908**	**$ 944,539**	**$ 12,089,369**	**7.2%**
Non-Capital Engineering	836,000	33,723	802,277	4.0%
Small Internal Capital	1,380,000	111,234	1,268,766	8.1%
Total Capital	**$ 15,249,908**	**$ 1,089,496**	**$ 14,160,412**	**7.1%**

Exhibit A-1

South Orange County Wastewater Authority
Preliminary O & M & Environmental Safety Costs Summary[1]
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe						
-5000--**-**	Regular Salaries-O&M	3,891,857	865,707	3,026,150	22.2%	
-5001--**-**	Overtime Salaries-O&M	56,941	7,733	49,208	13.6%	
-5306--**-**	Scheduled Holiday Work	40,772	6,541	34,231	16.0%	
-5315--**-**	Comp Time - O&M	16,966	9,007	7,959	53.1%	
-5401--**-**	Fringe Benefits IN to PC's & Depts.	1,962,205	407,187	1,555,018	20.8%	
-5700--**-**	Standby Pay	53,000	18,000	35,000	34.0%	
	Total Payroll Costs	6,021,741	1,314,175	4,707,566	21.8%	
Other Expenses						
-5002--**-**	Electricity	1,101,040	311,782	789,258	28.3%	
-5003--**-**	Natural Gas	225,980	36,676	189,304	16.2%	
-5004--**-**	Potable & Reclaimed Water	51,000	13,673	37,328	26.8%	
-5006--**-**	Chlorine/Sodium Hypochlorite	182,500	78,058	104,442	42.8%	(1)
-5007--**-**	Polymer Products	550,000	178,582	371,418	32.5%	
-5008--**-**	Ferric Chloride	700,000	176,712	523,288	25.2%	
-5009--**-**	Odor Control Chemicals	115,000	28,072	86,928	24.4%	
-5010--**-**	Small Purchases and Consumables	217,516	47,379	170,137	21.8%	
-5011--**-**	Laboratory Services	66,104	41,951	24,153	63.5%	(6)
-5012--**-**	Grit Hauling	102,000	26,495	75,505	26.0%	
-5015--**-**	Management Support Services	407,500	87,743	319,757	21.5%	
-5016--**-**	Audit - Environmental	4,356	-	4,356	0.0%	
-5017--**-**	Legal Fees	10,000	874	9,126	8.7%	
-5019--**-**	Contract Services Misc.	566,100	98,116	467,984	17.3%	
-5027--**-**	Insurance - Property/Liability	737,903	380,868	357,035	51.6%	(2)
-5030--**-**	Trash Disposal	6,000	1,953	4,047	32.6%	
-5034--**-**	Travel Expense/Tech. Conferences	212,430	35,318	177,112	16.6%	
-5036--**-**	Laboratory Supplies	144,522	47,341	97,181	32.8%	
-5037--**-**	Office Equipment	17,000	492	16,508	2.9%	
-5038--**-**	Permits	749,801	25,965	723,836	3.5%	
-5044--**-**	Offshore Monitoring	100,000	20,750	79,250	20.8%	

Exhibit A-1

South Orange County Wastewater Authority
Preliminary O & M & Environmental Safety Costs Summary[1]
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended	
-5045--**-**	Offshore Biochemistry - 20B	22,000	12,424	9,576	56.5%	(5)
-5046--**-**	Effluent Chemistry	52,880	11,302	41,578	21.4%	
-5047--**-**	Access Road Expenses	48,000	-	48,000	0.0%	
-5048--**-**	Storm Damage	20,000	-	20,000	0.0%	
-5049--**-**	Biosolids Disposal	800,000	226,564	573,436	28.3%	
-5054--**-**	Diesel Truck Maint	30,500	2,885	27,615	9.5%	
-5056--**-**	Maintenance Equip. & Facilities (Solids)	125,000	15,974	109,026	12.8%	
-5057--**-**	Maintenance Equip. & Facilities (Liquids)	300,000	60,814	239,186	20.3%	
-5058--**-**	Maintenance Equip. & Facilities (Common)	56,000	11,988	44,012	21.4%	
-5059--**-**	Maintenance Equip. & Facilities (Co-Gen)	308,000	85,580	222,420	27.8%	
-5060--**-**	Maintenance Equip. & Facilities (AWT)	30,000	17,552	12,448	58.5%	(3)
-5068--**-**	MNWD Potable Water Supplies & Svcs.	41,000	11,606	29,394	28.3%	
-5076--**-**	SCADA Infrastructure	220,000	464	219,536	0.2%	
-5101--**-**	Employee Recognition	1,300	200	1,100	15.4%	
-5303--**-**	Group Insurance Waiver	3,600	-	3,600	0.0%	
-5309--**-**	Operating Leases	66,000	-	66,000	0.0%	
-5705--**-**	Monthly Car Allowance	22,800	4,708	18,092	20.6%	
-5777--**-**	Laboratory Lease	12,000	-	12,000	0.0%	
-5799--**-**	Stormwater Station Costs Share - O&M	(14,000)	-	(14,000)	0.0%	
-6500--**-**	IT Allocations in to PC's & Depts.	749,343	172,244	577,099	23.0%	
	Total Other Expenses	9,161,175	2,273,105	6,888,070	24.8%	
	Total O&M Expenses	**15,182,916**	**3,587,279**	**11,595,637**	**23.6%**	

[1] This report intends to monitor the Annual Budget % Expended at the Project Committee and Functional Department levels.

The financial information contained in this report, in some cases, is based on the full accrual basis of accounting, whereby expenses are recognized in the period in which the liability is incurred, i.e., payroll and fringe benefits.

There are instances where we will include the total expense for the entire accounting fiscal year if the information is available, i.e., property and liability insurance premiums.

The audited financial statements for the fiscal year recognize all expenses on the full accrual basis of accounting.

(1) Bleach Usage is elevated due to ongoing sewage septicity issues and elevated recycled water deliveries.
(2) Annual payments are made at the beginning of the FY.
(3) Annual repairs were completed on the CTP AWT.

Exhibit A-1.2

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

	FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended
02 - Jay B. Latham Plant	8,616,077	2,187,294	6,428,783	25.4%
05 - San Juan Creek Ocean Outfall	944,588	150,885	793,703	16.0%
08 - Pre Treatment	289,662	57,257	232,405	19.8%
12 - Water Reclamation Permits	88,769	5,768	83,001	6.5%
15 - Coastal Treatment Plant	3,822,518	885,455	2,937,063	23.2%
17 - Joint Regional Wastewater Reclamation and Sludge Handling	568,217	117,126	451,091	20.6%
21 - Effluent Transmission Main	27,589	8,789	18,800	31.9%
23 - North Coast Interceptor	17,500	5,168	12,332	29.5%
24 - Aliso Creek Ocean Outfall	807,996	169,538	638,458	21.0%
Total	15,182,916	3,587,279	11,595,637	23.7%

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended	
02 - Jay B. Latham Plant						
Salary and Fringe						
02-5000-**-**-**	Regular Salaries-O&M	2,114,092	456,698	1,657,394	21.6%	
02-5001-**-**-**	Overtime Salaries-O&M	41,564	4,953	36,611	11.9%	
02-5306-**-**-**	Scheduled Holiday Work	24,475	4,438	20,037	18.1%	
02-5315-**-**-**	Comp Time - O&M	13,574	8,008	5,566	59.0%	
02-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	1,065,880	230,604	835,276	21.6%	
02-5700-**-**-**	Standby Pay	41,000	15,500	25,500	37.8%	
	Total Payroll Costs	3,300,585	720,201	2,580,384	21.8%	
Other Expenses						
02-5002-**-**-**	Electricity	791,040	215,416	575,624	27.2%	
02-5003-**-**-**	Natural Gas	222,480	36,607	185,873	16.5%	
02-5004-**-**-**	Potable & Reclaimed Water	27,000	8,188	18,812	30.3%	
02-5006-**-**-**	Chlorine/Sodium Hypochlorite	65,000	20,558	44,442	31.6%	(1)
02-5007-**-**-**	Polymer Products	550,000	178,582	371,418	32.5%	
02-5008-**-**-**	Ferric Chloride	400,000	150,205	249,795	37.6%	(1)
02-5009-**-**-**	Odor Control Chemicals	45,000	12,478	32,522	27.7%	
02-5010-**-**-**	Small Purchases and Consumables	151,100	27,892	123,208	18.5%	
02-5011-**-**-**	Laboratory Services	16,924	10,850	6,074	64.1%	(6)
02-5012-**-**-**	Grit Hauling	80,000	20,061	59,939	25.1%	
02-5015-**-**-**	Management Support Services	25,000	6,962	18,038	27.8%	
02-5016-**-**-**	Audit - Environmental	500	-	500	0.0%	
02-5017-**-**-**	Legal Fees	5,000	874	4,126	17.5%	
02-5019-**-**-**	Contract Services Misc.	343,000	64,874	278,126	18.9%	
02-5027-**-**-**	Insurance - Property/Liability	353,523	181,730	171,793	51.4%	(2)
02-5030-**-**-**	Trash Disposal	3,000	1,456	1,544	48.5%	
02-5034-**-**-**	Travel Expense/Tech. Conferences	90,785	19,826	70,959	21.8%	
02-5036-**-**-**	Laboratory Supplies	21,630	8,714	12,916	40.3%	
02-5037-**-**-**	Office Equipment	14,000	492	13,508	3.5%	
02-5038-**-**-**	Permits	34,195	24,660	9,535	72.1%	(2)
02-5049-**-**-**	Biosolids Disposal	800,000	226,564	573,436	28.3%	
02-5054-**-**-**	Diesel Truck Maint	29,000	1,567	27,433	5.4%	
02-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	125,000	15,974	109,026	12.8%	
02-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	200,000	42,816	157,184	21.4%	
02-5058-**-**-**	Maintenance Equip. & Facilities (Common)	30,000	6,591	23,409	22.0%	
02-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	308,000	85,580	222,420	27.8%	
02-5076-**-**-**	SCADA Infrastructure	110,000	365	109,636	0.3%	
02-5101-**-**-**	Employee Recognition	1,000	100	900	10.0%	
02-5309-**-**-**	Operating Leases	66,000	-	66,000	0.0%	
02-5705-**-**-**	Monthly Car Allowance	10,000	3,254	6,746	32.5%	
02-5777-**-**-**	Laboratory Lease	3,000	-	3,000	0.0%	
02-5799-**-**-**	Stormwater Station Costs Share - O&M	(14,000)	-	(14,000)	0.0%	
02-6500-**-**-**	IT Allocations in to PC's & Depts.	408,315	93,855	314,460	23.0%	
	Total Other Expenses	5,315,492	1,467,093	3,848,399	27.6%	
	Total Expenses	8,616,077	2,187,294	6,428,783	25.4%	

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended	
05 - San Juan Creek Ocean Outfall						
Salary and Fringe						
05-5000-**-**-**	Regular Salaries-O&M	85,709	19,882	65,827	23.2%	
05-5001-**-**-**	Overtime Salaries-O&M	106	-	106	0.0%	
05-5306-**-**-**	Scheduled Holiday Work	515	-	515	0.0%	
05-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	42,743	10,039	32,704	23.5%	
	Total Payroll Costs	129,073	29,921	99,152	23.2%	
Other Expenses						
05-5015-**-**-**	Management Support Services	150,000	25,000	125,000	16.7%	
05-5016-**-**-**	Audit - Environmental	500	-	500	0.0%	
05-5027-**-**-**	Insurance - Property/Liability	114,398	59,267	55,131	51.8%	(2)
05-5034-**-**-**	Travel Expense/Tech. Conferences	15,585	1,790	13,795	11.5%	
05-5036-**-**-**	Laboratory Supplies	41,300	8,000	33,300	19.4%	
05-5038-**-**-**	Permits	382,658	-	382,658	0.0%	
05-5044-**-**-**	Offshore Monitoring	50,000	10,375	39,625	20.8%	
05-5045-**-**-**	Offshore Biochemistry - 20B	11,000	6,058	4,942	55.1%	(5)
05-5046-**-**-**	Effluent Chemistry	29,000	6,711	22,289	23.1%	
05-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,000	-	1,000	0.0%	
05-5705-**-**-**	Monthly Car Allowance	700	-	700	0.0%	
05-5777-**-**-**	Laboratory Lease	3,000	-	3,000	0.0%	
05-6500-**-**-**	IT Allocations in to PC's & Depts.	16,374	3,764	12,610	23.0%	
	Total Other Expenses	815,515	120,964	694,551	14.8%	
	Total Expenses	944,588	150,885	793,703	16.0%	
08 - Pre Treatment						
Salary and Fringe						
08-5000-**-**-**	Regular Salaries-O&M	141,939	30,601	111,338	21.6%	
08-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	71,671	15,452	56,219	21.6%	
	Total Payroll Costs	213,610	46,053	167,557	21.6%	
Other Expenses						
08-5010-02-00-00	Small Purchases and Consumables	8,416	-	8,416	0.0%	
08-5011-02-00-00	Laboratory Services	3,180	1,919	1,261	60.3%	(6)
08-5015-02-00-00	Management Support Services	20,000	-	20,000	0.0%	
08-5016-02-00-00	Audit - Environmental	1,356	-	1,356	0.0%	
08-5019-02-00-00	Contract Services Misc.	1,600	-	1,600	0.0%	
08-5027-02-00-00	Insurance - Property/Liability	4,152	2,151	2,001	51.8%	(2)
08-5034-02-00-00	Travel Expense/Tech. Conferences	9,295	823	8,472	8.9%	
08-5038-02-00-00	Permits	598	-	598	0.0%	
08-6500-02-00-00	IT Allocations in to PC's & Depts.	27,455	6,311	21,144	23.0%	
	Total Other Expenses	76,052	11,204	64,848	14.7%	
	Total Expenses	289,662	57,257	232,405	19.8%	

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended	
12 - Water Reclamation Permits						
Salary and Fringe						
12-5000-**-**-**	Regular Salaries-O&M	26,785	2,600	24,185	9.7%	
12-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	13,525	1,313	12,212	9.7%	
	Total Payroll Costs	40,310	3,913	36,397	9.7%	
Other Expenses						
12-5015-02-00-00	Management Support Services	35,000	-	35,000	0.0%	
12-5016-02-00-00	Audit - Environmental	500	-	500	-	
12-5027-02-00-00	Insurance - Property/Liability	1,283	665	618	51.8%	(2)
12-5034-02-00-00	Travel Expense/Tech. Conferences	5,795	-	5,795	0.0%	
12-5705-02-00-00	Monthly Car Allowance	700	-	700	0.0%	
12-6500-02-00-00	IT Allocations in to PC's & Depts.	5,181	1,191	3,990	23.0%	
	Total Other Expenses	48,459	1,856	46,603	3.8%	
	Total Expenses	88,769	5,768	83,001	6.5%	
15 - Coastal Treatment Plant						
Salary and Fringe						
15-5000-**-**-**	Regular Salaries-O&M	1,174,166	268,852	905,314	22.9%	
15-5001-**-**-**	Overtime Salaries-O&M	14,223	2,201	12,022	15.5%	
15-5306-**-**-**	Scheduled Holiday Work	12,602	1,239	11,363	9.8%	
15-5315-**-**-**	Comp Time - O&M	2,120	998	1,122	47.1%	
15-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	592,346	135,754	456,592	22.9%	
15-5700-**-**-**	Standby Pay	12,000	2,500	9,500	20.8%	
	Total Payroll Costs	1,807,457	411,544	1,395,913	22.8%	
Other Expenses						
15-5002-**-**-**	Electricity	310,000	96,366	213,634	31.1%	
15-5003-**-**-**	Natural Gas	3,500	69	3,431	2.0%	
15-5004-**-**-**	Potable & Reclaimed Water	24,000	5,484	18,516	22.9%	
15-5006-**-**-**	Chlorine/Sodium Hypochlorite	117,500	57,500	60,000	48.9%	(1)(3)
15-5008-**-**-**	Ferric Chloride	300,000	26,508	273,492	8.8%	
15-5009-**-**-**	Odor Control Chemicals	70,000	15,594	54,406	22.3%	
15-5010-**-**-**	Small Purchases and Consumables	56,500	15,678	40,822	27.7%	
15-5011-**-**-**	Laboratory Services	16,000	14,509	1,491	90.7%	(6)
15-5012-**-**-**	Grit Hauling	22,000	6,434	15,566	29.2%	
15-5015-**-**-**	Management Support Services	27,500	1,981	25,519	7.2%	
15-5016-**-**-**	Audit - Environmental	500	-	500	0.0%	
15-5017-**-**-**	Legal Fees	5,000	-	5,000	0.0%	
15-5019-**-**-**	Contract Services Misc.	221,500	33,242	188,258	15.0%	
15-5027-**-**-**	Insurance - Property/Liability	159,272	82,515	76,757	51.8%	(2)
15-5030-**-**-**	Trash Disposal	3,000	497	2,503	16.6%	
15-5034-**-**-**	Travel Expense/Tech. Conferences	78,625	11,075	67,550	14.1%	
15-5036-**-**-**	Laboratory Supplies	23,000	9,078	13,922	39.5%	
15-5037-**-**-**	Office Equipment	3,000	-	3,000	0.0%	
15-5038-**-**-**	Permits	3,450	1,305	2,145	37.8%	
15-5047-**-**-**	Access Road Expenses	45,000	-	45,000	0.0%	
15-5048-**-**-**	Storm Damage	20,000	-	20,000	0.0%	
15-5054-**-**-**	Diesel Truck Maint	1,500	1,318	182	87.8%	
15-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	100,000	17,999	82,001	18.0%	
15-5058-**-**-**	Maintenance Equip. & Facilities (Common)	24,000	5,396	18,604	22.5%	
15-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	30,000	17,552	12,448	58.5%	(4)
15-5076-**-**-**	SCADA Infrastructure	110,000	100	109,901	0.1%	
15-5101-**-**-**	Employee Recognition	300	100	200	33.3%	
15-5705-**-**-**	Monthly Car Allowance	10,000	1,454	8,546	14.5%	
15-5777-**-**-**	Laboratory Lease	3,000	-	3,000	0.0%	
15-6500-**-**-**	IT Allocations in to PC's & Depts.	226,914	52,159	174,755	23.0%	
	Total Other Expenses	2,015,061	473,911	1,541,150	23.5%	

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended
	Total Expenses	3,822,518	885,455	2,937,063	23.2%
17 - Joint Regional Wastewater Reclamation and Sludge Handling					
Salary and Fringe					
17-5000-**-**-**	Regular Salaries-O&M	264,922	59,875	205,047	22.6%
17-5001-**-**-**	Overtime Salaries-O&M	530	579	(49)	109.2%
17-5306-**-**-**	Scheduled Holiday Work	3,180	864	2,316	27.2%
17-5315-**-**-**	Comp Time - O&M	1,272	-	1,272	0.0%
17-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	133,769	292	133,477	0.2%
	Total Payroll Costs	403,673	61,610	342,063	15.3%
Other Expenses					
17-5010-**-**-**	Small Purchases and Consumables	1,500	3,809	(2,309)	253.9%
17-5011-**-**-**	Laboratory Services	30,000	14,674	15,326	48.9%
17-5016-**-**-**	Audit - Environmental	500	-	500	0.0%
17-5034-**-**-**	Travel Expense/Tech. Conferences	5,000	54	4,946	1.1%
17-5036-**-**-**	Laboratory Supplies	31,000	13,593	17,407	43.8%
17-5068-**-**-**	MNWD Potable Water Supplies & Svcs.	41,000	11,606	29,394	28.3%
17-5303-**-**-**	Group Insurance Waiver	3,600	-	3,600	0.0%
17-5705-**-**-**	Monthly Car Allowance	700	-	700	0.0%
17-6500-**-**-**	IT Allocations in to PC's & Depts.	51,244	11,779	39,465	23.0%
	Total Other Expenses	164,544	55,516	109,028	33.7%
	Total Expenses	568,217	117,126	451,091	20.6%
21 - Effluent Transmission Main					
Salary and Fringe					
21-5000-**-**-**	Regular Salaries-O&M	7,060	-	7,060	0.0%
21-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	3,565	-	3,565	0.0%
	Total Payroll Costs	10,625	-	10,625	0.0%
Other Expenses					
21-5027-**-**-**	Insurance - Property/Liability	16,964	8,789		
	Total Other Expenses	16,964	8,789	8,175	51.8%
	Total Expenses	27,589	8,789	18,800	31.9%
23 - North Coast Interceptor					
Salary and Fringe					
23-5000-**-**-**	Regular Salaries-O&M	5,000	-	5,000	0.0%
23-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	2,525	-	2,525	0.0%
	Total Payroll Costs	7,525	-	7,525	0.0%
Other Expenses					
23-5027-**-**-**	Insurance - Property/Liability	9,975	5,168	4,807	51.8%
	Total Other Expenses	9,975	5,168	4,807	51.8%
	Total Expenses	17,500	5,168	12,332	29.5%

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended	
24 - Aliso Creek Ocean Outfall						
Salary and Fringe						
24-5000-**-**-**	Regular Salaries-O&M	71,654	27,199	44,455	38.0%	
24-5001-**-**-**	Overtime Salaries-O&M	518	-	518	0.0%	
24-5306-**-**-**	Scheduled Holiday Work	530	-	530	0.0%	
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	36,181	13,734	22,447	38.0%	
	Total Payroll Costs	108,883	40,932	67,951	37.6%	
Other Expenses						
24-5015-**-**-**	Management Support Services	150,000	53,800	96,200	35.9%	
24-5016-**-**-**	Audit - Environmental	500	-	500	0.0%	
24-5027-**-**-**	Insurance - Property/Liability	78,336	40,584	37,752	51.8%	(2)
24-5034-**-**-**	Travel Expense/Tech. Conferences	7,345	1,749	5,596	23.8%	
24-5036-**-**-**	Laboratory Supplies	27,592	7,955	19,637	28.8%	
24-5038-**-**-**	Permits	328,900	-	328,900	0.0%	
24-5044-**-**-**	Offshore Monitoring	50,000	10,375	39,625	20.8%	
24-5045-**-**-**	Offshore Biochemistry - 20B	11,000	6,366	4,634	57.9%	(5)
24-5046-**-**-**	Effluent Chemistry	23,880	4,591	19,289	19.2%	(5)
24-5047-**-**-**	Access Road Expenses	3,000	-	3,000	0.0%	
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,000	-	1,000	0.0%	
24-5705-**-**-**	Monthly Car Allowance	700	-	700	0.0%	
24-5777-**-**-**	Laboratory Lease	3,000	-	3,000	0.0%	
24-6500-**-**-**	IT Allocations in to PC's & Depts.	13,860	3,186	10,674	23.0%	
	Total Other Expenses	699,113	128,606	570,507	18.4%	
	Total Expenses	807,996	169,538	638,458	21.0%	
	Total O&M Expenses	**15,182,916**	**3,587,279**	**11,595,637**	**23.6%**	

[1] This report intends to monitor the Annual Budget % Expended at the Project Committee and Functional Department levels.

The financial information contained in this report, in some cases, is based on the full accrual basis of accounting, whereby expenses are recognized in the period in which the liability is incurred, i.e., payroll and fringe benefits.

There are instances where we will include the total expense for the entire accounting fiscal year if the information is available, i.e., property and liability insurance premiums.

The audited financial statements for the fiscal year recognize all expenses on the full accrual basis of accounting.

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended September 30, 2025

(1) Ferric chloride and bleach usage have continued to increase due to sewage septicity.

(2) Annual payments are made at the beginning of the FY.

(3) Bleach Usage is elevated due to elevated recycled water deliveries.

(4) Annual repairs were completed on the CTP AWT.

(5) 5 year NPDES Permit required testing. Costs will level out.

(6) Inflationary and compliance testing timing.

Exhibit A-3

South Orange County Wastewater Authority
Preliminary Budget vs. Actual Comparison- Administration
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended
01-5000-04-00-00	Regular Salaries-ADMIN	773,482	169,646	603,836	21.9%
01-5001-04-00-00	Overtime Salaries-O&M	530	144	386	27.2%
01-5315-04-00-00	Comp Time - O&M	1,060	-	1,060	0.0%
01-5401-04-00-00	Fringe Benefits IN to PC's & Depts.	390,561	85,661	304,900	21.9%
	Total Payroll Costs	1,165,633	255,452	910,181	21.9%
Other Expenses					
01-5010-04-00-00	Small Purchases and Consumables	26,000	3,600	22,400	13.8%
01-5015-04-00-00	Management Support Services	150,000	6,658	143,342	4.4%
01-5016-04-00-00	Audit	45,000	15,350	29,650	34.1%
01-5017-04-00-00	Legal Fees	100,000	26,252	73,748	26.3%
01-5019-04-00-00	Contract Services Misc. - 29	9,709	1,350	8,359	13.9%
01-5034-04-00-00	Memberships & Trainings	121,000	39,121	81,879	32.3%
01-5037-04-00-00	Office Equipment	1,000	-	1,000	0.0%
01-5074-04-00-00	Education Reimbursement	1,000	-	1,000	0.0%
01-5079-04-00-00	Scholarship Reimbursement	1,000	-	1,000	0.0%
01-5101-04-00-00	Employee Recognition	26,050	6,073	19,977	23.3%
01-5705-04-00-00	Monthly Car Allowance	16,200	3,969	12,231	24.5%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	138,922	34,390	104,532	24.8%
	Total Other Expenses	635,881	136,764	499,117	21.5%
	Total Admin Expenses	**1,801,514**	**392,215**	**1,409,299**	**21.8%**

Exhibit A-4

South Orange County Wastewater Authority
Preliminary Budget vs. Actual Comparison-IT
For the Period Ended September 30, 2025
(in dollars)

		FY 2025-26 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-5000-05-00-00	Regular Salaries-IT	151,848	34,476	117,372	22.7%
01-5401-05-00-00	Fringe Benefits IN to PC's & Depts.	76,674	17,408	59,266	22.7%
	Total Salary & Fringe	228,522	51,885	176,637	22.7%
Other Expenses					
01-5010-05-00-00	Small Tools & Supplies	4,000	169	3,831	4.2%
01-5015-05-00-00	Training Expense	150,000	22,238	127,762	14.8%
01-5034-05-00-00	Recruitment & Employee Relations, IT DEPT	7,025	1,576	5,449	0.0%
01-5076-05-00-00	Memberships & Trainings	303,831	75,422	228,409	24.8%
01-5078-05-00-00	Travel & Conference	145,382	39,114	106,268	0.0%
01-5309-05-00-00	Software Maintenance Agreements	56,000	15,261	40,739	27.3%
01-5705-05-00-00	Hardware Maintenance Agreements	4,200	969	3,231	23.1%
	Total Other Expenses	670,438	154,750	515,688	23.1%
	Total Expenses before Allocation	**898,960**	**206,634**	**692,326**	**23.0%**

Agenda Item 5.F.

Legal Counsel Review: Yes

Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, General Manager

SUBJECT: Quarterly Investment Reporting Under Government Code Section 53646

Summary

The May 20, 2025, Finance Committee asked SOCWA staff to investigate quarterly reports of investments. SOCWA staff reported an update at the September 16, 2025 SOCWA Finance Committee Meeting but the update contained the previous year's report. This updated staff report contains the Q1, Q2, and Q3 2025 quarterly investment reporting requirements applicable to our Joint Powers Authority (JPA) under California Government Code Section 53646. Given our current investment in the Local Agency Investment Fund (LAIF), certain simplified reporting provisions apply that reduce our administrative burden while maintaining optional compliance with state law.

Background

California Government Code Section 53646 established quarterly investment reporting requirements for all local agencies, including Joint Powers Authorities. These requirements are designed to ensure transparency, accountability, and proper oversight of public investment activities. SOCWA currently maintains investments in the California Local Agency Investment Fund (LAIF), which is administered by the State Treasurer's Office. LAIF is specifically created under Government Code Section 16429.1 and provides a pooled investment option for California public agencies.

The May 20, 2025, Finance Committee requested the General Manager to complete the following:

1. **At Least Quarterly:** Distribute the most recent LAIF quarterly statement(s) to:
    - Finance Committee, and/or
    - Board of Directors
2. **Include with LAIF statements:**
    - Brief staff memo confirming compliance with investment policy
    - Statement regarding liquidity and ability to meet six-month expenditure requirements
    - Any additional information requested by the Board

Table 1 provides the reportable due dates for compliance with the Quarterly Investing report. It is noted that the August 14, 2025, due date passed for Q4 2025 posting due to publication timelines for the August 19, 2025, Finance Committee. Staff will utilize the calendar in Table 1 for adherence to the reporting schedule moving forward.

Table 1: Reportable Due Dates

Quarter	Quarter-End Date	Report Due Date
Q1 2025	3/31/2026	8/14/2025
Q2 2025	6/30/2025	11/14/2025
Q3 2025	9/30/2025	2/14/2026
Q4 2025	12/31/2025	5/15/2026

Reportable Action

The direction from the Finance Committee was to provide information based on the information presented at the May 20, 2025, Finance Committee Meeting. Therefore, attached are the LAIF statements ending FY Q4 (June 30, 2025).

No other investments were made outside of LAIF, in compliance with the Investment Policy. All expenses were met, concluding June 30, 2025, with ample liquidity to meet the Authority's expenses. The Annual Use Audit, with oversight by the External Auditor, will reconcile the funds to be refunded to SOCWA Member Agencies. No additional funds were requested by the close of FY 24-25, Q4, ending June 30, 2025.

Recommended Action: The Finance Committee recommends that the Board of Directors receive and file the Quarterly Investment Reports.

Attachments: LAIF Statements for Q1, Q2, & Q3 2025

MALIA M. COHEN

California State Controller

LOCAL AGENCY INVESTMENT FUND
REMITTANCE ADVICE

Agency Name	SO ORANGE CO WSTWTR AUTH
Account Number	70-30-007

As of 4/15/2025, your Local Agency Investment Fund account has been directly credited with the interest earned on your deposits for the quarter ending 3/31/2025.

Earnings Ratio		0.00012266258268207
Interest Rate		4.48%
Dollar Day Total	$	1,446,930,967.22
Quarter End Principal Balance	$	16,077,578.05
Quarterly Interest Earned	$	177,484.29

MALIA M. COHEN

California State Controller

LOCAL AGENCY INVESTMENT FUND
REMITTANCE ADVICE

Agency Name	SO ORANGE CO WSTWTR AUTH
Account Number	

As of 7/15/2025, your Local Agency Investment Fund account has been directly credited with the interest earned on your deposits for the quarter ending 6/30/2025.

Earnings Ratio		0.00012059828906715
Interest Rate		4.40%
Dollar Day Total	$	1,467,785,892.88
Quarter End Principal Balance	$	14,385,062.34
Quarterly Interest Earned	$	177,012.47

MALIA M. COHEN

California State Controller

LOCAL AGENCY INVESTMENT FUND
REMITTANCE ADVICE

Agency Name	SO ORANGE CO WSTWTR AUTH
Account Number	

As of 10/15/2025, your Local Agency Investment Fund account has been directly credited with the interest earned on your deposits for the quarter ending 9/30/2025.

Earnings Ratio		0.00011893333163814
Interest Rate		4.34%
Dollar Day Total	$	1,100,232,707.94
Quarter End Principal Balance	$	15,062,074.81
Quarterly Interest Earned	$	130,854.34

Agenda Item 5.G.

Board of Directors Meeting

Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Jim Burror, Deputy General Manager/Chief Engineer

SUBJECT: October 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 October 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)	2.29	7.65	0.95	10.88
Effluent (mgd)	2.46	7.65	2.72	12.83
Peak Flow (mgd)	9.30	11.69	6.99	27.98
Influent BOD (mg/l)	239	253	361	
Influent TSS (mg/l)	370	452	436	
Effluent BOD (mg/l)	3.4	7.0	6.1	
Effluent TSS (mg/l)	7.1	7.3	6.3	
Effluent Turbidity (NTU)	2.9	4.1	3.2	

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

Recycled Water (AWT) Operations

Key Parameters	CTP	JBL	Totals
Average Flow (mgd)	0.49		0.49
Days of Operation (days)	29		
Total Flow (million gallons)	15.22		15.22
Plant Irrigation (million gallons)	0.10	0.33	0.43
AWT Time Online (%)	88.8		

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 October 2025 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	JBL	Totals
Nursery Products (tons)		937.8	937.8
Prima Deshecha (tons)		0.0	0.0
Other:_____ (tons)		0.0	0.0
Total Processed (tons)		937.8	937.8

Summary of Maintenance Activities

Task Type	CTP	JBL	Totals
Preventative Maintenance	186	220	406
Corrective Maintenance	9	24	33

Site Visitors

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

Grit Disposal Management

Grit & Screenings	CTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	22.9	28.9

Chemical and Energy Utilization

Chemical/Utility	CTP	JBL	Totals
Ferric Chloride (tons)	8.8	NA	9
Utility Power Purchase (kWh)	171,062	671,258	842,320
Cogen Power (kWh)		105,390	105,390
Natural Gas (Dth)	NA	320	320
Digester Gas to Engine (scfm)		1,011,858	1,011,858
Digester Gas to Boiler (scfm)		866,203	866,203
Digester Gas to Flares (scfm)		5,422,523	5,422,523

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 October 2025 (cont'd)

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

Agency	CTP (mgd)	CTP (%)	JBL (mgd)	JBL (%)	Total (mgd)	Notes
CLB	1.250	52.57%			1.250	
EBSD	0.078	3.29%			0.078	
MNWD			1.400	16.29%	1.400	C/O SCWD
SCWD	1.050	44.14%	1.594	18.55%	2.644	
SMWD			5.599	65.15%	5.599	
Total	2.378	100.00%	8.593	100.00%	10.972	

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB			1.25	10.84%	1.25	
EBSD			0.08	0.68%	0.08	
MNWD	2.81	21.36%	2.85	24.69%	5.66	C/O SCWD/SMWD (SJCOO) & ETWD (ACOO)
SCWD	1.77	13.43%	1.14	9.85%	2.90	
ETWD			2.37	20.58%	2.37	
IRWD			3.85	33.36%	3.85	C/O ETWD
SMWD	6.15	46.67%			6.15	
CSC	2.44	18.55%			2.44	
Total	13.17	100.00%	11.53	100.00%	24.70	

SOCWA Operational Report October 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%	1.598	20.85%	1.594	18.55%	1.46	17.43%
SMWD	6.25	48.08%	4.667	60.89%	5.599	65.15%	5.52	65.86%
MNWD(3)			1.400	18.26%	1.400	16.29%	1.40	16.71%
Total	13.00	100.00%	7.665	100.00%	8.593	100.00%	8.38	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%	5,183	17.12%	2,898	8.08%	3,416	14.23%
SMWD	22,518	58.38%	19,402	64.08%	25,286	70.54%	15,916	66.31%
MNWD(3)			5,693	18.80%	7,664	21.38%	4,671	19.46%
Total	38,573	100.00%	30,278	100.00%	35,848	100.00%	24,003	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	16.63%	13.300	16.63%	2.443	18.55%	2.338	19.41%
SCWD	12.46%	9.970	12.46%	1.768	13.43%	1.638	13.60%
SMWD	55.40%	44.320	55.40%	6.146	46.67%	6.038	50.14%
MNWD(4)		12.410	15.51%	2.813	21.36%	2.029	16.85%
Total	100.00%	80.000	100.00%	13.171	100.00%	12.043	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) C/O SCWD for billing.

(4) C/O SCWD and SMWD for billing.

SOCWA Operational Report October 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%	1.250	52.57%	1.367	53.56%
EBSD	0.20	2.99%	0.060	2.25%	0.078	3.29%	0.059	2.33%
SCWD	2.86	42.69%	1.180	44.19%	1.050	44.14%	1.126	44.11%
Total	6.70	100.00%	2.670	100.00%	2.378	100.00%	2.553	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%	1.250	10.84%	1.367	15.97%
EBSD	0.78%	0.390	0.78%	0.078	0.68%	0.059	0.69%
ETWD	16.30%	8.151	16.30%	2.372	20.58%	1.373	16.04%
MNWD(1)	43.85%	21.924	43.85%	2.847	24.69%	1.806	21.09%
IRWD(1)	15.76%	7.880	15.76%	3.846	33.36%	3.097	36.16%
SCWD	12.31%	6.155	12.31%	1.136	9.85%	0.861	10.05%
Total	100.00%	50.000	100.00%	11.530	100.00%	8.563	100.00%

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

Select Critical Equipment Repairs

JBL - PC2

Repaired failing Aeration Tank Sump Pump #2 and tested repairs at JBL.
Started the Cogen Engine overhaul project at JBL.
Replaced failed Muffin Monster at JBL.
Repaired leaking Urea feed line at JBL.
Repaired failing Centrifuge #2 and tested repairs at JBL.
Repaired failing PLC-EHW and tested repairs at JBL.
Repaired a failed Solids Scrubber pH probe and tested repairs at JBL.
Repaired leaking Potable Water Booster #1 supply line at JBL.
Repaired failing SCADA alarm callouts and tested repairs at JBL.
Replaced a leaking Polymer Feed Pump feed line at JBL.
Troubleshot Centrifuge #1 at JBL.
Supported Building #40 Roofing replacement construction.

CTP - PC15

Replaced failed Backwash Pump #1 at CTP.
Repaired failing WAS Pump #2 Controller / West and tested repairs at CTP.
Troubleshot the Building #30 Exhaust Fan Motor.
Troubleshot Building #43 SCADA communications failure.
Troubleshot AWT SCADA PanelView failure.

SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report October 2025 (cont'd)

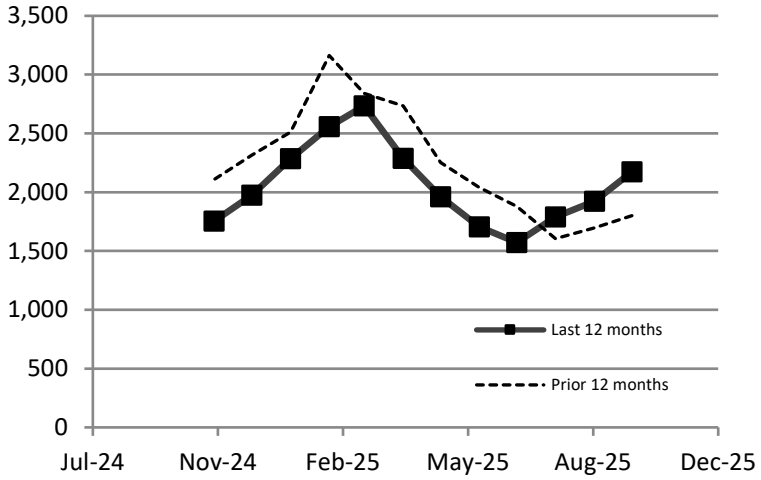
Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.25	10.84%	1.25
EBSD			0.08	0.68%	0.08
MNWD(1)	2.81	21.36%	2.85	24.69%	5.66
SCWD	1.77	13.43%	1.14	9.85%	2.90
ETWD			2.37	20.58%	2.37
IRWD(2)			3.85	33.36%	3.85
SMWD	6.15	46.67%			6.15
CSC	2.44	18.55%			2.44
Total	13.17	100.00%	11.53	100.00%	24.70
	or Acre-Feet per year equivalent				27,665

(1) C/O ETWD, SCWD & SMWD

(2) C/O ETWD

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

Oct-25	2,174
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	1,755
Total	24,722



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

October 2025

	IRWD LOS ALISOS WRP					EL TORO WRP			SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO	Rain
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	FLOW	Fall
DATE	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	inches
10/01/25	3.437	16.0	3.9	<0.1	1.972	12.6	5.0	0.1	2.180	4.8	4.0	<0.1	2.143	2.4	2.0	<0.1	0.000	0.409	0.137	10.278	0.00
10/02/25	3.344	18.0	5.1	<0.1	1.829	7.7	3.5	0.1	2.71	4.3	4.0	0.1	2.135	4.2	3.0	0.1	0.000	0.455	0.137	10.610	0.00
10/03/25	3.330	16.4	5.1	<0.1	1.587	12.0	4.1	0.1	2.060	4.1	4.0	<0.1	2.366	1.2	4.0	<0.1	0.000	0.000	0.140	9.483	0.00
10/04/25	3.363	16.0		<0.1	2.499	14.8	6.0	0.1	1.910	4.1	3.0		2.269	2.0	2.0		0.000	0.000	0.132	10.173	0.00
10/05/25	3.387	16.6	<2.4	<0.1	3.416	8.9	4.6	<0.1	2.160	4.6	4.0	<0.1	2.074	2.0	3.0	<0.1	0.000	0.000	0.117	11.154	0.00
10/06/25	3.390	14.8	3.6	<0.1	1.393	9.0		0.1	2.730	5.0	5.0	<0.1	2.231	2.4	3.0	<0.1	0.000	0.198	0.141	10.083	0.00
10/07/25	3.362	24.8	3.5	<0.1	1.684	11.8	6.0	0.1	1.900	4.8	6.0	<0.1	2.285	6.2	6.0	<0.1	0.000	0.223	0.130	9.584	0.00
10/08/25	3.331	13.2	3.0	<0.1	2.407	8.9	7.0	0.1	1.880	4.5	5.0	<0.1	2.530	9.1	3.0	<0.1	0.000	0.450	0.131	10.729	0.00
10/09/25	3.344	12.0	3.4	<0.1	1.883	12.2	4.0	0.1	2.620	4.2	3.0	<0.1	2.148	2.3	2.0	<0.1	0.000	0.379	0.140	10.514	0.00
10/10/25	3.339	<8.3	3.1	<0.1	1.575	14.0	4.2	0.1	2.040	4.6	3.0	<0.1	1.804	7.4	<3.0	<0.1	0.000	0.531	0.038	9.327	0.00
10/11/25	3.340	10.6		<0.1	2.345	12.2	6.0	0.2	2.250	4.4	3.0		2.177	8.6	3.0		0.000	0.529	0.128	10.769	0.00
10/12/25	3.349	10.0	<2.4	<0.1	3.248	8.8	4.3	<0.1	2.720	4.2	3.0	<0.1	2.458	8.6	3.0	<0.1	0.000	0.528	0.144	12.447	0.00
10/13/25	3.341	10.0	2.7	<0.1	3.260	7.2		0.1	2.740	4.8	5.0	<0.1	2.859	8.7	4.0	<0.1	0.000	0.519	0.061	12.780	0.00
10/14/25	3.776	20.4	6.8	0.2	4.347	12.4	4.2	0.1	3.830	3.8	3.0	<0.1	2.517	8.3	2.0	<0.1	0.000	0.525	0.204	15.199	0.84
10/15/25	4.242	26.4	9.0	<0.1	3.300	11.0	4.5	0.1	4.880	6.5	5.0	<0.1	2.824	5.7	3.0	<0.1	0.000	0.504	0.116	15.866	0.10
10/16/25	4.034	29.1	9.9	<0.1	2.040	14.0	5.0	0.1	3.980	3.7	3.0	<0.1	2.465	5.7	4.0	<0.1	0.000	0.493	0.148	13.160	0.00
10/17/25	2.639	13.6	6.7	<0.1	2.865	13.0	4.8	<0.1	4.050	5.1	5.0	<0.1	2.432	9.4	3.0	<0.1	0.000	0.528	0.135	12.649	0.00
10/18/25	1.975	9.5		<0.1	2.697	14.4	4.9	0.1	4.080	4.6	5.0		2.385	10.8	3.0		0.000	0.523	0.131	11.791	0.00
10/19/25	3.509	10.2	3.0	<0.1	2.989	8.2	3.9	<0.1	4.010	4.6	6.0	0.1	2.388	8.9	4.0	<0.1	0.000	0.521	0.112	13.529	0.00
10/20/25	3.435	11.5	3.6	<0.1	2.726	7.2		0.1	4.040	4.9	5.0	<0.1	2.438	6.8	2.0	<0.1	0.000	0.520	0.132	13.291	0.00
10/21/25	3.781	10.8	3.7	<0.1	1.969	10.0	3.7	<0.1	2.770	4.8	7.0	<0.1	2.791	10.3	3.0	<0.1	0.000	0.516	0.114	11.941	0.01
10/22/25	3.485	6.2	3.1	<0.1	2.559	10.1	4.0	<0.1	2.990	3.6	4.0	<0.1	2.230	5.8	2.0	<0.1	0.000	0.521	0.131	11.916	0.00
10/23/25	3.405	6.0		<0.1	1.851	8.2	3.0	<0.1	2.780	4.6	3.0	0.1	2.203	12.2	4.0	<0.1	0.000	0.520	0.147	10.906	0.00
10/24/25	3.404	8.7	3.0	<0.1	1.840	9.8	2.9	0.1	1.550	5.3	4.0	0.1	2.397	4.6	2.0	<0.1	0.000	0.518	0.133	9.842	0.00
10/25/25	3.402	7.0		<0.1	2.435	9.4	3.0	0.1	2.970	4.7	3.0		2.492	2.2	9.0		0.000	0.514	0.123	11.936	0.00
10/26/25	3.425	8.4	<2.4	<0.1	2.878	7.1	3.8	<0.1	3.460	3.6	5.7	<0.1	2.519	14.0	4.5	<0.1	0.000	0.512	0.114	12.908	0.00
10/27/25	3.423	8.9	<2.4	<0.1	2.375	7.0		<0.1	2.270	5.0	3.6	<0.1	2.664	13.3	4.8	<0.1	0.000	0.506	0.160	11.398	0.00
10/28/25	3.422	8.8	2.8	<0.1	1.980	10.4	3.4	<0.1	2.030	5.2	3.0	<0.1	1.944	15.1	4.0	<0.1	0.000	0.501	0.109	9.986	0.00
10/29/25	3.420	9.8	2.5	<0.1	2.538	3.6	2.0	<0.1	3.520	3.9	3.0	0.2	1.777	7.6	3.0	<0.1	0.000	0.505	0.121	11.881	0.01
10/30/25	3.422	9.5	2.9	<0.1	1.677	5.2	3.0	0.1	2.710	5.1	4.0	<0.1	2.174	2.1	2.0	<0.1	0.141	0.503	0.134	10.761	0.00
10/31/25	3.353	9.4	2.7	<0.1	1.381	11.4	4.0	0.1	2.440	4.6	3.5	0.2	2.312	11.0	5.8	0.1	0.446	0.491	0.117	10.540	0.00
AVG	3.394	12.9	4.0	<0.1	2.372	10.1	4.3	<0.1	2.847	4.6	4.1	<0.1	2.336	7.1	3.4	<0.1	0.019	0.434	0.128	11.530	
TOTAL	105.21				73.55				88.26				72.43				0.59	13.44	3.957	357.43	0.96

Unified Beach Monitoring #1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 8:59
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	10/06/25	8:40	<10	<10	2	None	None	None	None	Blue		Clear		
S4	10/06/25	8:28	<10	<10	2	None	None	None	None	Blue		Clear		
S5	10/06/25	9:08	<10	<10	150	None	None	None	None	Blue		Clear		
S6	10/06/25	9:34	10	<10	2	None	None	None	None	Blue		Clear		
WEST	10/06/25	9:33	10	<10	<2	None	None	None	None	Blue		Clear		
S7	10/06/25	9:43	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	10/06/25	9:06	10	<10	85	None	None	None	None	Blue		Clear		
S9	10/06/25	9:04	10	70	300	None	None	None	None	Blue		Clear		
ACM1	10/06/25	8:59	10	60	70	None	None	None	None	Blue		Clear	Flowing	
S10	10/06/25	8:46	<10	40	6	None	None	None	None	Blue		Clear		
S11	10/06/25	8:06	10	<10	20	None	None	None	None	Blue	65	Clear		
S12	10/06/25	7:58	<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.

Unified Beach Monitoring #2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 12:13
Weather: Clear
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	10/15/25	11:39	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S4	10/15/25	11:20	10	20	6	None	None	None	None	Green		Slightly Turbid		
S5	10/15/25	11:13	<10	<10	10	None	None	None	None	Green	63	Slightly Turbid		
S6	10/15/25	10:07	110	40	10	None	None	None	None	Green		Slightly Turbid		
WEST	10/15/25	10:13	110	<10	28	None	None	None	None	Green		Slightly Turbid		
S7	10/15/25	10:20	700	200	52	None	None	None	None	Green		Slightly Turbid		
S8	10/15/25	9:54	1000	230	270	None	None	None	None	Green		Slightly Turbid		
S9	10/15/25	9:51	1600	700	390	None	None	None	None	Green		Slightly Turbid		
ACM1	10/15/25	9:45	>8000	>6000	>6000	None	None	None	None	Brown		Slightly Turbid	Flowing	
S10	10/15/25	10:45	60	60	28	None	None	None	None	Green		Slightly Turbid		
S11	10/15/25	10:40	60	40	20	None	None	None	None	Green		Slightly Turbid		
S12	10/15/25	10:33	<10	<10	2	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 100m

Unified Beach Monitoring #3

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 10:01
Weather: Partly Cloudy
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	10/23/25	8:45	<10	<10	2	None	None	None	None	Green		Clear		
S4	10/23/25	11:00	<10	<10	<2	None	None	None	None	Green		Clear		
S5	10/23/25	10:25	10	<10	<2	None	None	None	None	Green	64	Clear		
S6	10/23/25	10:35	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	10/23/25	10:30	10	<10	<2	None	None	None	None	Green		Clear		
S7	10/23/25	10:25	10	<10	<2	None	None	None	None	Green		Clear		
S8	10/23/25	10:15	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	10/23/25	9:55	<10	10	10	None	None	None	None	Green		Clear		
ACM1	10/23/25	10:00	<10	<10	<2	None	None	None	None	Green		Clear		
S10	10/23/25	10:02	10	<10	6	None	None	None	None	Green		Clear		
S11	10/23/25	9:40	<10	20	<2	None	None	None	None	Green		Clear		
S12	10/23/25	9:30	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 #4

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

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

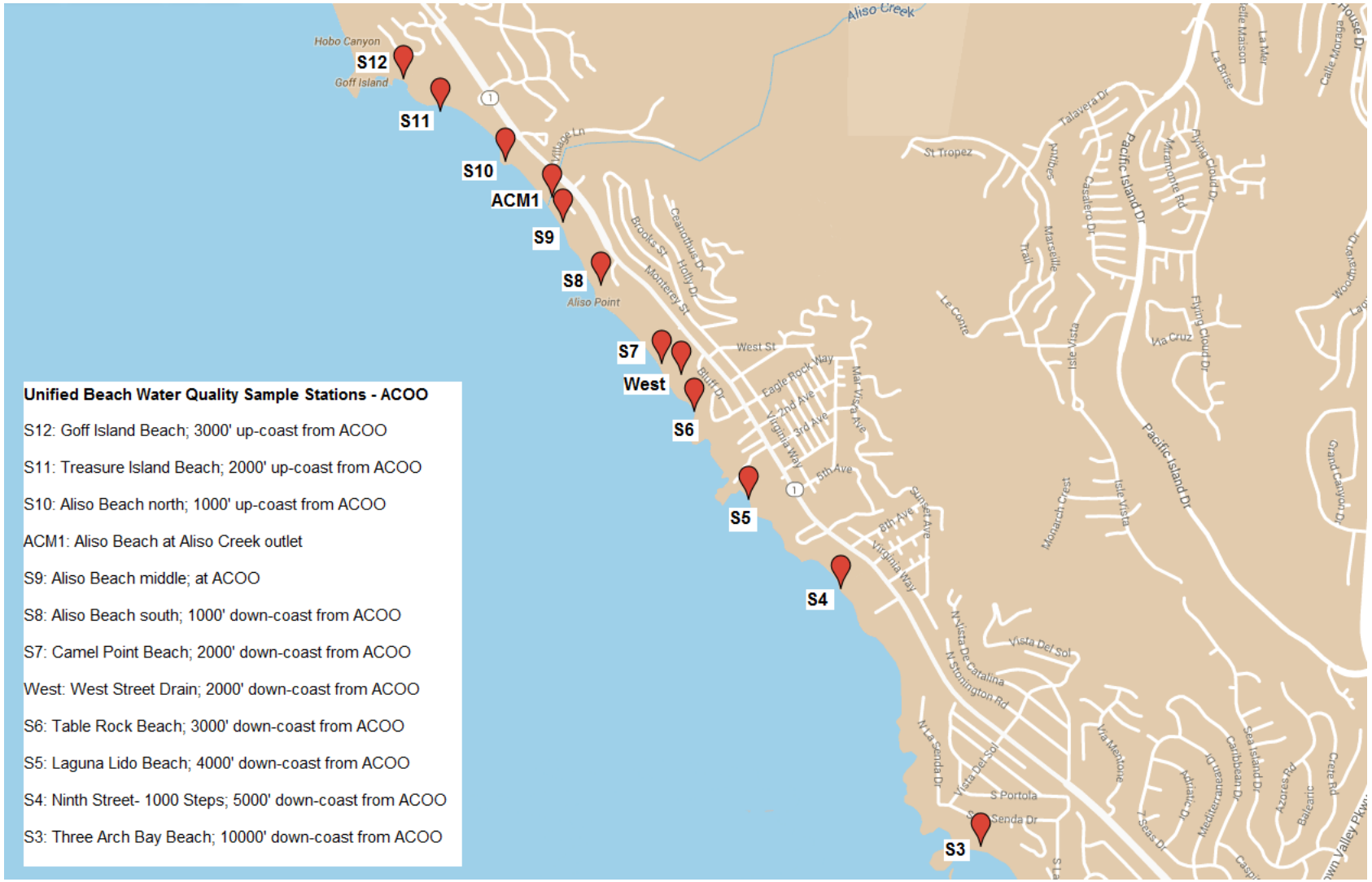
REPORT FREQUENCY: Monthly
EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
SAMPLES COLLECTED BY: SOCWA Lab
SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 12:03
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	10/27/25	7:49	<10	<10	<2	None	None	None	None	Blue	62	Clear		
S4	10/27/25	9:45	100	<10	<2	None	None	None	None	Blue		Clear		
S5	10/27/25	9:31	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	10/27/25	9:15	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	10/27/25	9:14	<10	<10	<2	None	None	None	None	Blue		Clear		
S7	10/27/25	9:06	10	<10	<2	None	None	None	None	Blue		Clear		
S8	10/27/25	8:50	<10	10	8	None	None	None	None	Blue		Clear		
S9	10/27/25	8:53	20	10	6	None	None	None	None	Blue		Clear		
ACM1	10/27/25	8:56	10	<10	4	None	None	None	None	Blue		Clear		
S10	10/27/25	8:29	<10	100	8	None	None	None	None	Blue		Clear		
S11	10/27/25	8:27	<10	<10	2	None	None	None	None	Blue		Clear		
S12	10/27/25	8:21	<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.

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: October 2025
Report Due: December 1, 2025
Sample Source: Receiving water, nearshore and offshore
Exact Sample Points: As specified in permit
Samples Collected By: Seaventures/SOCWA staff
Samples Analyzed By: SOCWA Lab

Report Frequency: Monthly

Sampling Frequency: Monthly
Type of Sample: Grab
Tide: High Tide 07:34
Comments: Wind NW, Current NW, no nearby

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	10/17/25	6	2	<2	07:55	0	0
A-1	Mid depth	10/17/25	<10	<10	<10			
A-2	Surface	10/17/25	10	4	<2	07:52	0	0
A-2	Mid depth	10/17/25	<10	<10	<10			
A-3	Surface	10/17/25	8	8	<2	08:04	0	0
A-3	Mid depth	10/17/25	<10	<10	<10			
A-4	Surface	10/17/25	10	4	<2	08:08	0	0
A-4	Mid depth	10/17/25	<10	<10	<10			
A-5	Surface	10/17/25	20	6	2	08:00	0	0
A-5	Mid depth	10/17/25	<10	<10	<10			
B-1	Surface	10/17/25	<2	2	<2	07:43	0	0
B-1	Mid depth	10/17/25	<10	<10	<10			
B-2	Surface	10/17/25	10	6	<2	08:17	0	0
B-2	Mid depth	10/17/25	<10	<10	<10			
N1	Surface	10/17/25	<2	<2	<2	08:38	0	0
N2	Surface	10/17/25	2	2	<2	08:36	0	0
N3	Surface	10/17/25	4	<2	2	08:34	0	0
N4	Surface	10/17/25	4	<2	<2	08:32	0	0
N5	Surface	10/17/25	2	<2	<2	08:29	0	0
N6	Surface	10/17/25	4	<2	<2	08:27	0	0
N7	Surface	10/17/25	4	4	2	08:24	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 undesireable 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 October 2025

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
LAWRP-SGU Brine	10/1/2025 & 10/2/25	TSS, pH	Deficient monitoring	mg/L, s.u.	Daily (5 days/week)	N/A	$3,000
LAWRP-SGU Brine	10/4/2025	Turbidity, TDS, SS	Deficient monitoring	NTU, mg/L, ml/L	Weekly	N/A	$3,000
SCWD-ACWRF	10/18/2025	TDS	Deficient monitoring	mg/L	Weekly	N/A	$3,000

SOCWA and MEMBER AGENCY FACILITIES ACOO
Spill / Overflow Report Log - October 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

October 2025

	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain Fall
DATE	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	inches
10/01/25	8.330	6.6	5.0	<0.1	2.190	14.0	14.0	0.9	0.021	2.2	4.1	<0.1	1.375	<5.0	4.5	<0.1	0.500	0.172	11.790	0.00
10/02/25	8.120	6.4	5.0	0.1	2.330	58.6	30.0	21.0	0.000				1.651	5.0	4.3	<0.1	0.520	0.176	12.630	0.00
10/03/25	7.710	4.6	3.3	<0.1	2.580	77.8	43.0	10.0	0.000				1.592	5.0	3.2	<0.1	0.530	0.173	12.630	0.00
10/04/25	8.280	4.1	4.3		2.500				0.000				1.610				0.530	0.176	12.910	0.00
10/05/25	8.180	7.7	6.7	<0.1	2.500	8.2	10.0		0.021	0.8	3.6	<0.1	1.708				0.520	0.175	13.040	0.00
10/06/25	8.350	9.0	5.7	<0.1	2.420	6.8	10.0	0.7	0.001	1.8	3.2	<0.1	1.518	5.0	5.3	<0.1	0.520	0.172	13.490	0.00
10/07/25	8.590	5.6	6.1	<0.1	2.550	8.5	9.0	0.1	0.000				1.396	<5.0	5.6	<0.1	0.530	0.176	13.600	0.00
10/08/25	8.120	4.3	6.0	<0.1	2.360	6.4	6.0	<0.1	0.048	1.6	2.4	0.2	1.382	7.0	6.5	<0.1	0.530	0.175	12.620	0.00
10/09/25	8.140	6.8	6.7	<0.1	2.260	8.5	9.0	0.1	0.000				1.391	5.0	4.2	<0.1	0.450	0.172	12.670	0.00
10/10/25	7.810	6.7	9.0	<0.1	2.560	8.8	10.0	<0.1	0.000				1.357	5.0	2.8	<0.1	0.530	0.175	12.790	0.00
10/11/25	8.230	8.6	8.3		2.520				0.000				1.419				0.530	0.172	12.790	0.00
10/12/25	8.420	10.2	8.7	<0.1	2.240	7.9	8.0		0.000				1.462				0.530	0.172	12.700	0.00
10/13/25	8.520	8.0	9.3	<0.1	2.380	10.6	7.0	0.2	0.001	1.7	2.0	<0.1	1.379	5.0	3.7	<0.1	0.530	0.157	13.000	0.00
10/14/25	8.330	7.2	6.7	<0.1	2.000	8.0	5.0	<0.1	0.004	1.3	2.1	<0.1	1.571	5.0	4.0	<0.1	0.530	0.177	12.400	0.84
10/15/25	8.970	6.5	6.0	<0.1	2.470	7.9	5.0	<0.1	0.032	1.1	1.7	0.1	1.432	8.0	4.4	<0.1	0.310	0.175	13.650	0.10
10/16/25	8.340	6.4	5.3	<0.1	3.060	6.6	5.0	<1.0	0.000				1.209	6.0	4.1	<0.1	0.230	0.173	12.560	0.00
10/17/25	8.320	5.8	7.3	<0.1	2.620	4.5	5.0	<0.1	0.000				1.359	5.0	4.1	<0.1	0.530	0.177	12.560	0.00
10/18/25	8.250	8.0	8.3		2.500				0.000				1.398				0.530	0.177	12.620	0.00
10/19/25	8.340	7.7	10.3	<0.1	0.730	4.6	5.0		0.001	1.0	4.4	<0.1	1.410				0.530	0.173	12.670	0.00
10/20/25	8.500			<0.1	3.460	6.0	5.0	<0.1	0.000				1.387	5.0	5.6	<0.1	0.530	0.177	13.030	0.00
10/21/25	8.310	7.1	4.7	<0.1	2.200	6.5	6.0	<0.1	0.000				1.336	<5.0	4.7	<0.1	0.520	0.176	12.580	0.01
10/22/25	8.330	5.9	5.7	<0.1	2.690	4.7	3.0	<0.1	0.009	1.6	2.2	<0.1	1.367	5.0	3.7	<0.1	0.510	0.173	12.940	0.00
10/23/25	8.260	5.5	6.3	<0.1	2.420	4.4	4.0	<0.1	0.019	1.7	3.1	0.2	1.336	5.0	3.7	<0.1	0.510	0.178	12.840	0.00
10/24/25	8.360	6.3	5.3	0.1	2.780	4.4	6.0	<0.1	0.000				1.364	7.0	5.8	<0.1	0.520	0.176	12.910	0.00
10/25/25	8.300	6.7	5.7		2.520				0.000				1.370				0.650	0.177	12.910	0.00
10/26/25	8.470	7.0	7.9	<0.1	2.140	5.3	5.0		0.008	0.9	4.8	<0.1	1.388				0.780	0.171	12.830	0.00
10/27/25	8.590	8.1	8.7	<0.1	2.840	5.0	6.0	<0.1	0.014	4.2	3.3	0.1	1.345	5.0	4.4	<0.1	0.780	0.177	13.290	0.00
10/28/25	8.380	7.4	5.7	<0.1	2.560	7.2	6.0	<0.1	0.000				1.326	5.0	5.2	<0.1	0.770	0.173	13.470	0.00
10/29/25	7.910	9.0	6.9	0.1	2.530	5.5	4.0	<0.1	0.003	2.2	2.7	0.1	1.329	<5.0	3.5	<0.1	0.740	0.176	12.440	0.01
10/30/25	8.200	8.4	9.1	<0.1	2.540	5.0	5.0	<0.1	0.000				1.332	<5.0	4.7	<0.1	0.710	0.176	12.860	0.00
10/31/25	8.510	8.4	6.5	<0.1	2.280	6.0	6.0	<0.1	0.000				1.299	<5.0	5.1	<0.1	0.360	0.172	12.860	0.00
AVG	8.305	7.0	6.7	<0.1	2.443	11.4	8.8	<1.5	0.006	1.7	3.0	<0.1	1.413	5.3	4.5	<0.1	0.542	0.174	12.841	
TOTAL	257.470				75.730				0.182				43.798				16.790	5.397	398.080	0.96

Unified Beach Monitoring #1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 07:17
Weather: Clear
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	10/01/25	09:40	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S1	10/01/25	09:15	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S2	10/01/25	09:50	<20	<20	2	None	None	None	None	Green	65	Slightly Turbid		
DSB5	10/01/25	10:05	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S3	10/01/25	09:10	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	10/01/25	09:05	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	10/01/25	08:55	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	10/01/25	08:45	<20	<20	8	None	None	None	None	Green		Slightly Turbid		
SJC1	10/01/25	09:35	100	<10	<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.

Unified Beach Monitoring #2

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 1041
Weather:
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	10/09/25	09:00	60	60	100	None	None	None	None	Green	64	Turbid		
S1	10/09/25	09:08	<20	20	<2	None	None	None	None	Green		Turbid		
S2	10/09/25	08:50	<20	<20	6	None	None	None	None	Green		Turbid		
DSB5	10/09/25	08:40	20	40	10	None	None	None	None	Green		Turbid		
S3	10/09/25	09:10	<20	<20	2	None	None	None	None	Green		Turbid		
DSB4	10/09/25	09:11	40	<20	4	None	None	None	None	Green		Turbid		
S5	10/09/25	09:20	<20	<20	10	None	None	None	None	Green		Turbid		
DSB1	10/09/25	09:25	<20	<20	<2	None	None	None	None	Green		Turbid		
SJC1	10/09/25	09:01	100	80	100	None	None	None	None	Green		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 #3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 8:38
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	10/13/25	8:54	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S1	10/13/25	8:50	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	10/13/25	8:32	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	10/13/25	8:26	<20	<20	24	None	None	None	None	Green		Slightly Turbid		
S3	10/13/25	9:10	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	10/13/25	9:13	20	<20	4	None	None	None	None	Green		Slightly Turbid		
S5	10/13/25	9:27	20	<20	<2	None	None	None	None	Green	63	Slightly Turbid		
DSB1	10/13/25	9:30	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
SJC1	10/13/25	8:49	<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.

Unified Beach Monitoring #4

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 8:35
Weather: Clear
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	10/19/25	9:54	>=400	100	240	None	None	None	None	Green		Slightly Turbid		
S1	10/19/25	9:50	200	100	52	None	None	None	None	Green		Slightly Turbid		
S2	10/19/25	9:32	80	20	20	None	None	None	None	Green		Slightly Turbid		
DSB5	10/19/25	9:27	240	80	30	None	None	None	None	Green		Slightly Turbid	Flowing	
S3	10/19/25	10:04	40	20	2	None	None	None	None	Green		Slightly Turbid		
DSB4	10/19/25	10:07	<20	20	20	None	None	None	None	Green		Slightly Turbid		
S5	10/19/25	10:11	<20	20	8	None	None	None	None	Green	64	Slightly Turbid		
DSB1	10/19/25	10:15	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	10/19/25	9:46	>=4000	5700	130	None	None	None	None	Green		Slightly Turbid	Flowing	

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 #5

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: October 2025
REPORT DUE: December 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 11:20
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	10/26/25	9:14	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S1	10/26/25	9:10	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
S2	10/26/25	8:47	<20	40	10	None	None	None	None	Green		Slightly Turbid		
DSB5	10/26/25	8:41	80	60	120	None	None	None	None	Green		Slightly Turbid		
S3	10/26/25	9:27	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
DSB4	10/26/25	9:30	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
S5	10/26/25	9:45	<20	<20	2	None	None	None	None	Green	63	Slightly Turbid		
DSB1	10/26/25	9:42	20	20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	10/26/25	9:05	40	40	10	None	None	None	None	Green		Slightly Turbid	Flowing	

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 Stations - SJCOO

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

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 Outfal

Report For: October 2025 Report Frequency: Monthly

Report Due: December 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 07:34

Samples Analyzed By: SOCWA Lab Comments:

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	10/17/25	<2	<2	<2	09:42	0	0
A-1	Mid depth	10/17/25	<10	<10	<10			
A-2	Surface	10/17/25	2	<2	<2	09:38	0	0
A-2	Mid depth	10/17/25	<10	<10	<10			
A-3	Surface	10/17/25	<2	<2	<2	09:52	0	0
A-3	Mid depth	10/17/25	<10	<10	<10			
A-4	Surface	10/17/25	<2	<2	<2	09:57	0	0
A-4	Mid depth	10/17/25	<10	<10	<10			
A-5	Surface	10/17/25	<2	<2	<2	09:48	0	0
A-5	Mid depth	10/17/25	<10	<10	<10			
B-1	Surface	10/17/25	<2	<2	<2	09:30	0	0
B-1	Mid depth	10/17/25	<10	<10	<10			
B-2	Surface	10/17/25	2	4	<2	10:05	0	0
B-2	Mid depth	10/17/25	10	10	<10			
N1	Surface	10/17/25	2	2	<2	09:23	0	0
N2	Surface	10/17/25	4	<2	<2	09:19	0	0
N3	Surface	10/17/25	10	10	10	09:16	0	0
N4	Surface	10/17/25	>=46	24	24	09:11	0	0
N5	Surface	10/17/25	10	4	6	09:08	0	0
N6	Surface	10/17/25	4	4	8	09:05	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 undesireable 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 October 2025

SJCOO Permit Order No. R9-2025-0001							
Agency	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
City of San Clemente	10/2/2025	Settleable Solids	Instantanous Maximum	mL/L	3	21	$3,000
City of San Clemente	10/3/2025	Settleable Solids	Instantanous Maximum	mL/L	3	10	$3,000
City of San Clemente	10/4/2025	Settleable Solids	Average Weekly	mL/L	1.5	6.5	$3,000
City of San Clemente	10/31/2025	Settleable Solids	Average Monthly	mL/L	1.0	1.4	$3,000
SOCWA-SJCOO	10/1/2025 - 10/9/2025	Continuous Conductivity, TDS & Salinity	Deficient Monitoring	mg/L	Continuous	N/A	$3,000

SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - October 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	7/16/2025	TDS	12 month	mg/L	1000	1041	
MNWD - RTP	9/1/2025	Manganese	12-Month	mg/L	0.05	0.12	
MNWD - RTP	9/1/2025	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	
MNWD - RTP	10/6/2025	Manganese	12-Month	mg/L	0.05	0.13	
MNWD - RTP	10/6/2025	Manganese	Daily Maximum	mg/L	0.06	0.14	
SOCWA - CTP	10/7/2025	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - CTP	10/7/2025	Manganese	Daily Maximum	mg/L	0.06	0.09	
MNWD - 3A	9/26/2025	Manganese	12 month	mg/L	0.05	0.10	Offline
MNWD - 3A	9/26/2025	Manganese	Daily Maximum	mg/L	0.06	0.08	Offline

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Oct 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	837		902	938	898	882	714
Chloride	mg/L	375	225		242	280	228	192	153
Sulfate	mg/L	400	279		226	204	355	177	193
Sodium	mg/L	None	60		178	206		205	155
Alkalinity	mg/L	None	-	-	-	-		241	178
Adjusted SAR	Ratio	None	5.42		5.49	5.82	4.57	4.45	4.25
Iron	mg/L	0.3	0.051		0.136	0.136	0.20	0.280	0.152
Manganese	mg/L	0.05	0.003		0.042	0.015	0.10	0.126	0.075
MBAS	mg/L	0.5	<0.50		0.19	0.23	<0.05	<0.12	<0.09
Boron	mg/L	0.67	0.258		0.256	0.436	0.27	0.317	0.27
Fluoride	mg/L	None	0.78		0.55	0.59	0.75	0.76	0.54
Total Organic Carbon	mg/L	None	6.1		12.8	11.9	11.9	12.2	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	39.77			223.06
CSJC 3	Non-Domestic Well	30.43	14.44	18.76	33.64	50.52	59.51	66.21	66.45	48.90	15.11			403.97
ETWD	Region 8	76.42	28.25	39.53	113.74	154.52	200.91	258.40	242.44	185.71	97.63			1,397.56
IRWD														
4	IRWD - 8	135.30	38.33	37.59	135.62	178.24	203.03	280.41	221.64	258.15	201.25			1,689.57
4	IRWD - 9	53.53	18.46	20.85	64.04	70.76	80.72	114.75	113.14	99.92	67.95			704.12
SCWD	SOCWA CTP	54.89	19.84	35.36	62.63	70.54	68.33	101.59	99.61	82.06	46.70			680.97
MNWD 6	JRP	449.87	260.06	73.93	223.63	378.52	439.96	531.16	583.83	465.24	395.76			2,940.95
	3-A Plant	0.00	0.00	145.44	144.28	126.07	117.61	23.67	152.77	147.78	0.00			857.62
5	CTP	5.27	-1.23	9.09	22.13	19.90	4.28	13.67	14.69	14.07	0.00			101.87
SMWD	Oso Creek													
	Chiquita	362.93	426.67	506.31	471.75	495.66	472.46	515.08	511.77	491.21	504.13			4,757.94
	Nichols	1.73	1.49	1.74	1.63	1.91	1.97	2.18	2.49	2.49	2.16			19.79
TCWD	RRWRP	37.50	35.59	41.56	39.15	39.67	38.45	24.77	37.70	38.01	37.98			370.37
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	1,012.68			14,147.80

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
6 Denotes transfer of recycled water from MNWD to SCWD 34.52 ac-ft for Oct '25

Pretreatment Report

Agenda Item

Legal Counsel Review: No

Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report – November 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. Based on sampling data, the permit was modified on November 13, 2025, to restrict flow limits and optimize pretreatment. Discharge from the site began on November 18, 2025, and is limited to 30 gpm for up to 12 hours per day, with the project scheduled to conclude on December 9, 2025.

SMWD – Applied Medical – WD Permit #SMWD-1-008-03-28 – Based on inspection findings, on November 18, 2025, the permit for one of Applied Medical's plastic molding and forming sites was modified to correctly reference 40 CFR Part 463 Part A (not Part B), remove reference to sampling location 002 and all associated monitoring requirements, and reduce the reporting requirements related to monitoring at sampling location 001. See below for detail regarding the inspection findings.

Training and Meetings

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

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

On December 9-10, 2025, staff attended the annual virtual NACWA Pretreatment Workshop, followed by the NACWA Pretreatment Committee meeting on December 11, 2025.

Inspections

SOCWA staff is finishing 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.

MNWD – Staff is actively investigating elevated sewer flows within the Crown Valley/I-5 wastewater shed. The inspection of Triumshire Century Center has been completed, and all unauthorized groundwater pumping to the sewer has ceased. Staff will next inspect additional locations within the sewer shed—beginning with the Shops at Mission Viejo—to identify any remaining illicit discharges.

IRWD – On November 4, 2025, SOCWA staff and IRWD staff jointly performed the annual inspection and sampling event of Dynacast. The inspection yielded no findings, and all sampling results were in full compliance with permit limits.

SMWD – On November 6, 2025, Staff performed an annual inspection of Applied Medical's Plastic Molding and Forming facility (R110), located at 22432 Empresa and permitted under WD Permit #SMWD-1-008. Inspection findings confirmed that all plastic extrusion lines have been moved off-site to building L203 in Lake Forest and that only the tubing expansion process remains in place with limited use and discharge to the sewer. Staff amended the WD Permit – see above for detail regarding the permit modification.

CSC – On November 19, 2025, Staff inspected the Glaukos facility located at 229 Avenida Fabricante as well as the new Glaukos facility located at 236 Avenida Fabricante in the CSC. The inspections yielded no findings and both sites are compliant with all permit requirements.

MNWD - On November 19, 2025, Staff inspected the Glaukos facilities located at 1 & 2 Glaukos Way in Aliso Viejo. The inspections yielded no findings, and all facilities remain compliant with all permit requirements.

Enforcement

SMWD –<u>Applied Medical Rubber Manufacturing, Building R103 (WD Permit #SMWD-1-003)</u> – On November 18, 2025, SOCWA issued a notice of non-compliance (NON) to Applied Medical for exceeding the permit limit for zinc at sample location 002. As required, 24-hour notification was given. The system was cleaned, and re-sampling was performed, and compliant results were provided to SOCWA within 30 days, as required. SOCWA considers this enforcement action resolved.

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

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	2	2	5	8	110	15	0	0	143
CSC (S)	22	10	35	18	191	1263	38	0	2	1555
CSJC (S)	32	0	27	58	141	1703	30	7	0	1959
ETWD (M)	22	0	88	0	261	144	50	5	0	499
EBSD (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)	38	4	120	38	661	2145	152	10	2	3120
SMWD (S)	59	9	19	19	222	857	52	15	4	1178
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	176	45	387	166	1702	7356	372	38	10	**9982**

(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.H.

Board of Directors Meeting

Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Grant, Capital Improvement Program Manager

SUBJECT: Capital Improvement Construction Projects Progress and Change Order Report (November*)* [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 activities for the Motor Control Center (MCC) and Plant 1 Generator are currently underway. Construction is anticipated to be completed by December 2026, contingent upon the issuance of the AQMD permit to construct for the generator.

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. Construction is anticipated to be completed by July 2026.

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. Construction is anticipated to be completed by March 2026.

J.B. Latham Old Effluent Pump Station Staging and Repurposing
Demolition of the Old Effluent Pump Station and Repurpose into staging and storage area.

The bids are currently under review. Construction is anticipated to be completed by March 2026.

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. Construction is anticipated to be completed by December 2025.

CTP West Primary and Secondary Scum Skimming System
Replacement of the west primary and secondary scum skimmers, launders and weirs

The bids are currently under review. Construction is anticipated to be completed by July 2026.

Coastal Treatment Plant Personnel Building Reconstruction
Improvements to Personnel Building including lockers, fixtures, ceilings, tiles and minor electrical items.

The bids are currently under review. Construction is anticipated to be completed by July 2026.

Coastal Treatment Plant Grit Tank Coating System Upgrades
Removal of the existing coating system and apply new coating system at the grit tanks.

Construction is in progress. Construction is anticipated to be completed by December 2025.

Recommended Action: Information only.

SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2025/2026 Jul - Sep	FY 2025/2026 Oct - Dec	FY 2025/2026 Jan - Mar	FY 2025/2026 Apr - Jun	FY 2026/2027 Jul - Sep	FY 2026/2027 Oct - Dec	FY 2026/2027 Jan - Mar	FY 2026/2027 Apr - Jun
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

				FY 2025/2026				FY 2026/2027			
Project Number	**Project Name**	**Project Budget**	**Status**	**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 Launders/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											
54221O	Outfall inspection, port cleaning and repairs	$ 400,000	FY26/27					P	D	D	B&A
34222O	Golf Course Road	$ 45,000		D	D	B&A	C	C			

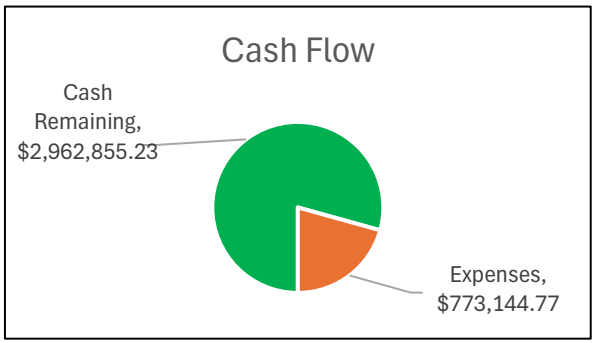
P	Planning
CA	Condition Assessment
ENV	Environmental/Permitting
D	Design
B&A	Bidding and Award
C	Construction

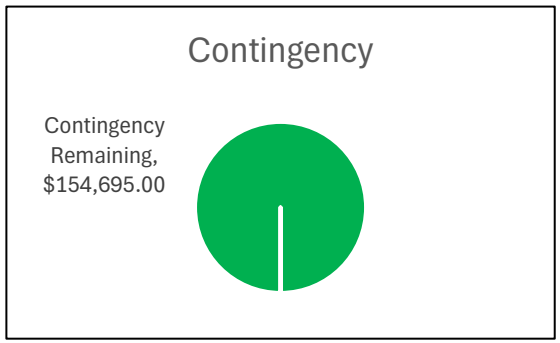
Project Financial Status

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 seimsic retrofit in the Energy Building

Data Last Updated

November 6, 2025





Cash Flow

Collected	$ 3,736,000.00
Expenses	$ 773,144.77

Project Completion

Schedule	20%
Budget	20.69%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Pacific Hydrotech	21280	$ 3,093,900.00			$ 3,093,900.00	$ 720,386.41
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**	**$ 773,144.77**

Construction Contingency

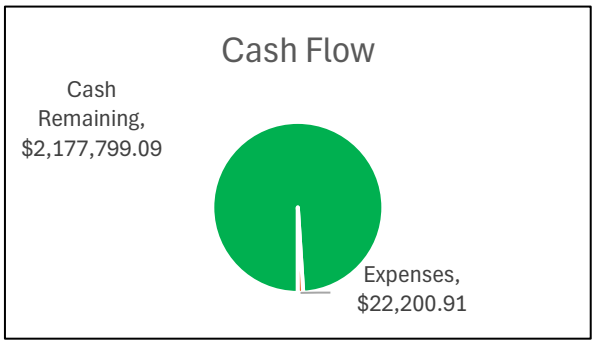
Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids/Solids/Common	32226L/32225S/3216	$ 154,695.00		$ 154,695.00	0.0%
		$ 154,695.00	**$ -**	**$ 154,695.00**	**0.0%**

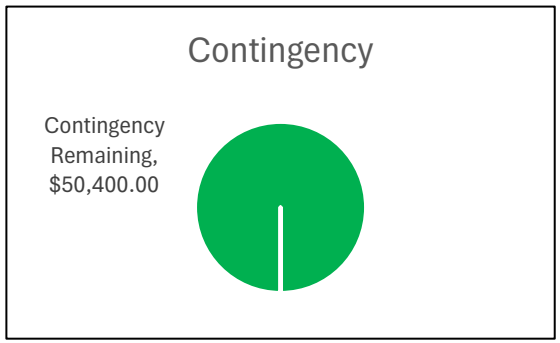
Project Financial Status

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

November 6, 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

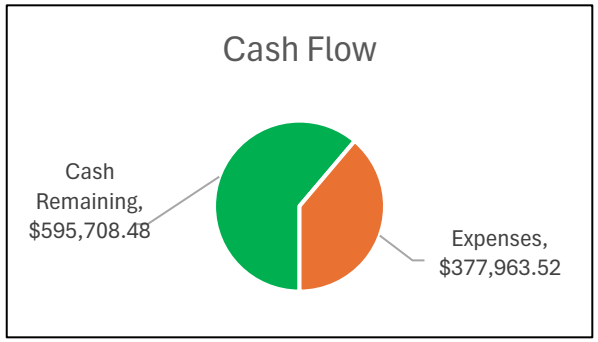
Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	32243L	$ 50,400.00		$ 50,400.00	0.0%
		$ 50,400.00	**$ -**	**$ 50,400.00**	**0.0%**

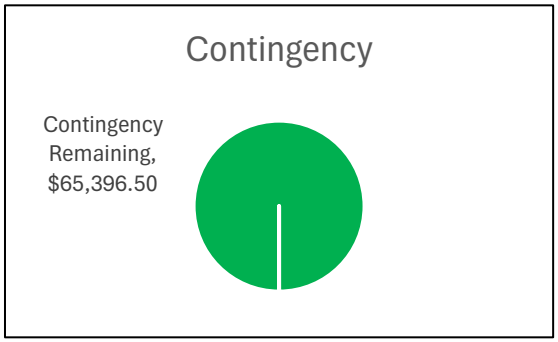
Project Financial Status

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

Data Last Updated

November 6, 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

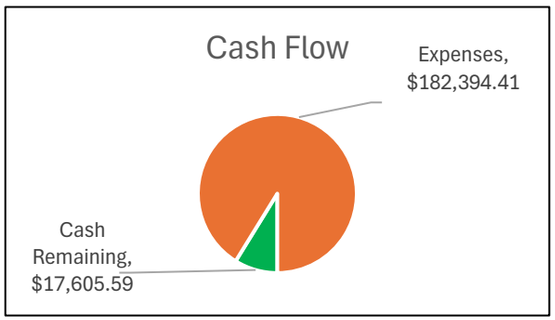
Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3252	$ 65,396.50		$ 65,396.50	0.0%
		$ 65,396.50	**$ -**	**$ 65,396.50**	**0.0%**

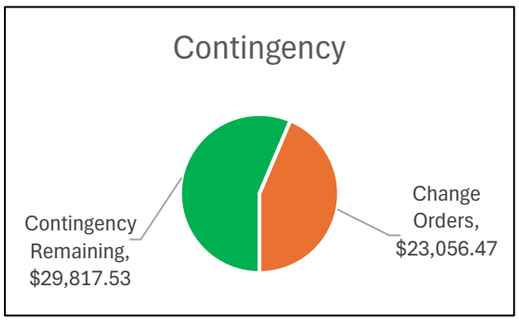
Project Financial Status

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

November 6, 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%**

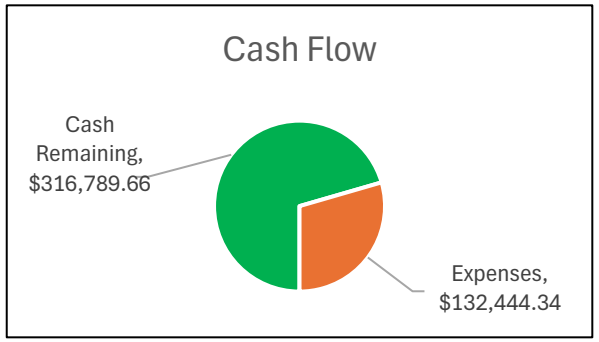
Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
1	SS Mechanical	35245L	316L SST angle in lieu of 304L SST angle at the Step-Feed Channel	1/8/2025	94	$ 2,235.25
2	SS Mechanical	35245L	Change Secondary effluent grating from 1-inch to 1.5"	1/31/2025	89	$ 8,639.53
3	SS Mechanical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

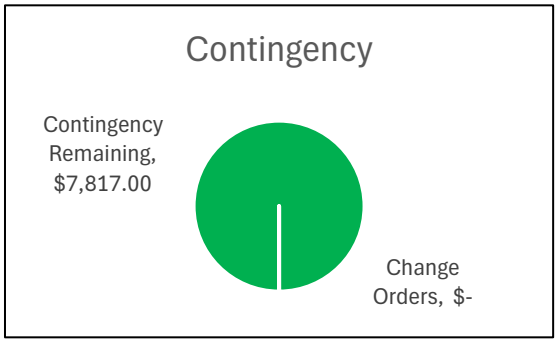
Project Financial Status

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

Data Last Updated

November 6, 2025





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%**

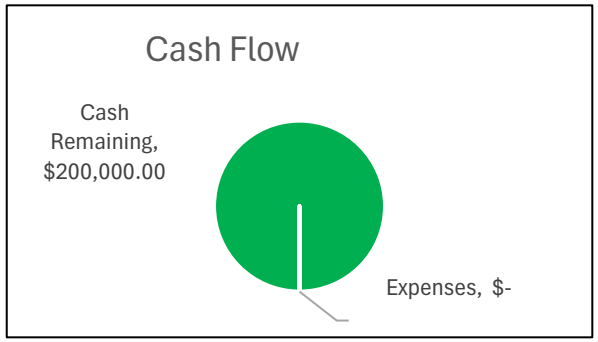
Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
						$ -

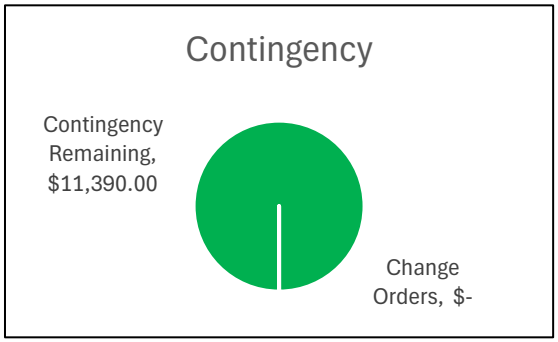
Project Financial Status

Project Committee	15
Project Name	Grit Tanks Coating Upgrades (35242L)
Project Description	Coating of grit tanks

Data Last Updated

November 6, 2025





Cash Flow

Collected	$	200,000.00
Expenses	$	-

Project Completion

Schedule	50%
Budget	0%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Murphy Coating	21425	$ 113,894.00			$ 113,894.00	
SOCWA Staff Time	35228L					
		$ 113,894.00	**$ -**	**$ -**	**$ 113,894.00**	**$ -**

Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	35242L	$ 11,390.00		$ 11,390.00	0.0%
		$ 11,390.00	**$ -**	**$ 11,390.00**	**0.0%**

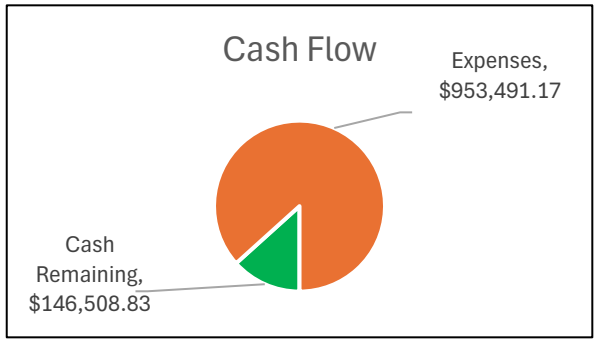
Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount

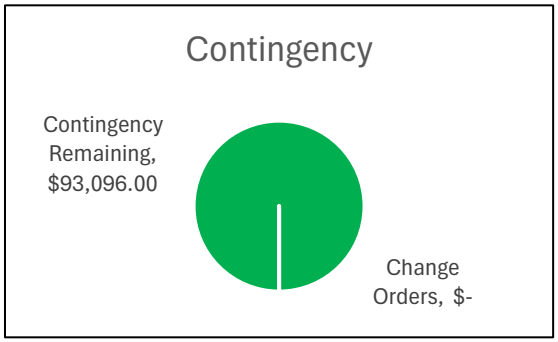
Project Financial Status

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

November 6, 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: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Grant, Capital Improvement Program Manager

SUBJECT: JBL Facility Planning Assessment Contract Award [Project Committee 2]

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 2 members on Jun 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 17th for additional comments and feedback. In August, SOCWA received directions to break the master planning effort into Phase 1 – Facility Planning Assessement, and Phase 2 – Master Planning.

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 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 8th, 2025. Interviews with Carollo and HDR were conducted on October 22nd, 2025 at the SCWD Dana Hills Tennis Center. The proposals and fee proposals from Carollo and HDR are attached for reference.

Staff met with the evaluation committee on November 5, 2025 with a recommendation to award the contract to HDR, with an added scope element to include results from the CTP regional flow study. In addition, staff provided an update at the November 6, 2025 Board of Directors meeting.

A summary of the proposals are in Table 1.

Table 1 – Summary of Proposals

Firm	**Carollo**	**HDR**
Project Manager	Jeff Weishaar	Amy Omae
Total Project Fee (Base Scope)	$644,720.00	$545,325.00
Total Project Fee (Base + Optional)	$697,982.00	$545,325.00
Total Labor Hours (Base Scope)	2,305	2,252
Total Labor Cost (Base Scope)	$595,925.00	$548,781.00
Direct Costs / ODCs (Base Scope)	$48,783.00	$3,456.00
Average Cost per Labor Hour (Base Scope)	$259.00	$244.00

A summary of the panel evaluation average scores are in Table 2.

Evaluation Category	Carollo	HDR
Understanding of the Work (25%)	20	23
Approach to the Project (30%)	25	28
Experience and Technical Competence (25%)	20	22
Completeness of Proposal (20%)	20	19
Total Scores (100 max)	85	92

The evaluation committee recommends HDR due to the following:

- Proven Project Management and Delivery Framework - HDR's approach to project management is robust and well-structured.
- Balanced Technical Expertise - HDR's team composition reflects a thoughtful balance of senior leadership, technical specialists, and support staff.
- Focused Scope with Clear Deliverables - HDR's scope is tightly aligned with SOCWA's needs.
- Efficient Use of Resources - HDR's proposal demonstrates strategic allocation of effort.

A summary of the cost allocation by member agecy are in Table 3.

Table 3 –Cost Allocation by Member Agency

Agency	PC 2 Common (L)	PC 2 Common (S)	Total
South Coast Water District	$141,566.37	$113,482.13	$255,048.50
Santa Margarita Water District	$131,096.13	$159,180.37	$290,276.50
Total	$272,662.50	$272,662.50	$545,325.00

Budget

The JBL FPA initiative will be funded through PC 2 non-capital engineering. Staff further recommends including a 10% contingency of $54,533 to accommodate the additional scope item, as well as an additional 10% contingency of $54,533 to address any unforeseen issues during the planning phase. This results in a total project contingency of $109,066, bringing the overall project authorization to $654,391.

Prior Related Project Committee or Board Action(s)

This item was reviewed and discussed by the Engineering Committee on November 13, 2025.

Recommended Action: The Engineering Committee recommend that the PC 2 Board of Directors:

1. Authorize execution of a contract with HDR in the amount of $545,325 for the JBL FPA contract.
2. Authorize a contract contingency of $109,066, to cover the additional scope item, and to address any unforeseen issues during the planning phase.

Prepared for
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

J.B. LATHAM TREATMENT PLANT

FACILITY PLANNING ASSESSMENT EFFORT

PROPOSAL / **ENG-25-04** / OCTOBER 2025

carollo®

3150 Bristol Street, Suite 500
Costa Mesa, California 92626
714-593-5100
carollo.com

October 7, 2025

Ms. Roni Young Grant
Capital Improvement Program Manager
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Subject: Proposal for J.B. Latham Treatment Plant Facility Planning Assessment Effort ENG-25-04

Dear Ms. Grant:

Carollo Engineers is uniquely positioned to help South Orange County Wastewater Authority (SOCWA) achieve its goals for the J.B. Latham Treatment Plant (JBLTP) Facility Planning Assessment Effort. With our deep expertise in wastewater treatment facility planning and our established history working with SOCWA facilities, we bring both technical excellence and critical local knowledge to this important project.

Understanding Your Vision. Having previously completed multiple planning and design projects at the JBLTP, Carollo possesses thorough knowledge of your facilities and operational challenges. We understand that SOCWA seeks not just a consultant, but a strategic partner who can navigate the complexities of treatment plant modernization with a comprehensive, data driven approach that includes:

1. **Collaborative Planning Process:** Beginning with a structured Project Control Plan, we'll establish clear communication protocols and decision-making frameworks that keep SOCWA and its member agencies fully engaged throughout the assessment process.
2. **Leveraging Previous Work:** Our team has worked at JBLTP extensively in the past. We will leverage previous modeling and planning efforts to build on past work and develop a future outlook that is economically viable, sustainable and achievable.
3. **Comprehensive Alternatives Development:** We will draw on our industry leading expertise in process and biosolids handling to develop alternatives that complement each other while providing options for disposal and reuse.
4. **The Right Team.** Our proposed project team brings together specialists in treatment process design, hydraulic modeling, facility assessment, regulatory compliance, and financial analysis. The majority of our team has worked on previous JBLTP projects, bringing unparalleled knowledge of your facility from the very beginning.

Our proposal is valid for 120 days after the submission date. For questions or additional information about this proposal, please contact Jeff Weishaar at 858-245-6081 or jweishaar@carollo.com.

Sincerely,

CAROLLO ENGINEERS, INC.

Jeffrey A. Weishaar, PE
Project Manager/Vice President

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO: REQUEST FOR PROPOSAL

FOR JBL FACILITY ASSESSMENT PLANNING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

1. The pre-proposal meeting is MANDATORY; a virtual option is available if firm is unable to attend in person.
   a. **Microsoft Teams**
2. The Facility Assessment Planning effort is Phase 1 of the master planning effort.
3. The selected consultants will be expected to complete the effort within 9 months of notice to proceed.

DATED: 9/4/2025

Roni Young Grant

Roni Grant
CIP Manager

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 9/4/2025

BIDDER: Carollo Engineers, Inc.

BY: Jeffrey A Weishaar

Jeffrey Weishaar, PE
Vice President

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 2

TO: REQUEST FOR PROPOSAL

FOR JBL FACILITY ASSESSMENT PLANNING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

1. See attachment for the pre-proposal meeting sign-in sheet.
2. The proposal page limit is 20 pages, not including the cover, appendices and resumes.
3. Section 2.42 Hydraulic and 2.43 Process Model – This effort should be high level analysis during Phase 1, using the existing studies and models.
4. Section 2.5 Condition Assessment of Major Unit Processes – This is not intended to be an asset management program. Rather, it is intended to help inform the alternatives analysis. Some unit processes will continue to be used. For those processes, it is important to understand if major re-investments are needed.

DATED: 9/11/2025

Roni Young Grant

Roni Grant
CIP Manager

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 9/11/2025

BIDDER: Carollo Engineers, Inc.

BY: Jeffrey A Weishaar

Jeffrey Weishaar, PE
Vice President

Identification of Responder

Water - It's all we do! For SOCWA, this means unmatched expertise and experience, and a deep understanding of the key wastewater treatment planning issues that few can match.

Firm Overview

Carollo's targeted expertise in water and wastewater related engineering allows us to focus on developing cost-effective, innovative, and reliable solutions to help clients protect public health. Since our inception in 1933, wastewater treatment plant (WWTP) planning and design has been a hallmark of Carollo's experience. Carollo has partnered with public sector clients across North America to deliver hundreds of thousands of innovative water and wastewater projects, backed by staff dedicated exclusively to their success. Carollo's commitment to technical and client service excellence is demonstrated through longstanding client relationships over the past 92 years.

Water and wastewater treatment is our core business. Our water/wastewater focus and dedication to responsive client service is integral to our success. With a commitment to long-term success, Carollo's wastewater expertise does not stop at the engineering and design stage but continues through ongoing operational support and process performance optimization.

CAROLLO ENGINEERS CORPORATE ADDRESS
2795 Mitchell Drive
Walnut Creek, California 94598

ADDRESS OF PRINCIPAL PLACE OF BUSINESS
3150 Bristol Street, Suite 500
Costa Mesa, California 92626

FORM OF COMPANY
S-Corporation

PARENT COMPANIES
N/A

CONTACT PERSON
Jeff Weishaar, PE
Vice President/Project Manager
Ph: 858-245-6081
Email: jweishaar@carollo.com

A "Go-To" Local Firm with National Expertise and Superior Client Service

Carollo will deliver your project from our local Costa Mesa, CA, office, conveniently located just 30 minutes away from SOCWA. With over 70 years of history in Southern California, Carollo has built a strong reputation for quality service across the region. We are a trusted partner for many municipal utilities, thanks not only to our innovative approach and extensive experience, but also to the exceptional way we deliver our services.

Project Understanding and Approach to the Work

The JBLTP Facility Plan will inform SOCWA and its member agencies' long-term decision making and identify project needs that balance cost effectiveness with reliability, redundancy, and environmental sustainability for the next 30 years.

Project Understanding

SOCWA has important decisions to make that will lay the foundation for a resilient, sustainable, and regulatory compliant facility to reliably serve residents and its partner agencies for the next 30 years. The future of liquid and solids treatment at the JBLTP will be determined based on condition regulatory drivers and viable end-use and disposal options. Costs, site restraints and other factors will play a vital role in deciding which options to implement. Immediate and near term process upgrades will be needed to allow the JBLTP to grow into its future over time.

These decisions need to be made as soon as possible so maintenance and process upgrades can begin in earnest. With Carollo's planning and process expertise, as well as our familiarity with the JBLTP and your previous projects, our team is ready to hit the ground running.

Identifying the most viable long-term liquid and biosolids treatment and management solutions is complex, as SOCWA and member agencies well know from its history with facility planning at the JBLTP. Site constraints have long been a hindrance to implementing water reuse facilities or moving beyond Class-B and Sub-Class B biosolids. A lack of distribution network has further prevented the implementation of reuse facilities. The Facility Plan needs to account for numerous variables: increasing capital, chemical and hauling costs, a changing regulatory landscape, challenging influent water quality issues, existing process performance limitations, development of new secondary treatment and solids processing technologies, and availability of potential regional partnership opportunities.

Navigating these variables will require a comprehensive and integrated review of the JBLTP's facilities including a thorough understanding of current conditions, future flows and loads, risks associated with climate change, and pending and future regulations. Engineering analysis can then assess and identify project needs over the next 30 years that will result in a reliable, efficient, and environmentally sound facility.

Our team understands the critical importance of engaging internal and external stakeholders to gain buy in for your decisions. We will work closely with your staff through every step of the planning and decision-making process and provide sound engineering analyses to guide you in selection of defensible projects that meet your treatment needs, while balancing cost effectiveness and environmental sustainability. The following pages describe our team's proposed approach to effectively address these challenges.

SOCWA Experience

Carollo has a long-standing and diverse history of providing engineering services to SOCWA. Our relationship with SOCWA dates back to over 25 years ago. Our experience spans planning, design, and construction support for a wide range of projects focused on improving operational efficiency, reliability, and regulatory compliance at SOCWA's facilities.

Identify Current and Future Exposure to Inform Needs and Alternative Development

The first step in developing a roadmap for the JBLTP is understanding where you are today and a clear picture of what the future may bring. A thorough review of current flows and loads, coupled with process by process condition assessment will lay the foundation of this understanding. Getting a thorough understanding of plant-wide repair and replacement needs is critical.

Workflow Plan

Flow & Loading Projections

Projecting flows and loads for the 30-year timeline is complicated by the various agencies sending flows to the JBLTP and their own future plans for wastewater management and reuse. Some agencies may be reducing flows to JBLTP while others plan to increase or redirect flows. Waste streams from upstream facilities further complicate these projections as flows may reduce while loadings remain the same or even increase. Coordinated efforts will be made with the member agencies to clearly understand how their needs will impact hydraulic and solids loadings in the future.

A common trend in WWTP flow and loading reviews is for flows to be dropping while concentrations have stayed steady or increased. The JBLTP must be thought of in terms of loading capacity and not just hydraulic capacity. It will be important to consider how these capacity limits are determined for future scenarios. Population growth estimates, projecting historical trends forward and statistical analysis of current flows and loadings can all be used for projecting future conditions. Multiple approaches can provide a range of possible outcomes that can be analyzed to select a reasonable outlook for the future.

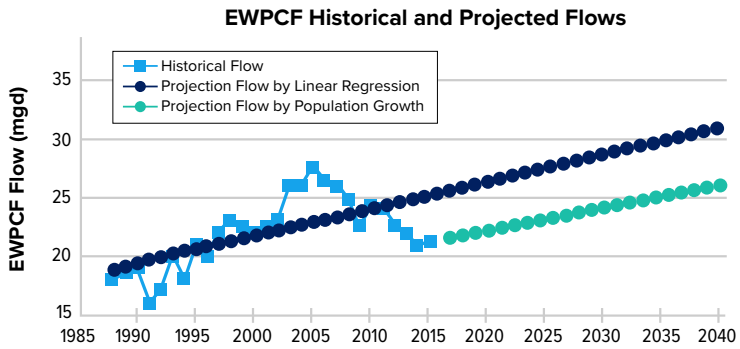
Condition Assessment

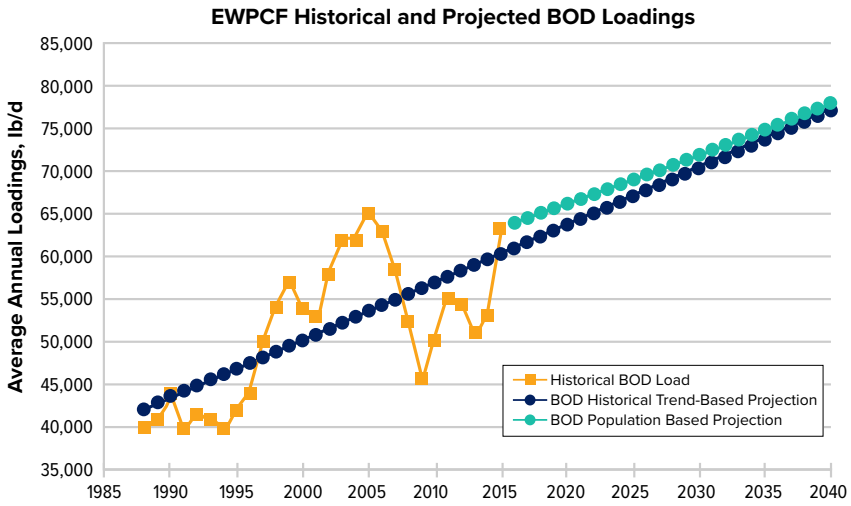
We want to right size the condition assessment and leverage our knowledge of the JBLTP to save time and provide you with a consistent condition assessment and reporting approach. Certain facilities have been updated through the planning efforts completed through the recent Package B Project (DAFTs, clarifiers, mixed liquor channel) as well as previous Package A & C Project (cogeneration, aeration basins, clarifiers). Upgrades to the Plant 2 headworks, effluent pump station, and energy recovery building are currently underway. But other upgrades are likely needed or have become essential since previous planning efforts were completed. Assets such as the biogas flare, digester heat exchangers, and influent pumps require upgrades. Buried utilities have become an increasing challenge and need to be addressed.

We will utilize a multi-discipline team of engineers to conduct a site-wide condition assessment. We understand an asset-by-asset assessment is not required and we can right size the investigation to look at each process area as a whole across all disciplines. Certain assets within the process area may be identified for repair or replacement to identify the process needs for continued or improved performance.

Engaging with and understanding the concerns of your O&M staff is essential to a successful condition assessment. With our depth and breadth of expertise and ability to work concurrently on tasks, we can complete the field condition assessments at times that work best for your staff. This allows your staff to engage at the highest levels, while still maintaining reliable operations.

Identified needs and improvements will be classified according to need. Immediate needs for those items necessary for a process to continue operations that may be at risk of failing today, short term needs in the 3-5 year time frame, intermediate needs in 5-15 year time frame, and long term needs beyond 15 years. While longer term needs will be identified here, they may not be implemented in the final planning needs if the process is identified for replacement in the future.





Different methods of projecting flows and loads can provide ranges to consider in planning efforts or even align to point to a common outcome.

Process Performance Evaluation

The process performance will utilize 3-5 years of process data and the process model that we have already developed for JBLTP to assess plant performance. Our broad process experience enables us to go beyond basic industry guidance and assess performance relative to the latest understanding of process capability and optimization. For example, we can evaluate the potential efficacy of enhanced primary treatment by conducting jar testing to fully optimize the ferric dose and review whether a polymer addition may provide additional settling. Other keyareas include performance and capacity assessment of the secondary treatment trains, digester health along with performance, whether thickening could be improved to free up additional digester space, and dewatering performance. Updating our process model with recent data will allow us to identify improvements and intensification opportunities for the biological processes to enable SOCWA and the member agencies to get maximum value from the JBLTP.

Risk and Resiliency Review

Our team understands the evolving utility requirements and threat landscape and will use the AWWA J100 and G430 standards as the guiding frameworks for the risk and resilience assessment (RRA). These standards support a structured, transparent, and repeatable process that aligns with the requirements of AWWA, USEPA, and DHS. The J100 methodology includes key steps such as the following:

1. Asset characterization.
2. Threat characterization.
3. Consequence analysis.
4. Vulnerability analysis.
5. Threat analysis.
6. Risk analysis.
7. Resilience analysis.
8. Risk management.

The G430 standard complements this by establishing minimum requirements for a security program that protects employee safety, public health, and public confidence through 13 distinct security criteria. As part of the proposed project alternatives, we will evaluate hazards, threats, and vulnerabilities to assess uncertain future conditions related to operational disruptions, public health, and regulatory outlooks. These planning elements will be assessed over a 30-year horizon to determine potential impacts and guide the development of resilient and compliant infrastructure strategies.

As a part of this process an assessment will be conducted focusing on potential impacts to the wastewater treatment plant site and operations from extreme natural events (e.g., flooding, wildfires, earthquakes), threats such as ocean level rise, and excessive influent flow peaking due to inflow and infiltration from prolonged precipitation. These scenarios will be analyzed using the J100 risk equation to quantify threat likelihoods, vulnerabilities, and consequences, supporting the prioritization of adaptive measures.

Additional vulnerabilities within the treatment plant will also be analyzed, including aging infrastructure, lack of replacement parts, physical security, cybersecurity, and exposure to prolonged power outages from wildfires or grid disruptions. Recommendations will be developed to enhance SOCWA's resilience, informed by the G430 security criteria and the resilience analysis component of the J100 framework.

This analysis will include the identification and evaluation of threats, vulnerabilities, and potential consequences to critical infrastructure assets. It will prioritize risk mitigation strategies by assessing their relative effectiveness and cost-benefit value. The insights generated through this process will be reviewed with stakeholders at all levels to verify and prioritize protective measures to implement.

A review of SOCWA's operating and discharge permits will also be completed in the context of regional, state, and federal regulations governing wastewater treatment, ocean discharge, Title 22 recycled water reuse, solids handling, and air quality. Emerging regulatory trends will be identified and prioritized, and compliance strategies will be developed to address future regulatory risks. This analysis will be integrated into the overall risk management plan to make sure long-term operational and regulatory resilience.

Risk Equation

Understanding the risk equation is essential to the RRA process. The equation quantifies the various components of risk as follows:

$$R = C \times V \times T$$

Where:

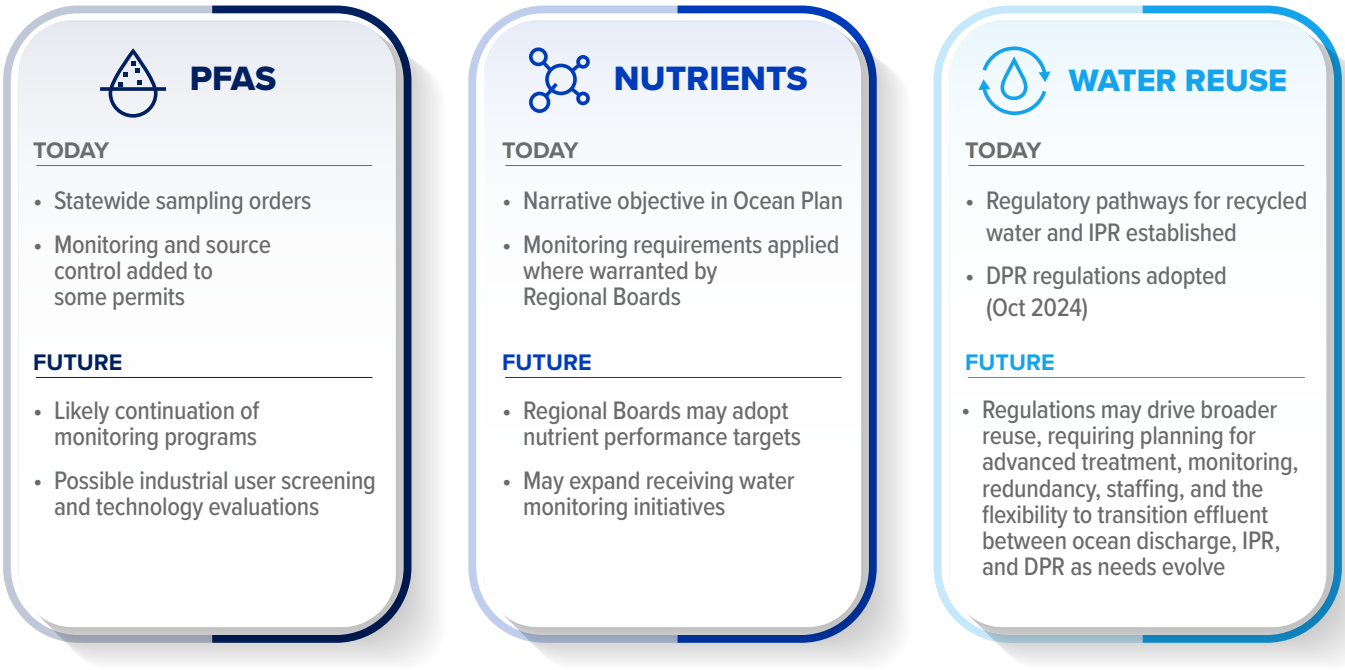
- **R** = Risk; calculated as a dollar value.
- **C** = Consequence; presented as a dollar value.
- **V** = Vulnerability; presented as a discrete number between 0 (low) and 1.0 (high).
- **T** = Threat Likelihood; presented as a discrete number between 0 (low) and 1.0 (high).

As part of the risk analysis, consequences to infrastructure and utility staff are developed and presented in terms of dollars, based on the vulnerability and likelihood of the event. Calculating risk as a dollar value enables the organization to measure changes in risk using dollars/cost. This is necessary for the risk and resilience management phase of the J100 process, where benefit-cost ratios are calculated to compare the cost of existing consequences against the potential cost of consequences if various risk mitigation measures were implemented.

Likelihood measures the probability of an event occurrence, but not necessarily the success of an attack. Vulnerability is a reflection of the security profile of an organization. Vulnerability assumes the event has occurred and is a measure of how likely it is that the associated security profile will prevent or mitigate the estimated consequences. While the likelihood of an event may be very high, the vulnerability to the event may be very low due to the security measures in place. Conversely, the likelihood of an event may be very low, but the facility may have a very high vulnerability to the event.

Regulatory Review

Regulations are at the heart of the JBLTP's core function. Regulations drive our industry and are always in flux. Understanding where we are today and what is coming is critical in Facility Planning. We will provide a thorough overview on the state of regulations for both effluent discharge and biosolids disposal. However, there are some more relevant to the JBLTP's future:



Regulatory drivers for JBLTP are evolving, with growing attention to PFAS, nutrients, and water reuse. Facility planning must account for today's requirements while positioning the plant to adapt to future monitoring, performance targets, and reuse opportunities.

PFAS

In 2020 the State Water Board issued statewide investigative orders that required Publicly Owned Treatment Works (POTW) to sample and analyze influent, effluent, and biosolids for PFAS and to report the results. That program continues to inform permitting and pretreatment expectations, and Regional Boards are increasingly adding PFAS monitoring and source control conditions to NPDES permits consistent with State Board direction and EPA guidance. Expect continued monitoring requirements, data reporting, industrial user screening, and potential technology evaluations where PFAS sources are identified.

Nutrient Limits or Performance Requirements for Ocean Dischargers

The California Ocean Plan already contains a nutrient narrative objective stating that nutrient materials must not cause objectionable aquatic growths or degrade indigenous biota, which Regional Boards translate into permit conditions and monitoring requirements. Recent actions show the Boards will adopt numeric, performance-based nutrient requirements where warranted. The San Francisco Bay Nutrients Watershed Permit will require POTWs to reduce dry season total inorganic nitrogen loads by 40% compared to 2022 over ten years setting a precedent for future coastal permits and monitoring expectations. SOCWA should plan for strengthened receiving water monitoring, potential nutrient performance targets, and participation in regional ocean monitoring initiatives.

Direct and Indirect Potable Reuse

California adopted Direct Potable Reuse regulations effective October 1, 2024, creating a clear protective framework for DPR projects. Alongside existing Title 22 IPR criteria, this enables a broader effluent utilization portfolio and may over time reduce reliance on ocean discharge. Planning should evaluate DPR and IPR readiness such as advanced treatment, log reduction credits, online monitoring, redundancy, and operations staffing, as well as the infrastructure needed to pivot between ocean discharge and reuse as demands and regulations evolve.

Innovative Wastewater Treatment Addressing Today's Needs and Adaptable to Tomorrow's Goals

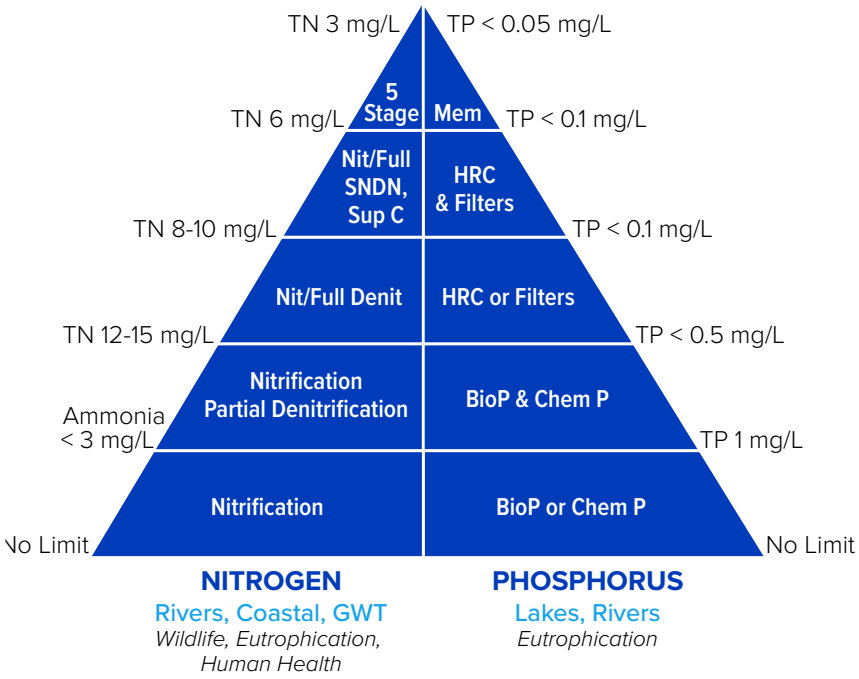
We will frame the liquid train around end uses for effluent. Scenarios will include ocean discharge for existing and future flows and loads, ocean discharge with total inorganic nitrogen limits, recycled water, recycled water with total inorganic nitrogen limits, and potable reuse through IPR or DPR. Where nutrient performance or intensification is the driver we will focus on biological modeling. Where conveyance, storage, or headloss affects feasibility we will confirm hydraulics.

We will hold a focused technology workshop with SOCWA to review a broad menu of options and agree on which merit Phase 1 screening and modeling. Treatment configuration approaches can be related to increasingly stringent nutrient targets.

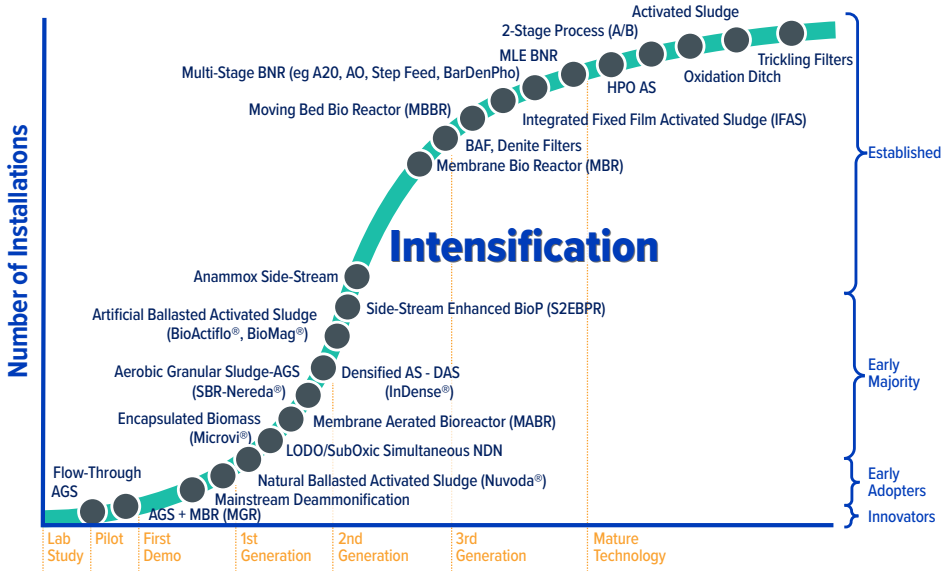
When conventional treatment configurations cannot be accommodated because of footprint, energy, or carbon constraints, teams often consider innovative approaches. Various innovative technologies along a maturity curve frame adoption level, performance certainty, and operations risk.

Some examples of technologies and approaches to be considered include BNR optimization and advanced control strategies; membrane bioreactors (MBRs); membrane aerated biofilm reactors (MABR); integrated fixed-film activated sludge (IFAS); densified or aerobic granular sludge; and sidestream deammonification of dewatering returns such as partial nitritation-anammox (PNA). For each option we will summarize footprint fit, expected nitrogen performance range, carbon and alkalinity needs, interactions with digestion and sidestreams, power and operations considerations, and the ability to bridge to recycled water or potable reuse.

Liquid treatment and reuse options at JBLTP are likely to require some form of intensification for anything other than BOD/TSS-only ocean discharge. How novel the approach will depend on the reuse goals, site constraints and other factors that we'll review with you in workshops.



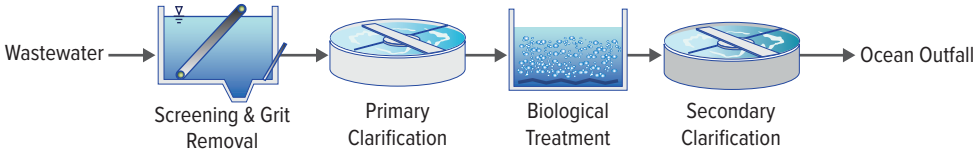
Increasingly stringent discharge limits often require increasingly sophisticated treatment approaches. We will work with you to identify the right target for liquid treatment and effluent use alternative evaluations.



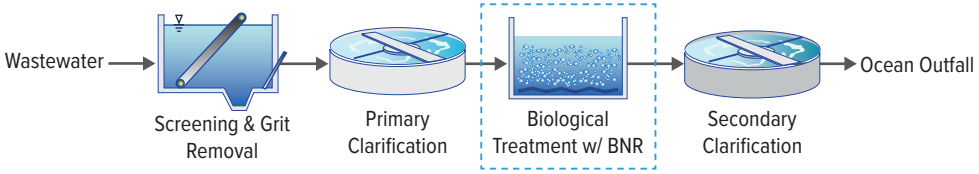
Liquid Effluent Usage Roadmap

We will develop a roadmap blending secondary treatment alternatives with effluent reuse options that show how the JBLTP can grow from its current state to the most advanced state of DPR. The roadmap will link likely change triggers to actions and will align with the solids handling strategy so the liquid and solids trains advance together.

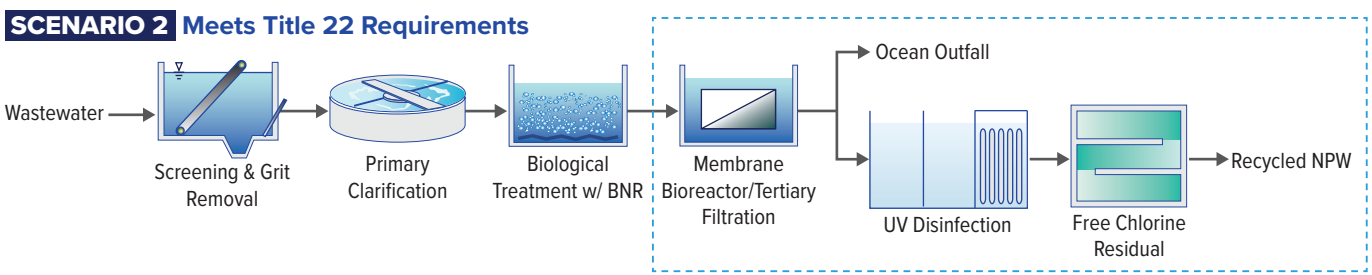
EXISTING SCENARIO Meets Current Ocean Discharge Standards



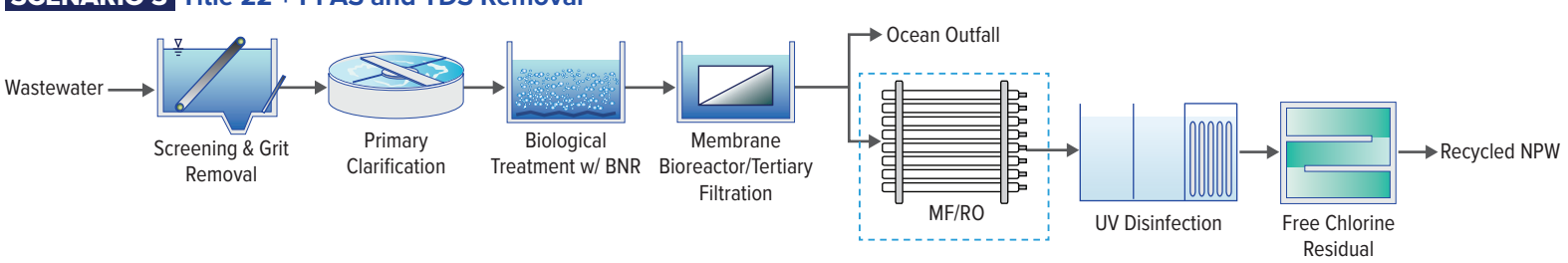
SCENARIO 1 Meets Future TIN Limits (For Ocean Discharge)



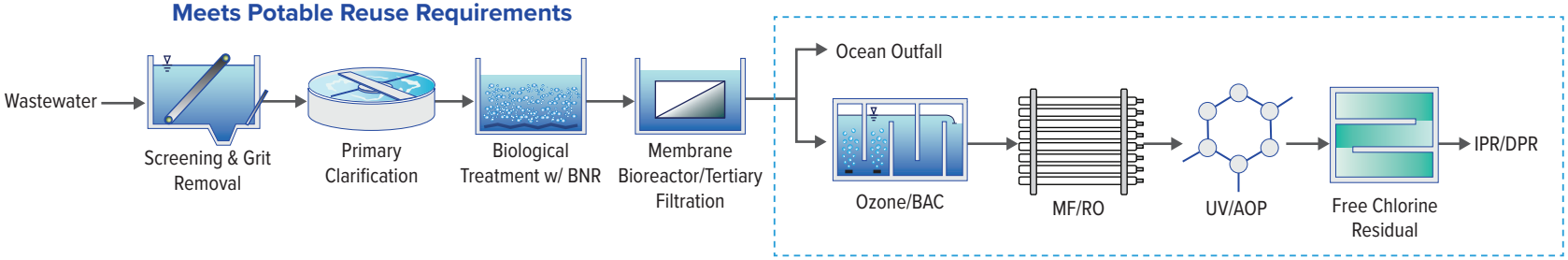
SCENARIO 2 Meets Title 22 Requirements



SCENARIO 3 Title 22 + PFAS and TDS Removal



SCENARIO 4 Title 22 + PFAS and TDS Removal Meets Potable Reuse Requirements



Sustainable and Cost Effective Biosolids Management

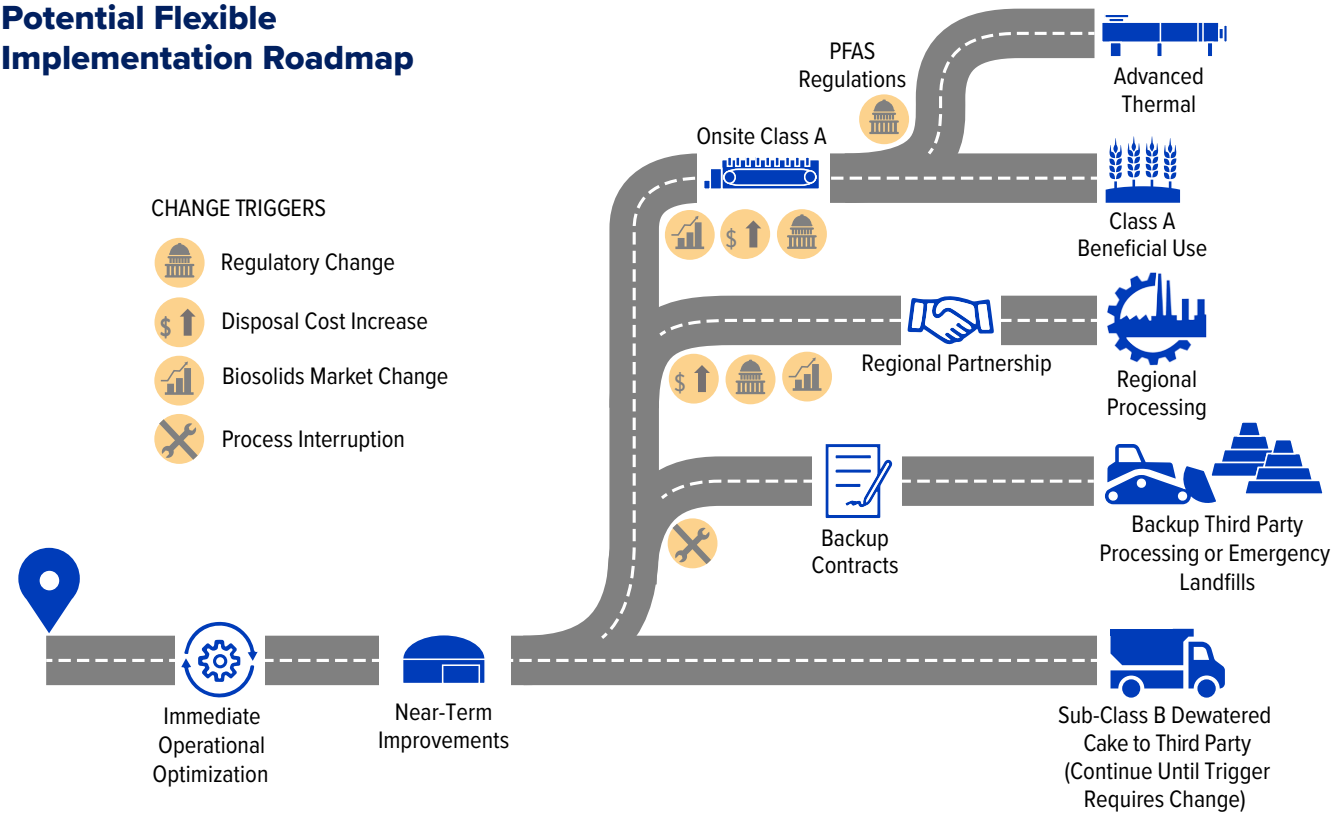
Carollo has supported SOCWA in prior planning efforts. With recent changes to member agencies, flows, and end uses, this is the right time to step back and evaluate the biosolids system as a whole. Our Phase 1 focus is to identify and compare viable pathways that improve reliability and product quality while aligning liquid treatment choices with solids handling so the plant performs as one integrated system.

We will begin by evaluating the existing solids and biogas systems, current and projected flows and loads, the level of treatment achievable at baseline, and near-term process optimizations that can improve reliability and product quality.

In Phase 1 we will treat layout ideas as options to test. We will sketch a small set of workable footprints—for example a third digester near the flare area, a digester on the former lab site, or replacing Digesters 3 and 4 with higher volume units—and apply a high level siting and constructability screen focused on the essentials: zoning and coastal approvals, utility integration and available footprint, and keeping the plant operating during construction. We will also outline practical ways to meet detention time and temperature targets, for example recuperative thickening to increase effective SRT and heat system or Combined Heat and Power (CHP) upgrades.

Our goal is to select space efficient, operable upgrades that secure consistent Class B and define clear paths to Class A, where warranted. Thermophilic digestion can achieve Class A. WAS only Thermal Hydrolysis Process (THP) will not achieve Class A on its own, but it can expand effective digestion capacity, improve volatile solids reduction, produce a drier dewatered cake, and increase digester gas yield, often with a smaller footprint than adding tanks. We will confirm site fit with concept level footprints, size major utilities and heat needs at a planning level, outline construction sequencing and operations considerations, and present clear capacity, dewaterability, energy, and cost tradeoffs for Phase 1 decisions.

Potential Flexible Implementation Roadmap



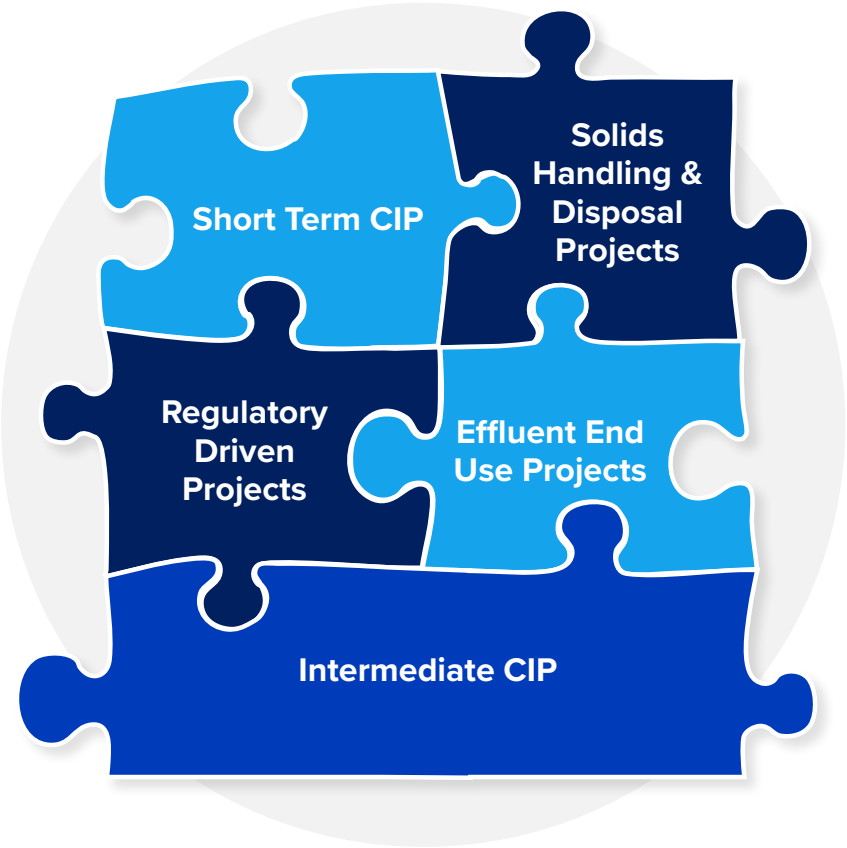
Our implementation roadmap will identify triggers, actions required, and pathways for achieving future requirements under changing conditions.

A Comprehensive and Integrated Facility Plan to Guide Future CIP Efforts

The previous tasks will develop options and alternatives across all of the JBLT. The final step will be a sensitivity analysis to group various options for each area into overall project alternatives. These can be evaluated against each other to determine the alternative that provides a clear pathway for the future of the JBLTP providing a reliable, redundant, and environmentally sustainable facility for the next 30 years.

Suggested Scope Addition – Staffing Analysis to Align with JBLTP Goals

This project will set forth a path for the JBLTP and how it will operate in the future. The project includes significant efforts to understand the state of the plant today. Operation and maintenance of the plant requires a strong and experienced staff dedicated to meeting plant performance goals. Just as important as understanding and planning processes at the plant is making sure you have the staff to execute. We would suggest SOCWA consider an updated staffing plan as part of this project. Along with the process analysis, we can review current staffing for like-minded agencies, and provide suggested modifications for both the current and future plans.



We will assemble and analyze comprehensive project alternatives. As a whole, the assembled pieces will create a reliable and environmentally sustainable JBLTP for the future. We'll then work with you to identify the best JBLTP picture that is both economically and technologically feasible.

Project Management

Carollo uses an engaging management approach to enhance coordination with our clients and foster open communication with all levels of your staff. We will listen and respond to your needs and preferences while simultaneously providing you with our experience. To do this, we will use various forms of communication with your staff as discussed below.

- **Daily Interactions.** During the project, we will have to address numerous "routine" team management and coordination issues. We will use tried-and-true methods of as-needed phone calls, emails, virtual meetings, and in-person meetings to keep the project team on track.
- **Biweekly Coordination.** We propose conducting biweekly virtual meetings to discuss project status and decisions. We will organize these 30- to 60-minute meetings around a standard working agenda, targeting purposeful and efficient discussion and providing a list of actionable items for team project management and engineering coordination.
- **Monthly Progress Reports.** We will prepare monthly project progress reports to summarize the project's current status, schedule, and financial position. These monthly progress reports will summarize our accomplishments and challenges encountered or anticipated.
- **Productive Workshops.** During workshops, we will present meeting topics, facilitate discussion, and solicit input for tasks and resolving issues. For the workshops to be productive, we will 1) clearly define the agenda and objectives; 2) review information and key decisions in advance; 3) make sure key stakeholders/decision makers are in attendance; 4) manage communication to balance progress with consensus; 5) document decisions and action items; and 6) follow through on action items.

As project manager, Jeff will use the S-curve to keep your project on schedule.

★★★

Quality Assurance/Quality Control Plan

QUALITY ASSURANCE
- Conducted as the project progresses.
- Independent peer reviews to address critical issues.
- Conducted in early stages to avoid rework.

QUALITY CONTROL
- Internal QC prior to all submittals.
- Independent QC team.
- QA/QC sign-off forms.

RESULT
- Allows team to present highly refined concepts in project workshops.
- Provides high-quality deliverables that save your staff review time.

Quality review of deliverables at all project stages will produce a successful project.

Quality Management

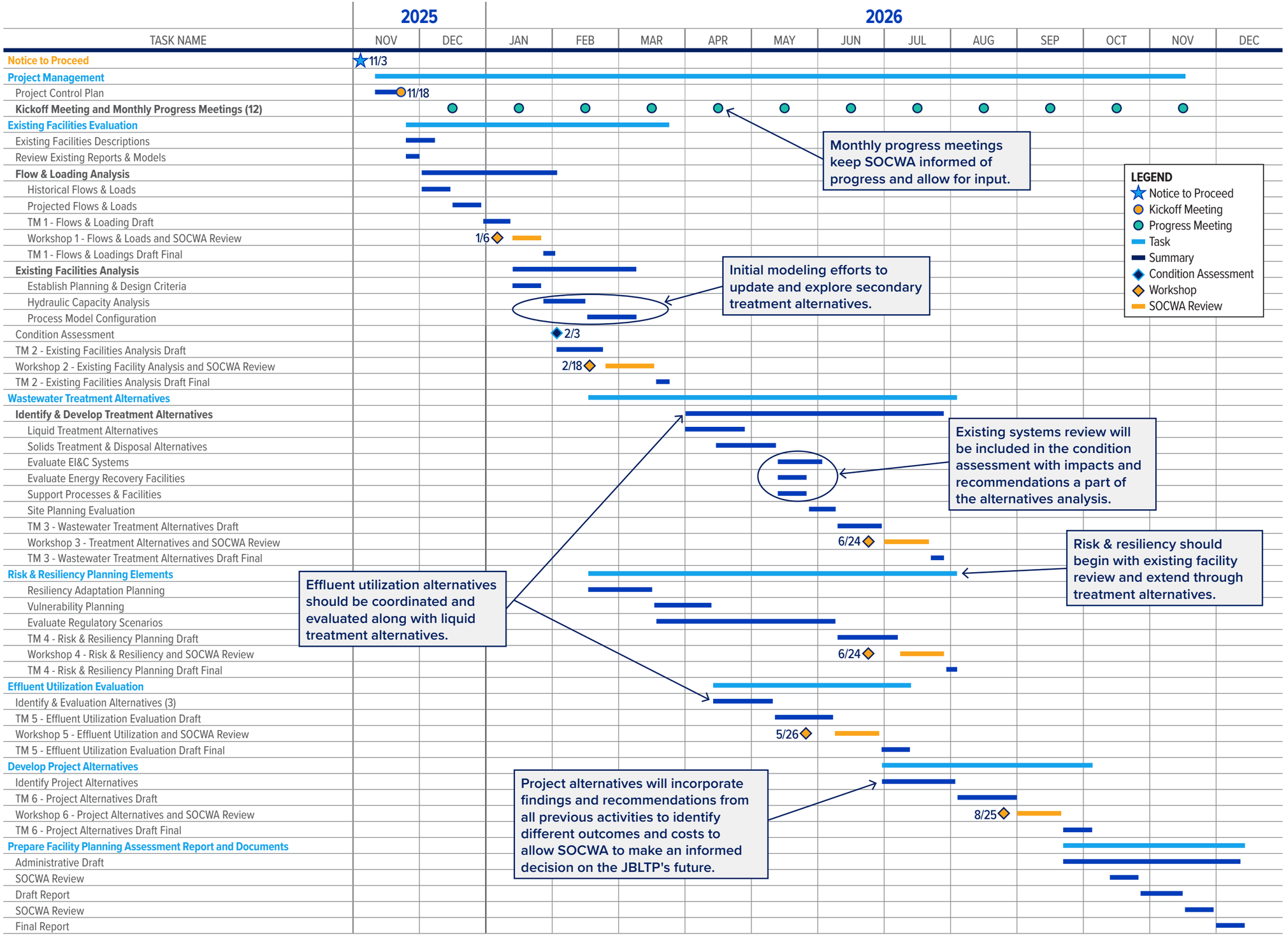
Our team is committed to quality. Our quality assurance/quality control (QA/QC) review process provides proven results and begins with a project plan. We tailor each project plan to specific project needs. Each one includes job-specific procedures and standards, team member roles and responsibilities, report and design checklists, approval processes for project management, procedures for formal and informal reviews, and project deliverable reviews by SOCWA.

Before submitting a single deliverable to SOCWA we will conduct a QA/QC review using senior level engineers with expertise in the appropriate discipline area. We will continually emphasize quality control to our project team by conducting informal reviews of the planning and design deliverables as the work progresses. Examples of deliverables for which we will perform a QA/QC review include:

- **Technical Memorandums.** Review for soundness of logic, justification of conclusions reached, readability, and clarity.
- **Preliminary (10 Percent) Design Submittals for Workspace Concepts.** Review for general conditions, code compliance, cross-reference coordination, detailed checklist compliance, coordination among disciplines, completeness and correctness, clarity, constructability, work sequence and constraints, and other requirements.
- **Condition Assessment Criteria.** Review for assumptions used, accuracy, and completeness.
- **Planning-Level Cost Estimates.** Review for quantity takeoffs, unit prices, contingencies, level of accuracy, and project risk factors.

Schedule

Our work plan is incorporated into the schedule shown here. Multiple tasks will be occurring simultaneously as needed to keep the project moving and to coordinate alternative development, analysis, and to prioritize our comprehensive approach to the project. This way, we can be sure to consider how one process alternative may affect other processes and associated alternatives. We will accomplish this while keeping you informed on all aspects of the project, allowing you have ample input and feedback throughout.



Experience and Technical Competence

Our planning expertise, solid understanding of local planning issues, liquid and biosolids technical expertise, and unparalleled knowledge of your JBLTP will provide SOCWA with confidence in our ability to deliver an integrated and innovative plan that optimizes your future investment.

Water is all we do!

Cities, utilities, and special districts of all sizes count on Carollo to help them navigate through the increasingly complex challenges of the cost-effective and sustainable protection of public health while meeting local, state, and federal regulatory requirements; protecting the water environment; and addressing public expectations.

Extensive Planning Experience

The Carollo team brings a proven track record of managing large, complex master and facilities plans in Southern California. Carollo's experience delivering wastewater resources and facility planning projects for cities with similar needs sets us apart. We understand which tasks require close coordination to minimize rework, maintain the schedule, and produce consistent, actionable plans that SOCWA can move forward confidently.

We have demonstrated our ability to successfully address complex technical, regulatory, and institutional issues to produce clear, cost effective, and practical recommendations with a wide variety of stakeholders. This focused planning experience allows us to deliver high-quality reports effectively and efficiently.

Carollo has completed more water and wastewater master plans in California than any other firm.

Previous Experience on Similar Projects

The table below lists representative facility/ master planning projects. These projects have many technical and institutional elements that are comparable to those required for your Facilities Plan Update. We have provided brief summaries for six select projects on the following pages.

Agency/Project	Capacity	Project Elements: Condition Assessment	Odors/Air Emissions	Discharge Permitting	Plant Hydraulics	Solids Handling	Disinfection	Filtration Enhanced Treatment	Regulatory Compliance	Multi-agency Coordination	Reuse/Recycling
South Orange County Wastewater Authority, Dana Point, California - J.B. Latham Treatment Plant Facility Plan	13		•	•	•	•	•		•		•
City of Oceanside, California - La Salina WWTP Facility Plan	4.5	•	•	•	•	•	•	•			•
City of Colton, California - Water and Wastewater Master Plan Updates (2006 and 2013)	5.6	•		•	•	•			•		•
City of Oceanside, California - Integrated Master Plans	15	•	•	•	•	•	•	•	•		•
City of Barstow, California - Wastewater Treatment Plant Capital Improvements Program Planning	5	•	•	•	•	•			•		
City of Phoenix, Arizona - Three Major Facility/Master Plans	150	•	•	•	•	•			•	•	
City of Benicia, California - Wastewater System Improvement Project	4.5	•	•	•	•	•	•		•	•	•
Fresno/Clovis Wastewater Reclamation Facility, California - Facilities Master Plan	160	•		•	•	•			•		•
Orange County Sanitation District, California - Master Plans	276	•	•	•	•	•			•	•	
City of Riverside, California - Master Plan	47		•	•	•	•	•	•	•		•
Sacramento Regional County Sanitation District, California - 2020 Master Plan	181			•	•		•	•	•	•	•
Sacramento Regional County Sanitation District, California - 20-Year Master Plan	181	•	•	•	•	•	•	•	•	•	•
City of San Bernardino, California - 20-Year Master Plan	30	•	•	•	•	•	•	•	•		
Lower South Platte Regional Group, Denver, Colorado - WW Utility Plan	70			•		•			•	•	
Metro Wastewater Reclamation District, Denver, Colorado - Service Area Utility Plan	80	•							•	•	
City of Carson City, Nevada - 20-Year Master Plan	6.5	•		•	•	•	•	•	•		
City of Davis, California - Strategic Master Plan	7.5			•	•	•	•	•	•		
City of Petaluma, California - Water Recycling Facilities Planning	8			•	•	•	•	•	•	•	•
City of Stockton, California - Master Plan	48		•	•	•	•	•	•	•		•
City & County of San Francisco, California - Master Plan	84	•	•	•	•	•	•	•	•		•

JUST ASK OUR CLIENTS

We invite you to contact the individuals listed as our references on the following pages. They will attest to the quality and responsiveness of our services on their projects.

Plant Process Master Plan

Encina Wastewater Authority, CA

In 2016, Encina Wastewater Authority selected Carollo Engineers to assist in developing a Facility Master Plan for the Encina Water Pollution Control Facility (EWPCF). The EWPCF is a 40 mgd conventional secondary treatment plant with solids handling to produce Class A and B biosolids.

The project included review of historical flows and loadings in order to project future flows and loads for the 25-year planning horizon. Condition assessments were conducted along with process performance evaluations. Jar tests were also conducted.

Process evaluations were conducted at each major process area. Evaluations were based on alternatives developed to reduce energy consumption, improve effluent water quality, and evaluate biosolids disposal options. Secondary treatment alternatives included upgrades to provide nutrient removal while biosolids alternatives explored different Class A treatment technologies as well as options to increase digestion capacity.

The final Facility Master Plan report identified over $78 million in capital projects, prioritized across nine categories.

CONTACT INFORMATION

James Kearns, Senior Construction Manager
760-268-8843

PROJECT DATES

2016 - 2017

McCollum WTP Condition Assessment and Improvement Recommendations

Olivenhain Municipal Water District, CA

Carollo was selected to assist Olivenhain Municipal Water District in developing a comprehensive facility master plan for the David. C McCollum Water Treatment Plant (DCMWTP). The DCMWTP provides safe drinking water for almost 70,000 connected customers in Northern San Diego County. The project included a review and update of the existing asset database, detailed condition assessment and outage planning, visual condition assessment and a variety of specialty inspection methods. Concrete sounding and sampling, metal thickness measurements, pipe weld x-ray, CCTV, and drones were all used to provide detailed information on the condition of installed assets. The project resulted in a significant capital improvement plan with almost $20 million in recommended projects over the next 10 years.

CONTACT INFORMATION

Lindsey Stephenson, Engineering Manager
760-632-4640

PROJECT DATES

2023 - 2024

San Elijo Water Reclamation Facility Master Plan

San Elijo Joint Powers Authority, CA

The 2014 Facility Plan Update was prepared to provide SEJPA with a planning document that identified and prioritized potential improvements at the WRF. The condition assessment included visual observation of the installed assets, review of maintenance and replacement records, and known deficiencies identified by staff. Site planning was conducted to preserve space for future improvements, including solar fields, a new administration building, advanced water treatment, stormwater capture, and a resident bike path through the facility to allow access to the San Elijo Conservancy Park. The asset database was used to track asset condition, field notes, photos, maintenance history, and condition rankings, remaining useful life estimates, criticality, vulnerability and overall risk. High risk assets were identified for rehabilitation or replacements and were grouped into larger CIP projects for additional evaluation and project cost estimating. The developed CIP listed nearly $70 million for development over a 10- year period. As of today, the most critical projects have been completed and Carollo is working to update the Facility Plan for 2023 and beyond.

CONTACT INFORMATION

Michael Thornton, General Manager
760-753-6203 x72

PROJECT DATES

2014 - 2016

RWRF Biosolids Master Plan

Eastern Municipal Water District, CA

The District currently sends all their biosolids to Arizona for beneficial reuse. The risk of regulatory changes in Arizona and local ordinances in California combined with aging facilities, prompted the need for the BMP and a 20-year Capital Improvement Plan (CIP) for all four RWRFs owned and operated by the District.

The team conducted a detailed assessment of all relevant facilities, as well as interviews with plant staff that were collectively instrumental in identifying and prioritizing system deficiencies. Findings were compiled in the BMP to summarize operational constraints and repairs to include with the CIP.

The team developed solids projections for each RWRF, assessed system capacity, and identified upgrades needed. To address potential regulatory risks to biosolids management avenues, the team also identified and evaluated anaerobic digestion, dewatering, and post-dewatering options. Ultimately, a 20-year CIP will be delivered along with an adaptable roadmap that identifies management pathways the District can take upon specific regulatory or cost triggers.

CONTACT INFORMATION

Ken Tagney, Director of Water Reclamation
951-928-3777, ext 6255

PROJECT DATES

2023 - 2024

Water Pollution Control Plant Master Plan and Validation

City of Sunnyvale, CA

Carollo worked with another consultant to prepare a master plan for the City's Water Pollution Control Plant to address immediate deteriorating facility needs and plan for future projects to replace the plant's aging infrastructure. Carollo was responsible for developing liquid and solids treatment process improvements to meet anticipated regulations for a 20-year planning period. Project highlights include:

- Developed and validated wastewater flows and loads for the City's 14-mgd Water Pollution Control Plant.
- Performed hydraulic and process modeling of the treatment facilities to evaluate capacity and identify gaps.
- Performed a condition assessment of the plant's infrastructure and treatment processes to evaluate age, condition, and remaining useful life of major plant assets.
- Performed fast-track design of a new 60-mgd headworks facility that includes influent pumping, screening, and grit removal.
- As a follow-up phase, Carollo and another consultant designed the Secondary Treatment and Dewatering Project.

CONTACT INFORMATION

Bhavani Yerrapotu, Former WPCP Division Manager
408-265-2607

PROJECT DATES

2013 - 2024

Regional Wastewater Reclamation Facility Biosolids Master Plan

City of Fresno, CA

Carollo developed a biosolids master plan to outline a 20-year biosolids strategy for the 80-mgd Fresno-Clovis RWRF. Project highlights include:

- Performed a process evaluation involving updating the process model to include the latest operational data and determine future biosolids projections.
- Conducted a capacity and performance assessment to identify limiting components and recommended modifications.
- Evaluated solids processing alternatives, including thermal drying, pyrolysis, thermal hydrolysis, thermo-chemical hydrolysis, and composting.
- Estimated capital, operations and maintenance (O&M), and life-cycle costs and evaluated operational, social, and environmental impacts of biosolids alternatives.
- Partnered with Material Matters to conduct a regional market assessment for biosolids products.
- Engaged stakeholders in an interactive criteria-weighting and alternative-ranking process.
- Developed an implementation plan to diversify the City's biosolids reuse portfolio and mitigate long-term regulatory and financial risks.

CONTACT INFORMATION

Cory Asher, Water/Wastewater Manager
559-621-5170

PROJECT DATES

2018 - 2019

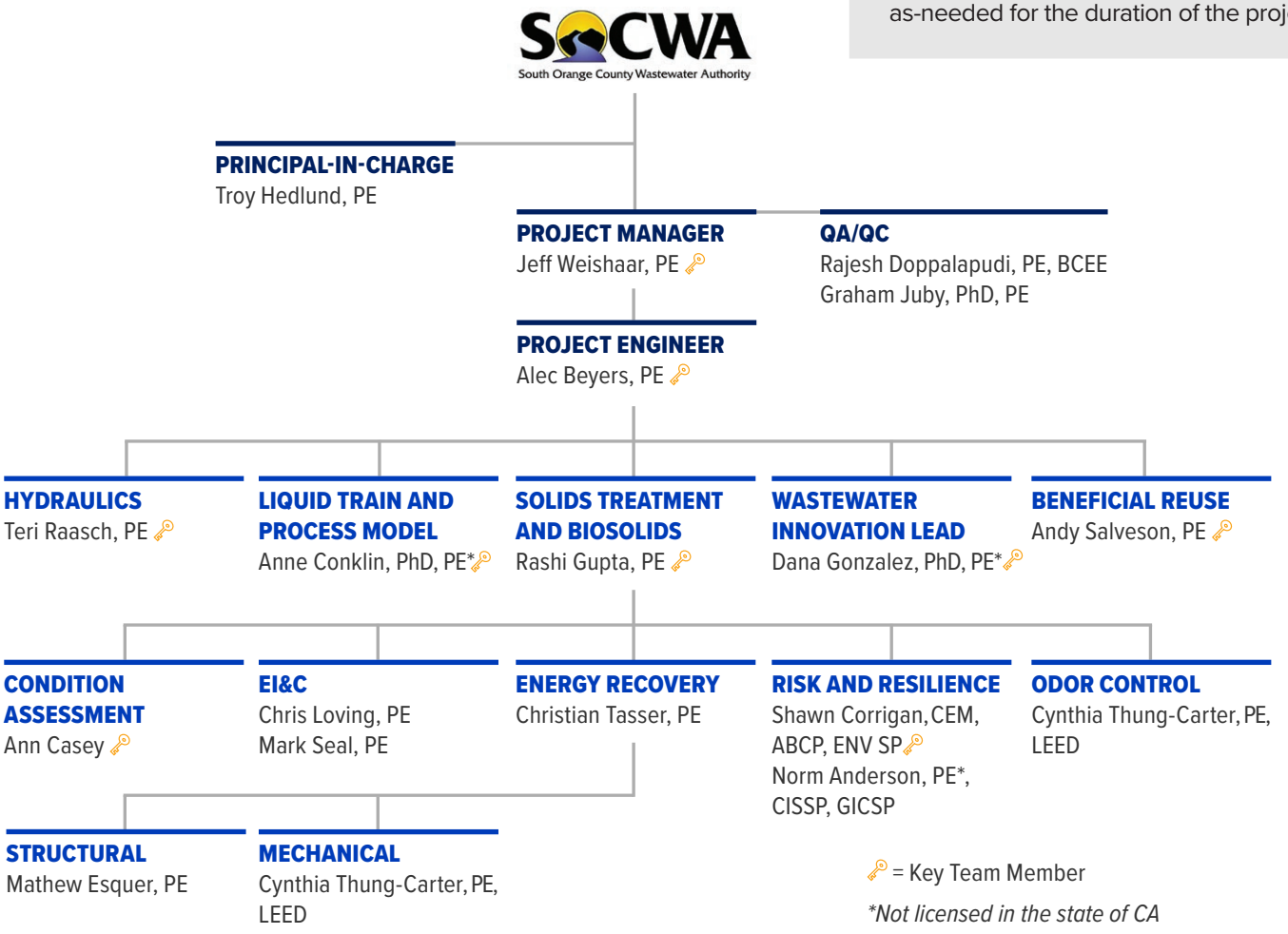
Key Personnel and Sub-Consultants

The Carollo team was hand-selected to provide you with a team of experts who know and understand the needs of this project. We do not anticipate the use of subconsultants to complete this work.

The success of the project lies in the experience and abilities of the project team. Carollo has dedicated a team that has completed numerous successful projects together, which provides enhanced abilities to meet your needs. The team is illustrated in the organization chart, with brief introductions on the following pages. **Resumes are provided in the appendix.**

Availability

Our team is available for this assignment. Our project manager **Jeff Weishaar's** availability is **25 percent** for this project. Our project engineer, **Alec Beyers** has **50 percent** availability for this project. The other team members are available as-needed for the duration of the project.



Key Team Members

Jeff Weishaar, PE
PROJECT MANAGER

Jeff is a senior project manager with 20 years of experience in wastewater treatment facility planning, assessment, and design. He has led projects involving all aspects of water and wastewater treatment processes, including comprehensive facility evaluations, condition assessments, and capital improvement planning. Jeff's expertise includes managing multidisciplinary teams, supporting client operations, and delivering actionable recommendations for infrastructure upgrades. He has successfully completed numerous projects throughout California, providing valuable insight into facility operations and regulatory requirements. **Jeff is responsible for providing project management services and will work with other key team members and technical experts to deliver a successful project.**

25%
AVAILABILITY

Troy Hedlund, PE
PRINCIPAL-IN-CHARGE

Troy is Principal-in-Charge with more than 20 years of experience in electrical, instrumentation, and controls engineering for water and wastewater treatment facilities. He has managed all phases of project implementation, including planning, design, and construction, and is recognized for expertise in power distribution, process controls, SCADA, and PLC network design. Troy has led multidisciplinary teams on major facility planning and upgrade projects across California, delivering reliable, cost-effective solutions for municipal clients. His leadership and technical insight support successful project delivery, operational efficiency, and long-term infrastructure resilience. **Troy is responsible for providing technical and managerial insight to the project team.**

15%
AVAILABILITY

Alec Beyers, PE
PROJECT ENGINEER

Alec is a project engineer with more than seven years of experience in the wastewater industry. He has contributed to process and mechanical design for both new and retrofit wastewater treatment facilities, as well as performed facility condition assessments for water and wastewater plants. Alec's project experience includes leading evaluations, developing asset management systems, and supporting capital improvement planning. **Alec will serve as project engineer to assist Jeff in day to day management of the team. He will work with discipline leads to complete the technical work and assessments.**

50%
AVAILABILITY

Teri Raasch, PE
HYDRAULICS

Teri is a hydraulics engineer with more than 11 years of experience specializing in the planning and design of wastewater treatment facilities. She has led hydraulic analysis and modeling for new and retrofit projects, including headworks, solids handling, and facility master planning. Teri's expertise includes developing cost-effective hydraulic solutions and optimizing plant operations for municipal clients nationwide. Her project portfolio features major roles on the J.B. Latham Treatment Plant Facility Plan, San Francisco Public Utilities Commission's Southeast Plant Headworks, and improvements for the Orange County Sanitation District. **Teri was previously responsible for building the JBLTP hydraulic model. She will continue to lead the hydraulic modeling needs for this project.**

25%
AVAILABILITY

Anne Conklin, PhD, PE
LIQUID TRAIN AND PROCESS MODEL

Anne is a recognized expert in liquid train process modeling and facility planning for wastewater treatment projects. With more than 16 years of experience, she specializes in the evaluation and optimization of secondary and tertiary treatment processes, particularly for facilities facing some of the nation's most stringent nutrient removal requirements. Anne has developed and calibrated models for planning and design, efficiently identifying data gaps and providing actionable recommendations. Her project portfolio includes master planning and process optimization for major utilities across the Western U.S., supporting clients in achieving regulatory compliance and long-term operational goals. **Anne previously assisting in developing the biological model under the Package B project. She will continue to lead biological modeling and assist with the technical evaluations related to any secondary treatment and effluent reuse alternatives.**

20%
AVAILABILITY

Rashi Gupta, PE
SOLIDS TREATMENT AND BIOSOLIDS

Rashi is a nationally recognized expert in solids treatment and biosolids management with more than 22 years of experience. As Carollo's National Wastewater Practice Director, she leads the planning, design, and optimization of solids handling systems, including thickening, dewatering, digestion, and advanced biosolids processing. Rashi has managed projects for major utilities across the U.S., implementing innovative technologies such as hydrothermal liquefaction, gasification, and high solids digestion. Her expertise spans all project phases, from initial planning through startup, and she is known for delivering sustainable, cost-effective solutions that address regulatory requirements and operational goals. **Rashi led the previous Package B planning efforts. She will lead the biosolids alternatives evaluation.**

15%
AVAILABILITY

Key Team Members (Continued)

Dana Gonzalez, PhD, PE

WASTEWATER INNOVATION LEAD

Dana is a Principal Technologist at Carollo Engineers with over 15 years of experience in wastewater treatment, water quality, biosolids management, water reuse, and PFAS strategy. As Carollo's Southern California PFAS Lead and Western Region Wastewater Innovation Lead, she integrates advanced technologies with practical operations knowledge to deliver resilient, compliance-ready solutions. Her expertise includes startup and optimization of processes such as thermal hydrolysis, sidestream nutrient removal, struvite recovery, and regional biosolids planning. **Dana will provide wastewater innovation leadership and a holistic perspective, providing integrated planning across both the liquid and solids streams. She will assist Anne and Rashi in the biosolids and liquid stream alternatives analysis and will lead the regulatory review.**

30%

AVAILABILITY

Andy Salveson, PE

BENEFICIAL REUSE

Andy is Carollo's Chief Technologist for Water Reuse and a nationally recognized expert in beneficial reuse engineering. With more than 31 years of experience, Andy has led planning, design, and research for potable and nonpotable reuse projects across the U.S. He specializes in advanced treatment technologies, regulatory strategy, and the demonstration of pathogen removal for water and biosolids reuse. He is known for delivering practical, sustainable solutions that advance the beneficial reuse of water resources. **Andy will assist in evaluating reuse alternatives for Title 22, IPR and DPR at the JBLTP.**

15%

AVAILABILITY

Ann Casey

CONDITION ASSESSMENT

Ann is a condition assessment engineer with more than 30 years of experience supporting water, wastewater, and energy utilities. She specializes in asset management and condition assessment. Anne's expertise includes advanced analysis for long-term capital replacement, operational optimization, and risk management. She is recognized for leveraging industry best practices and innovative techniques to help utilities balance risk and capital investment while maintaining reliable service. Anne serves as a technical advisor and quality reviewer, providing practical solutions for infrastructure planning and asset management. **Ann will assist in developing executing the condition assessment.**

30%

AVAILABILITY

Shawn Corrigan, CEM, ABCP, ENV SP

RISK AND RESILIENCE

Shawn is a Certified Emergency Manager with more than 30 years of experience spanning water utilities, wildfire, public health, nuclear safety, marine search and rescue, education, and consulting. Shawn's expertise is rooted in the application of planning frameworks, including the BC Emergency Management System (BCEMS), Public Safety Canada's all-hazards guidance, FEMA's National Preparedness System, EPA water sector continuity planning principles, and international standards for continuity management. He has worked with utilities and governments across North America to deliver vulnerability assessments, continuity of operations plans, emergency response programs, and scenario-based exercises that strengthen resilience against both natural and malevolent threats. **Shawn will lead tasks associated with risk and resiliency for the JBLTP.**

25%

AVAILABILITY

Carollo is recognized as a leader in wastewater master planning, delivering award-winning, comprehensive plans for municipal utilities. The firm's experience spans a wide range of projects, from focused planning studies to large-scale regional master plans. Carollo's approach addresses complex technical, legal, regulatory, and institutional challenges, providing cost-effective solutions that optimize existing assets and prioritize reliable, practical treatment alternatives.

WHAT DOES THIS MEAN TO SOCWA?

Simply this: Direct access to our local, expert team that is committed to you, resulting in practical, cost-effective solutions tailored to SOCWA's wastewater treatment priorities and needs.

Certifications

1. Carollo certifies that it is not aware of any actual or potential conflict of interest that exists or may arise by executing the contract or performing the work that is the subject of this RFP.
2. Carollo certifies that it is willing and able to obtain all insurance required by the form contract included as Attachment C of the RFP.
3. Carollo certifies that it has conducted a reasonable and diligent inquiry concerning the minimum and/or prevailing wages required to be paid in connection with the performance of the work that is the subject of the RFP and certifies that the proposed pricing includes funds sufficient to allow Carollo to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.
4. Carollo acknowledges and agrees with all terms and conditions stated in the RFP.
5. Carollo certifies that all information provided in connection with its proposal is true, complete, and correct.

Carollo will maintain the required insurance during the life of the project. We agree to the contract language with the changes previously requested and accepted in our most recent contract. We would be happy to re-submit those previously requested changes, if needed, and discuss further with SOCWA.

Jeffrey Weishaar, PE
Project Manager / Vice President

Jeffrey A. Weishaar, PE

Jeff Weishaar, a civil and environmental engineer with Carollo Engineers, has worked on various wastewater projects, including elements of analysis, design, and construction.

RELEVANT EXPERIENCE

> **Project manager for the Encina Wastewater Authority, California, Process Master Plan for the Encina Water Pollution Control Facility.** Carollo prepared a process master plan to evaluate existing process operations, recommend necessary enhancements, and ensure the Encina Wastewater Authority continued operation with up-to-date technologies while maintaining effective reuse of Encina's water, biofuel, and biosolid resources.

> **Project engineer for the Sweetwater Authority, California, Robert A. Perdue Water Treatment Plant Facilities Master Plan Update.** Carollo completed a detailed condition assessment plan and investigation to create an overall asset list for installed equipment at the plant, including structural, mechanical, electrical, and instrumentation assets. The project also includes process improvement evaluations to explore safer use of chemicals on site; replaces the aging clearwell facility; improves chemical handling, conveyance, and mixing; upgrades the intake structure to reduce manpower needed for operational tasks; and assesses potential regulatory requirements that could alter the treatment process at the plant.

> **Project engineer for the Olivenhain Municipal Water District, California, Chemical Tank Replacement project.** Carollo provided Carollo to provide design services for the replacement of the sodium hypochlorite storage tanks at the David C. McCollom Water Treatment Plant and the 4S Ranch Water Recycling Facility.

> **Project manager and process mechanical lead for the San Elijo Joint Powers Authority (SEJPA), California, San Elijo Water Reclamation Facility Plan Update.** The purpose of this Facility Plan Update was to provide SEJPA with a planning document that identified and prioritized potential improvements at the San Elijo WRF. Projects were identified based on a comprehensive condition assessment of the installed assets, a review of regulatory issues and potential changes, and potential process enhancements. Additional work was performed to update the Wastewater Asset Management database previously prepared for SEJPA.

> **Project engineer for the City of Barstow, California. Wastewater Treatment Plant Improvements Phase 1 Project.** This project covered multiple subtasks including condition assessment of the wastewater treatment plant, project development and ranking, process modeling, preliminary design and final design. The Phase 1 construction project includes rehabilitation of the aeration basins, secondary clarifiers, and gravity thickener, as well as SCADA upgrades, a new dewatering facility and new standby generator and additional miscellaneous site piping, electrical and instrumentation upgrades. The Phase 2 construction project will include upgrades to the primary clarifiers and aerobic digesters as well as a new influent pump station, a new electrical control building and additional SCADA, electrical, and instrumentation upgrades.

> **Project engineer for the Regional Treatment Plant Headworks Upgrade for the South Orange County Wastewater Authority, California.** The project involved production of drawings

and contract documents for replacement of the headworks building roof; rehabilitation of the existing mechanical bar screens; installation of new conveyors, screenings dewatering equipment, level measurement equipment in the existing channels for bar screen controls, and gas analyzers; channel concrete repair; odor control; and electrical and instrumentation modifications and upgrades. Roof replacement also incorporated a temporary odor control system with focus on the contractor's responsibility in capturing odors. He provided construction management services, submittal review, and responses to contractor requests for information.

> **Project manager for the City of San Diego, California, Alvarado Water Treatment Plant Stainless Steel Piping Condition Assessment.** Carollo was asked to perform a condition assessment for the City to determine the condition of all the gallery piping and estimate useful remaining life. However, only the wash water supply piping was assessed due to hydraulic issues with valving not holding flow and limited shutdown time. The wash water supply piping is 30 inches in nominal diameter and is constructed of Type 304L stainless steel. The results of the condition assessment will be used to determine if rehabilitation or replacement of the Type 304L stainless steel piping is recommended. Based on the conclusions of the condition assessment rehabilitation and replacements options considered, rehabilitation of the piping was determined not feasible.

> **Project manager for the City of Oceanside Facility Needs Condition Assessment.** This project provided condition assessment at three treatment plants owned and operated by the City. Specific duties included coordination and overall lead for the condition assessments, civil and mechanical condition assessment, identification of potential improvement projects; project cost estimating; and report preparation. Recommendations for project implementation, based on criticality and available budget, were provided to assist the City in preparing for their upcoming fiscal year budget and updating the Capital Improvements Program.

> **Project engineer for the J.B. Latham Treatment Plant Facility Plan for the South Orange County Wastewater Authority, California.** The Facility Plan provided a 20-year planning window for liquid and solids treatment, flow analysis, odor control, energy management, site planning, and regulatory issues. Project duties included flow and plant capacity analysis, solids treatment analysis for thickening and digestion, site planning, cost estimating, and report preparation.

> **Project engineer for the La Salina Treatment Plant Facility Plan for the City of Oceanside, California.** His responsibilities included condition assessment of civil, process, and mechanical facilities; identification of potential improvement projects; project cost estimating; and report preparation. Recommendations for project implementation, based on criticality and available budget, were provided to assist the City in preparing for their upcoming fiscal year budget and updating the Capital Improvements Program.

Troy A. Hedlund, PE

Troy Hedlund has 20 years of experience as a project manager and as an electrical and instrumentation engineer in the design of water and wastewater treatment plants, large-scale solar photovoltaic (PV) systems, and cogeneration facilities. His experience encompasses all phases of project implementation (planning, design, and construction) and many facets of EI&C engineering including high-, medium-, and low-voltage power distribution and generation system design, process and motor controls, and SCADA and PLC network design.

RELEVANT EXPERIENCE

> **Electrical/I&C engineer for the Sweetwater Authority, California, Robert A. Perdue Water Treatment Plant Facilities Master Plan Update.** Carollo completed a detailed condition assessment plan and investigation to create an overall asset list for installed equipment at the plant, including structural, mechanical, electrical, and instrumentation assets. The project also includes process improvement evaluations to explore safer use of chemicals on site; replaces the aging clearwell facility; improves chemical handling, conveyance, and mixing; upgrades the intake structure to reduce manpower needed for operational tasks; and assesses potential regulatory requirements that could alter the treatment process at the plant.

> **Electrical engineer for the San Elijo Joint Powers Authority (SEJPA), California, San Elijo Water Reclamation Facility Plan Update.** The purpose of this Facility Plan Update was to provide SEJPA with a planning document that identified and prioritized potential improvements at the San Elijo WRF. Projects were identified based on a comprehensive condition assessment of the installed assets, a review of regulatory issues and potential changes, and potential process enhancements. Additional work was performed to update the Wastewater Asset Management database previously prepared for SEJPA.

> **Lead solar feasibility analyst for the City of San Diego, California, North City Pure Water Facility Design Solar PV Evaluation.** As part of the San Diego North City Pure Water Facility design, Carollo performed a detailed technical and economic evaluation to assess the feasibility of including a 1.0MW solar PV system as part of the overall facility construction.

> **Lead solar feasibility analyst for the City of Porterville, California, Wastewater Treatment Facility Energy Alternatives Evaluation.** Carollo assessed the feasibility of constructing a 1.0-MW ground-mount solar PV array at the facility.

> **Lead solar feasibility analyst for the South Orange County Wastewater Authority (Dana Point, California) J.B. Latham Treatment Facility Energy Building Solar PV Feasibility Evaluation.** As part of a design project to implement various improvements at the J.B. Latham Treatment Facility, Carollo performed a solar PV feasibility evaluation. The evaluation assessed the technical and economic feasibility of three options to offset energy demand with solar PV technology.

> **Project manager for the Major Plant Automation Upgrades, City of Oceanside, California.** The facilities and infrastructure covered by the upgrades included two water treatment facilities, two wastewater treatment facilities, the wastewater collection system, water distribution system, and the telemetry

interconnection infrastructure. Troy was responsible for managing this system-wide project, which involved seven separate design teams responsible for developing optimized control strategies, P&IDs, networking replacement, and various control system upgrades through the City's infrastructure. He also worked with the integration subconsultant, TSI, to develop design documents, cutover approaches, and associated costs for the replacement or rehabilitation of more than 100 PLC panels throughout the City.

> **Lead electrical and instrumentation engineer for the San Clemente Water Reclamation Plant Recycled Water System Expansion Project, San Clemente, California.** The project included the replacement of the electrical distribution and process control systems associated with the existing water reclamation facilities. In addition to serving the existing facilities, the new electrical distribution and process control systems also serve new facilities designed to increase the plant capacity from 2.2 mgd to 4.4 mgd. The plant treats secondary effluent from an adjacent wastewater treatment plant for distribution as reclaimed water.

> **Project manager and lead electrical and instrumentation engineer for the City of San Diego Public Utilities District, California, Pump Stations 1 and 2 Electrical Upgrades Project.** The project consisted of replacement of medium- and low-voltage electrical equipment, including 4.16-kV switchgear and motor starters, 480-V switchgear, diesel engine generators, and motor control centers at two of San Diego's most critical raw sewage pump stations, and reconfiguring the facility control systems to monitor and control the new electrical equipment. In addition to the electrical and control system upgrades, the project also included the design of a new electrical building. The project included extensive coordination with San Diego Gas & Electric related to implementation of the new electric service for the facility.

> **Lead electrical and instrumentation design engineer for the El Estero Wastewater Treatment Plant Influent Screen Improvements Project for the City of Santa Barbara, California.** The project included the design of new influent bar screens, a screenings conveyor, and washer/compactor units and the design of electrical, instrumentation, and controls required to accommodate the new equipment installed with the project.

> **Electrical design engineer for the Sunset View Mobile Home Park Lift Station for Owen Engineering, Englewood, Colorado.** The project consisted of the design of a new sewage lift system, which included a duplex lift pump system, a utility service entrance, and a standby generator.

> **Lead electrical engineer for the P1-105 Headworks Rehabilitation Project for the Orange County Sanitation District (OC San), California.** The project included complete replacement of the existing influent facilities, including influent screening facilities, metering & diversion facilities, grit removal/ handling facilities, and odor control, to replace existing equipment at the end of service life and to increase the hydraulic capacity of the overall influent processes to 320 mgd. The project also included extensive upgrades to the electrical and controls systems, including a new 12.47kV power distribution center, and a new 10mW standby power facility.

Graham J.G. Juby, PhD, PE

Dr. Graham Juby, a vice president with Carollo Engineers, has 42 years of experience in planning, testing, and process design for water and wastewater treatment facilities, with an emphasis on water reuse. He has focused on advanced treatment processes such as low- and high-pressure membrane systems (microfiltration and reverse osmosis), nutrient removal, and the application of ozone, granular activated carbon (GAC), biological filtration, ion exchange, and ultraviolet (UV). His background in these technologies includes both pilot plant and full-scale design experience. His experience also includes many planning projects. He has also been involved with several fast-track and alternative delivery projects.

RELEVANT EXPERIENCE

> **Project manager/Principal-in-charge for the 2015 Wastewater Facilities Master Plan Update for the Eastern Municipal Water District (EMWD), California**. This assignment involved demand projections, analysis, development of trigger curves based on plant organic loading, and evaluation of new facilities needs at all four of EMWD's regional water reclamation facilities (RWRFs). Anticipated layouts for each RWRF were developed along with capital costs to take all facilities to their ultimate buildout capacities in 2060.

> **Principal-in-charge for the City of Chino Hills, California, Citywide Wastewater Master Plan Update**. Carollo developed a new wastewater model using the City's latest GIS, developed a flow monitoring plan with detailed maps, installed 13 flow meters at key locations with support from V&A, calibrated the model to provide an accurate representation of the current system, and performed QA/QC at key milestones. The flow factors were updated as part of this effort, and the ongoing water master plan was considered so that planning assumptions aligned between reports. In addition, Carollo completed CCTV on 20 miles of pipeline and performed condition assessments of the City's sewer system to develop a comprehensive understanding of the system condition and propose a rehabilitation approach to increase the useful life of the current assets.

> **Project manager for the evaluation of membrane bioreactor (MBR) technology as an alternative for expanding the capacity of Plant 3A for the South Orange County Wastewater Authority, California**. Plant 3A is currently operating at around 4 mgd with a capacity of 6 mgd. A technical and economic evaluation was performed to investigate how all or part of the plant could be retrofitted with membranes to increase the capacity to 8 mgd. Both combined aeration/membrane tanks and separate membrane tanks were evaluated and compared with a conventional plant expansion and tertiary filtration, and an expansion involving the *IMANS®* approach.

> **Project engineer for the City of Johannesburg, South Africa, on a team investigating several sludge disposal options for treatment of up to 330,000 pounds per day of dry biosolids from three of the City's largest sewage works**. Specific disposal options evaluated included composting, incineration, high-lime process, land disposal, and palletization. Evaluation was both technical and financial and included life-cycle costing. The final process chosen was composting, after which preliminary design of the sludge blending, dewatering, and dewatering

liquor treatment processes was carried out.

> **Project leader for the investigation of options for the use of biogas produced by digesters at the Goudkoppies, South Africa, sewage works and the biogas produced by a nearby landfill**. The project involved the investigation of various use options, including use in power generation, as a chemical feedstock, as fuel for the local industries, hospitals, or power stations, as an energy source for sludge drying, and as a fuel for powering motor vehicles. The investigation involved both technical and economic evaluation.

> **Process engineer for evaluating alternatives to expand the milk processing waste treatment facilities for the City of Tulare, California**. Future capacity requirements are 6 mgd of high-strength (2,000 mg/L BOD) milk processing waste. Options investigated included modification of existing pond arrangement and augmentation of anaerobic digester capacity by installing a high rate upflow anaerobic sludge blanket digester followed by polishing in the ponds. The plant also treats 6 mgd of domestic wastewater and consideration of the final blended quality in terms of total dissolved solids, electrical conductivity, and nitrogen content was included in the investigation.

> **Principal-in-charge and Project Manager for the 2019 Update of the Integrated Master Plan for the Wastewater Collection and Treatment Facilities for the City of Riverside, California**. This comprehensive master plan has a 20-year outlook and began in 2017. For the collection system, it included a condition assessment of lift stations and sewers, hydraulic modeling, age analysis, and an assessment of future flows to establish the required CIP to meet repair and replacement (R&R) and growth. The 46-mgd treatment plant evaluation also included condition assessment of selected facilities, process modeling to establish unit process capacity, consideration of potential regulations (including future total nitrogen and total phosphorous limits and salinity reduction), climate change impacts, and requirements for R&R and growth. The master plan also included a comprehensive financial plan and analysis of user rates and fees.

> **Project manager for the 2019 Water System Master Plans for East Orange County Water District, California**. The master planning effort included a 20-year outlook for both the wholesale and retail zones for the District. The project also included the preliminary design of a new replacement water treatment plant for the District, and a condition assessment of two existing reservoirs.

> **Principal-in-charge for Carollo's portion of the work for the 2015 Wastewater Facilities Master Plan Update Report for the Inland Empire Utilities Agency (IEUA), California**. This assignment involved demand projections, analysis, hydraulic modeling, and evaluation of technology needs and cost estimates for five IEUA treatment facilities through the planning horizon of 2060.

> **Principal-in-charge for the 2014 and 2024 Water System Master Plans for Mesa Water District, California**. This assignment involves demand projections, water supply analysis, hydraulic model update and calibration, extensive field condition assessment, and development of an optimization model. As part of the field condition assessment, all water system facilities (8 groundwater wells, 1 treatment plant, 2 reservoirs, 2 booster stations, and imported water connections) were visited

Rajesh B. Doppalapudi, PE, BCEE

Rajesh Doppalapudi is a civil engineer specializing in the analysis and design of water and wastewater projects. With 25 years of experience in project management and process engineering, he has contributed to numerous wastewater treatment, solids handling, and disposal projects. Over the past five years, he has managed projects with a total planned construction value exceeding $5.5 billion. His expertise in constructability and cost estimating contributes to the efficient and effective delivery of projects.

RELEVANT EXPERIENCE

> **Project manager for the Eastern Municipal Water District, California, Regional Water Reclamation Facilities Master Plan Update.** The project includes developing trigger curves to identify future facilities expansion requirements and developing annual capital expenditures for the next 30 years for the four RWRFs owned and operated by EMWD.

> **Project manager for the San Jacinto RWRF Plant 1 Rehabilitation project for the Eastern Municipal Water District (EMWD), California.** The project includes the rehabilitation of Plant 1 Aeration Basins, a new Mixed Liquor pump station, demolition of existing abandoned facilities, and other miscellaneous improvements. Rajesh oversaw the design and worked closely with the District staff to ensure the project was on time and proper QA/QC procedures were followed.

> **Master plan lead for the Wastewater Treatment Plant Program Management Services for the City of Santa Maria, California.** The project includes providing program management services for the City's wastewater treatment plant upgrades to support compliance with new effluent requirements and long-term capacity planning. The scope includes development of a 35-year wastewater master plan, analysis of percolation pond capacity and alternatives, coordination with regulatory agencies, development of a citywide outreach strategy, and oversight of program management, design, construction, and commissioning of new and upgraded facilities.

> **Process lead for the P2-136 Activated Sludge Aeration Basin Rehabilitation Project for Orange County Sanitation District, California.** The project aims to rehabilitate the existing activated sludge plant, which has been operational for more than 40 years, to extend its useful life and improve operational efficiency. Carollo is leading the rehabilitation efforts. The project involved comprehensive condition assessments and multiple shutdowns during construction to maintain safety and reliable treatment capacity. Project scope includes structural rehabilitation of aeration basins, surface aerator optimization, and improvements to the influent splitter box and purge fan room.

> **Task lead for the Eastern Municipal Water District, California, RWRF Biosolids Master Plan.** The Carollo team conducted a field condition assessment of several RWRFs. Findings were compiled in the Biosolids Master Plan to help EMWD evaluate the process changes and conditions of repairs necessary prior to implementation of a biosolids process and operations program change. The team evaluated different processes and potential impacts to EMWD's biosolids management. The project outcome is a

roadmap to diversify biosolids management, update the CIP for new solids processes, and provide a path to mitigate future biosolids management regulatory risks, including PFAS.

> **Project manager for the ongoing Eastern Municipal Water District, California, Moreno Valley RWRF Plant 2A Rehabilitation project.** The project consists rehabilitation of the Plant 2A aeration basin at MVRWRF that has been in operation for 20-years. In addition, there are other scope items, such as replacement of a portion of the 42-inch stainless steel air header for Plant 2. The project is working towards the 90-perecent design deliverable and is expected to go into construction in June 2025.

> **Design manager for the Los Angeles County Sanitation Districts, California, Valencia Water Reclamation Plant North Aeration Process Improvements.** The project includes development of full plant process and hydraulic models to identify the bottlenecks for capacity limitations. As part of final design project, the existing CaRRB tanks are being equipped with new panel diffusers and the existing north aeration blowers are being replaced with new high-speed turbo blowers. The project also includes miscellaneous improvements to optimize energy use and recover the overall secondary treatment capacity.

> **Project engineer for the Los Angeles County Sanitation Districts, California, Facilities Master Plan Update.** The project includes developing Master Facilities Plans (MFP) for treatment plants within the Joint Outfall System (JOS) including the 100-mgd San Jose Creek WRP, Long Beach WRP, Los Coyotes WRP, Pomona WRP and Whittier Narrows WRP. The ultimate goal of the MFP is to identify the CIP needs for the next 20 years and establish a road map for LACSD to address all future project requirements resulting from changes in population, regulations, aging equipment, and reuse/recycle needs.

> **Project engineer for the City of Riverside, California, Comprehensive Wastewater Master Plan.** Carollo provided an update to the City's 2008 Master Plan, including a visual condition assessment of the collection system and Regional Water Quality Control Plant. The new plan included flow monitoring, flow and process modeling, a Waste Discharge Requirements GAP analysis, development of a CIP for the collection system and treatment plant, and a financial plan.

> **Project engineer for the Orange County Sanitation District, California, 2017 Facilities Master Plan.** Carollo provided a comprehensive update to the 2009 Facilities Master Plan, including the collection system and the two Plants facilities. The project included identifying CIP projects for the next 20 years based on various end of life assessment drivers. The identified projects were then prioritized to meet OCSD's cash flow requirements. The project also included developing an estimate of the replacement value of all of OCSD's facilities.

> **Project engineer responsible for site development and bypass pumping for the Eastern Municipal Water District (EMWD), California, 2020 Warm Springs Lift Station Condition Assessment and Preliminary Design.** This fast track project involved the condition assessment of a 30-year-old active 37-mgd raw wastewater lift station and the two upstream sewers.

Alec Beyers, PE

Alec Beyers is an environmental engineer with over 5 years of experience, largely in the wastewater industry, including process and mechanical design for all areas of wastewater treatment for both new facilities and retrofits of existing facilities. Alec also has experience performing facility condition assessments for both water and wastewater treatment plants.

carollo

RELEVANT EXPERIENCE

→ **Project engineer for the David C. McCollom WTP Condition Assessment Olivenhain Municipal Water District, California.** Condition assessment of 35mgd water treatment plant. Coordination with client, staff, and subs for condition assessment. Created condition assessment report and asset condition database. Recommended projects and created project cost estimates.

→ **Project engineer/lead engineer San Elijo JPA NdN Conversion & CCB Upgrades Final Design, San Elijo, California.** San Elijo JPA NdN Conversion & CCB Upgrades Final Design. Upgrades to existing WWTP including modifications to aeration treatment process for nitrification/denitrifiation and addition of biosolids intensification process. Coordinated with prime consultant during design. Lead mechanical design engineer.

→ **Engineer for the North City Pure Water Facility Final Design, City of San Diego, California.** ESDC for new advanced water treatment plant. Redlines during construction.

→ **Engineer for the PDF Sodium Hypochlorite Storage and Feed**. Startup operations manual for new chlorination facility. Lead creation of energy control procedures for new facility.

→ **Project engineer/lead engineer for the WWTP Water Quality Project.** Upgrades to existing WWTP including modifications to aeration, new dewatering facility and secondary clarifiers. Coordination with client and subconsultants. Lead process/mechanical engineer. Conducted process modeling using BioWin software.

→ **Construction manager for the Encina WWA Digester Phase II Improvements Construction Management.** Construction Management of digester retrofit, DAFT retrofit. Lead CM meetings. Distributed RFIs/submittals and coordinated with design engineer.

→ **Project engineer for the Solvang Grant Assistance for WWTP Upgrades, City of Solvang, California.** Investigate and secure funding for $18m WWTP upgrades project. Created engineering report for USDA project funding. Coordinated with client, USDA, and subs.

→ **Owner's Advisor for the East County AWP Owners Advisor Services - Phase 2 FY23-FY26, East County, California.** Owner's advisor during construction of new WWTP, solids handling facility, and advanced water treatment plant. Drone flying to capture construction progress. Change order analysis and negotiation. Construction tracking and analysis.

→ **Project engineer for the Barstow Citywide Wastewater & Sewer Facilities Master Plan, City of Barstow, California.** Master plan for existing WWTP and sewer system. Condition and capacity analysis of existing WWTP's ability to handle future flows. Created project alternatives/solutions and cost estimates.

→ **Engineer for the Water Quality Improvements Project Business Case Evaluation, U.S Environmental Protection Agency.** Business case evaluation for feasibility of upgrading existing WWTP. Worked with discipline engineers to create project cost estimate and feasibility.

→ **Lead engineer for the Solvang Source Water Improvement Study, City of Solvang, California.** Study and provide recommendations for WWTP permit compliance for Regional Water Quality Control Board. Created compliance plan for Regional Water Board which recommended source water study. Coordinated with client and subconsultants to complete compliance activities and write tech memos detailing drinking water system. Compiled historical data and conducted analysis. Created Study Report summarizing findings, outlining project alternatives/costs, and providing recommendations for compliance.

→ **Lead engineer for the Solvang Evaluation of Los Olivos Flows on the Wastewater Treatment Plant, City of Solvang, California.** Study and provide evaluation of feasibility for potential future connection to another city's WWTP. Created study to evaluate feasibility of potential future connection to existing WWTP. Provided recommendations/requirements to do so. Board presentation of findings.

→ **Process engineer for the City of Redlands, California, WWTP Expansion Project.** Responsible for planning and process mechanical design for conversion of existing conventional activated sludge (CAS) process to membrane bioreactor (MBR) activated sludge treatment. The design included reconfiguration of the aeration basins as well as replacement of fine bubble disc diffusers and addition of coarse bubble air mixing system. Multiple technical memoranda written to address State Water Board concerns, created preliminary design report, and created process models using BioWin software.

> **Project engineer for the City of Redlands, California, WWTP Digester Improvement Project.** Responsible for emergency process mechanical design of digester sludge heater replacement to replace existing equipment that was out of compliance. Created mechanical plans, reviewed equipment submittals, and answered contractor requests for information (RFIs) during project construction.

> **Process engineer for the design of the Regional Water Recycling Plant No. 5 Expansion Project for the Inland Empire Utilities Agency, Chino, California.** Project included expansion of the existing liquids tertiary treatment train from 15 million gallons per day (mgd) to 30 mgd, as well as the addition of a greenfield solids treatment train. As the project engineer during construction, responsibilities included coordinating with design engineers, client, and construction management team to answer RFIs, review submittals, and resolve issues during construction. Led the effort to write the plant's operation and maintenance manual to capture all existing and new facilities.

> **Process engineer for the design of Upgrades and Expansion projects for the Elsinore Valley Municipal Water District Regional Water Reclamation Facility, Elsinore Valley, California.** The Upgrades Project included design of redundancy and reliability upgrades, including new solids handling building equipped with belt filter presses. The Expansion Project included design of treatment expansion from 8 mgd to 12 mgd.

Theresa L. Raasch, PE

Teri Raasch is a design manager with experience leading detailed design of new or retrofit large wastewater treatment facilities. She has provided planning, design, and construction services for clients such as the San Francisco Public Utilities Commission, Orange County Sanitation District, and City of Sunnyvale, California.

As a member of Carollo's Headworks Expert Team, she participates in concept development and technical review for headworks projects across the country. In this role, she is exposed to success stories, lessons learned, and misinterpretations about all types of headworks. She has personally designed several headworks projects with state-of-the-art systems, O&M friendly features, and customized solutions to meet her client's specific needs. She also has expertise in hydraulic analysis, and has developed hydraulic models and cost-saving hydraulic solutions for complex treatment plants across the nation.

RELEVANT EXPERIENCE

→ **Hydraulics Engineer and Assistant Project Engineer for the Primary Treatment Facility Headworks for the City of Sunnyvale, California.** This project replaces aging headworks and primary sedimentation tanks with 60 mgd capacity. She led the design of a new screening facility, grit removal basins, and a grit and screenings handling and loading facility. She also assisted with design of the new influent pump station, performed hydraulic profile calculations, and developed the engineer's construction cost estimate for those areas.

→ **Hydraulics Engineer and Grit System Project Engineer for the Southeast Plant's New 250-mgd Headworks, San Francisco Public Utilities Commission (SFPUC), California.** The project replaces two existing headworks facilities with a single new headworks to significantly increase screening and grit removal and to provide plant staff and the surrounding community with the highest level of standards for reliability, aesthetics, odor control, and noise abatement. The project addresses major challenges including very tight site space, high groundwater, poor soils, heavy urban setting, extremely high influent grit loads from this combined sewer system, and protecting SFPUC's major investment in state-of-the art solids treatment and handling facilities. Her responsibilities included design of new grit basins, grit handling, and primary influent distribution structures, hydraulic profile development and cost estimation. She also oversaw the computational fluid dynamic (CFD) and physical modeling of various hydraulic structures that confirms the innovative solutions which optimize process performance and hydraulics of the new facilities.

→ **Hydraulics Engineer for 120-Inch Diameter Ocean Outfall Condition Assessment and Scoping Study (PS18-09).** She led low flow hydraulics evaluation of the diffuser and identified mitigation measures for seawater intrusion and marine biofouling.

→ **Hydraulics engineer for the PAR 1225 South Headworks and Grease Processing Facility Improvements Project, Metro Wastewater Reclamation District, Denver.** This work involves extensive modifications to the existing screening, grit removal, and grease processing facilities for the 145-mgd South plant. She analyzed the hydraulics of the existing plant and developed a complete hydraulic profile

for the preliminary design phase of the project.

→ **Hydraulics engineer for the RP-1 Solids and Liquids Capacity Improvements project.** She was responsible for developing hydraulic profile of plant at increased capacity of 80 mgd. She was also responsible for identifying solutions for improving influent plant metering, improving screen capture, achieving primary splitting, and simplifying plant operation.

→ **Hydraulics engineer for Roberto R. Bustamante Wastewater Treatment Plant Headworks Improvements, El Paso Water, Texas.** She developed the hydraulic profile of the treatment plant at increased capacity of 120 mgd. She was also responsible for developing ideas to increase hydraulic flexibility for operations and identify hydraulic risks during construction.

→ **Hydraulics engineer for the J.B. Latham Treatment Plant Facility Plan, South Orange County Wastewater Authority, California.** The Facility Plan provided a 20-year planning window for liquid and solids treatment, flow analysis, odor control, energy management, site planning, and regulatory issues. Project duties included flow and plant capacity analysis, development and calibration of hydraulic profile, and report preparation.

→ **Hydraulics engineer and design engineer for the Wastewater Treatment Plant Upgrade Project for the City of Palm Springs and Veolia Water West Operating Services, California.** The project's tight budget incorporated necessary upgrades of the plant's headworks screenings and grit removal, primary clarifiers, primary sludge pump station, primary influent pump station, digester dome replacement, odor control, and sludge dewatering. During predesign, she assisted in developing cost-saving alternatives and configurations for the primary influent pump station, digester dome replacement, odor control, and sludge dewatering facilities.

→ **Hydraulics engineer for Valencia Water Reclamation Plant ECM, Schneider Electric, CA.** She developed plant wide hydraulic model for exploring feasibility to expand plant flow to 48 mgd and manage flow splits to meet process goals under various conditions. She identified hydraulic constraints and developed cost-saving solutions to junction boxes which simplified plant hydraulics and resulted in desired flow splits.

→ **Hydraulics engineer for San Jacinto Valley Water Reclamation Facility Plant 1 Rehabilitation, Eastern Municipal Water District, CA.** Her duties included analyzing influent flow data and developing the 23 mgd plant-wide hydraulic model to evaluate various rehabilitation alternatives.

→ **Hydraulics engineer for Equipping of Plant 2B at Moreno Valley Regional Water Reclamation Facility, Eastern Municipal Water District, CA.** Her duties included analyzing influent flow data and developing the 28 mgd plant-wide hydraulic model to evaluate new splitter box locations and option for upgraded secondary treatment processes.

Anne Conklin, PhD, PE

Dr. Anne Conklin has 28 years of experience and is an established expert in the evaluation and optimization of secondary and tertiary treatment processes, a position gained through work at treatment facilities that have, or are planning for, some of the strictest nutrient removal requirements in the nation. Over the past several years, Anne has led Carollo's process modeling and analyses for planning and improvements projects in the Pacific Northwest Region.

RELEVANT EXPERIENCE

> **Process engineer for the Central Contra Costa County, California, Master Plan.** Worked with the District to determine how to expand their current plant to meet eventual total nitrogen and phosphorous limits. Developed flow and load projections and used a calibrated model to assess the capacity of their current process.

> **Modeling specialist for the Denver Metro Wastewater Reclamation District, Colorado, South Secondary Process Capacity Evaluation.** Worked with the District to calibrate and validate their existing BioWin model. Used the calibrated model to evaluate scenarios to improve plant-wide nitrification stability, denitrification, and phosphorous removal.

> **Modeling for the Casa Grande Wastewater Treatment Plant in Phoenix, Arizona; domestic and industrial plants for Livingston, Arizona; and the Roseville and Visalia Wastewater Treatment Plants in California.** Developed calibrated process models for new and existing plants meeting stringent total nitrogen limits, including

> **Process engineer for the Water System Plan Update (2014) for the Covington Water District, Washington.** This plan included a comprehensive system analysis to evaluate the current and future systems. Identified deficiencies in pipeline, storage, treatment, and pumping capacity considering the demand changes for the planning year scenarios.

> **Process engineer for the Water System Plan Update for the City of Renton, Washington.** Included development of a 60-year demand forecast and updating and calibrating their InfoWater hydraulic model. The Plan also included a full system analysis with an evaluation of the City's pump stations, water storage tanks, and system capacity needed for both existing and future conditions.

> **Process engineer for the City of Lacey, Washington, Comprehensive Water Plan.** Developed the planning criteria, existing system analysis, and source of supply analysis for the Plan.

> **Process engineer for the City of Auburn, Washington, On-Call Services** contract that included planning, hydraulic modeling, and engineering services associated with water supply analysis, capital improvement program development and implementation, system development expansion and periodic model updates.

> **Process engineer for the City of Gig Harbor, Washington, Water Supply Evaluation.** Conducted the demand analysis for the evaluation of potential groundwater supply sites for the City to meet their long-term water supply needs.

> **Process engineer for the Covington Water District, Washington, proposed M-34 204th Ave SE 660 to 650 Zone Project** to determine the feasibility of

eliminating the failing booster pump station serving the "closed" 650 zone and replacing 650 zone service with a passive connection to their 660-zone allowing a more reliable, redundant water supply. Evaluated the potential storage impacts resulting from connecting the two pressure zones.

> **Project engineer for the City of Auburn, Washington, Comprehensive Water Plan.** Assisted the City with water demand projections, water rights management, and plans for how upgrade their well facilities and coordinate with neighboring utilities to meet their water demands through the planning period.

> **Process engineer for the City of Modesto, California, Wastewater Master Plan.** Developed a plant-wide BioWin model. Worked with the City to determine how best to meet future growth and future nutrient limits.

> **Process engineer for the City of Caldwell, Idaho, Master Plan.** Worked with the City to determine how to meet stringent phosphorous limits of less than 0.1 mg/L total phosphorous.

> **Process engineer for the City of Sunnyvale, California, Wastewater Treatment Master Plan.** Worked with the City to determine how to expand their current plant consisting of ponds and trickling filters to meet eventual total nitrogen and phosphorous limits. Developed flow and load projections along with a model of the future process. Recommended an interim split treatment approach that allowed the City to continue the use of its existing infrastructure while adding a first phase of a conventional activated sludge treatment.

> **Process engineer for the City of Turlock, California Wastewater Treatment Master Plan.** Worked with the City to determine how to meet eventual total nitrogen limits with a trickling filter / activated sludge plant. Recommended expansion of the aeration basins and clarifiers and modifications to the existing basins to allow for operation in an MLE configuration.

> **Process engineer for the City of Morro Bay, California, Capacity Evaluation for the California Men's Colony Wastewater Treatment Plant.** Evaluated the capacity of the existing California Men's Colony Wastewater Treatment Plant to determine the expansion requirements to treat wastewater from the communities of Morro Bay and Cayucos Sanitary Districts.

> **Process engineer for the Clackamas County Water Environment Services Willamette Master Plan, Oregon.** The facilities master plan included the development of a 20-year capital plan that identifies improvements to the District's Kellogg Creek and Tri-Cities facilities and associated conveyance infrastructure to provide the best value to WES ratepayers by maximizing the use of existing infrastructure and optimizing system operation while continuing to protect water quality and human health and support economic development. This effort will also include resiliency planning.

> **Process engineer for the Wastewater Facility Plan for the City of Wilsonville, Oregon.** The project includes the development of a long-range wastewater master plan for the Wilsonville Wastewater Treatment Plant by completing evaluations and analysis of the existing building and treatment processes and evaluation of long-term expansion needs.

Rashi Gupta, PE

Rashi Gupta, a vice president and project manager with Carollo Engineers, has specialized in delivering sustainable solutions for biosolids management and wastewater treatment throughout her career. Rashi is Carollo's Wastewater Practice Director, which allows her to remain current on leading wastewater technologies including changes within the biosolids management field.

Her responsibilities as project manager and process specialist on solids-related projects across the country have taken her from the initial planning phase through design to start-up after construction. She also leads applied research projects for solids processes to assess the best ways to integrate innovation into facilities. From this experience, Rashi has become a national expert in all things related to solids – from thickening and dewatering to digestion and subsequent practices to beneficially use biogas and biosolids. A summary of her experience includes:

RELEVANT EXPERIENCE

> **Technical advisor for the Process Master Plan for the Encina Wastewater Authority, California.** Assisted team with evaluation of the Omnivore process for increased digester capacity at the plant and reviewed master plan for technical accuracy.

> **Project engineer for the Biosolids Master Plan for the Fresno Clovis Wastewater Reclamation Facilities in Fresno, California.** This project includes a capacity assessment of solids treatment processes, evaluations of technologies to achieve a diverse portfolio of biosolids, investigation of local markets for different classes of biosolids, and determination of potential regulatory changes that could affect the plant. Rashi is responsible for solids system capacity assessment and evaluations of solids processing technologies.

> **Subject matter expert/solids system lead for the WIFIA-funded RP-1 Liquid and Solids Capacity Recovery Project for the Inland Empire Utilities Agency in Chino, California.** Her responsibilities include oversight of the preliminary and final design of the multi-phase digestion system and new solids thickening facilities that will provide solids treatment capacity for the equivalent of 60-mgd influent flow to the plant. Preliminary design included evaluation of various digester mixing and heating systems, and final design includes incorporation of the new system elements into the plant's existing solids processing systems. Project elements include new acid-phased digesters, rotary drum thickening for separate or co-thickening of primary and waste activated sludge, rehab of dissolved air flotation thickeners for scum thickening, rehabilitation of existing digesters, new boilers and heating system modifications, and acid digester gas treatment for hydrogen sulfide removal.

> **Project engineer for the Co-Digestion and Digester Gas Utilization Feasibility Study for the Inland Empire Utilities Agency, California.** This study included estimation of external feedstock available in the Agency's service area and projections of associated digester gas production. Rashi conducted the evaluation and developed the subsequent report for the City.

> **Project manager for City of Palo Alto Long Range Facilities Plan Update, California.** Wide-ranging project includes assessment of biosolids management options, regulatory risks,

improvements to workspaces, assessments of existing facilities, and development of cost allocation among member cities. Ms. Gupta is managing this work.

> **Alternatives analysis task lead for the 2020 Energy Management Master Plan at the Nine Springs Wastewater Treatment Plant operated by the Madison Metropolitan Sewerage District, Wisconsin.** This project includes assessment of the plant's existing energy baseline within its solids processes, and evaluation of alternatives to reduce energy consumption, increase energy production, and increase resource recovery. Rashi completed a review of the plant's complex heat loops, heat demands, and heat supply systems and recommended improvements for a more reliable, simpler heating system. Rashi led the team responsible for conducting alternatives analyses.

> **Carollo's project manager for the RWRFs Biosolids Master Plan for the Eastern Municipal Water District, California.** The master plan includes assessments of the existing solids systems for the District's four RWRFs, evaluations and recommendations for solids processing and management options to address uncertainty in regulations and land application viability, planning level layouts, consideration of regional processing options, development of capital and operating costs, and production of a Capital Improvements Plan.

> **Technical advisor for the Sacramento Regional County Sanitation District, California, Biosolids Recycling Alternatives Study and Management Plan Update.** Carollo was selected to provide a long-term biosolids management plan for reuse and recycle of biosolids while reducing Sacramento's risks and costs. In addition to conventional economic and non-economic analyses, project included a market analysis to help the District identify biosolids products that would be acceptable to the market.

> **Technical advisor for the Ironhouse Sanitation District, California, Biosolids Master Plan.** Carollo evaluated various management options for the utility, including consideration of resilience to sea level rise and regulatory uncertainty.

> **Project engineer for the Facilities Master Plan for the Central Marin Sanitation Agency, California.** Rashi is responsible for an assessment of current digester capacity, estimation of additional FOG and food waste that could be accommodated at the facility, projections of additional digester gas production, planning level modifications to add capacity at the existing FOG/Food Waste Receiving Facility, and recommendations for modifications to the current dewatering system.

> **Project manager for the Plant Solids System/Capacity Assessment (Phase 1) project at the Union Sanitary District, California, Alvarado Wastewater Treatment Plant.** This project included a capacity assessment of all solids treatment processes, optimization of existing processes, and planning-level recommendations for additional solids processes required to reach the plant's permitted capacity. The project also included evaluations of technologies to achieve Class A biosolids, investigation of options to achieve energy neutrality, and determination of potential regulatory changes that could affect the plant.

Dana J. Gonzalez, PhD, PE

Dr. Dana Gonzalez is a Principal Technologist at Carollo Engineers with over a decade of experience in wastewater treatment, biosolids management, water reuse, and PFAS strategy. She serves as Carollo's California PFAS Lead and is known for delivering regulatory insight and operationally grounded solutions to complex treatment challenges.

Her expertise spans startup and optimization of advanced technologies including thermal hydrolysis (THP), sidestream nitrogen removal, struvite recovery, FOG receiving, and aerobic biosolids curing. She has supported SCADA strategy development, process control tuning, flow measurement improvements, and regional biosolids planning for utilities across the U.S.

Dana has led PFAS fate and transport studies, regulatory response planning, and public communication efforts. She has authored peer-reviewed research on PFAS behavior in wastewater, biosolids, and potable reuse systems, and has guided utilities in developing cost-effective, compliance-ready approaches to emerging contaminants.

RELEVANT EXPERIENCE

> **Project engineer for Southern California Regional Biosolids Coalition Feasibility Study Phase I.** Leading Task 3 of a multi-agency regional biosolids feasibility study involving 15 participating utilities. Task focuses on integrating governance structure, public outreach, and alternatives evaluation to identify the top three combinations of location and technology for a potential regional facility. This in-progress effort aims to build consensus among stakeholders to support long-term regional biosolids management solutions.

> **Process engineer for Water Reclamation Facility Facilities Plan Update, City of Bend, Oregon.** Led solids capacity assessment and alternatives analysis for biosolids and biogas reuse, including Class A biosolids production and beneficial biogas utilization. Helped the facility evaluate strategies for managing high-strength waste and supported optimization of digester flow schemes to enable flexible maintenance and cleaning operations.

> **Project engineer supporting the Joint Powers Authority, California, East County Advanced Water Purification Program.** The project focused on evaluating biosolids management options and developing an adaptive Biosolids Roadmap that provides flexibility in response to the uncertain regulatory landscape surrounding land application. Conducted a comprehensive assessment of various technologies, considering both capital and operational costs alongside non-economic criteria,
with a specific emphasis on PFAS resilience, to enable the facility to fully evaluate and plan for the most suitable management strategies.

> **Process engineer for Spring Street Wastewater Treatment Plant Upgrades, City of Klamath Falls, Oregon.** Supported process optimization and integration of new treatment systems to improve plant reliability and prepare for potential future nutrient limits. Led sampling strategies to support process modeling and provided process analysis, operator

training, startup assistance, and control system tuning to ensure smooth commissioning and enhanced performance.

> **Process engineering consultant for LA Sanitation & Environment (LASAN), Hyperion Advisory Panel, City of Los Angeles.** Working with LASAN process engineering and operations staff to troubleshoot and optimize treatment processes at the Hyperion Treatment Plant, with current emphasis on primary treatment, thickening, and dewatering. Contributing to overall plant performance improvements and providing informal mentoring to early-career professionals. Hyperion treats approximately 275 MGD on average and has a rated wet weather flow capacity of up to 740 MGD.

> **Struvite technical lead and Plantwide Strategy Advisor, Additional Digester Facility Upgrade Project for the City of San José, California, San José-Santa Clara Regional Wastewater Facility.** Led a plantwide struvite assessment to identify sources of scale formation and develop near- and long-term mitigation strategies across treatment processes. Provided technical guidance during the digester upgrade project, including root cause analysis of heat exchanger fouling and design recommendations to minimize future struvite impacts and enhance operational performance.

> **Project engineer for the preliminary design of a Desalter Complex Bypass Treatment Facility for Eastern Municipal Water District (EMWD) in California**, focused on evaluating the most cost-effective solutions to meet water quality goals and reliably comply with PFAS MCLs.

> **Technical lead for process troubleshooting and optimization at Hampton Roads Sanitation District (HRSD), Virginia.** Collaborated with operations and maintenance teams to resolve treatment upsets at high-rate and advanced BNR plants. Used SCADA trends, field, and lab analyses to identify root causes across processes such as nitrification, denitrification, phosphorous removal, CEPT, dewatering, anaerobic digestion, sidestream treatment, digester gas reuse, disinfection, and THP. Provided biosolids management guidance and ensured compliance with regulatory and reporting requirements

> **Lead process engineer – Thermal Hydrolysis Process Startup, Hampton Roads Sanitation District (HRSD), Atlantic Treatment Plant (ATP), Virginia.** Led startup of North America's first Cambi B6-4 THP facility, expanding solids handling capacity and enabling reliable Class A biosolids production. This strategic upgrade allowed closure of an older treatment plant constrained by Chesapeake Bay nutrient limits and set the foundation for long-term solids management planning.

> **Lead process engineer – Seasonal Sidestream Nitrification, Boat Harbor Treatment Plant (BHTP), Virginia.** Led seasonal startup and operation of a sidestream nitrification process to aerobically degrade cyanide in scrubber water recycled from the plant's sludge incinerator. This effort supported main plant nitrification during warmer months, when cyanide levels could otherwise inhibit nitrifiers. Coordinated closely with operations, maintenance, and engineering staff to ensure smooth transitions and reliable performance. Developed detailed training materials to support consistent operations across all shifts for this non-standard process configuration.

Andrew T. Salveson, PE

Andrew Salveson is an internationally recognized expert in water reuse treatment and regulations, providing guidance on potable reuse and reclaimed water purification. Since 1998, he has contributed to projects ranging from less than 1 mgd to more than 300 mgd, serving on teams across the United States and offering specialized expertise in Europe, the Middle East, Asia, and Australia. Salveson is a valued contributor to expert potable reuse regulatory panels for NWRI, WHO, and WRF in California, Nevada, New Mexico, and Colorado, as well as international efforts with WHO and Israel and national initiatives with NWRI. With nearly 30 years of experience, he has been involved in every phase of potable reuse projects, including planning, research, design, startup, program management, permitting, and public engagement.

RELEVANT EXPERIENCE

> **Program management technical support and manager of permitting efforts for the City of Morro Bay, California, Our Water Pure Water Project.** This indirect potable reuse system is the first membrane bioreactor (MBR)/RO/UV advanced oxidation process (AOP) system in California. Carollo's is the Owner's Advisor, overseeing the design-build team. Andy's role includes providing direct oversight of technical issues with the DB team, leading the permitting, and providing startup support.

> **Program management technical support and manager of permitting efforts for the City of Morro Bay, California, Owner's Advisory and Permitting Services.** Morro Bay is implementing a 1-mgd indirect potable reuse (IPR) system to secure a sustainable water future while upgrading and relocating critical wastewater infrastructure. Carollo's role is to oversee the AWPF DB team comprised of 10 firms, address surrounding infrastructure and groundwater issues, and permit the future potable reuse facility. The $126 million project includes construction of a new 1.0-mgd membrane bioreactor, collection system improvements, injection wells for groundwater augmentation, and an IPR system, making it the first MBR/RO/UV AOP system in California.

> **Project manager for the City of Napa, California, Purified Water Feasibility Study.** Andy has managed the feasibility planning for DPR in Napa, including treatment, infrastructure, regulations, interagency agreements, and NPDES discharge.

> **Project manager for the Laguna County Sanitation District, California, Conversion of the NPR Reclaimed Water System to an Indirect Potable Reuse project.** Work efforts have included treatment analysis, groundwater injection and transport modeling and analysis, interagency partnerships, RO concentrate discharge analysis, and basin plan compliance.

> **Process and regulatory support for the for the Dublin San Ramon Services District, California, UV System Capacity Evaluation and Bioassay Testing.** Original startup, commissioning, and CA Title 22 engineering report permitting of the UV system and later for the analysis and design upgrades to enhance capacity for that same UV system.

> **Design technical support and project manager for startup and operations for the Las Virgenes Municipal Water District (LVMWD)/Triunfo Joint Powers Authority, California, Pure Water**

Demonstration Project. Looking to a future with surface water augmentation for potable reuse, Las Virgenes hired Carollo to design, permit, operate, and provide public engagement for a permanent 100-gpm demonstration facility. Work also included architectural services (through project partners), and construction support, startup, and training services.

> **Process and regulatory engineer for the City of Pismo Beach and South San Luis Obispo County Sanitation District (SSLOCSD), California, Central Coast Blue Pilot Testing and Predesign.** As a result of recent droughts, Pismo Beach and the SSLOCSD, along with the cities of Grover Beach and Arroyo Grande, and the Oceano Community Services District, initiated this 1-mgd indirect potable reuse project. Its goal is to improve the reliability of the community water supply by capturing wastewater flows from two local WWTPs, purifying the water, and injecting it into the groundwater basin. Carollo is working with a regional partner (WSC) to develop the project, including treatment systems, infrastructure, and regulatory components. Andy's efforts have focused on the design, startup, and testing of a 12+ month demonstration system; assistance with education and outreach and developing a PDR—all of which have significantly advanced the AWPF process design and equipment preferences for this effort.

> **Technical advisor for the San Francisco Public Utilities Commission, California, Treasure Island Recycled Water Plant Expansion.** Carollo was retained to address aging infrastructure, confirm regulatory compliance, and satisfy wastewater and recycled water needs for future development.

> **Process engineer for the City of Ojai, California, Evaluation of UV System Performance and Troubleshooting.** The project included evaluation of flow dynamics, sedimentation of solids with high bacteria counts, upstream filtration performance, UV capacity analysis, sampling protocols, and UV system cleaning protocols.

> **Technical and regulatory lead for the validation of the Aquatecture WaterPod Decentralized Water Reuse Treatment System.**

> **Process design and regulatory lead for the City of Fresno, California, North Fresno WRP UV Design, Startup, Commissioning, and CA Title 22 Engineering Report Permitting.** The project's UV system was used to disinfect water for Title 22 applications.

> **Technical and regulatory lead for the San Francisco Art Institute (with El Dorado Inc.), and the Fort Mason Center for Arts and Culture, San Francisco, California, Rainbow Onsite Non-potable Water Reuse Predesign project.** Evaluation of advanced treatment systems, permitting, and the Basis of Design Report for decentralized non-potable reuse at the Fort Mason Center for Art and Culture.

> **Regulatory and process engineer for the City of San Diego, California, Pure Water Potable Water Reuse Design.** This 35-mgd project represents the first potable water reuse via surface water augmentation in the State of California. The $400-million North City Pure Water Facility will feature a proven five-step water purification process of ozonation, BAC filters, membrane filtration, RO, and UV disinfection with advanced oxidation.

Ann M. Casey

Ann Casey is the Service Delivery lead for the Strategic Management Group, which includes solutions for Asset Management, Organizational Management, and Technology Optimization. She has over 31 years of experience working with operational, managerial, and financial aspects of water, wastewater, and energy utilities. Her comprehensive expertise leverages industry best practices and advanced techniques to provide utilities the balance of risk and capital while continuing to provide the service expected by their customers.

RELEVANT EXPERIENCE

> **Asset management task lead for the Olivenhain Municipal Water District (OMWD), California, David C. McCollom Water Treatment Plant (DCMWTP) Facility Plan.** In addition to projecting future demand to serve the plant, the project included the development of asset management risk criteria, evaluation of the INFOR CMMS system, recommendations for optimization of INFOR, near and long-term risk-based prioritized capital plan, renewal and replacement planning, and electronic master plan tool. The electronic master plan, called Plan-IT will allow OMWD to update the projections annually based on normal asset aging and unanticipated asset replacement. This allows for a "living CIP" that OMWD can continue to use after the project's completion.

> **Project manager and asset management lead for the California Water Service Group, California, Strategic Asset Management Plan.** Carollo worked collaboratively with Cal Water staff to perform a gap analysis, develop a strategic vision, improve the asset definition and hierarchy, update business risk protocols and capital planning practices, and prepare the SAMP. Additionally, our team worked with Cal Water to pilot condition assessment protocols.

> **Task manager and asset management lead for the Tualatin Valley Water District, Oregon, Willamette Water Supply Program - CMMS Selection Support and Implementation Oversight.** Carollo conducted a gap analysis and, once completed, supported the solicitation of CMMS vendors and implementation partners. Carollo is currently serving as implementation oversight and asset management best-practices subject matter expert while the program is being configured and implemented to coincide with construction. Carollo's role will make sure the software implementation aligns with asset management best practices and delivers on the vendor promise.

> **Condition assessment lead and asset management subject matter expert for the Clackamas County Water Environment Services (WES), Oregon, Willamette Facilities Plan.** The Plan developed a 20-year capital plan that identifies improvements to the District's Kellogg Creek and Tri-Cities facilities and associated conveyance infrastructure to provide the best value to WES ratepayers by maximizing the use of existing infrastructure and optimizing system operation while continuing to protect water quality and human health and support economic development. Ann led the tasks to complete condition assessment for the Kellogg Creek and Tri-Cities plants, which was incorporated into the overall Facilities Plan in subsequent project tasks.

> **Technical advisor for the Cape Fear Public Utility Authority, North Carolina, Innovyze® InfoMaster Implementation to manage a large amount of collection system asset and condition data.** The project involves the development of a risk framework to prioritize rehabilitation and replacement projects and the development of business process strategies to manage and integrate the condition assessment data with the organization's other databases.

> **Asset management technical lead for the City of Houston, Texas, Northeast Water Purification Plant Expansion – Owner's Advisor.** The project involved better understanding the capital and operational needs of the existing facility over the next 20 years. Key tasks included completing a condition assessment and business risk exposure profile for the facility's assets to ensure the ability to meet the established levels of service to the community. The project ultimately will provide the City with information to make better informed long-term decisions on alternatives for treatment plant operations.

> **Project manager for the City of Aurora, Colorado, Griswold Water Purification Facility Asset Management Plan.** Ann is currently leading a project team to develop a comprehensive Asset Management Plan for the Griswold Plant as part of the system-wide Total Asset Management Plan for the Utility. Key tasks anticipated to complete the project include the condition assessment to understand the current state of the plant, establishing levels of service, developing risk protocol, and understanding business risks, resulting in O&M strategies and a long-term funding strategy.

> **Project advisor and QA lead for the Union Sanitary District, California, Alvarado Wastewater Treatment Plant Asset Condition Assessment and Update.** Served as Project Advisor to the team to update the asset condition and refine asset replacement costs from the 2006 Master Plan and 2009 Master Plan Update for the Alvarado Wastewater Treatment Plant facilities. The project supported the utility leadership to set the course for managing asset risk and optimizing asset investment into the future.

> **Program advisor for the Dallas Water Utilities, Texas, Water Delivery Comprehensive System Assessment and Update.** Ann is currently serving as Program Advisor and Condition Assessment Lead to complete a comprehensive system assessment and update for the City of Dallas Water Delivery System. This assessment is expected to address projected water demands; aging infrastructure; service reliability, water quality, security, water loss, and recommendations for applications/procedures to maximize operation efficiency.

> **Partner-in-charge for the Madera Irrigation District (MID), California, Asset Management Gap Assessment and Capital Improvement Program Development.** In this ongoing project, Carollo will assist MID in the evaluation of its existing practices, technologies, and data, to develop a framework for a robust asset management business practice. The framework will be used to define risk protocols and evaluate the District's critical assets by applying those protocols. Following this evaluation, Carollo will develop a risk-based prioritized capital improvement plan for the next five years to efficiently plan near-term annual funding needs.

Norman E. Anderson, PE, CISSP, GICSP

Norm Anderson is an electrical, instrumentation, and controls (I&C) engineer. With 23 years of experience, he has been providing secure and reliable SCADA, physical and cyber security, I&C, and electrical solutions for water, wastewater, and environmental projects in both the public and private sectors. He is skilled in the planning, design, commissioning, and management of highly technical automation projects and excels at developing innovative solutions to complex challenges. Additionally, Norm specializes in industrial control system network security and has previously served as the SCADA manager for a municipal utility, where he faced the challenges of maintaining/expanding automation and communication systems firsthand.

RELEVANT EXPERIENCE

> **Instrumentation & controls engineer for Tampa Bay Water, Florida, Lake Bridge Water Treatment Plant Pump No. 4.** Provided project oversight for the I&C design of the addition of pump no. 4 to the Lake Bridge WTP. The design included a new variable frequence drive (VFD), integration of VFD into the existing control system, pump instrumentation, and upgrade of the existing high service pump station PLC.

> **Project engineer for the City of Delray Beach, Florida, Baffle Walls and 4-log Chemical Feed, ESDC.** This project is for the ESDC for the baffle wall, 4 log chemical system and SCADA.

> **Electrical and I&C engineer for the JEA, Jacksonville, Florida, Oakridge WTP High Service Pump Replacement.** Carollo provided engineering services to upgrade the Oakridge Water Treatment Plant High Service Pump Station. The project is to provide the design to replace six high-service pumps, motors, and associated suction and discharge valves and piping, electrical system upgrades, piping for Well No. 1, auxiliary generator and transfer switch, high-service pump building renovation, site work, maintenance of operations during construction, and incorporating resiliency requirements. Engineering services include the final detailed design, permitting, bid phase assistance, and engineering support services during construction.

> **Project engineer for the City of Altamonte Springs, Florida, Process Aeration Evaluation and Gravity Thickener Rehabilitation.** City operations staff observed that the process aeration blowers cannot provide the necessary airflow when the two types of blowers are operated at the same time; however, it was anticipated that this limitation would be resolved on completion of the blower improvements project that was in final design. As the flow and load to the ASRWRF increased to the permitted 12.5mgd there was a need for additional blower capacity. Additionally, the two existing gravity thickeners, constructed over 30 years ago, needed rehabilitation to maintain their functionality.

> **Project engineer for the City of Boynton Beach, Florida, Oceanfront Park Wastewater Treatment Facility Design.** Carollo provided design and construction management for the upgrades to a packaged rotating biological contactor (RBC) plant.

> **Project manager for Sarasota County, Florida, Pump Station 1 and 4 Improvements and Water Transmission Main.** Carollo was retained to provide professional engineering services for the electrical and instrumentation and controls (EI&C) improvements to two existing water pump stations: 1) Pump

station #1 located near the intersection of Lockwood Ridge Road and University Parkway 2) Pump station #4 located off Lakewood Ranch Blvd near University Parkway. The EI&C improvements generally consisted of the installation of a new standby generator system, new instrumentation, and improvements to the control and supervisory control and data acquisition (SCADA) system.

> **Network design engineer for the City of San Diego, California, North City Pure Water Facility.** The project involved design of a new 40-mgd direct potable reuse facility consisting of ozone, membrane filtration, reverse osmosis, and BAC filtration major processes. The control system was based on an Emerson Ovation DCS having Allen-Bradley remote programmable logic controller (PLC)s and Ethernet instrumentation networks, and valve networks. The plant network design included a fiber optic ring backbone for control, security, and building management networks connecting into a City-wide network system. The design also included two control rooms with video walls and video and audio switching systems.

> **Lead electrical and I&C engineer for the City of Maitland, Florida, SCADA Upgrades project.** The project involved expanding the City's SCADA system to cover their water treatment plants. Design included the development of piping and instrumentation diagrams (P&IDs) and electrical drawings for the installation of new SCADA Pack-based remote terminal units (RTUs) and cellular communications.

> **Lead I&C engineer for the Central Arkansas Water Authority, Arkansas, Ozark Point Water Treatment Plant (WTP) Rehabilitation Improvements Project.** The project involved upgrading CAW Ozark Point WTP flocculation and sedimentation systems and upgrading flash mix, filter, and pumping systems. New Allen-Bradley programmable logic controllers (PLCs) and fiber optic communications were added as a part of the project and upgrades to the existing Inductive automation ignition system were incorporated.

> **Lead electrical and I&C engineer for the Polk County Utilities, Florida, Cherry Hill Water Production Facility Design.** The project involved a new regional water production facility design, including raw water wells, storage, high-service pumping, sodium hypochlorite disinfection, and standby generator systems. The electrical design included new utility feed and plant switchgear with power distribution to building and process systems, the design of a new standby generator system, and site lighting and grounding systems. I&C design included instrumentation selection, SCADA system design, CCTV design, network design, control logic development, and construction support and testing services.

> **I&C engineer for the Polk County Utilities, Florida, Central Regional WPF.** Provided I&C design and construction support services for a 4 mgd WPF that included raw water wells, Ozone treatment, GAC filtration, and sodium hypochlorite disinfection processes. I&C systems included instrumentation, control panels, network and communications infrastructure, control logic, SCADA system components, CCTV systems, and interfaces with intelligent paralleling switchgear.

> **Project manager for the City of Plant City, Florida, Hydrosol Water Treatment Plant 5 Electrical Design Improvements.**

Shawn Corrigan, CEM, ABCP, ENV SP

Shawn Corrigan is a certified emergency manager and crisis management professional with 27 years of experience in emergency management and response for numerous industries, including water and wastewater, wildfire, public health, nuclear (firefighting, emergency management, and security), marine search and rescue, education, and consulting.

carollo

RELEVANT EXPERIENCE

> **Senior consultant for various US Cities, American Water Infrastructure Act (AWIA), Risk and Resilience Reviews.** Technical support for the following projects requiring Risk and Resilience Assessments (RRA) and Emergency Response Plan (ERP) updates to support compliance with AWIA 2018:

- Central Arkansas Water, Arkansas
- Covington Water District, Washington
- Dallas Water Utilities, Texas
- City of Edmond, Oklahoma
- Eugene Water and Electric Board, Oregon
- Highline Water District, Washington
- Medford Water Commission, Oregon
- Mount Werner Water & Sanitation District, Colorado
- North Harris County Regional Water Authority, Texas
- Orange County Utilities, Florida
- City of Porterville, California
- City of Redlands, California
- City of Round Rock, Texas
- City of San Diego, California
- Sonoma County Water Authority, California
- South Island Public Service District, South Carolina
- Stillwater, Oklahoma
- City of Tempe, Arizona
- Tualatin Valley Water District, Oregon
- Ventura County Waterworks District No. 8, California
- City of Yuma, Arizona

Each project leverages previous experience with security and resilience-related projects, specific AWIA tools, federal agency tools, and local hazard mitigation plans and tools to develop and implement a well-planned, systematic approach–tailored to each organization for efficient completion within the regulatory deadlines for AWIA compliance.

> **Principal-in-charge for the City of Simi Valley, California, RRA & ERP.** Carollo partnered with the Simi Valley to update its RRA and ERP in compliance with the 2018 AWIA. This effort applied a holistic approach to hazard assessment, risk management, and emergency planning—making sure that the District's water system is prepared for both natural events and malevolent threats.

> **Principal-in-charge for the City of Redlands, California, RRA & ERP Updates.** Carollo was engaged by the City of Redlands to conduct a comprehensive RRA and ERP update in accordance with the 2018 AWIA. The assessment addressed a full spectrum of physical, operational, and cyber risks to strengthen the reliability and resilience of the City's water system.

> **Senior consultant for the City of San Diego Public Utilities Department, California, Disaster Recovery Plan (DRP).** The DRP offers guidance on transitioning from response to recovery procedures. The plan is designed to complement the Department's Continuity of Operations Plan (COOP) and to set up both short and long-term planning strategies for rebuilding and revitalizing affected assets. Key components of the plan encompass identifying issues and risks, organizing training and exercise activities, specifying personnel and their roles, establishing communication protocols, outlining required resources to support the plan, addressing funding, incorporating risk management principles, and providing a comprehensive concept of operations for recovery actions.

> **Senior consultant for the County of Maui Department of Water Supply (DWS), Hawaii, Damage Assessment.** In August 2023, the Town of Lahaina faced significant devastation due to a fire, resulting in damage to critical infrastructure, including the water delivery system. This project aimed to catalog water system assets and evaluate the extent of the damage. Substantial time was dedicated to on-site activities involving documenting damages and validating GIS representations of the system against real-world conditions. After the assessment, the assets were inventoried, and replacement costs were estimated.

> **Study leader for the DC Water, Washington DC, Hazard and Operability Study (HAZOP).** Employing a "parameter first" approach, this study utilized the HAZOP standard to systematically identify and assess potential hazards and operability issues related to DC Water's Blue Plains Filter Rehabilitation project. The facilitation process employed a creative process, encouraging team members to anticipate possible scenarios and their consequences. After the facilitation, a comprehensive report was generated, offering recommendations to be incorporated into the design process.

> **Exercise director and lead facilitator for the City of Tempe, Arizona, Water Utility Department, Arizona, Emergency Management Exercise.** Shawn supervised the design and development of an exercise and played a key role in facilitating its execution. The focus of this exercise was on hazards identified in the Utility's vulnerability assessment. It created a realistic, simulated environment for staff, offering them an opportunity to test and navigate through their recently revamped emergency management plans. The exercise served to validate the effectiveness of the plans in addressing the Utility's specific risk profile.

> **Senior consultant for the Capital Regional District (CRD), Victoria, British Columbia, Multi-Stakeholder and First Nations FireSmart Committee (FSC).** The goal of the project was to establish and lead the FSC. Fire Smart emphasizes using seven disciplines to lessen the effects of wildfire, including education, vegetation management, legislation and planning, cross-training, interagency planning, development considerations, and emergency planning. The Regional Fire Smart Committee aims to provide a coordinated landscape-level approach to community wildfire resilience across the CRD.

Christopher L. Loving, PE

Chris Loving is a principal electrical engineer and is Carollo's Community of Practice leader for electrical system studies. He has extensive experience in electrical and instrumentation design and construction management for both water and wastewater treatment facilities. He also has in-depth knowledge of short circuit studies, protective device coordination and arc flash studies and can perform electrical system studies in ETAP, SKM, and EasyPower. His projects typically have involved extensive coordination with other disciplines, understanding and incorporating plant operator input, and wide-ranging integration with existing facilities. Many projects have included detailed and complex construction sequencing plans to minimize plant downtime.

RELEVANT EXPERIENCE

> **Electrical and instrumentation design of Panther Creek Wastewater Treatment Plant for North Texas Municipal Water District.** The project included addition of a primary and secondary clarifier, aeration basins, odor control, sludge pumping, and a UV system. Design included one-lines, motor control center elevations, standby power generation studies, conduit routing, and switchgear.

> **Lead electrical design engineer for the Hancock County Utility Authority, Mississippi, Northern Regional Wastewater Treatment Plant design project.** The plant consisted of multiple electrical rooms to support the septage receiving station, influent/effluent pumping stations, closed vessel UV disinfection, in-line post aeration, and solids processing.

> **Electrical engineer for the City of Prescott, Arizona, Airport Water Reclamation Facility Expansion.** Carollo assisted in approximately 65 percent of the design. This Phase 1 was 3.75 mgd capacity, with the phased expansion of the facility planned for an ultimate capacity of 15 mgd. Because this Phase 1 expansion included a process change (from the existing oxidation ditches to activated sludge BNR) this project was essentially designing the first phase of a new treatment facility.

> **Electrical and I&C engineer for the Hi-Desert Water District, Yucca Valley, California, Collection System Phase 1.** Carollo provided design and construction support for the complete collection system of the $95 million Phase I Wastewater Reclamation Project. Phase 1 included 77 miles of collection system piping ranging from 6 to 24 inches in diameter, three lift stations, ten separate jack-and-bore installations across Caltrans right of way at SR 62 and 247, and replacement of more than 78 miles of roadway.

> **Lead electrical engineer for the City of Las Vegas, Nevada, WPCF Filtration Building Miscellaneous Improvements.** The project involved preparation of design documents to upgrade the Filtration Building at the WPCF facility. Improvements included a ultrasonic level sensors, pump VFDs, filter level transmitters, flowmeters, butterfly valves, pressure switches, flow transmitters, hoists on the propeller flowmeters, roof modifications, filter control panels, and general filter building paint and window improvements.

> **Electrical engineer for a sludge pump station project at Duck Creek in Garland, Texas.** Project included extensive investigation of existing facilities to re-feed power to existing pump station as well as new pump station as well as integration of new

distributed control system in plant's existing network.

> **Electrical and instrumentation engineer for the design and construction support of a 1.1-MW cogeneration system for the City of Hayward, California, Wastewater Treatment Facility.** Project consisted of developing construction documents for a 1.1-MW digester gas-fueled reciprocating-engine-based cogeneration system. System included installation of a single engine with space for a second unit, all appurtenant equipment, fuel treatment equipment, emission control equipment, and all electrical interconnection equipment.

> **Electrical and instrumentation engineer for the design and construction support of a 650 kW cogeneration system for the South Orange County Wastewater Authority Latham treatment plant, California.** Project included extensive coordination with two other consultants performing work on the same construction documents including the service entrance gear being designed by others. Project included utilizing custom standards for the I&C design documents

> **Electrical and instrumentation engineer for the design of an 846 kW cogeneration system for the South Orange County Wastewater Authority Regional treatment plant, California.** Project includes extensive utility coordination and developing California Rule 21 documentation and assistance with the utility interconnection agreement. The design includes all new switchgear and several other pieces of distribution gear. Extensive integration with the existing electrical distribution system was required and a detailed temporary power plan/construction sequence was developed as a part of this project.

> **Construction management during construction of PAR 942 North Secondary Improvements for the Metro Wastewater Reclamation District, Denver, Colorado.** The project included renovation of the secondary aeration basins, secondary clarifiers, new CaRRB basins, and electrical switchgear structures. Construction responsibilities included submittal reviews, design changes, and as-built drawings.

> **Electrical design engineer for the Upper Trinity Regional Water District, Texas, Riverbend Water Reclamation Plant Improvement project.**

> **Electrical and instrumentation design engineer for the New UV Facility at Floyd Branch for North Texas Municipal Water District.** Project consisted of three UV channels rated at 5 mgd with two banks each. Design of the UV equipment was specifically engineered to be open to multiple manufacturers with horizontal or vertical systems with alternative bids for other types. A 50KW standby generator was designed to supply the UV equipment in case of plant power failure.

> **Lead electrical engineer and project engineer for a series of electrical upgrade project at the City of Simi Valley, California that includes pre-design, design, and engineering services during construction associated with the replacement of 480-volt switchgear and motor control centers that comprise the power distribution system at the City of Simi Valley's Water Quality Control Plant.**

Mark Seal, PE

Mark Seal is a versatile and experienced leader of engineering and fabrication teams in the design, build, and commissioning of water treatment systems at all phases of the project life cycle.

RELEVANT EXPERIENCE

> **Lead I&C Engineer for the SCADA Network Design, Sonoma County Agency.** Evaluate the existing SCADA network and develop standards and recommendations to upgrade the existing SCADA network based on industry best practices.

> **I&C Support for the Vacuum Station No. 61 and 64 MCC and PLC Replacement, Albuquerque Bernalillo County Water Utility Authority, New Mexico.** Upgrade existing vacuum station MCC, electrical, and controls hardware. Provide an arc flash study on this equipment as part of the upgrade.

> **I&C Support for the Primary Clarification 14 Odor, Albuquerque Bernalillo County Water Utility Authority, New Mexico.** Worked with the customer to recommission legacy controls wiring for existing VFDs. As needed, markup electrical schematics, recommend additional hardware and software changes to bring desired inputs/outputs into the existing control system.

> **I&C Support for the North City Pure Water Facility Final Design, City of San Diego, California.** Onsite construction support, submittal review.

> **Senior engineering manager for Xylem Water Solutions.** Led a multi-discipline project execution team of 11 engineers to successfully create mechanical and electrical deliverables, manufacture custom treatment solutions, and commission them for operation across a variety of industries-power generation, mining, municipal, refining, and chemicals. Achieved record financial performance - FY2023 project execution team increased EBITDA 185% over target, Orders 215% over target, Revenue 160% over target. Developed engineering estimates for proposals, reviewed contracts, and led procurement processes.

> **Controls engineer for Enterprise Automation.** Developed HMI screens, PLC code, and custom SSRS reports as part of a control system upgrade

Christian Tasser, PE

Christian Tasser has 23 years of experience in water and wastewater projects as research and design engineer, as well as project manager. Christian Tasser has managed various upgrades and expansions of industrial and municipal water/wastewater and biogas plants. He has experience in Europe and the United States working on food waste to energy facilities. Christian Tasser has served in many roles including project manager, project engineer, and most recently the lead on industrial biogas plants operations and startup of the Inland BioEnergy plant in Chino, which includes a renewable natural gas project for truck fueling funded by California Energy Commission. Christian Tasser has managed various upgrades and expansions of Industrial and Municipal water/wastewater and biogas to RNG upgrading facilities.

RELEVANT EXPERIENCE

> **Senior engineer for the Sweetwater Authority, California, Robert A. Perdue Water Treatment Plant Facilities Master Plan Update.** Carollo completed a detailed condition assessment plan and investigation to create an overall asset list for installed equipment at the plant, including structural, mechanical, electrical, and instrumentation assets. The project also includes process improvement evaluations to explore safer use of chemicals on site; replaces the aging clearwell facility; improves chemical handling, conveyance, and mixing; upgrades the intake structure to reduce manpower needed for operational tasks; and assesses potential regulatory requirements that could alter the treatment process at the plant.

> **Lead engineer for the Inland Empire Utilities Agency RP-1 Liquid & Solids Capacity Recovery Project.** Evaluated mixing technologies for upgrading seven existing digesters and designed the expansion of the boiler system and heat loop upgrades to provide digester heating for a 61-mgd plant, as well as the digestion system expansion with three new acid phase digesters, selecting cost-effective options that met O&M needs.

> **Lead engineer for the Metro Water Recovery PAR 1395 Cogeneration Equipment Replacement.** Carollo led the PAR 1395 Cogeneration Equipment Replacement project, replacing outdated cogeneration infrastructure with biogas upgrading equipment to remove siloxanes, separate methane, and compress RNG into Xcel Energy's natural gas pipeline. The project involved demolishing the existing cogeneration system and plant boilers, designing and integrating a new boiler facility to provide heating to the plant's 12 digesters, building heat, grease heat loops, and a new amine gas upgrading system. The integration of four new boilers and associated heat loops into the existing system required meticulous planning to maintain continuous heating and ensure operational efficiency during construction.

> **Project manager for the City of San Diego Energy Master Plan including Point Loma, Metropolitan Biosolids Center and pumps station #2.** Selected, developed preliminary design, and life cycle cost analysis for biogas cogeneration up to 5 MW, biogas upgrading to pipeline injection including landfill gas from Miramar at 4000 scfm and hydrogen & battery energy storage. Modeling with solar PV and energy microgrid software tools including HOIMER (by NREL) and Helioscope for solar power generation evaluations.

> **Project engineer for the PICO Energy located in Jerome, Idaho, a dairy manure biogas project designed for Montauk Renewables LLC.** The

project design included two large digesters with a volume of 1.8 million gallon each and associated manure receiving, processing, and digester mixing and heating facilities to upgrade biogas to renewable gas for injection in the existing Intermountain pipeline.

> **Project engineer for the City of Riverside, California, Bio-Methane Utilization, which was part of the City's effort to comply with California's organic waste diversion regulations and provide a plan for future digester gas utilization.** The project evaluated digester gas yields with the addition of food waste in Digester No. 5 and utilization of additional digester gas. Carollo provided recommendations for digester gas handling systems and implementation of digester gas treatment and upgrading for use in fuel cells, vehicle fueling onsite, and injection to the SoCal gas pipeline.

> **Project engineer for the City of Riverside, California, Food Waste Evaluation for Digester No.** 5. Carollo reviewed the condition of Digester No. 5 based on a structural inspection and drone videos to determine the cost for required digester upgrades. Digester capacity was evaluated to accept 100 tons per day of food waste from local waste haulers. Determined overall costs for the receiving station for food waste processing and digester feeding and costs of digester and mixing system retrofits.

> **Lead engineer for the Eastern Municipal Water District, California, Advanced Anaerobic Digestion of Municipal Biosolids, which used a two-stage acid-phase pre-digestion process.** Christian Tasser completed the preliminary design report. This evaluation showed an increased digester gas production and higher volatile solids destruction with reduced sludge disposal costs.

> **Project manager for evaluation of various digester gas treatment technologies for industrial and municipal digesters, including those for food-waste-to-energy projects.** One instance was for the San Bernardino Municipal Water District: Christian Tasser evaluated digester gas utilization, treatment, and life-cycle costs to determine the ideal digester gas treatment and options for beneficial reuse.

> **Christian Tasser evaluated various food waste pre-treatment technologies from the United States and Europe, including DODA bioseparators, Scott's Machine, and hydropulpers to produce a bio-slurry for anaerobic digestion.** Christian Tasser retrofitted the manure digesters to be operated solely on food waste by upgrading the mixing system from vertical shaft mixing to Landia pump mixing.

> **Lead engineer for the California Energy Commission (CEC) funded project for biogas to CNG upgrading at the Chino Facility to provide fueling for trash hauling trucks.** Christian Tasser selected, designed, and procured the Evonik membrane upgrading system for 100 cfm of digester gas for a demonstration project funded by CEC. He managed the CEC project and additional funding applications through the Marine Spill Response Corporation and Air Quality Management District's Clean Fuel Fund.

> **Lead permitting engineer for the Air Quality Management District and CEQA permits for a CNG upgrading station at the Chino Facility in California to provide truck fueling for trash hauling.**

Mathew Esquer, PE

Mathew Esquer is a structural engineer with Carollo Engineers specializing in wastewater and water treatment plant design and engineering services during construction. He has extensive experience in designing wastewater treatment facility structures in accordance with current standards and building codes. He has also worked on seismic evaluations of structures and design of retrofit and rehabilitation projects. He has reviewed structural shop drawings and responded to requests for information (RFIs) in regard to construction issues. His experience includes:

RELEVANT EXPERIENCE

> **Design structural engineer for the J. B. Latham Package B rehabilitation project for the South Orange County Wastewater Authority J. B Latham Treatment Plant in Dana Point, California**. The project included rehabilitation of various structures throughout the plant. Design responsibilities included concrete repair and coating of influent and effluent channels and clarifiers, repair of DAF Tanks and replacement of the DAF mechanisms, addition of wall anchorage and replacement of roofing at Digester Control Buildings and various safety improvements throughout the plant.

> **Design structural engineer for the Terminal Island Water Reclamation Plant Advanced Water Purification Facility (AWPF) Ultimate Expansion Project for the City of Los Angeles, Bureau of Engineering, California.** Carollo teamed with Walsh Construction on this design-build project. The structural design included a rectangular 2.1-million-gallon equalization tank that is elevated above grade and constructed with cast-in-place concrete walls, an elevated slab, columns, and a mat foundation. The tank is constructed over a site that has stone column ground improvements to mitigate the liquefaction potential. The design also included microfiltration and reverse-osmosis process slabs with large steel-framed canopies.

> **Evaluation engineer for the Seismic Resiliency Program and AK Warren Seismic Evaluation for Los Angeles County Sanitation Districts in Carson, California.** The scope of work included the development of a seismic evaluation program to be applied to the Districts' facilities, including 72 structures at the AK Warren WRF following ASCE 41 and ACI 350 procedures. Structures evaluated included process buildings, basins, digesters, surge towers, and solids storage facilities. The scope of work also includes the development of conceptual mitigation and risk scoring to prioritize identified mitigation projects.

> **Design structural engineer for the P2-136 Activated Sludge Aeration Basin Rehabilitation Project for the Orange County Sanitation District, California.** The project aims to rehabilitate the existing activated sludge plant, which has been operational for more than 40 years, to extend its useful life and improve operational efficiency. Carollo is leading the rehabilitation efforts. The project involved comprehensive condition assessments and multiple shutdowns during construction to maintain safety and reliable treatment capacity. Project scope includes structural rehabilitation of aeration basins, surface aerator optimization, and improvements to the influent splitter box and purge fan room.

> **Design structural engineer for the Moreno Valley RWRF Plant 2A**

Rehabilitation project for Eastern Municipal Water District, California. The project consists of the rehabilitation of the Plant 2A aeration basin at MVRWRF that has been in operation for 20 years. In addition, there are other scope items, such as replacement of a portion of the 42-inch stainless steel air header for Plant 2. The project is working towards the 90-perecent design deliverable and is expected to go into construction in June 2025.

> **Design structural engineer for the San Jacinto RWRF Plant 1 Rehabilitation project for Eastern Municipal Water District, California.** The project includes the rehabilitation of Plant 1 aeration basins, a new mixed liquor pump station, demolition of existing abandoned facilities, and other miscellaneous improvements.

> **Design structural engineer for the Moreno Valley RWRF Plant 2B Equipping Preliminary and Final Design for Eastern Municipal Water District, California.** The project consists of preliminary and final design for facilities needed to equip the Plant 2B aeration basin at MVRWRF and included process modeling using a partially calibrated BioWin model to estimate the treatment capacity of the Plant 2B aeration basin. Carollo also completed a condition assessment of Plant 2A and Plant 1 and developed construction sequence and phasing recommendations to reduce impacts to facility operations. Carollo identified improvements to the future operation of Plant 2A and other affected facilities, including secondary clarifiers and RAS pump station, as well as the timing of those improvements.

> **Design structural engineer for Hilo Wastewater Treatment Plant Digestion, Solids Handling and Headworks Improvements for the County of Hawaii, Hawaii.** Carollo designed new septage receiving station, headworks and associated support facilities, sludge blending tanks, anaerobic digesters, digester control building, waste gas flare, rehabilitating primary influent channel and primary gallery. The completed project will expand the treatment capacity from 5 to 13 mgd and provide provisions for future expansion to 20 mgd.

> **Design structural engineer for the Plant 1 (P1-105) Headworks Rehabilitation and Expansion for Orange County Sanitation District, California.** Carollo led the design of a major upgrade for the Plant No. 1 headworks and associated facilities. This project involved repairing, refurbishing, replacing, and upgrading the Plant 1 headworks facilities to an advanced level of service, while also performing a complex retrofit of critical facilities that must remain in service throughout construction. When finished, the Plant 1 Headworks, with a peak capacity of 320-mgd, will operate reliably for at least another 20 years. This will then require only routine maintenance and operator attention.

> **Design structural engineer for the 250-mgd San Francisco Public Utilities Commission, California, Southeast Plant Headworks.** Design responsibilities included new headworks building with influent junction area, mechanical and electrical rooms, fine screen and screenings handling areas, grit tank and handling buildings. The structure is an above-grade concrete structure two to three stories tall. Some of the structural challenges include irregular shear wall distribution, multiple transfer girder conditions, poor soil conditions, soil structure interaction analysis, and corrosion potential of soil.

Cynthia A. Thung-Carter, PE, LEED

Cynthia Thung-Carter, a LEED-certified mechanical engineer, has provided 20 years of design and construction support services for water and wastewater treatment plant and infrastructure projects. Her experience includes all phases of project implementation and her specialized experience includes pump stations, odor control, HVAC, plumbing, renewable energy, standby power, surge tank systems, air compressor systems, and hot water heating system design.

RELEVANT EXPERIENCE

> **Mechanical engineer for the condition assessment project at the David C. McCollom Water Treatment Plant, owned and operated by Olivenhain Municipal Water District (OMWD).** The Plant is a critical asset to OMWD and the main source of water delivery service to its constituents. This condition assessment project was conducted to manage and plan effectively for this most important asset ensuring that the assets are maintained and planned for rehabilitation and replacement at appropriate times. For data gathering, the project used CarolloAM—which is preconfigured with specific assessment criteria and scoring matrices and preloaded with an export from OMWD's asset management database. Her responsibilities included the assessment of the hydroelectric turbines as well as HVAC and plumbing systems at the plant. In addition to evaluating current field conditions, the condition scoring included asset criticality, historic performance, and replacement value as a measurement for the Plant's overall risk-based capital and operations projections for the next decade.

> **Design engineer for the final design of the San Francisco Public Utilities Commission (SFPUC), California, Southeast Plant Headworks project.** The new $400 million project replaces two existing headworks facilities with a single new 250-mgd headworks to significantly increase screening and grit removal and to provide plant staff and the surrounding community with the highest level of standards for reliability, aesthetics, odor control, and noise abatement. The project addresses major challenges including very tight site space, high groundwater, poor soils, heavy urban setting, and extremely high influent grit loads from this combined sewer system. Her responsibilities included the design of the Influent Pump Station including odor control for the facility. The pump station was designed for 51 mgd and required an innovative approach to seismically retrofit the existing deep influent pumping area and convert the existing dry pit pump station to a new submersible pump station to reduce project costs and optimize the use of space on the constrained site. The design employs innovative solutions to optimize process performance and hydraulics, confirmed through computational fluid dynamic (CFD) and surge analysis.

> **Mechanical engineer for the San Bernardino Municipal Water Department's East Lift Station Downscaling project, San Bernardino Municipal Water District, California.** The project evaluated the most efficient operation for managing a reduction in untreated wastewater at the San Bernardino Water Reclamation Plant. The study included flow data analysis and a condition assessment of the existing 36-mgd screw pump lift station.

> **Mechanical engineer for the San Elijo JPA NdN Conversion & CCB**

Upgrades final design project, San Elijo Joint Power Authority, California. This project includes biological upgrades at the San Elijo Water Campus along with the addition of aeration blowers. Her responsibilities included a condition assessment and the design of the HVAC system at the Blower Building, including the blower facility, RAS/WAS pump station, and electrical room to support the planned project modifications.

> **Mechanical engineer for the Trunk Line Odor Control Improvements Project (P1-123) for the Orange County Sanitation District, California.** This project provided an aesthetic solution to increase capacity and residence time of the odor scrubbers treating foul air from influent sewers, lift stations, and a waste hauler facility. The design included two low-profile, horizontal, roughing bioscrubbers, with a capacity of 38,000 cfm, used to pretreat foul air before being conveyed to the plant's chemical scrubber facility. The project also included the design of new plastic air driven pumps for pumping low pH condensate from the air jumpers in the Plant's surrounding community and air jumper manhole modifications.

> **Mechanical engineer for the Arrowhead Pump Station Backup Electrical Pump System Project for the San Bernardino Municipal Water Department, California.** The project replaced the two digester gas and two natural gas fueled internal combustion engines driving the pumps at the Arrowhead Pump Station with electrical motors. The replacement was in response to newer South Coast Air Quality Management District and California Air Resources Board regulations for biogas-fueled internal combustion engines. Her responsibilities included the design of a vertical non-clog, dry-pit, 200-hp, 13,500 gpm pump at the pump station.

> **Mechanical engineer for the Low Lift Pump Station Security Improvements Project for the City of Yuba City, California.** This project included mechanical and electrical improvements to the pump station. She was responsible for the design of the ventilation system for the pump room/generator room.

> **Mechanical engineer for the Primary Effluent Pump Station as part of the PAR 1085 South Secondary Improvements Project for the Metro Wastewater Reclamation District, Colorado.** The primary effluent pump station is designed to convey a peak wet weather flow of 269 mgd with five pumps in service and one pump as standby. The pump station consists of a splitter structure with two wet wells, vertical non-clog centrifugal pumps with composite drive shafts, 450-hp medium voltage vertical motors with variable frequency drives, and a 15-ton overhead bridge crane system. The design also includes a physical hydraulic model study of the wet well and pump intake piping to verify acceptable hydraulic conditions at the pump and a CFD model study of the wet wells and pump suction. She also designed the HVAC and plumbing systems for various process areas, electrical buildings, control rooms, and wet lab. Her responsibilities included routing utilities throughout the various facilities, natural gas piping layout for the HVAC units, design of an air compressor system including compressed air piping layout throughout the plant, and construction cost estimates.

ATTACHMENT B
NON-COLLUSION AFFIDAVIT

The undersigned declares:

I am the _Vice President_ of _Carollo Engineers, Inc._, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 10/7/2025 [date], at Orange County [city], CA [state].

Signature: _____

Title: _Jeffrey Weishaar, PE / Vice President_

carollo.com

Prepared for
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

J.B. LATHAM TREATMENT PLANT

FACILITY PLANNING ASSESSMENT EFFORT

FEE PROPOSAL / **ENG-25-04** / OCTOBER 2025

carollo®

South Orange County Wastewater Authority

J.B. Latham Treatment Plant Facility Planning Assessment

Carollo Fee Estimate

	Hourly Billing Rate	$335.00	$335.00	$310.00	$357.00	$245.00	$205.00	$185.00	$160.00			$16.50		
Task No.	TASK DESCRIPTION	PIC	Project Manager	Lead Engineer	Senior Engineer	Project Professional	Project Engineer	CAD/Graphic Designer	Clerical	TOTAL HOURS	LABOR FEE	Project Equipment and Communication Expense [PECE] (per labor hour)	Other Direct Costs (ODCs)	TOTAL PROJECT FEE
1.0	**Project Management and Progress Meetings**	**29**	**58**	**20**	**22**	**6**	**56**	**0**	**8**	**199**	**$57,429**	**$3,284**	**$3,500**	**$64,388**
1.1	Project Control Plan	1	8				16		8	33	$7,575	$545		$8,120
1.2	Kick-Off Meeting	1	2	2	4		4			13	$3,873	$215		$4,088
1.3	Monthly Progress Meetings (12)		12	6	6	6	12			42	$11,952	$693		$12,645
1.4	Board Meetings (3)	3	12	12	12		24			63	$17,949	$1,040	$3,500	$22,664
1.4	Project Management and QAQC	24	24							48	$16,080	$792		$16,872
2.0	**Existing Facilities Evaluation**	**6**	**70**	**22**	**26**	**18**	**250**	**36**	**24**	**452**	**$107,722**	**$7,458**		**$115,180**
2.1	Existing Facilities Descriptions		8				24	24		56	$12,040	$924		$12,964
2.2	Review Existing Reports & Models		4	2	2	2	16			26	$6,444	$429		$6,873
2.3	Flow & Loading Analysis													
2.3.1	Historical Flows & Loads		4				24			28	$6,260	$462		$6,722
2.3.2	Projected Flows & Loads		8				32			40	$9,240	$660		$9,900
2.3.3	Flows & Loads Workshop		2		4		6			12	$3,328	$198	$750	$4,314
2.3.4	Flows & Loads Tech Memo	2	8				32		12	54	$11,830	$891		$12,721
2.4	Existing Facilities Analysis													
2.4.1	Establish Planning & Design Criteria		4				8			12	$2,980	$198		$3,178
2.4.2	Hydraulic Cacpacity Analysis		2	4			12			18	$4,370	$297		$4,667
2.4.3	Process Model Configuration		2		4		12			18	$4,558	$297		$4,855
2.5	Condition Assessment		12	8	8	8	36			72	$18,696	$1,188	$4,500	$24,609
2.6	Existing Facilities Workshop		4		8		8			20	$5,836	$330	$800	$7,006
2.7	Existing Facilities Tech Memo	4	12	8		8	40	12	12	96	$22,140	$1,584		$23,724
3.0	**Wastewater Treatment Alternatives**	**6**	**102**	**132**	**182**	**52**	**346**	**32**	**24**	**876**	**$235,504**	**$14,454**	**$2,750**	**$252,846**
3.1	Identify Treatment Alternatives													
3.1.1	Liquid Treatment Alternatives (4)		16		24	12	64			116	$29,988	$1,914		$31,902
3.1.2	Solids Treatment & Disposal Alternatives (4)		16		24	12	72			124	$31,628	$2,046		$33,674
3.1.3	Evaluate EI&C Systems		4	12			12			28	$7,520	$462		$7,982
3.1.4	Evaluate Energy recovery Facilities		8	12			12			32	$8,860	$528		$9,388
3.1.5	Support Processes & Facilities		4			8	12			24	$5,760	$396		$6,156
3.1.6	Site Planning Evaluations		12	8			24	24		68	$15,860	$1,122		$16,982
3.1.7	Treatment Alternatives Workshop		4	6	6		16			32	$8,622	$528	$1,250	$10,463
3.1.8	Treatment Alternatives Tech Memo	4	8	8	8		48	8	16	100	$23,236	$1,650		$24,886
3.2	Risk & Resiliency Planning Elements													
3.2.1	Resiliency Adaptation Planning		8	40	24	8	42			122	$34,218	$2,013		$36,231
3.2.2	Vulnerability Planning		8	40	24	8	32			112	$32,168	$1,848		$34,016
3.2.3	Evaluate Regulatory Scenarios	2	8		40					50	$17,630	$825		$18,455
3.2.4	Risk & Resiliency Workshop		4	4	8	4				20	$6,416	$330	$1,500	$8,321
3.2.5	Risk & Resiliency Tech Memo		2	2	24		12		8	48	$13,598	$792		$14,390
4.0	**Effluent Utilization Evaluation**	**6**	**28**	**36**	**60**	**8**	**126**	**12**	**16**	**292**	**$76,540**	**$4,818**	**$1,500**	**$82,933**
4.1	Effluent Utilization Evaluation (3)	4	16	24	40		54	12		150	$41,710	$2,475		$44,185
4.2	Effluent Utilization Evaluation Workshop		4	4	8		8			24	$7,076	$396	$1,500	$9,047
4.3	Effluent Utilization Evaluation Techn Memo	2	8	8	12	8	64		16	118	$27,754	$1,947		$29,701
5.0	**Project Alternatives**	**4**	**36**	**44**	**4**	**4**	**128**	**16**	**16**	**252**	**$61,208**	**$4,158**	**$2,500**	**$67,991**
5.1	Develop Project Alternatives		8	12	4		24			48	$12,748	$792		$13,540
5.2	Evaluate Project Alternatives (4)	2	16	16			40	16		90	$22,150	$1,485		$23,635
5.3	Project Alternatives Workshop		8	8		4	24			44	$11,060	$726	$2,500	$14,411
5.4	Project Alternatives Tech Memo	2	4	8			40		16	70	$15,250	$1,155		$16,405
6.0	**Facility Planning Assessment Report**	**6**	**24**	**40**	**16**	**16**	**96**	**0**	**36**	**234**	**$57,522**	**$3,861**		**$61,383**
6.1	Administrative Draft Report	2	4	8			24		12	50	$11,330	$825		$12,155
6.2	Draft Report		16	24	16	16	48		16	136	$34,832	$2,244		$37,076
6.3	Final Report	4	4	8			24		8	48	$11,360	$792		$12,152
	TOTAL	**57**	**318**	**294**	**310**	**104**	**1,002**	**96**	**124**	**2,305**	**$595,925**	**$38,033**	**$10,250**	**$644,720**
	OPTIONAL TASK													
7.0	**Staffing Analysis**	**4**	**12**	**64**	**36**	**0**	**40**	**8**	**16**	**180**	**$50,292**	**$2,970**	**$0**	**$53,262**
7.1	Staffing Analysis	4	12	64	36		40	8	16	180	$50,292	$2,970		$53,262
	TOTAL: BASE + OPTIONAL	**61**	**330**	**358**	**346**	**104**	**1,042**	**104**	**140**	**2,485**	**$646,217**	**$41,003**	**$10,250**	**$697,982**

Assumptions

- Carollo will update existing hydraulic and process models previously developed.
- Process descriptions will include process. Flow diagrams were necessary P&ID drawings will not be developed.
- Meetings include one (1) kick-off meeting, twelve (12) progress meetings, and six (6) staff workshops. Meetings will be held virtually with workshops in-person.
- Three (3) board meetings, also in-person will be prepared and delivered by Carollo.
- Monthly invoices will include progress reports identifying work completed work expected for the following month and any issues or concerns related to scope, schedule or fee.
- Site plans will be developed utilizing existing site layouts modified to show new facilities.
- Future changes to flow and Lowe's will be provided by SOCWA member agencies.
- Available useful life generated for process areas will be general in nature as a more detailed asset inventory and assessment would be required to provide exact estimates.
- SOCWA will provide previous reports in drawings available.
- SOCWA will provide 3-5 years of process data for evaluation of flows loads and process performance. Data not available will be identified by Carollo for future sampling needs.
- Review of electrical systems will include all implant facilities up to and including the utility transformer. Offsite energy distribution and delivery assessment is not included. The need for upgraded or additional incoming power will be provided.
- Site layouts will be provided for four liquid and solid treatment train evaluations each.
- Up to three (3) effluent utilization alternatives will be developed.
- Up to four (4) combined project alternatives will be developed.
- Technical memoranda final drafts will be combined to develop the administrative draft of the Facility Planning Assessment report.
- The draft Facility Planning Assessment Report will include an executive summary of all chapters.
- No survey is included.
- No geotechnical borings or utility potholing is included.
- No technical specifications or drawings are included.
- Training and or licensing for process or hydraulic modeling software is not included.

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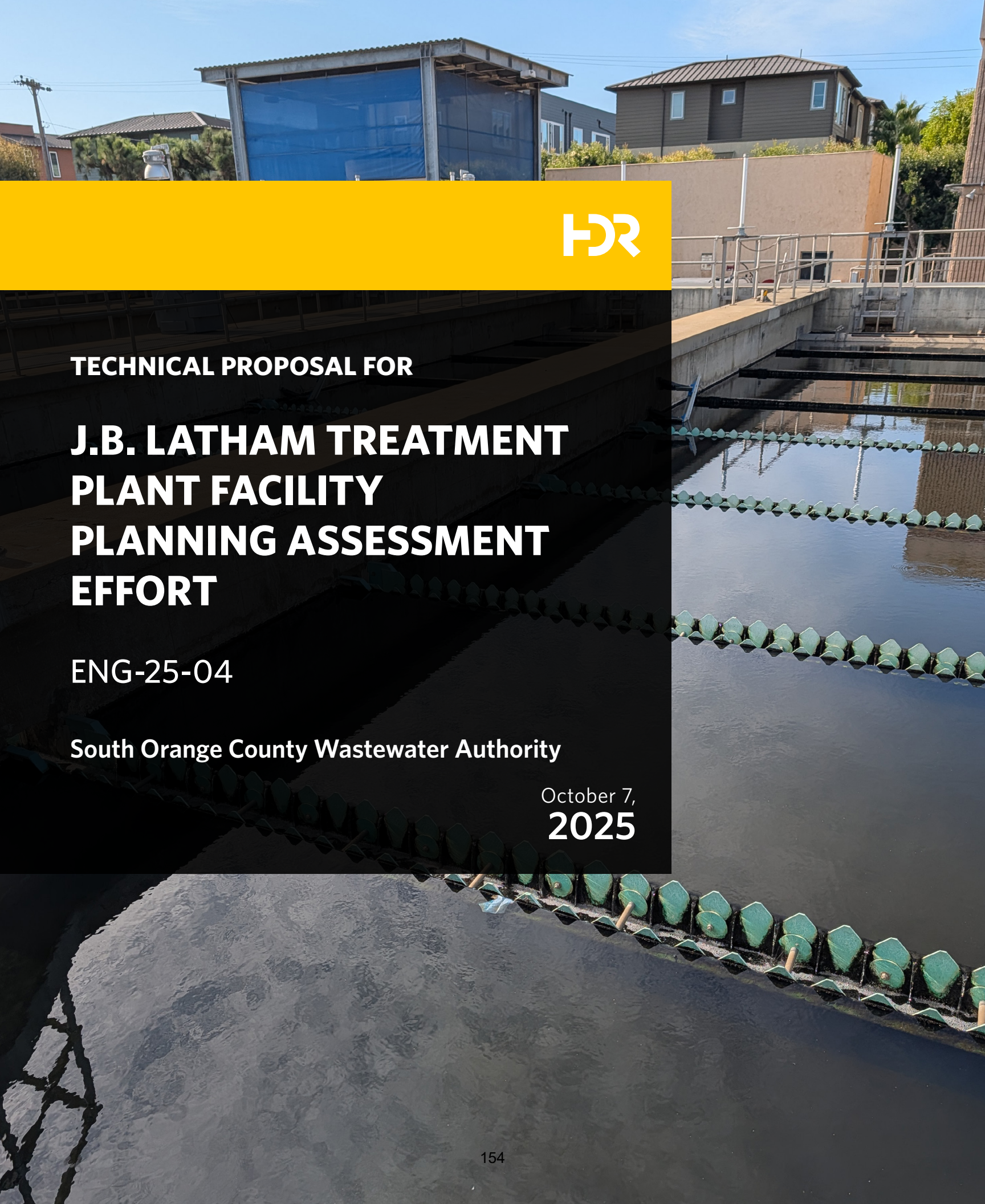


TECHNICAL PROPOSAL FOR

J.B. LATHAM TREATMENT PLANT FACILITY PLANNING ASSESSMENT EFFORT

ENG-25-04

South Orange County Wastewater Authority

October 7,
2025

October 7, 2025
South Orange County Wastewater Authority
Administration Building
34156 Del Obispo Street
Dana Point, CA 92629

Attn: Ms. Roni Young Grant, PE, Capital Improvement Program Manager

RE: Technical Proposal for Engineering Services for the J.B. Latham Treatment Plant Facility Planning Assessment Effort, ENG-25-04

Dear Ms. Grant and Selection Committee Members,

The J.B. Latham Treatment Plant (JBLTP) is a critical component of south Orange County wastewater management, and serves as the last line of defense prior to ocean discharge. The plant must reliably treat a range of flows and loadings that vary from normal dry conditions, successive storm events, and discharges/diversions from upstream water recycling plants. With the recent restructuring of South Orange County Wastewater Authority (SOCWA) Project Committee 2 (PC2) Member Agencies, we understand the importance of performing this Facility Planning Assessment (FPA) Effort at the JBLTP to assess the existing plant, analyze current and projected flows and loads, identify possible beneficial reuse opportunities, and evaluate treatment alternatives to develop an optimized and resilient plan for JBLTP's future.

The HDR Engineering, Inc. (HDR) team is excited to propose on this project. We are confident that we will be successful partners with you in executing the FPA because we bring the following key benefits:

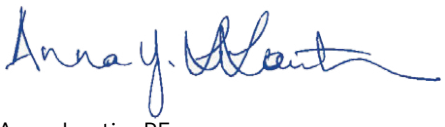
A Dedicated, Local Team with Recent and Relevant Experience. Project Manager **Amy Omae** tailored this team to include the same staff that provided similar facility assessments and master planning services for the Santa Margarita Water District, Irvine Ranch Water District, Camarillo Sanitary District, and West Basin Municipal Water District. Task Leads **Gregorio Estrada, Alice Wang, and Jacquelin Mutter** have worked with Amy for years and are committed to helping PC2 Member Agencies achieve your goals for JBLTP.

Collaboration as a Core Value in Project Delivery. We recognize that SOCWA and PC2 Member Agencies may already have some ideas for potential solutions, and we look forward to hearing them. Solutions must be mutually-beneficial for all parties and provide regional benefits. This requires collaboration, open discussions, and partnership to align individual goals. Our Task Leads are masters of their craft in providing and facilitating collaborative approaches for stakeholder engagement and obtaining buy-in.

Technical Experts to Provide Innovation and Facilitate Decisions. Our team will engage industry-leading treatment experts, like Gregorio Estrada, Teigan Gulliver, JB Neethling, Mike Falk, and Tyler Mach, to identify solutions, discuss the benefits and challenges, and guide conversations by providing a realistic gauge on its feasibility and avoid common planning pitfalls. Prompt and informed decision-making is vital to the successful completion of this project, particularly considering the several alternatives evaluations anticipated for treatment (liquids and solids), effluent management, and the overall plant.

We look forward to the opportunity to collaborate with you on this important and challenging project that will shape the future of JBLTP. If you have any questions, please contact our proposed Project Manager Amy Omae at 714.730.2344 or at Amy.Omae@hdrinc.com. She will be your point of contact for this project. We appreciate your consideration and look forward to hearing from you.

Sincerely,
HDR Engineering, Inc.



Anna Lantin, PE
Vice President, Authorized Signatory

Amy Omae, PE
Project Manager

HDR has maintained professional liability insurance in force continually since 1958 for the protection of clients and us. For this project, HDR will maintain the required insurance levels that is needed. We acknowledge receipt of Addendum 1 and 2 of the RFP in the Appendix.

3220 El Camino Real, Suite 200, Irvine, CA 92602-1377
T 714.730.2300 **F** 714.730.2301

TABLE OF CONTENTS

01 Identification of Responder

Identification of Responder

Founded in 1917, HDR, an employee-owned firm, has over 14,000 employees in over 225 offices worldwide, making us one of the nation's leading consulting firms. Having expanded to eight Southern California offices since 1959, HDR has become a key player in the business landscape of the area.

Our advanced expertise covers the full cycle of water management, from water supply to treatment; all manners of conveyance and storage; sewer conveyance, water reclamation and biosolids treatment; and end use and outfalls. Our in-depth understanding of and experience with various regulatory, environmental, and geographic conditions enable HDR professionals to plan and design easily operable, cost-effective facilities that meet the needs of our clients and communities and follow local, state, and federal requirements.

The HDR project team is ready and able to hit the ground running.

- Cost Estimation
- Civil Engineering
- Planning Studies
- Water, Recycled Water, and Wastewater Treatment
- Facility Rehabilitation, Replacement, Upgrade, and Expansion
- Hydraulic Modeling
- Regulatory and Permitting
- Asset Management, Condition and Corrosion Assessment

HDR'S SOUTHERN CALIFORNIA OFFICES

Irvine
3220 El Camino Real
Suite 200
Irvine, CA 92602

Los Angeles
350 S. Grand Ave.
Suite 2900
Los Angeles, CA
90071

San Diego
591 Camino de la Reina, Suite 300
San Diego, CA
92108

Riverside
2280 Market St.
Suite 100
Riverside, CA
92501

Long Beach
100 Oceangate
Suite 1120
Long Beach, CA
90802

San Diego DT
401 B. Street
Suite 1110
San Diego,
CA 92101

Claremont
431 W. Baseline Rd.
Claremont,
CA 91711

Ventura
200 E Santa Clara St., Suite 220
Ventura, CA
93001

Legal Name and Address of Company:
HDR Engineering, Inc.
3220 El Camino Real,
Suite 200
Irvine, CA 92602

Legal Form of Company:
Corporation

Parent Company:
N/A

Principal Place of Business:
3220 El Camino Real,
Suite 200
Irvine, CA 92602

Proposal Contact:
Amy Omae, PE
Design/Project Manager
3220 El Camino Real,
Suite 200
Irvine, CA 92602
(714) 730-2344
Amy.Omae@hdrinc.com

107+ YEARS IN BUSINESS

14,000+ EMPLOYEES
225 OFFICES WORLDWIDE

Ranked No.6
TOP 500 DESIGN FIRMS
2025 ENGINEERING NEWS-RECORD

Ranked No.7
SEWER & WASTE
2025 ENGINEERING NEWS-RECORD

TODAY, WE HAVE MORE THAN
700+
EMPLOYEES THROUGHOUT CA, INCLUDING NATIONAL EXPERTS

HDR'S CALIFORNIA PRACTICE OPENED IN
1959

300+
employees in the Southern California area

YOUR PROJECT WILL BE MANAGED OUT OF OUR IRVINE OFFICE.

02 Approach of the Work

Approach of the Work

UNDERSTANDING

This is HDR's understanding of the project goals, issues, methodology to be employed in conducting the project, and challenges that may be encountered in the project.

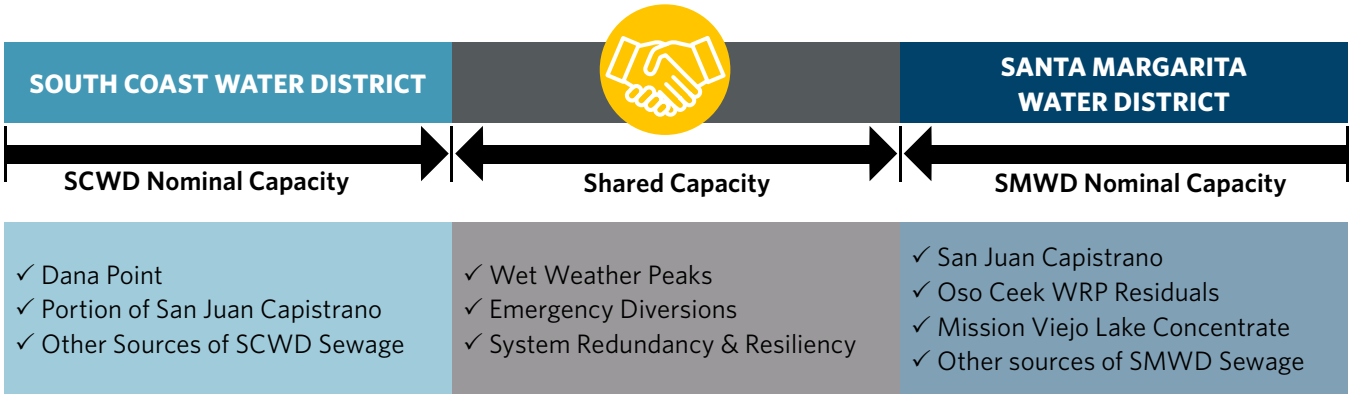
The recent change in Participating Member Agencies that makeup Project Committee 2 (PC2) and govern JBLTP is a monumental milestone that could be interpreted as the start of a new era for JBLTP. In which, the PC2 agencies have an overarching vision to:

- Optimize and right-size JBLTP to meet current needs and requirements
- Incorporate resiliency with flexibility to adapt to potential long-term futures
- Assess feasibility of possible beneficial reuse opportunities; and,
- Be collaborative partners in evaluating shared benefits and mitigating risks.

HDR has been invested in supporting SOCWA and JBLTP for some time starting with the 2000 JBLTP AWT PDR (as CGvL), our involvement in the 2012 JBLTP Facility Plan, the design of the JBLTP Aeration and Cogeneration Upgrades, and several condition assessments and rehabilitation improvements of several SOCWA facilities. Our team is excited to continue our engagement with you by providing HDR's industry-leading experts and local knowledge to guide JBLTP through this next era of regional optimization and modernization.

The challenge with JBLTP is determining how big is too big. Anticipated average dry flows and loads from PC2 member agencies, Santa Margarita Water District (SMWD) and South Coast Water District (SCWD), are manageable by the current JBLTP configuration, but when high flow events occur that peak influent flows up to 44 mgd (as occurred in December 2021, the combined impacts of climate change, aging collection system infrastructure increasing inflow and infiltration (I&I), and increasing solids loading challenge the space-limited JBLTP to accommodate the potential variations in receiving flows and loads.

With dryer dries and wetter wets being a near certainty and a cloud of impending regulations (for both liquids and solids), JBLTP stakeholders are facing near-term impactful decisions to avoid and mitigate surprises in the long run. The plan must consider current and future flow and loads from a base dry-weather condition for PC2 partners as well as the high-likelihood potential scenarios, including but not limited to, wet weather peaks, emergency diversions, system redundancy and resiliency. Determining this shared capacity will be key to this Phase 1 FPA to right-size JBLTP, particularly because of its interconnectivity with SMWD Oso Creek Water Reclamation Plant (Oso Creek) and Moulton Niguel Water District Plant 3A (3A) and potential interconnectivity to receive flows diverted away from SOCWA Coastal Treatment Plant (CTP) and to send treated effluent to SCWD Doheny Desalination Plant for potable reuse.



Our proposed HDR team successfully completed the 2024 SMWD Master Plan that evaluated over 20 alternatives to establish the basis of design for the Oso Creek WRP. We are committed to doing the same for JBLTP.

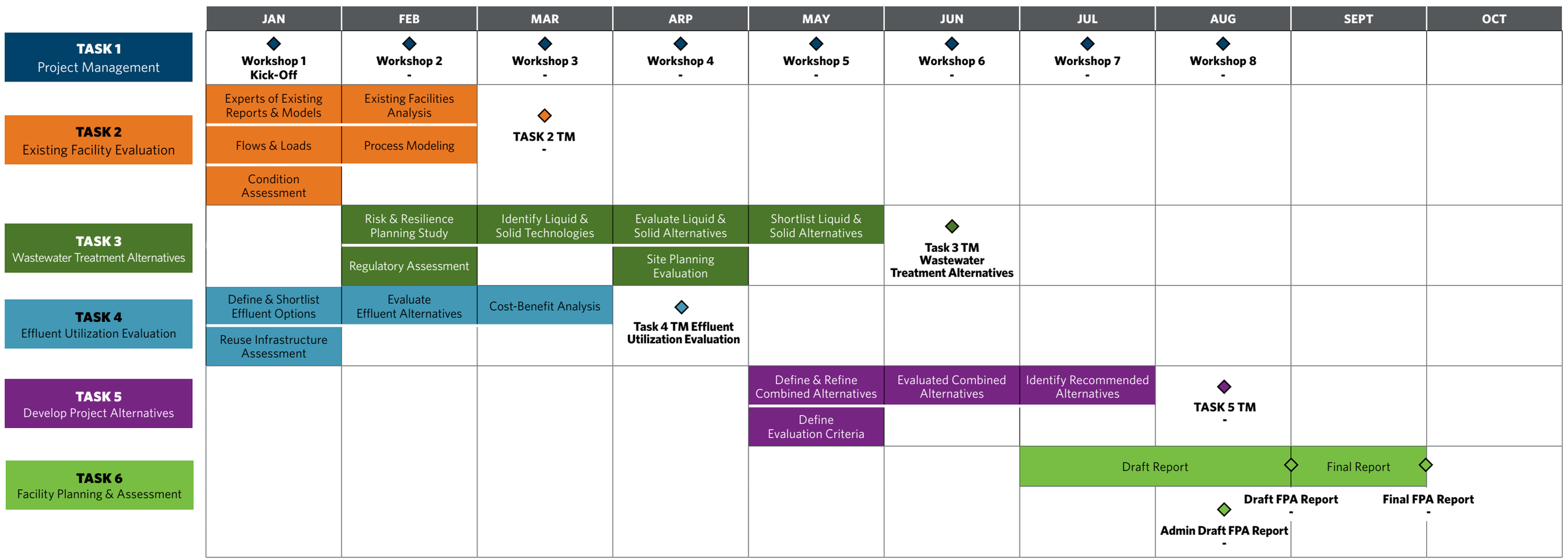
This Phase 1 Facility Planning Assessment (FPA) to identify a range of treatment options, shortlist alternatives that are likely more feasible and cost-effective, and evaluate the shortlisted alternatives to identify a recommendation to advance to Phase 2. Our streamlined approach and methodology to perform the Phase 1 FPA effort is described in more detail in the following sections. Following the kick-off meeting, our team will start executing the Existing Facilities Evaluation (Task 2) and Effluent Utilization Evaluation (Task 4) concurrently as they are critical to identifying and shortlisting alternatives (Task 3) for evaluation and ranking (Task 5).

PHASE 1 FACILITY PLANNING ASSESSMENT THIS EFFORT

✓ Project alternatives to address current and future needs of JBLTP, with technical assessments and regulatory considerations.

PHASE 2 FACILITY PLANNING ASSESSMENT FUTURE EFFORT

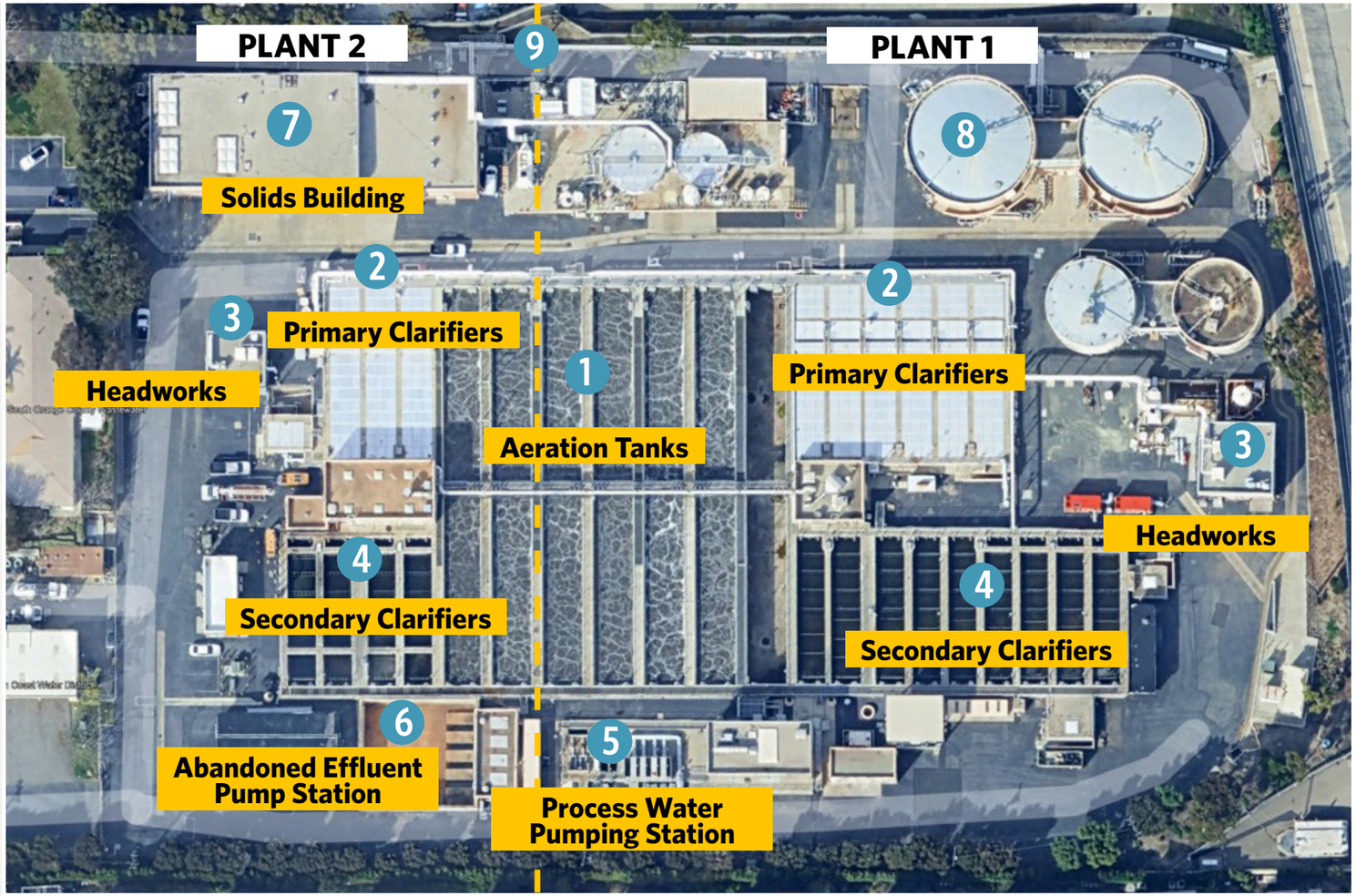
✓ Builds upon Phase 1
✓ Outlines recommended improvements and implementation strategies for future facility upgrades and improvements.



TASK 2 GOALS	TASK 3 GOALS	TASK 4 GOALS	TASK 5 GOALS
✓ Complete a 30-year capacity and peaking analysis based on current and projected flows and loads from regional agencies. ✓ Assess existing process capacity, asset condition, and useful life to inform future infrastructure and right-sizing needs.	✓ Develop treatment alternatives that enhance resiliency, reliability, and risk management under variable conditions and regulatory changes. ✓ Evaluate biosolids treatment options to meet current sub-Class B solids processing and future regulatory requirements.	✓ Create an effluent utilization strategy, considering Title 22 production, potable reuse, and ocean discharge.	✓ Identify project alternatives that advance sustainability through energy reduction and resource recovery. ✓ Address long-term regulatory compliance and permitting requirements.

Issues and Opportunities Map

ISSUE	CHALLENGES	OPPORTUNITIES
1 Aeration Basins	Warm water drives nitrification and it is challenging keep the plant in stable operation. Current facilities are not designed to meet potential future nutrient limits. Aeration blowers are challenged at peak flows.	Optimize basin operations to improve current performance while incorporating design flexibility to allow future modifications for nutrient removal. See treatment technology discussion on Page X.
2 Primary Clarifiers	Existing clarifiers have a suboptimal length-to-width ratio and are too shallow. These conditions limit hydraulic performance and capacity. Space is limited to expand capacity.	Implement rehabilitation with hydraulic improvements to increase capacity and performance. Redesign opportunities include optimizing geometry and baffling.
3 Headworks	Lack of redundant screening equipment limits operational reliability. Existing screens are outdated and have low solids capture, impacting downstream processes.	Upgrade to modern screening technologies with redundancy to improve reliability. Evaluate grit chambers for improved grit removal.
4 Secondary Clarifiers	Current clarifiers are too short and shallow, leading to floc carryover into the effluent channel and reduced effluent quality.	Reconfigure and optimize clarifiers with improved geometry and baffling to enhance solids settling and increase hydraulic performance. Consider process intensification approaches, such as densification technologies or combining clarifier tanks, to improve settleability and accommodate future flows and loads.
5 Process Water Pumping Station	Noise enclosure creates tight, constrained spaces that limit maintenance access.	Redesign or reconfigure layout to improve accessibility while maintaining noise control standards.
6 Abandoned Effluent Pump Station	Space is unused and located near residential areas.	Repurpose space for new processes, such as a tertiary or advanced treatment system, while considering community impacts and aesthetics.
7 Solids Building	Inadequate ventilation and air conditioning prevents the boiler and cogeneration system from running simultaneously, limiting operational flexibility.	Improve HVAC systems to allow concurrent operation and evaluate opportunities for heat capture.
8 Digester	Existing tube heat exchangers are inefficient.	Replace remaining tube heat exchangers with spiral heat exchangers to improve efficiency, reduce fouling, and extend equipment life.
9 Separate Treatment Trains	Separate treatment trains requires balancing of flows between the two plants and results in inefficiencies.	As part of overall approach, establish shared capacity opportunities that allow for a single treatment train that can operate more efficiently and more easily allow for short-term treatment capacity in extreme events.



Limited footprint is a major challenge at JBLTP, which makes configuration changes to primary and secondary clarifiers difficult. Our team is helping the Los Angeles County Sanitation Districts at the San Jose Creek and Whittier Narrows Treatment Plants, where we applied Computational Fluid Dynamics (CFD) modeling analysis and settling improvements to evaluate and enhance clarifier performance. Through targeted hydraulic modifications, we achieved a 60% increase in throughput capacity. This approach can be applied to JBLTP to achieve improved performance and greater capacity without structural changes to your clarifiers.

APPROACH

TASK 1 - Project Management

Project Control Plan (PCP)

Our project management approach is built on trust, a clear definition of shared goals, and the mutual understanding of the necessary steps to achieve those goals and deliver the project. Our team is bound together by a commitment to be a true partner to you and your team. At project initiation, we will conduct the Project Kickoff Meeting and a Chartering Workshop to refine goals and objectives as well as commit the project team to their successful realization. We will discuss the tasks, assignments, roles, how to document decisions and comment resolution procedures, required meetings, and communication methods. We will compile this information along with our work plan, budget, schedule, tasks, deliverables, and quality procedures into a Project Control Plan (PCP) that our team will rely on throughout the project.

Trust is achieved through transparency and effective communication. We foster transparency and communication within our team through weekly project team coordination meetings, monthly progress meetings, and workshops. Our project monitoring tools give our project management team a picture of accomplishments, work in progress, milestones, and future activities and allow us to communicate those metrics quickly and easily with the team and with you.

But communication is not one-way. Amy will discuss and review progress with discipline leads to ensure consensus on reported progress and quality as well as hold ourselves accountable for providing a quality deliverable on-time..

The tools and processes we use allow our team to identify variances and plan corrective actions to maintain schedule and budget targets. Our project management approach is reinforced through proven accountability measures, which can include co-location and design task forces to meet commitments and emphasize shared goals. Everything we do will be a coordinated effort on behalf of you to achieve our shared objectives

Throughout the project, HDR will facilitate collaborative workshops with you to identify and define evaluation criteria, identify options, shortlist alternatives, and develop viable alternatives for evaluation and ranking. Success in this area means each stakeholder felt heard in these workshops and their opinions and concerns were valued, so they can be confident in the approach.

TASK 2 - Existing Facilities Evaluation

Description of Existing Facilities

The HDR Team's approach embraces change and seizes the opportunity to do things differently decades later, building on past work rather than starting from scratch. Our Project Manager, Amy Omae, with over 20 years of technical expertise in wastewater treatment plants, will oversee that all reviews of prior work are relevant, focused, and directly supporting the subsequent tasks to prevent a growing expansive scope. The team will keep the scope focused, efficient, and forward-looking through 3 key steps:

Review of Existing Reports	First conduct the desktop review. Extract, organize, and categorize prior facility evaluations into subsequent task areas. This organization exercise prevents reinventing the wheel.
Site Visit & Staff Interview	Conduct one focused site visit and one structured interview with plant staff to document changes since the last record.
Expert Review and Validation	Treatment process experts will perform a high-level review of key past studies and assess whether their recommendations remain valid under current plant conditions and regulations and integrating insights from site visits and staff interviews.

Overall, we will bring a fresh perspective to identify opportunities for improvement while avoiding scope expansion into unnecessary re-study of past issues. For example, past alternatives such as using basins for thickening or combining headworks will be reconsidered in light of updated solids characteristics and plant conditions, based on site visit and staff interview, and knowledge of current regulatory requirements.

The HDR Team will hold conversations with SOCWA's operations and engineering staff for a holistic view of the existing facility's current condition and challenges.

Data Review

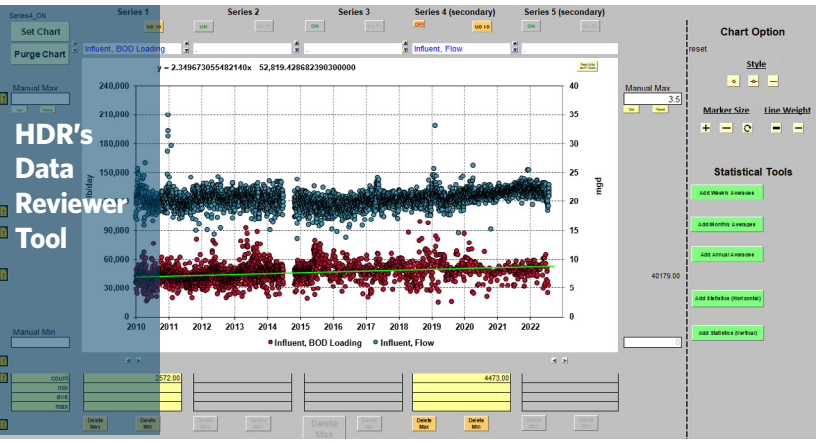
Following Task 2.1, a targeted data request will be developed to address identified gaps, focusing on information needed to update design criteria and unit sizing, including hydraulic and process capacities, plant layouts, hydraulic profiles, mass balance schematics, and P&IDs.

We recognize the importance of keeping the master plan on schedule. The data request to close these gaps will be initiated at the Kickoff Meeting. At this stage, we will also request items including, but not limited to:

- Historical flows and loads and flow projections to support Task 2.3 – Flows and Loading Analysis
- Inter-process water quality data to support Task 2.4 – Existing Facilities Analysis to calibrate process model

Flow and Loading Analysis

What sets us apart is our use of HDR's pre-built tools, including DataViewer, which allows us to visualize historical data in a statistically robust and visually compelling way, and the Log Probability Tool, which applies which applies advanced log-probability methods for thorough statistical analysis to validate data and calculate peaking factors.



HDR follows a standardized and documented best-practice approach for consistency, efficiency, and high confidence in results. This methodology has been successfully applied to multiple Master Plans, including the IRWD Sewage Treatment Master Plan (2021) with updates in 2023 and 2025, as well as the SMWD Master Plan (2024). Our step-by-step approach includes:

- ✓ Data Preparation
- ✓ Data Validation and Quality Control
- ✓ Historical Load Trends
- ✓ Peaking Factor Calculations
- ✓ Projected Flows and Loads Calculations and Staff Workshop

At minimum, three years of data are analyzed for latest relevancy.

Value to you: these tools **save** time and budget, with consistent, reproducible data plots, and allow staff to **focus** on analysis and decision-making with the flexibility to easily update inputs or scenarios.

The HDR Team will establish planning and design criteria by utilizing Task 2.1, supplemented by industry benchmarks and SOCWA's operational experience. We will evaluate hydraulic capacity to update and refine the existing hydraulic profile, identifying current and future limitations under varying flow conditions. In parallel, Mario Benisch, who has led similar efforts for IRWD, OCSAN, and SMWD, will update and calibrate SOCWA's process loading model using BioWin to evaluate process capacities and support alternatives analysis. HDR will also assess the LOS framework and provide recommendations.

Condition Assessment of Major Unit Processes

The HDR Team understands that the Phase 1 condition assessment will be high-level and primarily desktop-focused. As part of this effort, we will request access to the asset management database and review installation dates to perform an age-based desktop analysis. This provides a baseline assessment of remaining useful life.

HDR has used this approach for projects, including Goleta Water District, performing a rapid condition assessment for the Corona Del Mar Water Treatment Plant.

Staff interviews will then be conducted to refine these assessments, accounting for equipment that may have performed better than expected or received recent upgrades.

Following the desktop assessment, a field verification will be conducted by discipline experts, particularly electrical, structural, and process mechanical staff, to visually assess and validate condition ratings. Staff input will also help inform the criticality of equipment.

HDR has used this approach for projects, including Goleta Water District, performing a desktop rapid condition assessment for the Corona Del Mar Water Treatment Plant. For the Eastern Municipal Water District RWRF Rehabilitation Study, we conducted field site visits to perform high-level condition assessments.

We wrote the book! HDR is an industry leader in infrastructure condition assessment!

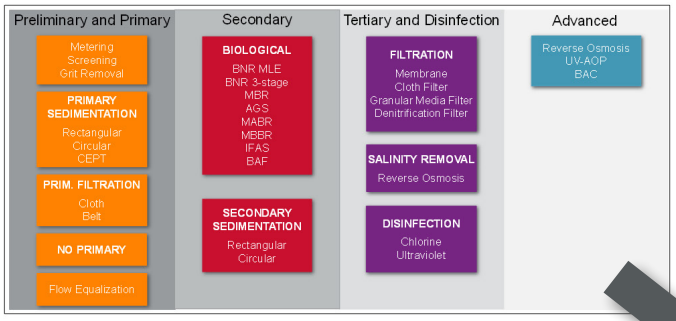
TASK 3 - Wastewater Treatment Alternatives

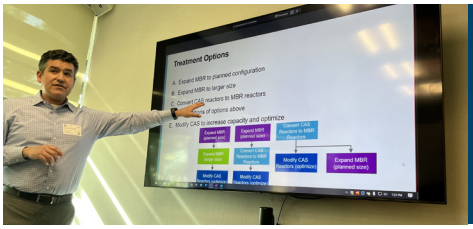
Liquid Treatment Alternatives Development

The process configuration for JBLTP must consider effluent requirements, current and potential end uses, current and future regulatory requirements, risk and uncertainty in projections, and timing/phasing of improvements. We will prepare a technology evaluation that addresses optimization opportunities for the baseline scenario, and more substantial process changes for the alternatives development. The table below provides a sample of potential secondary treatment technologies that will be considered.

TECHNOLOGY	DESCRIPTION	ADVANTAGES	OTHER CONSIDERATIONS
Modified Ludzack-Ettinger (MLE) Process	Proven activated sludge process for nitrogen removal. Can be considered as a future upgrade to address nutrient removal requirements.	• Economical and simple process • Needed only when required to meet an effluent nitrogen limit. • Can be designed with flexible an/aer zones.	MLE can be combined with other optimization options to enhance treatment performance and capacity. The optimization technologies described below are not mutually exclusive.
MLE with membrane aerated biofilm reactors (MABRs)	Modular cassettes installed in anoxic zone outfitted with gas-transfer membranes to deliver oxygen directly to a biofilm layer where bacteria metabolize nutrients, resulting in simultaneous nit/denit.	• Four to six times more efficient aeration. • Energy-efficient process for ammonia and total nitrogen removal. • Facility can be retrofitted in the future.	HDR has completed multiple pilots that demonstrate performance, bringing a strong understanding of the technology.
Densification (hydrocyclones, f/m cycling, selective wasting)	Application of selection pressure on activated sludge to favor denser and fast settling particles that result in improved clarifier performance and the opportunity to increase ML suspended solids in the reactors, thereby increasing capacity.	• Proven approach to increasing capacity with multiple examples in US. • Simple implementation • Improves treatment performance without new structures	Requires full-scale implementation. Beneficial for both near term and long term improvements.
Membrane Bioreactor (MBR)	Combines biological wastewater treatment with membrane filtration to produce high-quality tertiary effluent. Eliminates the need for separate clarifiers and filtration. This innovative process allows for higher concentrations of biomass within a smaller footprint, leading to more efficient, compact, and effective wastewater treatment systems suitable for municipal and industrial applications.	• Proven technology with thousands of installations • Smaller footprint • Provides nutrient removal • Produces high-quality tertiary effluent using UF membranes; can serve as a pre-treatment step to the RO in AWPF.	Technology is a great option when considering reuse (Title 22 and IPR/DPR). Disposal to the outfall would still require treatment to tertiary, which would be more costly than secondary effluent.
Activated Granular Sludge (GrAS)	New technology with granules grown to between 2-5 mm in size for high efficiency treatment for removing ammonia, nitrogen, and phosphorus.	• Ability to support biological nutrient removal within a single tank. • Compact and modular footprint allows smaller footprints and smart expansion when needed.	HDR has completed the design for the largest AGS facility in the US at 50 mgd for the City of Omaha. At JBLTP, new tanks would be needed, but the overall footprint would be reduced. Consider impacts to solids processing due to phosphorus removal.
Sidestream Treatment	Includes proven and innovative technologies such as pre-nitrification, deammonificiation, with anammox, and phosphorus sequestration or harvesting as struvite or brushite.	• Ability to treat recycle loads, in particular nutrient recycle, emanating from solids processing. • Potential costs are 50% less than the cost to remove nutrients in the mainstream.	This technology can considered in the solids evaluation, but will have an impact on liquids treatment.

The development of alternatives begins with identification of all treatment technologies that will be considered. **Gregorio Estrada will bring national experience** in the application of different treatment technologies so that SOCWA and the PC2 member agencies can select technologies for consideration based on their distinct advantages and applicability to JBLTP. This exercise will shortlist potential technologies so that the evaluation is focused and efficient.

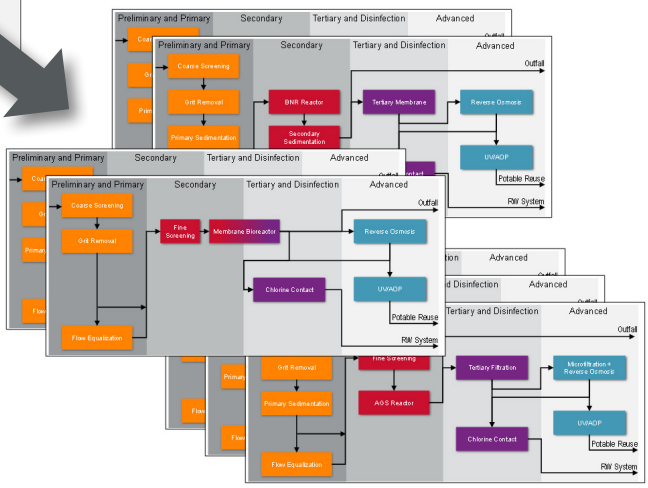




Gregorio's approach to building consensus on project elements supporting critical decision making.

Liquids Treatment Alternatives Identification in 3-Steps

1. Identification and shortlisting of treatment technologies
2. Development of process treatment trains
3. Ranking and shortlisting of liquids treatment alternatives



Solids Treatment and Disposal Alternatives Development

The heart of the solids system is the digestion process, which reduces the amount of solids and stabilizes solids into a beneficially reused product. With a 15-day solids retention time and adequate heating and mixing in the digesters, a Class B product is produced. Thickening processes before digestion reduces the size and capacity requirement of the digestion process. At the JBLTP, the digestion process is producing a sub-class B product, which cannot be beneficially reused and is required to be disposed of at the landfill. With SB 1383, organics, including biosolids, are largely prohibited from continuing to dispose in landfills. This limits the end use options for the plant.

HDR has provided dozens of Master Plan evaluating solids processes.

Ways to meet Class B: Meet the time and Temperature Requirement for Class B in the digesters by providing more storage capacity. More storage can be provided in several ways:	
a.	Build another digester: This is an expensive option, with limited space on the site.
b.	Improvement system for thicker solids, which reduces the capacity: i. Co-thickening ii. Recuperative thickening iii. Primary Sludge Thickening
c.	Provide a Sludge Conditioning Step (e.g., thermal hydrolysis) to allow for more solids to be fed.

Site Planning Evaluation

Site planning will integrate the evaluation performed for liquids and solids treatment, electrical systems, energy recovery systems, and support facilities. The evaluation will include consideration for site access, staging, and phasing of improvements. In addition, consideration for the resiliency and vulnerability of the site layouts for each treatment approach will inform the evaluation of the alternative.

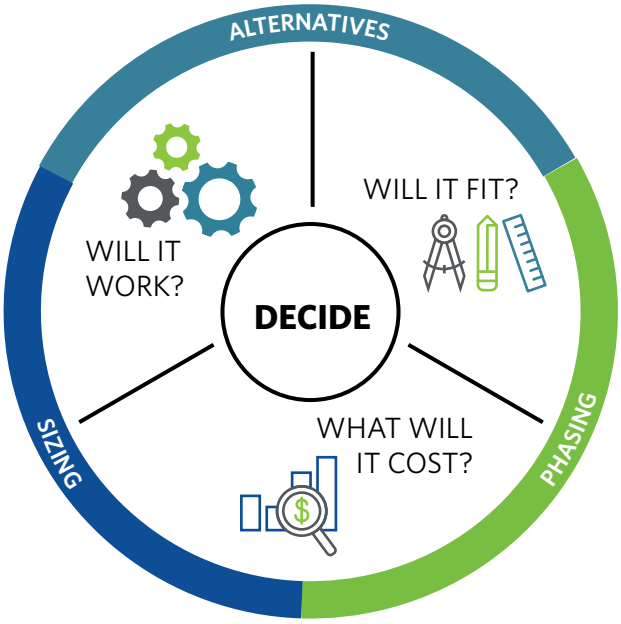
Regulatory considerations include future nutrient limits for discharge to the outfall, regulatory requirements for end uses, AQMD requirements and impacts, and potential PFAS regulations for biosolids disposal. Key members of our team (Gregorio Estrada and Mike Falk) have been directly involved in discussion and evaluation of impacts of discharges to the SoCal Bight, and bring watershed perspectives that will provide valuable insight on the potential regulatory limits on nutrients, and the likely timing of those regulations.

We have successfully used this approach on various Master Plans throughout Southern California, including West Basin Municipal Water District, Irvine Ranch Water District, and Santa Margarita Water District.

TASK 4 - Effluent Utilization Evaluation

Define and Shortlist Effluent Management Options

HDR recognizes the criticality of open conversations and in-person workshops to build consensus and align priorities across SOCWA and PC2 Member Agencies. To support this, the HDR Team will facilitate collaborative workshops to identify and define potential effluent management criteria and alternatives. DecisionSPACE will be used throughout the process, systematically applying pairwise comparisons to define and weight criteria and capture evolving priorities.



Evaluation of Alternatives

The shortlisted effluent management alternatives will be assessed and ranked in detail, with consideration to:

Technical feasibility	Evaluate compatibility with existing plant operations and any required upgrades.
Regulatory requirements	Identify necessary permits, compliance measures, and implementation timelines.
Environmental impacts	Identify effects on local ecosystems, community health, and water quality.
Cost-effectiveness	Determine capital, operational and maintenance, and life-cycle costs.

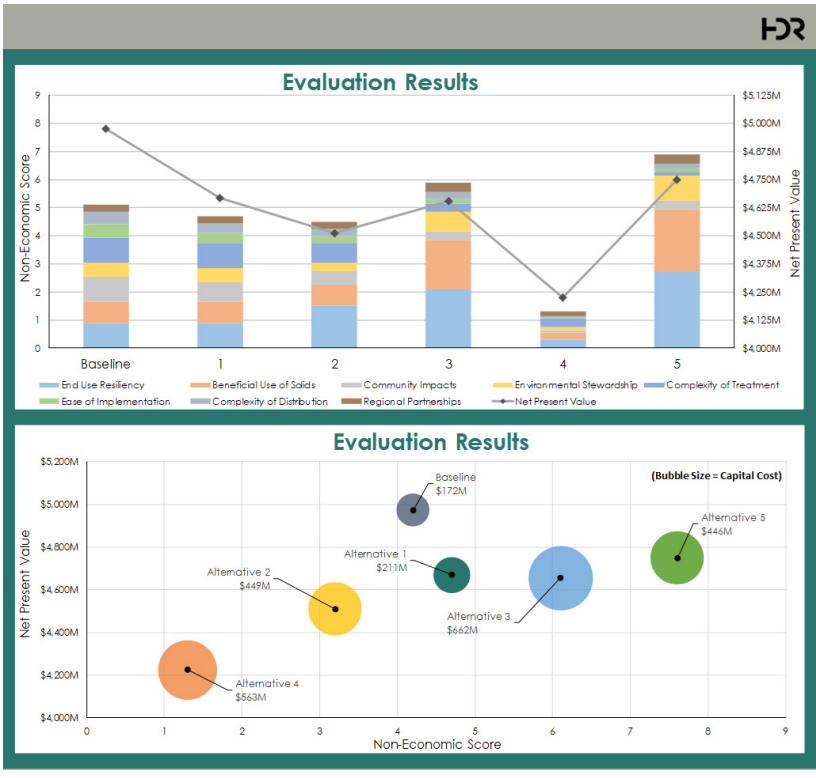
The HDR Team will document findings in a structured evaluation multi-criteria decision matrix to support transparent comparison across all alternatives.

Offsite Reuse and Infrastructure Assessment

For alternatives involving offsite effluent utilization, the HDR Team will perform a high-level assessment of potential offsite applications, such as advanced water purification facilities (AWPF), indirect potable reuse (IPR), or other regional reuse opportunities. This task will include identification of necessary offsite infrastructure improvements, and evaluation of associated operational or regulatory considerations. The assessment will provide early-stage guidance to inform SOCWA's planning process, without undertaking detailed design engineering.

Cost-Benefit Analysis and Alternatives Ranking

The HDR Team will perform a high-level cost analysis for each alternative using tools such as HDR's cost estimate tool, CostSPACE, to develop Level 5 estimates. Benefits, including water savings, environmental improvements, and regulatory compliance, will be quantified where feasible. We will also conduct a cost-benefit analysis to evaluate the relative merits of each option and produce a ranked list of recommended effluent management strategies. This deliverable will provide SOCWA with a clear, actionable foundation for long-term planning and decision-making regarding effluent utilization. The outcome will be a long-term, integrated strategy that maximizes limited space, improves beneficial use, and explores creative opportunities like re-purposing underutilized or abandoned sites.



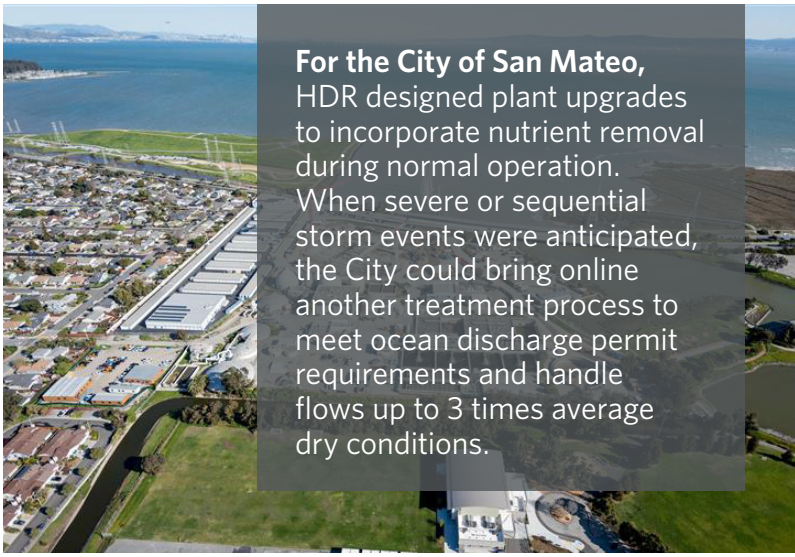
3 Liquid Treatment Processes to Meet your Effluent Management Needs

We can do more with our water. By moving beyond ocean discharge, cost-effective and sustainable reuse alternatives can deliver community and environmental benefits. Below are 3 effluent management strategies to be discussed with SOCWA and PC2 member agencies.

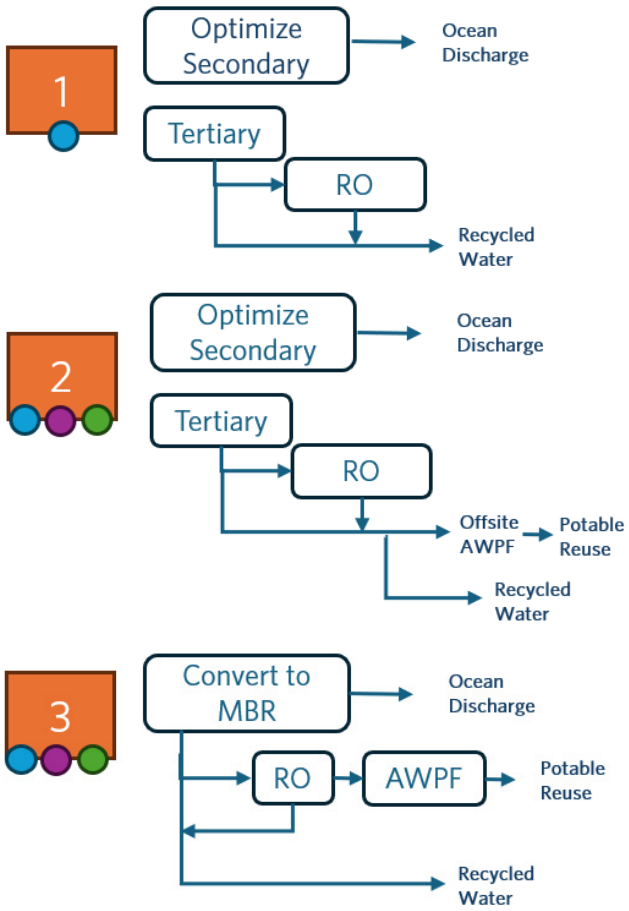
Our team will explore innovative ideas of potential regional, inter-agency solutions. JBLTP is site constrained, leaving little space available for treatment processes and upgrades. Potential improvements at a nearby facility could be more cost-effective (capital or life-cycle) or be easier to implement during construction.

SCWD's Doheny Desalination Plant offers a partnership opportunity for IPR or DPR. Advanced-treated water from JBLTP could be sent to Doheny for distribution, or **JBLTP tertiary effluent could be conveyed to a new advanced treatment facility at Doheny,** freeing space at JBLTP for improvements.

Additionally, HDR's SMWD Master Plan analysis considered routing secondary and tertiary effluent from JBLTP to new facilities at Chiquita WRP, which would provide access to regional storage but require a longer pipeline.



For the City of San Mateo, HDR designed plant upgrades to incorporate nutrient removal during normal operation. When severe or sequential storm events were anticipated, the City could bring online another treatment process to meet ocean discharge permit requirements and handle flows up to 3 times average dry conditions.



BENEFITS	CHALLENGES
✓ Lowest capital cost ✓ Lower disposal cost of secondary effluent ✓ Less major demolition	• Limited footprint flexibility • No potable reuse onsite

BENEFITS	CHALLENGES
✓ Lower capital cost than MBR ✓ Lower disposal cost of secondary effluent ✓ Onsite footprint less constrained	• Additional operational interagency coordination • Requires conveyance infrastructure

BENEFITS	CHALLENGES
✓ Reduces footprint ✓ Higher quality effluent ✓ More efficient treatment train (e.g., MBR as pretreatment to AWPF)	• Higher capital cost and more specialized operation needs • Increased demolition and noise impacts

Legend: Title 22 Recycled Water District Use | Indirect Potable Reuse | Direct Potable Reuse

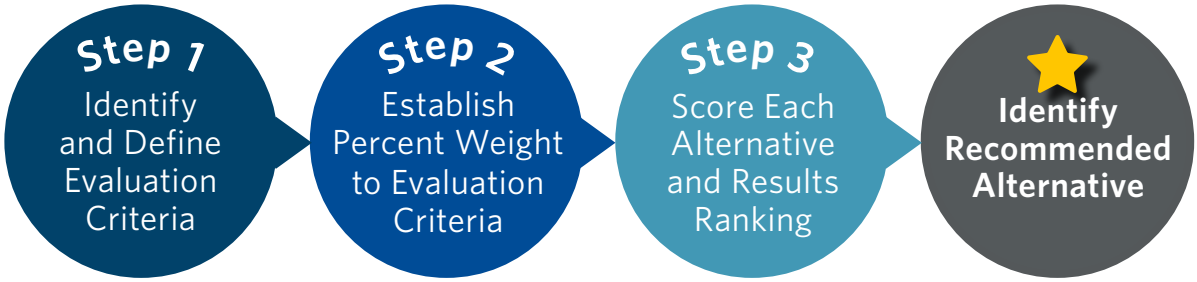
TASK 5 - Develop Project Alternatives

Identify Proposed Project Alternatives

A logical progression of analyses and decisions to rank the preferred end use strategies and treatment concepts. From the efforts of Tasks 3 and 4, the HDR team will have four liquids treatment alternatives and four solids treatment alternatives that will be assessed and shortlisted based on its ability to accommodate defined evaluation criteria. In Task 5, we will use these shortlisted liquids and solids alternatives as the basis for identifying up to four combined alternatives that meet the base level of service standards for JBLTP and the overall project goals for optimization of a resilient, long-term treatment facility incorporating reasonably available beneficial reuse opportunities.

With SOCWA and PC2 Member Agencies, we will refine the development of each combined alternative, define overall project evaluation criteria, and rank the combined project alternatives. **Our team will facilitate collaborative inter-agency workshops to achieve the support and buy-in so each stakeholder is confident in the recommended combined project alternative to be advanced to the Phase 2 Facility Master Plan.**

We will implement a standard decision-making process will provide general consistency throughout the project, but it can be tailored towards providing you with the information needed. A yardstick or pair-wise (or both) approach can be used to establish a relative weight to evaluation criteria to score each alternative objectively.



TASK 6 - Prepare Facility Planning Assessment Report and Documents

List of Deliverables

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

A Comprehensive FPA Report with an Optimized, Recommended Long-Term Alternative backed by Full Organizational Support. Our team will compile the TMs from Tasks 2 through 5 into a comprehensive Facility Planning Assessment Report that meets goals of this project, documents the approach to assess existing facilities, identify end uses, develop alternatives, define evaluation criteria, and make defensible decisions.

TASK NO.	TASK DESCRIPTION	DELIVERABLE
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 Eval.	Conditional Assessment Report.
2	Existing Facilities Eval.	Process Flow Diagram for liquid and solids.
2	Existing Facilities Eval.	Hydraulic model output files.
2	Existing Facilities Eval.	Hydraulic profile.
2	Existing Facilities Eval.	Process model output files.
2	Existing Facilities Eval.	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	Effluent Utilization Evaluation	Task 4 technical summary of findings. Material to be incorporated with the corresponding Chapter of the FPA Report.
5	Develop Project Alts.	Project alternative evaluation matrix.
5	Develop Project Alternatives	Task 5 technical summary of findings of proposed treatment alternatives and corresponding project alternative. 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 version 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.

03 Experience and Technical Competence

Experience and Technical Competence

We have the experience to deliver. The following projects demonstrate our experience developing both innovative and feasible solutions that will be applied to your program's challenges. In these case studies, we employed cost-effective strategies, similar to those required in your scope of work. These project represent successful partnerships with our clients – reaching performance goals and delivering within the required schedule.

Agency & Project	Year	Master Planning	Facility and Site Planning	Flow and Loading Analysis and Projections	Process Modeling	Plant Hydraulic Modeling	Treatment Plant Capacity Evaluation	Planning and Design Criteria Development	Liquid Treatment Alternatives Evaluation	Solids Treatment Alternatives Evaluation	Electrical Systems Evaluation and Planning	Resilience Planning	Regulatory Drivers and Scenarios	Effluent and Nutrient Management	End Use Evaluations	Collections System Analysis	Plant Optimization	Condition Assessment	Project and Capital Improvement Project Development	Implementation Strategies
SOCWA Aeration and Cogeneration Improvements	2018				●															
SOCWA Digester 1 & Clarifiers 7-9 Condition Assessments	2024																	●		
SOCWA JB Latham Plant Strategic Plant	2012	●	●	●	●	●	●	●	●	●			●					●	●	●
Irvine Ranch Water District Sewage Treatment Master Plan	2021	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Central Contra Costa Sanitary District Treatment Plant of the Future Conceptual Plan	2011	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
Sacramento Region EchoWater Program	2025		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●
West Basin Municipal Water District Recycled Water Master Plan	2021	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●
Camarillo Sanitary District Wastewater Master Plan	2021	●	●	●	●	●		●	●		●	●						●		
Santa Margarita Water District Wastewater and Recycled Water Master Plan Update	2024	●	●	●	●		●						●	●	●	●			●	●
Santa Margarita Water District Oso Creek Water Reclamation Plant Design Validation Study	2024		●	●	●	●		●	●		●									
City of San Mateo Preliminary and Primary Treatment Improvements Conceptual Design	2017		●		●	●			●			●	●		●					
Eastern Municipal Water District Regional Wastewater Reclamation Facility Rehab Study	2025		●								●	●						●	●	●
Water Research Foundation Efficient, Cost-Effective Nutrient Removal from Wastewater, Project 4827	2019	●							●				●							
Goleta Water District Corona Del Mar Water Treatment Plant Asset Inventory	2019																	●		

SOCWA JB LATHAM TREATMENT PLANT AERATION AND COGENERATION IMPROVEMENTS

REFERENCE: MR. BRIAN PECK, RETIRED, (949) 246-8338
MR. JOSEPH ZIMMERMAN, SOCWA, PLANT MANAGER, JZIMMERMAN@SOCWA.COM

HDR served as SOCWA's partner from the facility planning phase through final design and construction phase services. HDR designed an efficient and flexible aeration system that meets current demands and can accommodate anticipated changes in influent loadings.

HDR designed an efficient and flexible aeration system that meets current demands and can accommodate anticipated changes in influent loadings. HDR served as SOCWA's partner from the facility planning phase through final design and construction phase services.

As part of the Facility Plan, our Team developed a Biotran process model for the JBLTP. The team used this model to determine aeration demands for various scenarios. It also included diffuser characteristics that provided the required number of diffusers per zone, and also allows design of selector zones and their impact on aeration demands.

The new aeration system consisted of new fine bubble air diffusers, high efficiency turbo blowers, and full automation through upgrades to control valves, air flow meters, and DO sensors to efficiently control air flow based on dissolved oxygen in the aeration basin influent and effluent zones.

Key elements of the project included the following:

- Development of a construction sequencing plan to ensure that the plant had sufficient available aeration capacity throughout construction
- Structural repair of basin walls, walkways, and supports.
- Safety improvements throughout the site including repair of existing and installation of new guardrail at the aeration basins.
- Repair and replacement of existing equipment, including basin isolation gates.
- An aggressive schedule to complete improvements.

The same design team that delivered the JBLTP aeration system upgrades is being proposed for this project.

This provides SOCWA with a dedicated local staff that has recent experience working on your largest treatment plant.

Date initiated: March 2015
Date completed: August 2018
HDR Team involved: Amy Omae, Gregorio Estrada, & Mario Benisch

IRVINE RANCH WATER DISTRICT SEWAGE TREATMENT MASTER PLAN

REFERENCE: MR. JACOB MOEDER, PE,
IRWD, ENGINEERING MANAGER,
MOEDER@IRWD.COM
949-453-5554

HDR prepared the Sewage Treatment Master Plan, which characterized historical sewage flows and loading to IRWD's two water recycling plants, projected future flows and loading through build-out, evaluated existing treatment capabilities and identified deficiencies, identified current and future end uses, and developed treatment process upgrades and expansion requirements for the 28 mgd Michelson Water Recycling Plant (WRP) and the 7.8 mgd Los Alisos WRP.

The master planning effort aimed to maximize the beneficial reuse of sewage, minimize diversion of sewage to Orange County Sanitation District, and identifies ways of managing the sewage collection and treatment systems in the most cost-effective manner while balancing the projected sewage flows with projected recycled water demands. The master plan outlined capital improvement projects necessary to implement the recommendations and a corresponding implementation program for those improvements. Changes that are being addressed in the master plan include the new biosolids and energy recovery facilities at the Michelson WRP, potable reuse program, increased loading concentrations, water conservation and increased developments, Michelson WRP diversion to San Diego Creek, and Orange County Water District's Green Acres Project. The project included updates of the existing sewer collection hydraulic model to generate options for sewage conveyance to better optimize the management of flows throughout the collection system and their ultimate end use.

Technical Memos were provided throughout the duration of the project with Draft and Final Report deliverables submitted. Board approved the Final Report in February 2021 and the project was completed May 20, 2021.

The HDR planning team completed complex alternative evaluations for an operational treatment plant under an aggressive schedule. Key staff of our proposed SOCWA JBLTP team served as team members of this Master Plan.

This experience is directly pertinent to this project because it includes the same major elements, and demonstrates that the team is capable to effective project delivery.

Date initiated: July 2018
Date completed: May 2021

HDR Team involved: Amy Omae, Gregorio Estrada, Alice Wang, JB Neethling, & Mario Benisch

West Basin MWD Recycled Water Master Plan

REFERENCE: MR. ORLANDO RODRIGUEZ, PE, ENV SP, SENIOR ENGINEER, WBMWD, (310) 660-6213, ORLANDOR@WESTBASIN.ORG

In early 2020, HDR was selected to update the West Basin Recycled Water Master Plan. The Master Plan includes an updated recycled water demand analysis, aimed at increasing recycled water production from 34 mgd to 70 mgd, an evaluation of the existing treatment plant performance and condition, an update and calibration of the distribution system hydraulic model in InfoWater, evaluation of expansion alternatives and development of a capital improvement program.

Expansion alternatives included interagency opportunities with neighboring cities and districts, including Metropolitan Water District of Southern California, Los Angeles Department of Public Works, LA Sanitation District and Long Beach Water Department. Workshops were held with local purveyors to identify opportunities to expand non potable irrigation and industrial uses, as well as groundwater recharge.

The recycled water distribution system hydraulic model was calibrated using pressure loggers and SCADA data, to assess capacity, velocity and pressures.

Date initiated: January 2020
Date completed: December 2022

HDR Team involved: Amy Omae, Gregorio Estrada, Alice Wang, Mario Benisch, & Joe Nye

Santa Margarita Water District Wastewater and Recycled Water Master Plan Update

REFERENCE: MS. TRICIA BUTLER, PE, CHIEF ENGINEER, SMWD, (949) 459-6554, TRICIAB@SMWD.COM

HDR prepared an update to the Wastewater and Recycled Water Master Plan (Master Plan) for SMWD, refining the approaches identified in the previous Master Plan. The updated Master Plan outlines an implementation strategy that balances projected sewage flows with recycled water demands, emphasizing the optimization of SMWD's wastewater treatment processes and maximizing the reuse of recycled water. We evaluated six system-wide alternatives, utilizing a methodology to define options, model economic costs, and compare alternatives based on life-cycle costs. The economic analysis considered capital and operational costs, alongside non-economic factors such as facility impacts, complexity of improvements, ease of implementation, and regional partnerships. HDR facilitated this comprehensive evaluation by leveraging HDR's costSPACE, estimating software and historical cost data to certify consistency and accuracy in the cost estimates. This Master Plan update provides a framework for the District to assess the feasibility of these improvements and guide future decisions.

Date initiated: July 2024
Date completed: December 2024
HDR Team involved: Amy Omae, Gregorio Estrada, Mario Benisch, Karina Sandoval, Joe Nye, & Curtis Gauthier

EMWD Recycled Water Reclamation Facility Rehab Study

REFERENCE: MR. WILLIAM CHEN, PE, ASSOCIATED CIVIL ENGINEER II, EMWD, (951) 928-3777 EXT. 6208, CHENW@EMWD.ORG

HDR is performing a high-level operation and condition assessment for four regional wastewater reclamation facilities (RWRF) located in Moreno Valley, Perris, San Jacinto, Temecula. This project develops a strategy to address possible rehabilitation and system improvements needed to maintain reliable service at each facility. HDR developed forms using the Survey123 ArcGIS program to conduct the condition assessment and collect field data. Assessment data collection includes asset type (Civil, Structural, Mechanical, Electrical, I&C), physical parameters, visual parameters, and condition ranking.

HDR staff worked closely with district staff to complete inspections of their facilities, and gathered data which supported the analysis of the overall condition of each asset. Through this effort, the HDR team was able to assess, identify and prioritize rehabilitation and replacement needs and documented the results in 5 reports, one R&R report for each RWRF and one final report for overall district CIP program, and present the results to various stakeholders.

Date initiated: March 2023
Date completed: July 2025

HDR Team involved: Gregorio Estrada, Teigan Gulliver, Alice Wang, Sean Hoss, & Kirk Johnson,

04 Key Personnel and Sub-Consultants

PROJECT MANAGER KEY QUALIFICATIONS

COORDINATOR

Amy has demonstrated the ability to bring focus and excellence to er role as project manager and day-to-day liaison, coordinating task leaders and managing project budget and schedule, through her experience complex, multi-faceted projects.

TECHNICAL EXCELLENCE

In her 21 year career delivering projects throughout California, Amy is a utility player and highly qualified to lead wastewater and water master planning, design, and engineering services during construction projects.

LOCAL COMMITMENT

Amy was born and raised in Orange County and an OC resident for the better part of her professional career. She is readily available and able to meet as frequently as needed and is committed to the project from facilitating discussions so the overall goals of the project are reinforced

COMMUNICATOR

Amy is a passionate engineer, dedicated to delivering a quality product that accomplishes the project's goals and meets or exceeds client expectations. Amy promotes a collaborative and transparent environment to receive stakeholder input and understand project drivers.

STRONG LEADERSHIP

Amy Omae, PE, LEED AP, is a recognized wastewater leader throughout Orange County based on her over 20 years of experience delivering client-focused solutions for complex projects and for her industry engagement in leadership roles of professional organizations, including CWEA, SARBS, and CASA. Amy has the technical expertise, collaborative communication approach, and commitment centered on your best interests. She will deliver innovative solutions that cost-effectively mitigate project challenges. Amy's relevent project experience includes:

- **IRWD Sewage Treatment Master Plan**
- **SMWD Chiquita Water Reclamation Plant Influent Screening and Lift Station Upgrades**
- **OC San P1-140, Activated Sludge-1 Rehabilitation at Plant No. 1**
- **IRWD Water Supply Reliability Study**

Amy Omae has a proven team who have successfully collaborated on various projects together in the recent years. Amy will leverage the experience of her team, specifically with the support of Alice Wang, Gregorio Estrada, and Jacquelin Mutter in managing and overseeing the project, monitoring progress, reinforcing quality, and facilitating discussions so the overall goals of the project are reinforced for consistent and effective project execution.

Amy will be supported by a team of experts who:

- Have proven technical expertise that will facilitate the development of innovative solutions to cost-effectively address site planning, resiliency, and sequencing challenges
- Possess unparalleled knowledge of key issues that would directly affect your project, allowing our team to anticipate and minimize potential risks.
- Have successfully delivered several projects with similar scope elements as a team.

PROJECT MANAGER

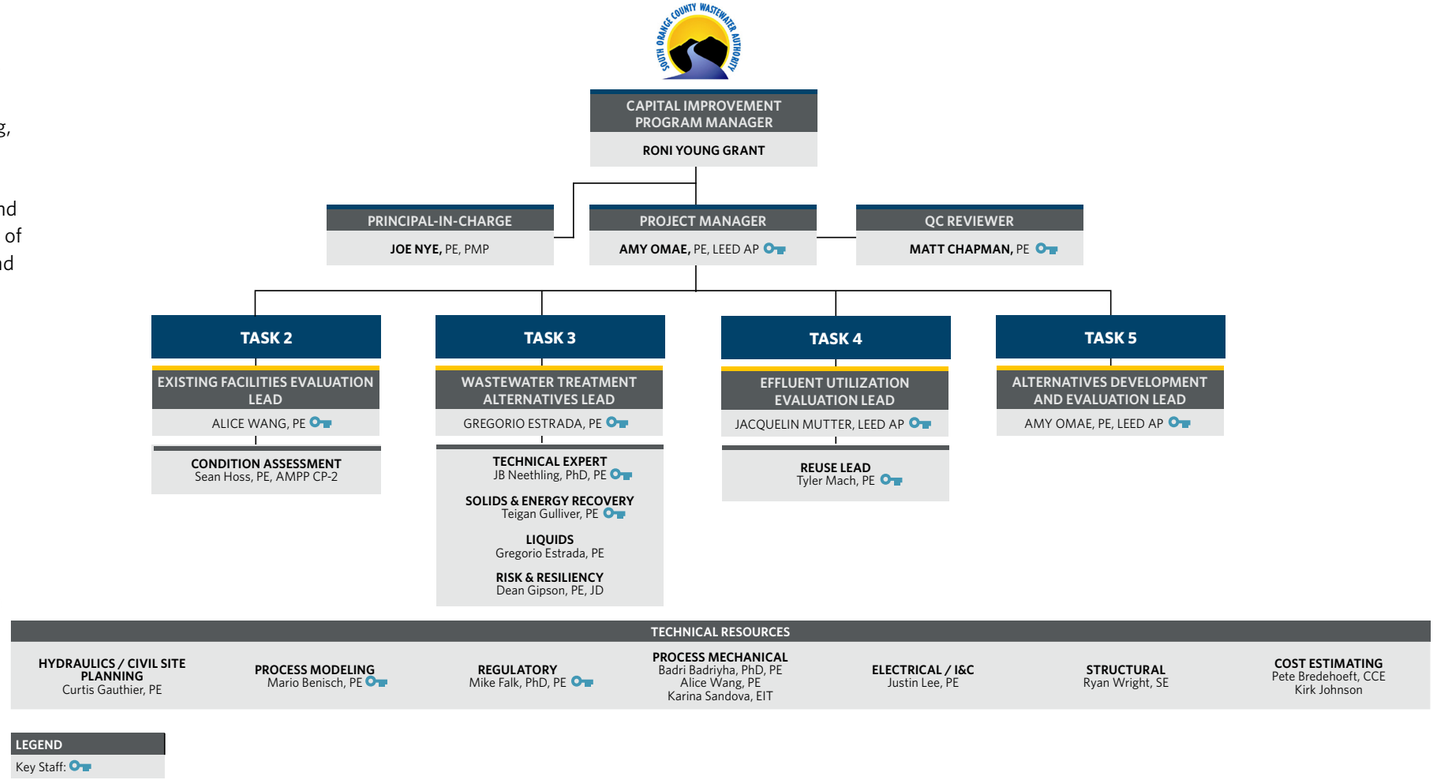
Amy has the proven management, leadership, and communication skills to effectively coordinate the needs of SOCWA, PC2 Member Agencies, and the HDR technical team to set JBLTP on the right path towards its future. During her 20 years, she has worked onsite at plants like yours and has acquired extensive knowledge and relevant experience of what it takes to rehabilitate, update, and improve treatment processes, and reuse practices. Amy has the experience needed to manage the scope, schedule, and individual experts and is the perfect Project Manager for this important project.

Amy is dedicated to being the Project Manager for the JBLTP Facility Planning Assessment Effort.

> *"Managing complex projects and tasks necessitates the use of both hard engineering technical skills and the soft communication people skills. Both are equally important, but the latter can be even more so to build consensus effectively. The challenge with this project is to find that balance between technically-feasible, cost-effectiveness, and equitable to all parties. My passion for this work is not just professional; it's a personal passion. I share your belief that discharging secondary effluent to the ocean is a wasted resource that could be applied towards more beneficial reuse, as long as it can be done reasonably and cost-effectively. JBLTP has a long and well-established history, and I would be honored to play a key part in identifying its role in this next phase of resource recovery and help usher it forward." -Amy Omae*

Amy brings the following benefits to SOCWA:

- Over 20 years of continuous experience working directly with Southern California water and wastewater agencies, including SOCWA on the Plant 3A Aeration Header Reroute project.
- Well-rounded experience as a Project Manager, Task Lead, and Engineer for a variety of planning, design,and construction projects.
- Deep knowledge of collections, treatment, and reuse systems.
- Proven ability to work collectively and productively with SOCWA staff to make sure the project is completed correctly and efficiently.
- The leadership and management skills to provide cohesion to the entire team.



DELIVERY FOCUSED TEAM

By taking advantage of a team that has worked together on the same types of projects you leverage existing knowledge to plan for effective solutions. Our team includes people you know and trust, including Amy Omae and Gregorio Estrada. The team is excited and dedicated to continue working with SOCWA and the success of this project.

BENEFITS THE HDR TEAM BRINGS TO SOCWA AND THE PROJECT

Proactive Communication, collaborative approach and responsive team

Knowledge and familiarity with JBLTP and SOCWA PC2 Member Agencies

Expertise in process design, hydraulic modeling, and electrical work

Commitment to cost-effective, streamlined decision making and SOCWA's long-term vision

Amy Omae, PE

Project & Design Manager

Amy's role will be Project Manager for the Treatment Plant Facility Planning Assessment Effort. As a project manager, Amy will be involved in all aspects of the project.

Related Experience Benefiting SOCWA:

- **IRWD Sewage Treatment Master Plan**
- **SMWD Chiquita Water Reclamation Plant Influent Screening and Lift Station Upgrades**
- **OC San P1-140 Activated Sludge Rehab**
- **IRWD Water Reliability Study**

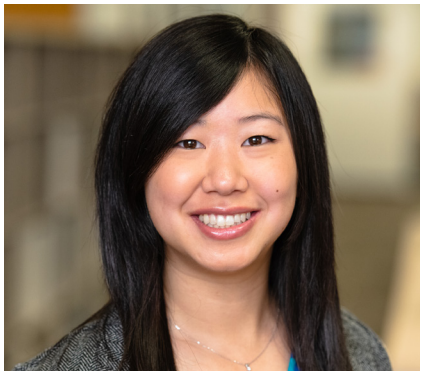
Matt Chapman, PE

QC Reviewer

Matt has specialized in delivering high-level programmatic management services. His 33 years of experience has been largely focused on delivering large-scale water and wastewater programs and spans every phase of project development and delivery.

Related Experience Benefiting SOCWA:

- **IRWD Sewage Treatment Plant Master Plan**
- **City of San Luis Obispo, Program Management for WRF Upgrade**



Alice Wang, PE

Existing Facilities Evaluation

Alice is experienced in master planning, flows and loads projections, condition assessments, and life-cycle cost analysis. She translates complex datasets into actionable insights that drives decision-making and helps teams deliver practical, resilient solutions through her attention to detail.

Related Experience Benefiting SOCWA:

- **IRWD Sewage Treatment Master Plan**
- **WBMWD Recycled Water Master Plan**
- **GWD, Corona Del Mar Water**

Gregorio Estrada, PE

Treatment Technology

Gregorio is an experienced treatment plant designer with numerous successful projects, including a recent SOCWA project and multiple Master Plans across Southern California.

Gregorio is particularly adept at delivering complex design projects.

Related Experience Benefiting SOCWA:

- **SOCWA JBLTP Aeration and Cogeneration Improvements**

Jacquelin Mutter, LEED AP

Effluent Utilization Evaluation

Jacquelin includes 18 years of experience in design focusing on potable reuse plans and projects. Some of the keys to Jacquelin's success is her aptness in organization, communication and attention to detail.

Related Experience Benefiting SOCWA:

- **OWD & Sweetwater Authority Recycled Water Intertie Planning Study**
- **LASAN & LADWP, DCTWRP AWPF Program and Construction Services Support**

JB Neethling, PhD, PE

Technical Expert

JB is considered HDR's top wastewater process engineer, with more than 42 years of wastewater engineering experience ranging from master planning, process evaluation, and modeling to design and startup of wastewater treatment plants.

Related Experience Benefitting SOCWA:

- **SOCWA JBLTP Aeration System Upgrades**
- **IRWD Michelson Phase 2 Expansion**
- **OCSan WTP No. 1 Activated Sludge Rehab**

Teigan Gulliver, PE

Solids & Energy Recovery

Teigan is a water and wastewater professional engineer with 16 years of experience with a focus in solids treatment processes and biosolids. She enjoys discussing operational challenges with the plant staff to problem solve daily operational issues and incorporate them into design.

Related Experience Benefitting SOCWA:

- **EMWD Regional WRF Rehab Study**
- **Union Sanitary District, Solids System Evaluation**

Tyler Mach, PE

Reuse

Tyler offers over 12 years of experience in master planning, design, project management, and construction oversight. Her experience includes planning, engineering, lime softening, ion exchange, plant hydraulics, and chemical system processes.

Related Experience Benefiting SOCWA:

- **City of Las Vegas WTP Facility Plan/PER**
- **Town of Gilbert, North WTP Technical Advisor & Construction Management Services**
- **MCSE, Westfield Center WTP Technical Evaluation**

Mario Benisch, PE

Process Modeling

Mario is our go-to Process modeler and designer for SOCWA projects. He has developed and reviewed models for the Plant 3A, JBLTP, and CTP. He delivers a common sense approach to modeling.

Related Experience Benefiting SOCWA:

- **SOCWA Wastewater Authority Plant 3A Aeration System Evaluation Report**
- **SOCWA JBLTP Aeration System Upgrades**
- **IRWD Michelson Phase 2 Expansion**

Mike Falk, PhD, PE

Regulatory

Mike has more than 17 years of water and wastewater engineering experience, with specialized expertise in nutrient removal process design, nutrient regulations, and energy optimization at wastewater treatment facilities.

Related Experience Benefitting SOCWA:

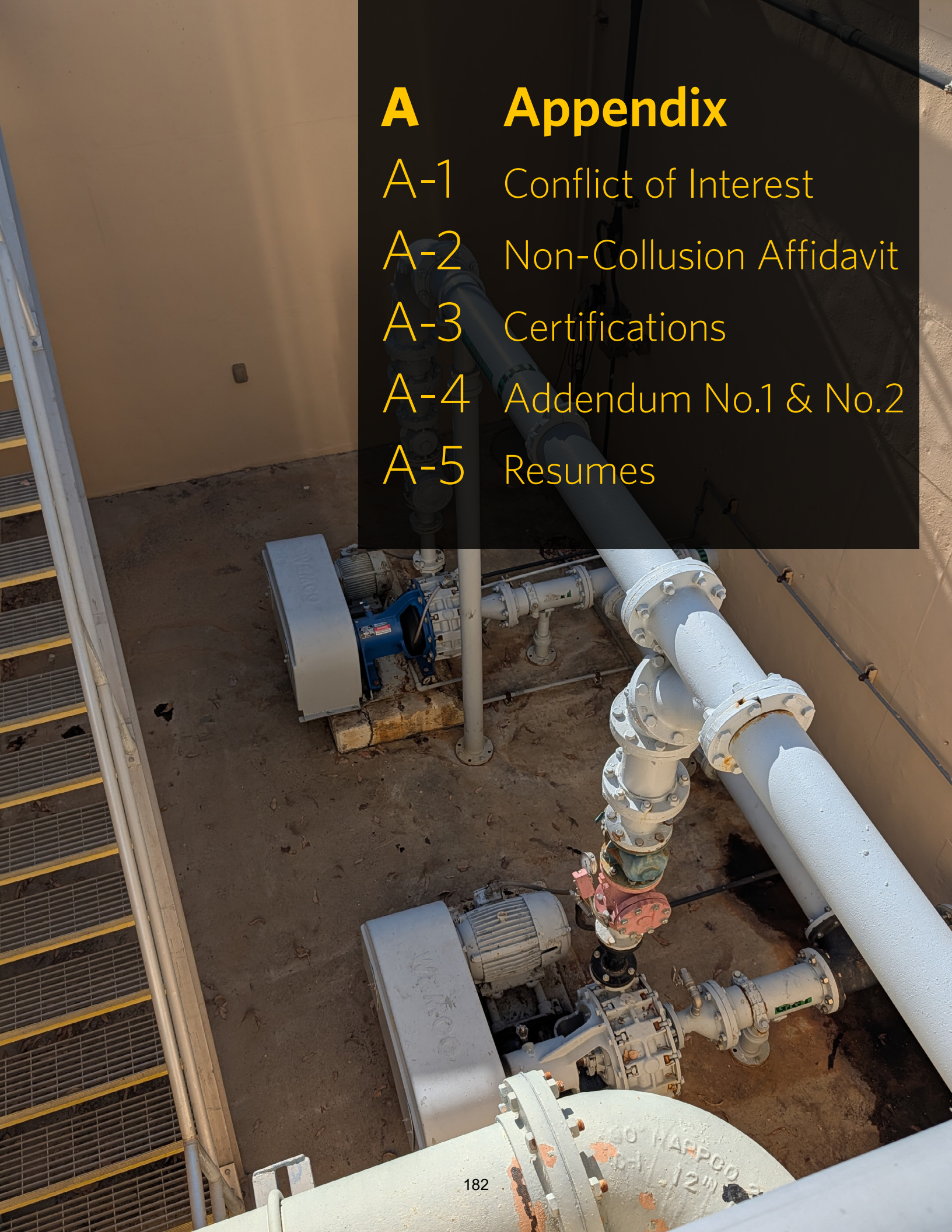
- **EMWD Hemet/San Jacinto WWTF**
- **Camarillo Sanitary District, Wastewater Master Plan Update**
- **CCCSD, Recycled Water Feasibility Study**

05 Pricing


Jenbacher
gas engines
WARNING
+M1
Jenbacher
gas engines
J 312 GS
LEANOX

Pricing

HDR has provided the fee for the project in separately submitted Fee Proposal as indicated in the RFP.



A Appendix

A-1 Conflicts of Interest

Conflicts of Interest

HDR has determined that our participation and the participation of our employees, agents and subcontractors in the J.B. Latha, Treatment Plant Facility Assessment Effort contract does not constitute a conflict of interest or a potential conflict of interest pursuant to California Government Code Sections 1090 *et seq.*, the Political Reform Act, and other applicable laws.

A-2 Non-Collusion Affidavit

ATTACHMENT B
NON-COLLUSION AFFIDAVIT

The undersigned declares:

I am the Vice President of HDR, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on Oct 7, 2025 [date], at Irvine [city], CA [state].

Signature: [signature]

Title: Vice President

A-3 Certifications

Certifications

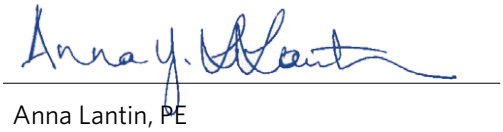
1. HDR certifies that it is not aware of any actual or potential conflict of interest that exists or may arise by executing the contract or performing the work that is the subject of this RFP.

2. HDR certifies that it is willing and able to obtain all insurance required by the form contract included as Attachment C.

3. HDR certifies that it has conducted a reasonable and diligent inquiry concerning the minimum and/or prevailing wages required to be paid in connection with the performance of the work that is the subject of this RFP and certifies that the proposed pricing includes funds sufficient to allow respondent to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.

4. HDR acknowledges and agrees with all terms and conditions stated in the RFP. **Following selection, we would appreciate the opportunity to discuss the terms in the Contract.*

5. HDR certifies that all information provided in connection with its proposal is true, complete, and correct.



Anna Lantin, PE
Vice President, Authorized Signatory

A-4 Addendum No.1 & No.2

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO: REQUEST FOR PROPOSAL

FOR JBL FACILITY ASSESSMENT PLANNING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

1. The pre-proposal meeting is MANDATORY; a virtual option is available if firm is unable to attend in person.
   a. **Microsoft Teams**
2. The Facility Assessment Planning effort is Phase 1 of the master planning effort.
3. The selected consultants will be expected to complete the effort within 9 months of notice to proceed.

DATED: 9/4/2025

Roni Young Grant
Roni Grant
CIP Manager

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 9/04/2025

BIDDER: HDR Engineering, Inc.
BY: Anna Lantin, PE

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 2

TO: REQUEST FOR PROPOSAL

FOR JBL FACILITY ASSESSMENT PLANNING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

1. See attachment for the pre-proposal meeting sign-in sheet.
2. The proposal page limit is 20 pages, not including the cover, appendices and resumes.
3. Section 2.42 Hydraulic and 2.43 Process Model – This effort should be high level analysis during Phase 1, using the existing studies and models.
4. Section 2.5 Condition Assessment of Major Unit Processes – This is not intended to be an asset management program. Rather, it is intended to help inform the alternatives analysis. Some unit processes will continue to be used. For those processes, it is important to understand if major re-investments are needed.

DATED: 9/11/2025

Roni Young Grant
Roni Grant
CIP Manager

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 9/11/2025

BIDDER: HDR Engineering, Inc.
BY: Anna Lantin, PE

A-5 Resumes

Amy Omae, PE (CA), LEED AP

Project Manager, Alternatives Development and Evaluation Lead

Amy is a project manager with two decades of experience in wastewater and water master planning, design, and engineering services for construction projects throughout California. She is a passionate engineer, dedicated to delivering a quality product that accomplishes the project's goals and meets or exceeds client expectations. Amy promotes a collaborative and transparent environment to receive stakeholder input and understand project drivers. She recognizes that the institutional knowledge retained by her clients' planning, engineering, operations, and maintenance staff is extensive and invaluable.

EDUCATION

Master of Science, Environmental Engineering, University of Miami

Bachelor of Science, Chemistry, University of Miami

REGISTRATIONS

California Water Environment Association, Board Member and Southern Regional Committee Chair

Professional Engineer CA, #76824

LEED Accredited Professional, #10328834

PROFESSIONAL MEMBERSHIPS

Water Environment Federation, Member

Orange County Water Association, Member

WateReuse Association, Orange County

INDUSTRY TENURE

21 years

RELEVANT EXPERIENCE

Irvine Ranch Water District, Sewage Treatment Plant Master Plan Irvine, CA Basis of Planning Effort. Amy was task lead for the basis of planning effort to understand and evaluate sewage generation, end-use opportunities, water quality requirements, treatment capabilities, and interagency agreements to communicate comprehensive information to facilitate the identification and evaluation of potential future system-wide and treatment alternatives. HDR is developing a master plan, which characterizes sewage constituents, determines future sewage conveyance requirements, identifies future treatment processes and associated capacities at the 28 mgd Michelson Water Recycling Plant and 7.8 mgd Los Alisos Water Recycling Plant, identifies beneficial uses of sewage, minimizes diversion of sewage, and identifies ways of managing the collection and treatment systems in the most cost-effective manner while balancing the projected sewage flows and recycled water demands. The master plan will identify capital improvement projects based on the recommendations and an implementation program. The project considers the new biosolids and energy recovery facilities, potable reuse program, potential tributary sewer flows, increased loading, water conservation, and additional end users. The project updates the existing sewer collection model to generate options for sewage conveyance to better optimize the management of flows throughout the collection system and their ultimate end use.

Santa Margarita Water District, Chiquita Water Reclamation Plant Influent Screening and Lift Station Upgrades, *Rancho Santa Margarita, CA*
Alternatives Analysis. The Chiquita WRP Influent Screening and Lift Station Upgrades project included major facility modifications and equipment upgrades to address deficiencies to the screening and influent pumping facilities for SMWD's largest treatment plant. The project included analysis of historical influent flows and projections of future flows, and analysis of peak storm conditions to establish design criteria. Amy was responsible for identifying and evaluating screen and screenings handling alternatives and advising on the technical design.

Orange County Sanitation District, Activated Sludge - 1 and Secondary Clarifiers Rehabilitation (P1-140), *Fountain Valley, CA*
Process Lead and HDR Project Manager. Amy was responsible for the technical leadership, oversight, and management for the process mechanical design team, as well as coordination with other disciplines and development of the construction sequence. Amy also monitored the project budget, subconsultants, resources, scope progression, and schedule. P1-140 was a comprehensive rehabilitation of the Activated Sludge-1 (AS-1) and Secondary Clarifiers at Plant No. 1 and addressed multiple components of the facility that were nearing the end of useful life in coordination with other projects under construction in the vicinity.

AMY OMAE, PE (CA), LEED AP (CONTINUED)

Irvine Ranch Water District, Water Reliability Study, *Irvine, CA*
Project Manager and Principal-in-Charge. As the principal-in-charge, Amy was responsible for monitoring project execution, team performance, and client satisfaction. Amy stepped in to advance the project, manage the team, and regain client confidence in the team's performance to deliver a quality product. HDR was re-selected to update the previous 2015 Water Reliability Study whereby we provided modeling and evaluation of local and imported water supply reliability under a variety of emergency scenarios based on a rigorous and transparent probability of risk analysis. This update incorporated recent climate change research and projected the reliability of local and imported water resources into the scenario analysis. Level of service expectations were established and mitigation strategies developed based on risk of modeled shortages.

West Basin Municipal Water District, Recycled Water Master Plan, *Carson, CA*
Flows and Loads Analysis and Treatment Alternatives Evaluation. The recycled water master planning efforts include a comprehensive analysis of West Basin's recycled water facilities (treatment and distribution), and identification of capital improvement projects through the year 2040.

Irvine Ranch Water District, Michelson Water Recycling Plant Tertiary Filters Improvements, *Irvine, CA*
Project Manager. Amy was responsible for managing the project team, developing the rehabilitation design for the most complex design area, which had limited access, unknown conditions, and required multiple shutdowns. She also developed the construction sequence for the project. IRWD contracted HDR to perform the preliminary and final design for the rehabilitation of the tertiary filtration system, which consisted of the tertiary filters, backwash supply, spent backwash, air scour blower, and air compressor. An investigation into the poor performance of Filter No. 7 and a condition assessment of the concrete backwash supply and spent backwash tanks were also performed to better inform the extent of the rehab design and make modifications to potentially improve filter performance.

Irvine Ranch Water District, Recycled Water Salt Management Plan, *Irvine, CA*
Project Manager. Assisted the management of project work, schedule, and team. Identified and assigned tasks to the project team, coordinated and collaborated with IRWD, other utility agencies and subconsultants, performed data collection and analysis, provided direction to develop the model and resolve data gaps, evaluated alternative mitigation strateg ies, and wrote reports. To better understand the contributing sources of salt in IRWD's recycled water product, IRWD selected HDR to prepare a Salt Management Plan that contains a comprehensive historic, present day and future salt balance analysis, quantifies salt concentration limits for recycled water customers and identifies costs and benefits of mitigation strategies to control salts in the recycled water product. Solutions from both the potable water and wastewater perspective were evaluated to determine the most cost-effective approach to reducing salinity. IRWD requested additional model development in two subsequent projects to incorporate boron and chloride impact due to changing groundwater quality at Dyer Road Well Field.

Matt Chapman, PE (CA, NV, GU, HI)

QC Reviewer

Matt has specialized in delivering high-level programmatic management services and implementing programs that achieved 100% compliance with the consent decree numerous requirements. His 33 years of experience has been largely focused on delivering large-scale wastewater programs and spans every phase of project development and delivery. From program management, facility planning, to design, resident engineering, process optimization, asset management and renewal, Matt's broad familiarity with every phase of the utility business leads to more comprehensive solutions and creative approaches for the Board.

EDUCATION

Bachelor of Science, Mechanical Engineering, University of California, Irvine

REGISTRATIONS

Professional Engineer, Civil, NV, #014795

Professional Engineer, Civil, GU, #CE1803

Professional Engineer, Civil, HI, #PE-14715

Professional Engineer, Civil, CA, #C-59422

INDUSTRY TENURE

33 years

RELEVANT EXPERIENCE

Clark County Water Reclamation District, Flamingo Water Resource Center Preliminary and Primary Treatment Improvements, *Las Vegas, NV*
Design Manager. Matt lead the design team in developing final construction documents for the $150M expansion of the plant headworks and primary treatment facilities. Provided preliminary design, final design, bidding, engineering services during construction, and project commissioning services for expansion of the preliminary and primary treatment process area. The new preliminary treatment facilities consist of three channels, two bar screens, rock catcher, three inlet gates, a dual hydraulic sluiceway, two washer/ compactors, screening storage building and bins, four aerated grit basins, 12 grit pumps, 12 grit hoppers, grit storage building and bins, interceptor split structure, and a flow metering vault. At the inflow, the new facilities required a tie into the existing splitter structure and three 96-inch-diameter pipes, approximately 365 linear feet in length, and a flow metering vault. At the inflow, the new facilities required a tie into the existing splitter structure and three 96-inch- diameter pipes, approximately 365 linear feet in length.

Southern Nevada Water Authority, Garnet Valley Water System Preliminary Design, *Las Vegas, NV*
Pipeline Lead. Matt was responsible for overseeing the construction and for managing day-to-day operations, making sure that all employees are working effectively and efficiently toward common goals. The 16-parcel industrial park includes more than 11,000 acres and is attracting technology and manufacturing-based businesses in need of a new water system. When completed, the Garnet Valley Water System will support the water needs of the Apex Industrial Park. The Garnet Valley Water System will consist of facilities to support supplying 20 mgd at full build-out and includes: 18 miles of pipeline, 16 inches to 36 inches in diameter; 1 reservoir (4 million gallons); 3 pumping stations with a capacity of 5 mgd; 2 forebays; and 2 rate-of-flow control stations (20 mgd total).

City of San Luis Obispo, Program Management for Water Reclamation Facility Upgrade, *San Luis Obispo, CA*
Program Manager. Matt managed activities, resource capability, schedules, budgets, and worked with engineering management to identify and improve process and program efficiencies. The Program management services included upgrades to the city's 5.1 mgd dry weather (22 mgd wet weather) water reclamation facility. Upgrades were needed to meet discharge limits, replace aged facilities, and meet General Plan buildout. The revised discharge limits required the city to remove nutrients and disinfection by- products before discharging water to San Luis Obispo Creek. Program management services provided included: (1) setting a framework to how to approach sustainability; (2) procuring web-based program management information system (PMIS) to manage project documentation, status, controls, and correspondence; (3) preparing a waste characterization study; (4) performing a disinfection system; (5) performing an asset planning and rehabilitation study; (6) performing a regulatory compliance study; (7) performing a capacity consideration study;

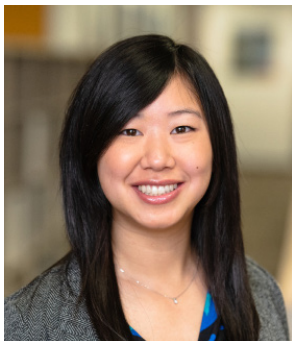
MATT CHAPMAN, PE (CA, NV, GU, HI) (CONTINUED)

(8) providing infrastructure planning; (9) providing environmental documentation and permitting assistance; (10) preparing a master plan; and (11) providing support for review of the system-wide conceptual alternatives study, site planning study, and energy efficiency and renewable generation study.

Irvine Ranch Water District, Sewage Treatment Plant Master Plan, *Irvine, CA*
Senior Advisor. Matt was responsible for providing guidance to the master plan team. HDR assisted with the preparation of a master plan, which characterized sewage for such constituents as organic content and nutrients, determined future sewage conveyance requirements to each of the recycling plants, identified future treatment processes and their associated capacities at both the 28 mgd Michelson Water Recycling Plant and 7.8 mgd Los Alisos Water Recycling Plant, identified beneficial uses of sewage, minimized diversion of sewage to Orange County Sanitation District, and identified ways of managing the sewage collection and treatment systems in the most cost-effective manner while balancing the projected sewage flows with projected recycled water demands. The master plan identified capital improvement projects necessary to implement the recommendations and a corresponding implementation program for those improvements. Changes that were addressed in the master plan included the new biosolids and energy recovery facilities at the Michelson plant, potable reuse program, sewer flows from the Irvine Business Complex, increased loading concentrations, water conservation and increased developments, Michelson plant diversion to San Diego Creek, and Orange County Water District's Green Acres Project.

Clark County Water Reclamation District, Flamingo Water Resource Center Expansion Master Plan and Pre-Design, *Las Vegas, NV*
Solids System Lead Engineer. Matt led the teams in developing treatment approaches for the BRN secondary treatments facilities and the primary sludge screening and thickening facilities. HDR provided master plan and predesign services for expansion of the Flamingo Water Resource Center from 130 mgd to 150 mgd (180 mgd build out). Master planning efforts included evaluation of the current situation (including regulatory drivers, and flows and loads), evaluation of projected future conditions, plant hydraulic modeling, and recommendations for preliminary treatment (bar screens, grit basins, and washer compacter units), primary treatment (gravity thickeners, primary clarifiers, and primary effluent pumping station), secondary treatment (aeration basins, secondary clarifiers, and filter influent pumping station), tertiary treatment (filtration and ultraviolet disinfection), solids handling (dissolved air floatation, waste activated sludge and scum piping, and centrifuge, rotary drum, and gravity belt technologies), interconnection of facilities, side stream management, odor management and control, electrical/instrumentation and controls, site utilities, chemical feed systems, sustainability, transportation corridors and plant access, project delivery, construction packing and schedule, and startup considerations.

City of Las Vegas, Water Pollution Control Facility Stress Testing and Effluent Dechlorination Improvements, *Las Vegas, NV*
Project Manager. Matt provided leadership and oversaw the success of the project. Performed a three-part suite of services at the 91 mgd water pollution control facility. In addition to stress testing at the plant to determine the hydraulic and process capacity of the plant in various scenarios, this project included study and design of improvements to the effluent dechlorination system and preparation of an online and live eight-week operator training course on the plant's denitrification and BNR process trains.



Alice Wang, PE (CA)

Existing Facilities Evaluation Lead, Process Mechanical

With 9 years of experience in the water and wastewater industry, Alice has supported complex master planning efforts for multiple utilities. She brings expertise across flows and loads projections, treatment alternatives evaluation, condition assessments, and life-cycle cost estimation to guide both near-term and long-term capital improvement strategies. Highly proficient in Excel, she synthesizes large, complex datasets into clear, actionable planning insights that drive data-based decision-making. As a project manager, she proactively takes initiative and actively listens to clients to understand their priorities and to align technical work with utility goals. She helps teams deliver practical solutions that strengthen resilient water systems with her organization, meticulous attention to detail, and consistently positive attitude. In the broader water community, Alice currently serves on the CWEA SARBS Board as President and presents at AWWA and WateReuse conferences.

EDUCATION

Master of Science, Environmental and Water Resources Engineering, University of Texas

Bachelor of Science, Chemical Engineering (Environmental Engineering), University of Southern California

REGISTRATIONS

AWWA Utility Risk and Resilience Certificate, California

Professional Engineer, Civil, CA, #95440

INDUSTRY TENURE

9 years

RELEVANT EXPERIENCE

Irvine Ranch Water District, Sewage Treatment Master Plan, *Irvine, CA*
Staff Engineer. The Sewage Treatment Master Plan developed a sewage management strategy to optimize sewage handling through build-out of the IRWD service area. Alice played an integral role to characterize the IRWD sewage through flows and loads analysis, perform calculations and developed conceptual site layouts for future treatment process upgrades at Michelson Water Recycling Plant and Los Alisos Recycling Plant, and to prepare the opinion of probable cost using HDR's cost estimating tool, CostSPACE. She also organized the capital improvement projects and respective phasing for implementation.

West Basin Municipal Water District, Recycled Water Master Plan, *Carson, CA*
Staff Engineer. The Recycled Water Master Plan conducted a comprehensive analysis of West Basin's recycled water facilities (treatment and distribution), and identification of capital improvement projects through the year 2040. Alice played an integral role to analyze the wastewater quality at West Basin's multiple facilities, to prepare the treatment alternatives and conceptual site layouts, and to develop the opinion of probable cost. She also organized the summary of capital improvement projects and project description forms.

Goleta Water District, Corona Del Mar Water Treatment Plant, Asset Inventory, *Corona Del Mar, CA*
Staff Engineer. For the Corona Del Mar Water Treatment Plant Asset Inventory, Alice performed a preliminary desktop rapid condition assessment based on age and documented observations. She also collected rehabilitation and replacement cost estimates from HDR's 20 Year Forecast Tool Table and from vendors for critical assets. From this rapid condition assessment, she organized capital improvement projects in 5-year planning cycles, based upon remaining useful life.

Eastern Municipal Water District, Regional Wastewater Reclamation Facilities Rehab Study, *Riverside County, CA*
Staff Engineer. The Regional Wastewater Reclamation Facilities Rehab Study conducted a high-level operation and condition assessment for four regional wastewater reclamation facilities located in Moreno Valley, Perris, San Jacinto, Temecula. Alice assisted in the strategy to address possible rehabilitation and system improvements needed to maintain reliable service at each facility by developing the Survey123 ArcGIS field forms and post-processing field data. Assessment data collection included asset type (Civil, Structural, Mechanical, Electrical, I&C), physical parameters, visual parameters, and condition ranking. Through this effort, the HDR team identified and prioritized rehabilitation and replacement needs and developed the overall capital improvement program.

Gregorio Estrada, PE (CA), LEED AP

Wastewater Treatment Alternatives Lead, Liquids

Gregorio has extensive experience in the planning, design, construction, and management of wastewater, water, and stormwater projects throughout Southern California. He is an adept leader in wastewater treatment processes and has particular interest in advanced treatment solutions including nutrient removal, filtration, membranes, and disinfection. He is also highly skilled in building group consensus amongst key stakeholders with differing agendas, performing economic evaluations and risk assessments and assisting in negotiations with regulatory agencies.

EDUCATION

Bachelors, Civil Engineering and Environmental Engineering, Stanford University

REGISTRATIONS

Professional Engineer, CA, #67066

LEED Accredited Professional

INDUSTRY TENURE

24 years

RELEVANT EXPERIENCE

Santa Margarita Water District, Chiquita Water Reclamation Plant Influent Screening and Lift Station Upgrades, *Rancho Santa Margarita, CA*

Project Manager. This project included major facility modifications and equipment upgrades to address deficiencies to the screening and influent pumping facilities for SMWD's largest treatment plant. The project included analysis of historical influent flows and projections of future flows, as well as analysis of peak storm conditions to establish design criteria. The preliminary design included an evaluation of screening technologies and development of configuration alternatives that addressed the physical limitations of the existing structure relative to modern screening technologies and mitigated the hydraulic impacts to the downstream pumping systems.

Santa Margarita Water District, Oso Creek Water Reclamation Plant, Design and Construction Services, *Rancho Santa Margarita, CA*

Project Manager. Design of new treatment plant to replace the Oso Creek WRP. The design is partially completed by SMWD staff, and HDR will take over the design and complete it. The design will be done in several packages and issued for construction in a logical sequence. The design includes a new headworks and influent lift station, fine screening, MBR, chlorine contact basin, and effluent pump station. The work includes coordination with the City of MV architect for a co-located office building and community event space.

Eastern Municipal Water District, Regional Wastewater Reclamation Facilities Rehab Study, *Riverside County, CA*

CIP Packaging Lead. Following a high-level operation and condition assessment for four regional wastewater reclamation facilities (RWRF) located in Moreno Valley, Perris, San Jacinto, and Temecula , Gregorio served as the CIP packaging lead to group the plant-wide improvements into distinguishable improvements and rehabilitation packages to inform the capital improvement program. This project developed a strategy to address possible rehabilitation and system improvements needed to maintain reliable service at each facility. HDR developed forms using the Survey123 ArcGIS program to conduct the condition assessment and collect field data. The HDR team worked closely with District staff to complete inspections of their facilities, and gathered data which supported the analysis of the overall condition of each asset. Through this effort, the HDR team was able to assess, identify and prioritize rehabilitation and replacement needs and documented the results in five reports—one R&R report for each RWRF and one final report for the overall district CIP program—and presented the results to various stakeholders.

GREGORIO ESTRADA, PE, LEED AP (CONTINUED)

Irvine Ranch Water District, Michelson Water Recycling Plant Phase 2 Expansion, *Irvine, CA*
Project Manager. Gregorio was responsible for the conceptual design, preliminary design, and final design phases, and resident engineer during construction of the award-winning $87.5 million Phase 2 expansion of the Michelson Water Recycling Plant to 33 mgd. Improvements included influent sewers, headworks, expansion of the primary sedimentation tanks, new primary effluent pumping station and flow control, modified flow equalization basins and other ancillary facilities, and electrical modifications. Two MBR trains were installed with a maximum-month capacity of 11.2 mgd (including recycle flows from the sludge fermentation process). The new MBR facility also included fine screening, permeate pumps, membrane scour blowers, process air blowers, and chemical feed and storage facilities for membrane cleaning.

Irvine Ranch Water District, Michelson Water Recycling Plant Tertiary Filters Improvements, *Irvine, CA*
Project Manager. As technical advisor and construction sequencing lead for this project, Gregorio provided guidance on the preliminary design and final design of improvements to the tertiary filters, backwash supply system, air scour blower, and relevant electrical and instrumentation systems at the Michelson Water Reclamation Plant to improve treatment efficiency and system reliability. This multidisciplinary effort required close coordination to deliver a design in a cost-effective manner, utilizing as-builts and photos for design work. A detailed construction sequence and temporary bypass pumping system were designed to keep the tertiary filters operational during construction, to minimize impacts to plant operations and maintain permit compliance. Gregorio assumed the project manager role during construction.

City of Thousand Oaks, Digesters 1, 2, and 3 Rehabilitation, *Thousand Oaks, CA*
Technical Advisor. Gregorio served as a technical advisor for this project, which included condition assessment, preliminary design, final design, and operational assistance for Digester No. 3. This was the first of three digesters rehabilitated by the City of Thousand Oaks. HDR was selected after a competitive process and was awarded the other two projects based on performance. Work completed by the HDR team included external and internal assessments of structural and mechanical systems and involved sampling concrete for degradation tests. The digester rehabilitation included replacement of piping and corroded steel components and lining of the interior surfaces above the water line.

JB Neethling, PhD, PE (CA)

Technical Expert

JB is considered HDR's top wastewater process engineer, with more than 42 years of wastewater engineering experience ranging from master planning, process evaluation, and modeling to design and startup of wastewater treatment plants. He is the lead process engineer for HDR's largest and most complex wastewater treatment plant projects nationwide. He has specialized expertise in nutrient removal and has been involved in more than 75 biological nutrient removal (BNR) projects nationwide. He is also experienced in evaluating system capacity and bottlenecks, and in developing alternatives for improvements that save costs and produce effective and efficient results.

EDUCATION

Doctor of Philosophy, Civil Engineering, University of California, Berkeley

Master of Science, Civil Engineering, University of California, Berkeley

Bachelor of Science, Civil Engineering, Universiteit Stellenbosch

REGISTRATIONS

Professional Engineer, Civil, CA, #C-44101

INDUSTRY TENURE

48 years

RELEVANT EXPERIENCE

Irvine Ranch Water District, Master Plans for Michelson and Los Alisos Water Reclamation Plants, *Irvine, CA*
Process Engineer. JB was the process engineer for preparation of a 20-year master plan that identifies proposed improvements to expand the 18 mgd Michelson Water Reclamation Plant to 33 mgd and the 5.5 mgd Los Alisos Water Reclamation Plant to 7.5 mgd to meet wastewater treatment and water reclamation demands. BioLac process was evaluated for the Los Alisos plant. Key issues involved the integration of the treatment and reclaimed water distribution facilities, potential addition of satellite plants, anticipation of future water quality requirements for reuse and ocean discharge practices, and timing of capacity expansions to meet reclaimed water demand. Preliminary designs were prepared for the expansion of both plants.

Irvine Ranch Water District, Biosolids/ Energy Management Plan, *Irvine, CA*
Process Engineer. JB was the process engineer in preparation for the biosolids master plan for Michelson Water Reclamation Plant and Los Alisos Water Reclamation Plant. Identified goals and objectives for solids digesters, dryer, and the energy efficiency plan. Determined solids production estimates and mass balance models. Reviewed and verified current and proposed solids handling costs for discharging solids to Orange County Sanitation District. Developed and evaluated alternatives to optimize solids digestion and drying at Michelson plant and solids handling at Los Alisos plant. Explored public/private partnerships solids handling opportunities, requirements, costs, and benefits. Completed preliminary design of selected solids handling recommendation and carbon footprint analysis.

Orange County Sanitation District, Wastewater Treatment Plant No. 1 Activated Sludge Rehabilitation (Job P1-82), *Fountain Valley, CA*
Lead Process Engineer. JB is the lead process engineer to convert an existing 91-mgd activated sludge plant from BOD removal mode to nitrification-denirification maintiaining 91 mgd capacity within the existing tankage. Improvements included reconfiguring aeration basins to step feed, secondary clarifiers, fine and coarse bubble diffusers, and WAS system.

Orange County Sanitation District, Activated Sludge 1 and Secondary Clarifier Rehabilitations (P1-140), *Fountain Valley, CA*
Process Engineer. JB was a process engineer for a comprehensive rehabilitation of the activated sludge facility 1 at Plant No. 1. This project included process modification to enhance effluent quality and overcome issues with sludge rising in the secondary clarifiers, replacement/rehabilitation of major mechanical equipment in Blower Building 1, aeration basins, secondary clarifiers, return activated sludge (RAS)/drain pumping station and all associated electrical and instrumentation and controls. New mixed liquor recycle pumps and associated piping were added to the aeration basins to improve secondary effluent quality.

JB NEETHLING, PhD, PE (CA) (CONTINUED)

City of San Buenaventura, Ventura-Aeration Blower Project, *San Buenaventura, CA*
Technical Advisor. In 2008, the City of San Buenaventura completed a design for the Ventura Water Reclamation Facility to replace the existing single-stage aeration blowers, which was not executed. In 2016, the City contracted with HDR to evaluate the existing and future air demands and design a more efficient aeration system. The project involved demolition of the existing aeration blowers and building, construction of a new blower building and electrical room, installation of more efficient high-speed turbo blowers that utilize a lower-voltage (480V) power supply. HDR developed a biological process model using BioWin to determine current and future aeration requirements in consideration of the City's plan to evaluate the simultaneous nitrification denitrification for increased nitrogen removal. HDR designed modifications to the existing aeration droplegs to accommodate flow control valves and meters to facilitate this evaluation and allow the City more automated control and operational flexibility.

Bay Area Clean Water Agencies, Nutrient Removal Optimization and Upgrade Study, *San Francisco, CA*
Project Manager. JB was the project manager for a groundbreaking study that will shape the future of wastewater treatment for 39 publicly owned treatment plants, with a combined capacity of approximately 900 mgd, serving 6.5 million people, and to protect the health of the San Francisco Bay. Collaborated with BACWA and its member agencies to help shape the nutrient removal regulatory framework and strategy for all San Francisco Bay dischargers. Visited each of BACWA's 39 member agencies' plants to make recommendations on optimization strategies and/or facility upgrades to meet the new regulations, delivering to each agency a customized roadmap for future improvements that could easily total $5 to $9 billion of upgrades over the coming decade.

City of San Jose, Process Optimization Study Peer Review and Subject Matter Expert Services, *San Jose, CA*
Subject Matter Expert/Technical Advisor. Served as a subject matter expert on the San José-Santa Clara Regional Wastewater Facility process optimization study. The purpose of the process optimization study is to identify and evaluate options for optimizing the Regional Wastewater Facility unit treatment processes, individually or in combination, to improve wastewater and solids process treatment efficiencies while accounting for future regulations and future flows and loads. Attended meetings and workshops to provide technical input to the flow and loads/regulatory projections, screening criteria and issues identification, early review of alternatives, alternatives analysis, and implementation strategy. Provided peer review and provided comments on the following documents/memoranda: (1) Regional Wastewater Facility background review and performance evaluation summary; (2) screenings criteria and issues identification; (3) selected alternatives for process optimization; (4) identified process optimization solution(s); (5) implementation strategy and opinion of probable construction costs; and (6) Final summary document.

Central Contra Costa Sanitary District, Steam and Aeration Blower Systems Renovations and Evaluation Predesign, Blowers Improvements, Basin Diffuser Replacement, and Seismic Upgrades, *Contra Costa, CA*
Process QA/QC. Provided quality assurance/quality control review of the testing and sampling performed for the secondary treatment facilities, computational fluid dynamic modeling, future nutrient removal impacts evaluation, and development of design criteria and feasible alternatives for use in business case evaluations and predesign development. Secondary treatment facilities testing and sampling included optimization of anaerobic selector, wastewater characterization, micro-organisms growth rate, and field oxygen transfer efficiency testing and sampling.

Teigan Gulliver, PE (CA, CO)

Solids & Energy Recovery

Teigan is a water and wastewater professional engineer with 16 years of experience with a focus in solids treatment processes and biosolids. After attaining a B.S. degree in Civil Engineering at the University of Minnesota, she spent six months hiking the Appalachian Trail and then two and a half years in Peru as a Water and Sanitation Peace Corps Volunteer. After the Peace Corps, she pursued a Master's degree at the Colorado School of Mines studying microplastics in wastewater. These independent experiences continue to shape Teigan's leadership, followership, teamwork and communication skills, which she uses in and outside of her profession. She enjoys discussing operational challenges with the plant staff to problem solve daily operational issues and incorporate them into design.

EDUCATION

Master of Science, Civil & Environmental Engineering, Colorado School of Mines

Bachelor of Science, Civil Engineering, University of Minnesota - Twin Cities

REGISTRATIONS & CERTIFICATIONS

Professional Engineer, Civil, CO #0049979

Professional Engineer, Civil, CA #95859

INDUSTRY TENURE

16 years

RELEVANT EXPERIENCE

Eastern Municipal Water District, Regional Water Reclamation Facilities Rehab Study, *Riverside County, CA*
Project Engineer. Teigan served as a project engineer for the condition assessment of EMWD's five Regional Water Reclamation Facilities, from headworks to tertiary effluent pumps, to provide recommendations to package higher priority issues and potentially modify CIP.

Union Sanitary District, Solids System Evaluation, *Union City, CA*
Project Engineer. Developed a master plan or strategic roadmap for sequencing future solids process improvements at the Alvarado Wastewater Treatment Plant, which included identifying an evaluating methods of optimizing and improving the existing solids treatment processes, evaluating the operational and construction constraints for the list of recommended projects and developing the ideal construction sequence in which these projects should be constructed, providing planning-level construction costs and schedules for each project, and developing short- and long-term recommendations for the solids treatment processes.

Irvine Ranch Water District, Sewage Treatment Plant Master Plan, *Irvine, CA*
Project Engineer. HDR prepared the Sewage Treatment Master Plan, which characterized historical sewage flows and loading to IRWD's two water recycling plants, projected future flows and loading through build-out, evaluated existing treatment capabilities and identified deficiencies, identified current and future end uses, and developed treatment process upgrades and expansion requirements for the 28 mgd Michelson Water Recycling Plant (WRP) and the 7.8 mgd Los Alisos WRP. The master planning effort aimed to maximize the beneficial reuse of sewage, minimize diversion of sewage to Orange County Sanitation District, and identifies ways of managing the sewage collection and treatment systems in the most cost-effective manner while balancing the projected sewage flows with projected recycled water demands.

Pima County Wastewater, Biosolids Masterplan *Tucson, AZ*
Deputy PM and Senior Engineer. This project is to update the last master plan, addressing county primary concerns with biosolids disposal, including, PFAS/PFOA pending regulations, disposal and biosolids quality, change in solids process with struvite recovery equipment, land and disposal availability, public perception and concern. The Master Plan provides a long-term, sustainable work plan for the County's solids processing and residuals regional management for the main plant (Tres Rios with 50 mgd capacity), and five subregional WRFs with combined flow of 40 mgd capacity in the Tuscon area. Teigan's role includes assisting project manager and task leads in project management, evaluating existing biosolids management strategy, conduct a risk analysis of biosolids management, identify potential technologies, develop alternatives, recommend bench or pilot testing.

TEIGAN GULLIVER, PE (CA, CO) (CONTINUED)

Parker Water and Sanitation District, South Water Reclamation Facility Master Plan, *Parker, CO*
Deputy Project Manager / Lead Engineer. Parker Water & Sanitation District requested engineering services for the development of a South Water Reclamation Facility (SWRF) Treatment Master Plan. The District's long term goal for water reclamation previously included the decommissioning of the SWRF upon completion of any one of the ongoing and/or planned expansions of the North Water Reclamation Facility (NWRF). During the permitting phase of the current NWRF expansion, revised permitting requirements were documented by the Colorado Department of Public Health and Environment. Since the District's discharge permits for the NWRF and the SWRF are combined, continued operation of the SWRF must be evaluated. This assessment shall include an evaluation of existing regulatory requirements, evaluation of permit compliance based on current and future flows, and an alternatives analysis to identify potential treatment process upgrades to maintain continued operation. Reevaluating the District's long term goal for water reclamation is being driven by regulatory conditions along with a rapid increase in service area development, which requires non-interruptible treatment of wastewater.

St. Vrain Sanitation District, Master Plan, Expansion Design, and Construction Services *Firestone, CO*
Lead Solids Engineer. HDR developed a master plan that provides a roadmap for the District to meeting stringent effluent discharge permit limits, address future growth, and renewing aging plant infrastructure. An optimization/plant capacity study was conducted to identify bottlenecks and problems needing resolution. Teigan evaluated the existing solids stream processes and potential new technologies for solids processing, stabilization, and hauling. She presented alternatives in workshops to the District staff to facilitate a collaborative decision on the path forward, documented in the final Master Plan Report. After our responsive, quality work, HDR is now providing the design and construction services liquids and solids stream improvements that were defined in the Master Plan, where Teigan is the Solids Process Project Lead. Expansion includes construction of a new solids handling facility with additional solids stabilization, new dewatering, new solids loadout, additional biofilter, retrofitted secondary treatment, new aeration and solids blowers.

Town of Erie, Colorado, North Water Reclamation Facility Expansion Plan, *Erie, CO*
Project Engineer. The primary purpose of this Expansion Plan was to summarize the anticipated growth and capacity needs for the Erie NWRF over the next 20 years, and to develop a set of recommendations for improvements and expansions at the NWRF to be included in the plant's next expansion project. The projected growth evaluation resulted in a ten-year maximum month influent flow value of 3.03 mgd, and a ten-year maximum month solids load of 11,700 dry lb/day. The twenty year maximum month influent flow is 4.95 mgd, and the twenty-year maximum month solids load is 18,300 dry lb/day. These values will serve as the design basis for the NWRF's next expansion design project. The complete set of recommendations for expansions and improvements at the NWRF were all incorporated into a CIP, which provides the Town with a roadmap for implementing future improvements that will help the plant to reliably treat and process wastewater flows for the next 20 years. As a result of this Expansion Plan, the Erie NWRF will be well-prepared to effectively address any impending changes affecting the plant in the future, including rapid population growth and regulatory changes.

Jacquelin Mutter

Effluent Utilization Evaluation Lead

Jacquelin is an experienced project manager focusing on recycled water plans and projects. Her reuse expertise spans the full project lifecycle, from planning and feasibility to demonstration design and regulatory support, capital program development, and implementation. She has led major efforts for LASAN and LADWP, including recommending $13B inclusive of new water supply projects creating the initial planning foundation for DCTWRP AWPF and Pure Water LA, stormwater, and climate resilience and rehabilitation projects. She is a recognized One Water thought leader in the industry, and has co-authored Water Research Foundation projects, including the One Water Cities Rating Framework (4969), One Water Planning Guidance (5175), and One Water Program Management (5196). Jacquelin's collaborative and people-first style brings a human-oriented perspective to all work she manages or advises. She remains active with the Southern California WateReuse chapters and CA Potable Reuse Permitting & Cwompliance Committee, US Water Alliance One Water Council, and the SCWC Recycled Water Task Force.

EDUCATION

Master of Business Administration, Hult International Business School

Bachelor of Science, Civil Engineering, University of Southern California

PROFESSIONAL AFFILIATIONS

WateReuse: Potable Reuse Permitting & Compliance Committee, Orange County Chapter Officer, LA Chapter Member

Southern California Water Coalition: Board Member, Recycled Water Task Force

US Water Alliance: One Water Council Member, One Water Resources Advisory Group, Los Angeles Delegation Member

INDUSTRY TENURE

18 years

RELEVANT EXPERIENCE

Otay Water District and Sweetwater Authority, Recycled Water Intertie Planning Study, *San Diego, CA*
Project Manager. Assess potable reuse options indirect and direct potable reuse as well as water supply augmentation sources to expand non-potable or potable reuse options. The client received a USBR grant for the effort and the report meets and exceeds the stated grant requirements.

Amazon Web Services Data Centers: Evaluation of Potential Source Waters, *Various US Locations*
Project Manager and Reviewer. Provide project management services to support purchase orders for water consultancy services. Review source water evaluations at various data center locations across the United States.

Tucson Water, Tres Rios Advanced Water Purification Facility, *Tucson, AZ*
Potable Reuse Advisor. Provide the program management team with CA potable reuse expertise and experience. Requests include and are not limited to advising on involvement of NWRI, membrane technology advancements, and treatment process requirements including equalization and brine disposal.

Los Angeles Sanitation and Department of Water and Power, Donald C. Tillman Water Reclamation Plant, Advanced Water Purification Facility Program and Construction Services Support, *Los Angeles, CA*
Program Advisor. Attend and ask questions in the design and construction review meetings lead by the progressive design build team.

South Coast Water District, Lower Lagunita Sewer Discharge Study, *Dana Point, CA*
Project Manager. The South Coast Water District (SCWD) evaluated a gravity sewer system installed along the beach in the Lower Lagunita area of South Laguna. The existing system is vulnerable to high tide and wave events. The proposed study assessed the potential rerouting of residential sewage flow through the installation of vacuum pumps for each residence with connections to a sewer line located at a higher elevation.

Los Angeles County Department of Public Works, Malibu Mesa Water Reclamation Plant Climate Change Vulnerability Assessment and Mitigation Plan, *Los Angeles, CA*
Resilience Planning Lead. Updated the climate change vulnerability assessment of the Malibu Mesa Water Reclamation Plant. Assessed wildfire, storm surge, temperature rise, and their impacts on water quality. Developed a mitigation plan with cost estimates to address new risks.

JACQUELIN MUTTER (CONTINUED)

Los Angeles Sanitation & Environment, Los Angeles-Glendale Water Reclamation Plant Water Technology Center & Urban Riverway Direct Potable Reuse Demonstration, *Los Angeles, CA*
Project Manager. Managed an integrated team of engineers, architects, and urban planners from concept to final design of a DPR demonstration facility and urban riverway features. The project was intended to revitalize property along the LA River on the LA-Glendale Water Reclamation Plant (LAGWRP) campus, creating an accessible public open space and demonstrating the value of renewed water with interactive water features. The water features are sustainably supplied by a 60-gpm AWPDF that is housed in a celebratory structure doubled with educational and public education platforms. Finally, a water tasting water bar was designed for communal discussions raising the awareness level of Angelinos regarding water scarcity. The DPR demonstration facility will be multi-functional and multi-beneficial by providing opportunities for public engagement as well as training for operations staff in advanced treatment technologies and processes used for potable reuse, including: Ozone, BAF, UF, RO, UV, and Calcite Contactor.

King County, Clean Water Plan, *Seattle, WA*
Scenario and Strategic Utility Planning Lead. Co-lead both the Scenario Planning and Strategic Utility Planning with various engagement streams including: the client planning team, Steering Committee, and client Subject Matter Experts; as well as supporting the Regional Engagement Consultant to engage the community through broad pushes, focused workshops, and an Advisory Group. This plan will propose comprehensive actions (policies, programs, and projects) to address the County's challenges such as compliance with EPA's consent decree, climate change, environmental and social justice, and affordability. The actions will be evaluated using Action Description Sheets (similar to Business Case Evaluation forms) and scored against priority-based evaluation criteria (similar to a TBL analysis) and ranked such that the highest scoring actions will be bundled as a preferred strategy.

Otay Water District, Ralph W. Chapman Water Reclamation Facility Master Plan, *San Diego, CA*
Assistant Project Manager. Jacquelin evaluated existing systems at the Ralph W. Chapman Reclamation Facility. Developed and prioritized capital improvements with planning-level cost estimates for over 30 projects.

City of Buda, Wastewater System Master Plan and CIP, *Buda, TX*
Assistant Project Manager. Analyzed the City's existing wastewater system and planned for future growth. Provided consultation to develop capital improvement projects for collection, treatment, and disposal. Delivered a CIP aligned with population growth projections.

Tyler Mach, PE (CA, FL, AZ)

Reuse Lead

Tyler offers over 13 years of experience in master planning, design, project management, permitting, and construction oversight of existing and new water treatment facilities. She has experience managing and executing design projects with CMAR delivery methods and providing engineering services during construction, as well as detailed design and optimization of various water treatment processes. She has multifactuted experience, ideal for on-call services execution. She's focused on many aspects of water treatment including coagulation, filtration, chemical systems, disinfection, bench and pilot scale testing, water chemistry optimization and more.

EDUCATION

Master of Science, Environmental Engineering, University of Central Florida

Bachelor of Science, Environmental Engineering, University of Central Florida

REGISTRATIONS

Professional Engineer, Civil, CA #97317

Professional Engineer, Civil, FL #87503

Professional Engineer, Civil, AZ #7728

INDUSTRY TENURE

13 years

RELEVANT EXPERIENCE

City of Las Vegas Water Treatment Plant Facility Plan/Preliminary Engineering Report, *Las Vegas, NM*
Lead Treatment Engineer. HDR is providing professional engineering services to the City of Las Vegas for a new water treatment plant in Montezuma, NM. In the spring of 2022, wildfires directly impacted the watershed of the Gallinas River which is the City's main drinking water supply source. HDR is completing development of a preliminary design for the new WTP which includes evaluation of treatment technologies for effective removal of contaminants including ash, debris, and other dissolved constituents in the raw water supply. Responsibilities included preliminary design development for a 3.5 mgd facility compromised of coagulation, membrane filtration, pressure vessel GAC, UV disinfection, and developing an Engineer's Opinion of Probable Construction Costs for the new facility.

Town of Gilbert, North Water Treatment Plant Technical Advisor and Construction Management Services, *Gilbert, AR*
Senior Engineer. The Town of Gilbert currently operates an existing 40 mgd North Water Treatment Plant (NWTP) that is in poor physical condition with difficulty treating changing source water quality. The Town is constructing a new 65 mgd water treatment plant co-located at the existing site in 5 phases while maintaining operations. The treatment process selected includes presedimentation, ballasted flocculation, ozone, biofiltration, GAC contractors, and reservoir aeration, and is intended to treat a wide range of water quality conditions, provide operating flexibility, and reduce life cycle costs. As the technical advisor, HDR is performing design reviews, operations planning and support, cost and schedule reviews, and supports pilot testing for the project. In addition, HDR is providing third party project management/construction management support, including construction inspections and construction management for electrical, solids handling and chemical facilities.

Medina County Sanitary Engineer, Westfield Center Water Treatment Plant Technical Evaluation, *Medina County, OH*
Lead Treatment Engineer. HDR was contracted to evaluate alternative technologies for a 1.0 mgd plant expansion. Responsibilities included evaluation of Ion Exchange (IX) technologies including pressure vessel ion exchange and suspend ion exchange to achieve water treatment goals, preliminary design of alternatives including layouts and cost estimates, and development of a summary technical memorandum with recommendations.

Medina County Sanitary Engineer, Westfield Center Water Treatment Plant Design, *Medina County, OH*
Lead Process Engineer. HDR was contracted to perform design services for a new 1.0 mgd WTP, including new filter vessels, ion exchange vessels, soda ash feed and dosing, sodium hypochlorite feed and dosing, clearwell and pumping. Specific responsibilities include preliminary design development, basis of design report writing, creation of drawings and specifications for final design, mentorship

TYLER MACH, PE (CA, FL, AZ) (CONTINUED)

of EITs, and interdisciplinary coordination.

Arizona Department of Environmental Quality PFAS Mitigation Assistance, On-Call Services, *Arizona*
Project Engineer. HDR is providing on-call services to ADEQ for PFAS mitigation assistance to small and disadvantages public water systems in Arizona. Scoped work could include PFAS specific training, bench and pilot scale testing, feasibility studies, design services, construction administration services, permitting, startup and commissioning support, and general assistance.

Tucson Water Planning On-Call Services, *Tucson, AZ*
Project Engineer. HDR is providing on-call services to Tucson Water providing general assistance, staff augmentation, feasibility studies, design, owner's advisor services, compliance assistance, permitting assistance, and the like. Specific on-call projects that Tyler has lead include multi-year assistance to Tucson Water for LCRR/LCRI compliance. She's also serving as Tucson's advisor for implementation of an Advanced Water Purification Project. Responsibilities include project management, interdisciplinary coordination, report writing, data analysis, conceptual treatment design, and regulatory support.

Water Infrastructure Finance Authority of Arizona, Funding Programs Management Consult, *Arizona*
Project Engineer. HDR is providing WIFA as-needed support for funding programs management. Specific responsibilities include assistance in developing solicitation documents, evaluation manuals, staff augmentation, and programmatic support for WIFA long term water augmentation fund.

Confidential Client, *Hawaii*
Senior Engineer. HDR previously prepared a design concept, DD1391 programming document and a utilities study for a water treatment plant. This task order include preparation of a design-bid-build construction package for a temporary and permanent water treatment facility and associated infrastructure improvements. The project includes vertical turbine well pumps, packed tower aerator system with blowers and transfer pumps, granular activated carbon (GAC) systems, clear wells and transfer pumps, and chemical treatment systems. Responsibilities included development of sizing criteria to achieve adequate disinfection, development of preliminary and final design drawings and specifications, process and instrumentation diagrams, control narratives, and technical write up for basis of design report.

City of Las Vegas, Water Treatment Plant Emergency Response Support, *Las Vegas, NM*
Process Engineer. HDR is providing as-needed engineering services in support of the City's emergency fire response for the City's WTP facility. In spring of 2022, area wildfires directly impacted the watershed of the Gallinas River which is the primary source of surface water supply for the City's WTP. As a part of this project, HDR is providing engineering and technical support as requested by the City to determine what measures will need to be implemented to allow the WTP to continue providing reliable water supply for the City. Responsibilities include review of historical and recent water quality data and changes as a result of the fire, jar testing for treatment optimization, extensive review of current coagulation processes, and guidance on full scale optimization.

Mario Benisch, PE (OR)

Process Modeling

Mario is a senior process engineer who has been involved in the evaluation and/or design of more than 70 wastewater treatment plants across the U.S. His primary focus is on biological and chemical process design of wastewater treatment systems, process modeling, hydraulic modeling, facility and master planning, and emerging treatment technologies. Mario's experience with BioWin modeling spans more than 16 years and over 100 wastewater treatment individual projects. He has had a key role in several studies related to nutrient removal reliability, optimization, and limit of treatment. Over the years, Mario contributed as chapter lead, coauthor, and/or reviewer for HDR's internal guidelines for aeration system design, flows and loads, facility planning, and hydraulic modeling, as well as for industry reference books.

EDUCATION
Master of Science, Environmental Engineering, Stuttgard University

REGISTRATIONS
Professional Engineer, OR, #58988PE

INDUSTRY TENURE
35 years

RELEVANT EXPERIENCE

Irvine Ranch Water District, Michelson Wastewater Treatment Plant Phosphorus Recovery Feasibility Analysis, *Irvine, CA*
Project Lead. Mario was the project lead for feasibility study evaluating the potential for phosphorus recovery based on implementation of Ostara's Crystal Green process at the Michelson WWTP. The analysis considered all major economic factors and conducted process simulations to predict future product yield under different scenarios. Durham AWWTP Phosphorus Recovery Implementation, Clean Water Services, Hillsboro, OR. Technical Adviser. Provided technical support from the early stages of piloting through full-scale implementation and startup for the first full-scale phosphorus recovery facility in the U.S. at the Durham AWWPT.

East Bay Municipal Water District, Side Stream Nitrogen Removal, *San Francisco, CA*
Lead Process Engineer. Mario was the lead process engineer for sidestream nitrogen removal studies that evaluated different technology options to remove very high ammonia loads at EMMUDs main facility in San Francisco. Due to significant industrial load receiving, the recycle ammonia was double that of a typical facility. Part fo the delivery was spreads based model to size all reviewed sidestream treatment processes.

Goleta Sanitation District, Goleta Wastewater Treatment Plant Facility Expansion and Upgrade, *Goleta, CA*
Lead Process Engineer and Process Modeler. Provided process modeling and design for facility upgrade to full secondary treatment of this 11.5-MGD facility which incorporates trickling-filter technology, convention-activated sludge, anaerobic digestion, screw-press dewatering, sludge storage lagoons, beneficial reuse of biosolids, and tertiary membrane filtration for effluent reuse.

Orange County Sanitary District, Wastewater Treatment Plant Facility Upgrade, *Fountain Valley, CA*
Process Engineer and Process Modeler. Provided process modeling and process design for the Activated Sludge Plant Rehabilitation project which included upgrades to the activated-sludge system to provide filament control, increased aeration-blower capacity, increased oxygen-transfer capacity, improved air distribution, and increased WAS-pumping capacity.

City of Victor Valley, Wastewater Treatment Plant Nitrogen Removal Upgrade, *Victor Valley, CA*
Lead Process Engineer and Process Modeler. Provided process modeling and process design for conversion of existing conventional activated-sludge facility to 23-MGD NDN MBR facility capable of producing effluent with less than 6 mg/L of total nitrogen. Process design included 4-Stage NDN MBR process, primary sludge fermentation, anaerobic digestion, and new sludge dewatering.

Michael Falk, PhD, PE (CA)

Regulatory

Mike is HDR's West Region Wastewater Market Sector Leader and has more than 16 years of water and wastewater engineering experience, with specialized expertise in nutrient removal process design, nutrient regulations, and energy optimization at wastewater treatment facilities. His experience is exceptionally broad with background on master planning, nutrient regulations, process design, energy audits and optimization, plant wide modeling, emerging technologies evaluation, and developing strategies for meeting low level nutrient discharge permits.

EDUCATION

Doctor of Philosophy, Civil & Environmental Engineering, University of California, Davis

Master of Science, Environmental Engineering, University of Massachusetts

Bachelor of Science, Civil Engineering, Virginia Polytechnic Institute and State University

REGISTRATION

Professional Engineer, Civil, CA, #C-77787

CERTIFICATION

Institute for Sustainable Infrastructure (ISI) Envision Sustainability Professional

INDUSTRY TENURE

23 years

RELEVANT EXPERIENCE

Central Contra Costa Sanitary District, Recycled Water Feasibility Study, *Martinez, CA*
Process Design. Mike provided process design services for three separate engineering projects that included recycled water study, nitrification, and biological nutrient removal. The recycled water study report evaluated a module approach to take secondary treated wastewater and apply biological treatment to nitrify ammonia by way of a moving bed biofilm reactor (MBBR), followed by reverse osmosis to remove TDS. As for the nitrification and biological nutrient removal reports, the studies considered re-configuration and basin expansion required at the existing BOD removal facility to achieve a wide range of treatment objectives The biological configurations considered included A2O, 4-stage and 5-stage Bardenpho, integrated fixed-film attached sludge, MBBR, and biologically active filter.

California Association of Sanitation Agencies, Nutrient Management Support in Southern California, *Sacramento, CA*
Nutrient Management. Mike provided consulting services related to nutrient management in Southern California, which focused on nitrogen species, with particular attention to wastewater treatment plants with ocean discharges. He presented an overview on nutrient management stories across the country (emphasis on the Bay Area, Puget Sound, Delaware River Watershed, and Montana River), as well as shared technical white papers that HDR developed for the BACWA.

Eastern Municipal Water District, Hemet/San Jacinto Wastewater Treatment Facility, *Riverside County, CA*
Project Manager. Mike provided support in assessing the current capacity of the existing wastewater reclamation facility. The evaluation was composed of modeling the biological process and supplying the municipality with a list of alternatives to promote meeting the permit requirements until the anticipated plant upgrade in 2014.

Dublin San Ramon Services District, Wastewater Treatment and Biosolids Facilities Master Plan, *Dublin, CA*
Project Manager. Mike was the project manager for the master plan. He provided liquid process evaluation and input to the regulatory requirements technical memorandum (TM) to include Bay Area Clean Water Agencies (BACWA) activities and potential future nutrient requirements, as well as risk factors and probabilities associated with each future nutrient requirement identified. Mike assisted with emergency analysis of the energy and cogeneration systems as well as possible energy generation expansion alternatives. He participated in a review panel (visioning panel workshop) to evaluate new developments and technologies in wastewater resource recovery facilities and recommended which of these technologies should be considered for the district future. Mike identified and evaluated nutrient removal alternatives to achieve nutrient reduction goals consistent with the nutrient control study being completed for BACWA. He also assisted in identifying and evaluating biosolids management alternatives and

MICHAEL FALK, PhD, PE (CA) (CONTINUED)

assessing recycled water treatment alternatives. Mike provided QA/QC review of the existing facilities and capacity TM. Resource recovery technologies that were evaluated for the visioning panel workshop included nutrient recovery, biosolids recovery, and beneficial usage, and water recovery for reuse, including indirect and direct potable reuse applications.

Dublin San Ramon Services District, Unit Process Succession Planning Documentation, *Dublin, CA*
Project Manager. Mike was the project manager for identification of opportunities to optimize existing unit processes, as well as provided guidance in evaluating planning process changes or expansions and troubleshoot immediate issues.

Camarillo Sanitary District, Wastewater Master Plan Update, *Camarillo, CA*
Process Engineer. Mike served as a process engineer during preparation of the wastewater system master plan update, which was needed to address future population and flow projections, evaluate the treatment processes from an efficiency and regulatory compliance standpoint, and determine required infrastructure improvements. He provided preliminary wastewater characterization. Mike prepared a plant-wide steady-state mass balance to size facilities based on projected flows and loads. He evaluated treatment plant alternatives, including liquid stream and sidestreams. Treatment plant alternatives that were evaluated included:
(1) rehabilitate and expand Plant 3;
(2) rehabilitate Plant 1 and Plant 3;
(3) new treatment process at existing site, and
(4) new treatment process near Lift Station 3.
Mike also assisted with preparing a 10-year capital improvement plan of treatment plant project using pairwise analysis, costs, budgets, and risk reduction considerations.

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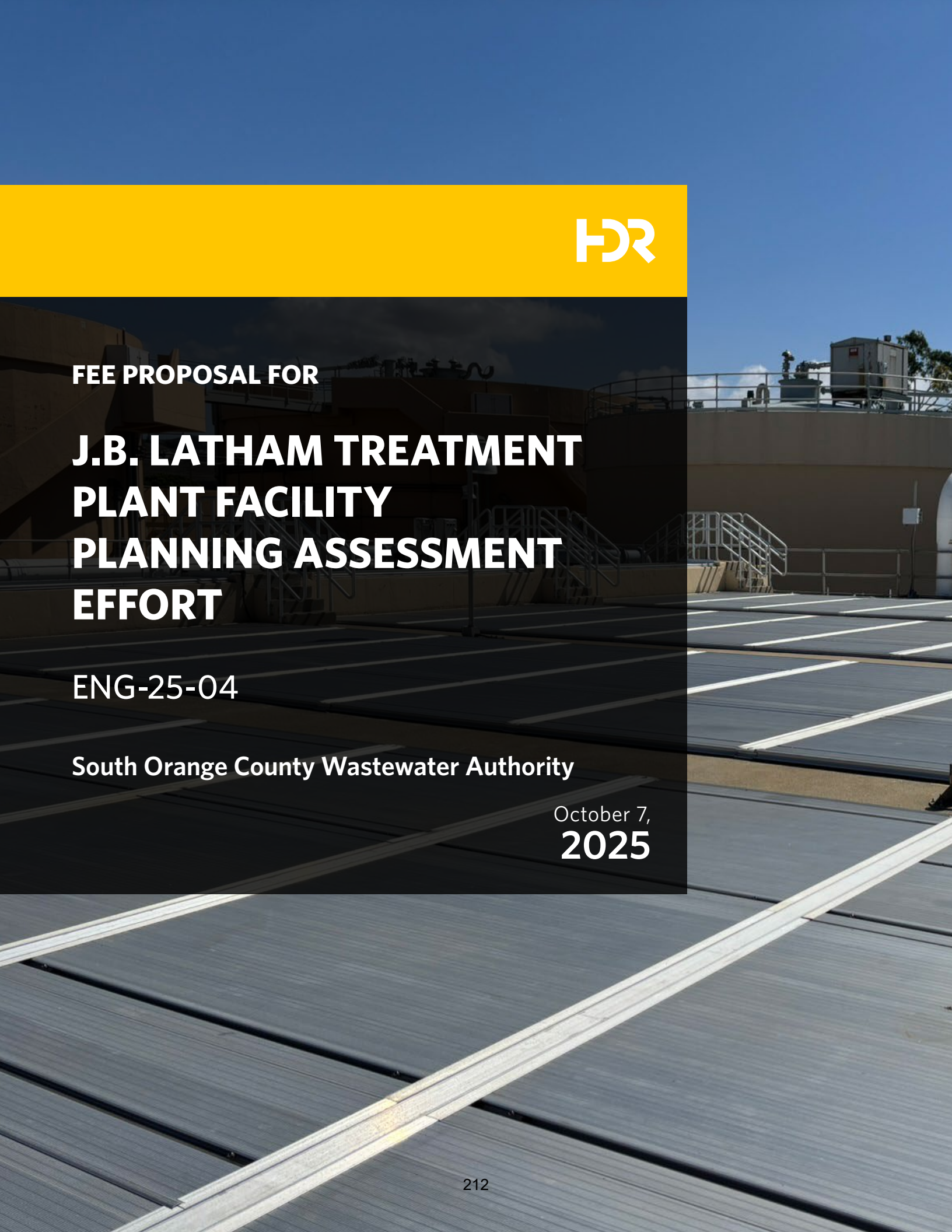

FEE PROPOSAL FOR

J.B. LATHAM TREATMENT PLANT FACILITY PLANNING ASSESSMENT EFFORT

ENG-25-04

South Orange County Wastewater Authority

October 7,
2025

October 7, 2025
South Orange County Wastewater Authority
Administration Building
34156 Del Obispo Street
Dana Point, CA 92629

Attn: Ms. Roni Young Grant, PE, Capital Improvement Program Manager

RE: Fee Proposal for Engineering Services for the J.B. Latham Treatment Plant Facility Planning Assessment Effort, ENG-25-04

Dear Ms. Grant and Selection Committee Members, ,

HDR Engineering, Inc. (HDR) has developed a fee proposal for the services being requested by the South Orange County Wastewater Authority (SOCWA). SOCWA desires to retain professional and technical expertise to execute the facility planning assessment effort. The professional services associated with the work are described in our technical proposal and are further detailed in our scope of work. This fee proposal includes a breakdown of our proposed hours and fee.

We are excited about this opportunity to collaborate with you and your staff. If you have any questions, please contact our proposed Project Manager Amy Omae at 714.730.2344 or at Amy.Omae@hdrinc.com. She will be your point of contact for this project. We appreciate your consideration and look forward to hearing from you.

Sincerely,

HDR Engineering, Inc.

Anna Lantin, PE
Vice President, Authorized Signatory

Amy Omae, PE
Project Manager

hdrinc.com

3230 El Camino Real, Suite 200, Irvine, CA 92602-1377
T 714.730.2300 **F** 714.730.2301

South Orange County Wastewater Authority
J.B. Latham Treatment Plant Facility Planning Assessment Effort, ENG-25-04
Estimated Level of Effort and Fee

		TASKS													FEE				
No.	Description	Principal	Project Manager	Quality Reviewer	Sr Technical Expert	Senior Engineer	Project Engineer	Staff Engineer	Cost Estimator	BIM Technician	Document Specialist	Project Coordinator	Accountant	Total Labor	Labor	Subs	Direct Costs	Total	Rounded Total
	Client Billing Rates	*$390*	*$360*	*$380*	*$390*	*$300*	*$235*	*$150*	*$275*	*$160*	*$140*	*$120*	*$170*	*$242*					
1	**Project Management**																		
1.1	Project Control Plan		14				26							40	$11,150	$0	$56	$11,206	
1.2	Project Management, Admin, QMS, and Invoicing	6	76	5	1	1	2	2				32	32	156	$42,195	$0	$211	$42,406	
1.3	Meetings		29																
1.3.1	Kick-Off Meeting (1, 1 hour each)		1		1	1	1	1						5	$1,435	$0	$64	$1,499	
1.3.2	Progress Meetings (12, 1 hour each)		12		6	6	12	12						48	$13,080	$0	$65	$13,145	
1.3.3	Staff Workshops (5, 2 hours each)		10		4	2	20	20						56	$13,460	$0	$322	$13,782	
1.3.4	Board Presentations (3, 2 hours each)		6		6		6	6						24	$6,810	$0	$193	$7,003	
	Subtotal 1 | Project Management	**6**	**119**	**5**	**18**	**10**	**67**	**41**	**0**	**0**	**0**	**32**	**32**	**329**	**$88,130**	**$0**	**$911**	**$89,041**	**$89,000**
2	**Existing Facilities Evaluation**																		
2.1	Description of Existing Facilities		1			6	8	16						31	$6,440	$0	$32	$6,472	
2.2	Review Existing Reports and Models				1	6	8	20						35	$7,070	$0	$35	$7,105	
2.3	Flows and Loads Analysis													0	$0	$0	$0	$0	
2.3.1	Historical Wastewater Flows and Loading		2		5		12	44						63	$12,090	$0	$60	$12,150	
2.3.2	Projected Wastewater Flows and Loads		2		5		16	44						67	$13,030	$0	$65	$13,095	
2.4	Existing Facilities Analysis													0	$0	$0	$0	$0	
2.4.1	Establish Planning and Design Criteria		2		8		24	36						70	$14,880	$0	$74	$14,954	
2.4.2	Hydraulic Capacity Evaluation		2		8	24	12	40						86	$19,860	$0	$99	$19,959	
2.4.3	Process Model Configuration		2		8	40	12	40						102	$24,660	$0	$123	$24,783	
2.5	Condition Assessment of Major Unit Processes		4		4	48	32	40						128	$30,920	$0	$413	$31,333	
2.6	Technical Memorandum		6	13	8	13	28	44		5	9			126	$29,360	$0	$147	$29,507	
	Subtotal 2 | Existing Facilities Evaluation	**0**	**21**	**13**	**47**	**137**	**152**	**324**	**0**	**5**	**9**	**0**	**0**	**140,901**	**$158,310**	**$0**	**$1,048**	**$159,358**	**$159,400**
3	**Wastewater Treatment Alternatives**																		
3.1	Identify and Develop Treatment Alternatives													0	$0	$0	$0	$0	
3.1.1	Liquid Treatment Alternatives		2		32	40	2	24	24					124	$35,870	$0	$179	$36,049	
3.1.2	Solids Treatment and Disposal Alternatives		2			72	2	24	24					124	$32,990	$0	$165	$33,155	
3.1.3	Evaluate Electrical Distribution, Instrumentation, and Control Systems		2				40	24	8					74	$15,920	$0	$80	$16,000	
3.1.4	Evaluate Energy Recovery Facilities		2			20		12						34	$8,520	$0	$43	$8,563	
3.1.5	Support Processes and Facilities		3		7	20	16	24		17				87	$19,890	$0	$99	$19,989	
3.1.6	Site Planning Evaluation		4		4	4	8	16	7					43	$10,405	$0	$52	$10,457	
3.2	Risk and Resilience Planning Elements		4		8	8	16	20						56	$13,720	$0	$69	$13,789	
3.3	Technical Memorandum			4	8	8	32	48		4	8			112	$23,520	$0	$118	$23,638	
	Subtotal 3 | Wastewater Treatment Alternatives	**0**	**19**	**0**	**51**	**164**	**84**	**144**	**63**	**17**	**0**	**0**	**0**	**654**	**$160,835**	**$0**	**$805**	**$161,640**	**$161,600**
4	**Effluent Utilization Evaluation**																		
4.1	Multi-Criteria Decision Matrix		2		4	4	8							18	$5,360	$0	$27	$5,387	
4.2	Identify and Evaluate Effluent Management Options		3		5	35	23	24						90	$22,535	$0	$113	$22,648	
4.3	Technical Memorandum			5		16	20	18		7	7			73	$16,200	$0	$81	$16,281	
	Subtotal 4 | Effluent Utilization Evaluation	**0**	**5**	**5**	**9**	**55**	**51**	**42**	**0**	**7**	**7**	**0**	**0**	**181**	**$44,095**	**$0**	**$221**	**$44,316**	**$44,300**
5	**Develop Project Alternatives**																		
5.1	Develop and Evaluate Combined Alternatives (up to 4)		12		22	40	44	24	26	17				185	$48,710	$0	$244	$48,954	
5.2	Define Evaluation Criteria		4		4	2	8	8						26	$6,680	$0	$33	$6,713	
5.3	Technical Memorandum		5	5	6		20	23		4	7			70	$15,810	$0	$79	$15,889	
	Subtotal 5 | Develop Project Alternatives	**0**	**21**	**5**	**32**	**42**	**72**	**55**	**26**	**21**	**7**	**0**	**0**	**281**	**$71,200**	**$0**	**$356**	**$71,556**	**$71,600**
6	**Prepare Facility Planning Assessment Report and Documents**																		
6.1	Administrative Draft Report		2	5	3		8	16		5	9			48	$10,130	$0	$51	$10,181	
6.2	Draft Report		2	4	2		8	8		4	4			32	$7,300	$0	$37	$7,337	
6.3	Final Report		2	2			2	2			2			10	$2,530	$0	$13	$2,543	
6.4	Executive Summary		2	2	2		1	2						9	$2,795	$0	$14	$2,809	
	ubtotal 6 | Prepare Facility Planning Assessment Report and Documents	**0**	**8**	**13**	**7**	**0**	**19**	**28**	**0**	**9**	**15**	**0**	**0**	**99**	**$22,755**	**$0**	**$115**	**$22,870**	**$22,900**
	TOTAL, hours	**6**	**193**	**45**	**172**	**416**	**477**	**682**	**89**	**63**	**46**	**32**	**32**	**2,252**					
	TOTAL, dollars														**$545,325**	**$0**	**$3,456**	**$548,781**	**$548,800**

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Agenda Item 6.B.

Board of Directors Meeting

Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Young Grant, Capital Improvement Program Manager

SUBJECT: J.B. Latham Treatment Plant Old Effluent Pump Station Storage and Staging Area Construction Contract Award [Project Committee 2]

Overview

The Old Effluent Pump Station, originally constructed in the 1970s, has remained abandoned since the commissioning of the current Effluent Pump Station in the early 1990s. Over the decades, the unused facility has deteriorated and now presents several operational and public health concerns. Most notably, the abandoned wet well lacks adequate staging and storage space, creating stagnant conditions that attract mosquitoes and pose a potential health hazard to the surrounding community.

To mitigate these risks and improve site functionality, it is recommended that the Old Effluent Pump Station be demolished. The scope of work includes backfilling the existing wet well and restoring the surface with asphaltic concrete. This action will eliminate the health hazard, enhance site safety, and support future operational needs.

Bids

On August 21, 2025, SOCWA issued a formal solicitation for bids via the PlanetBids platform, inviting qualified contractors to participate in the procurement process for the demolition of the Old Effluent Pump Station. A site walk was conducted to provide interested parties with an opportunity to assess existing conditions and ask questions.

Bid submissions were due by October 9, 2025. SOCWA received two bids: one from Pacific Hydrotech and another from SS Mechanical. The Engineer’s cost estimate for the project was $250,000. Based on the bid evaluations, Pacific Hydrotech was identified as the apparent responsible low bidder. A summary of the bid results is provided in Table 1 below. For reference, the complete bid packages submitted by Pacific Hydrotech and SS Mechanical are attached. Staff contacted Pacific Hydrotech for clarification on Bid Item A8 and successfully negotiated a cost reduction of $70,000, leveraging the fact that Pacific Hydrotech is currently performing two other construction projects at JBL.

Table 1- Summary of Bids

Item No.	Description	Pacific Hydrotech	SS Mechanical
A1	Mobilization/Demobilization	$80,000	$43,000
A2	Excavation Safety Measures	$500	$12,000
A3	Drilling of Concrete Slab	$9,100	$35,000
A4	Demolition of the Old Effluent PS	$73,600	$235,000
A5	Hazardous Material Disposal	$32,000	$70,000
A6	Misc. Demolition	$45,500	$125,000
A7	Removal of Natural Gas Piping	$8,200	$5,000
A8	Other Misc. Site Work	$492800	$310,000
A9	Field Order Allowance	$50,000	$50,000
	Total	$791,700	$885,000

Cost Allocation

Table 1 shows the allocation of costs by member agencies.

Table 1 – Cost Allocation by Member Agency (32241L)

Agency	Cost
South Coast Water District	$411,050.64
Santa Margarita Water District	$380,649.36
Total	$791,700.00

Budget

The current approved budget for the JBL Old Effluent Pump Station Storage and Staging Area is $250,000. Staff is requesting an additional allocation of $600,000, bringing the revised total project budget to $850,000
In addition, staff recommends the inclusion of a 5% contingency in the amount of $39,585, to address any unforeseen conditions or issues that may arise during the construction phase. This would bring the total project authorization to $831,285.

Prior Related Project Committee or Board Action(s)

This item was reviewed and discussed by the Engineering Committee on November 13, 2025

Recommended Action: The Engineering Committee recommend that the PC 2 Board of Directors:

1. Approve an increase of $600,000 to the project budget, resulting in a revised total project budget of $850,000.
2. Authorize execution of a contract with Pacific Hygrotech in the amount of $791,700 for the JBL Old Effluent Pump Storage and Staging Area project.
3. Approve a construction contingency of $39,585 to address any unforeseen conditions encountered during the work.

BID FORM

PROPOSAL TO

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

FOR THE J.B. LATHAM TREATMENT PLANT - OLD EFFLUENT PUMP STATION DEMOLITION

Name of Bidder: Pacific Hydrotech Corporation

Business Address: 314 E. 3rd Street, Perris CA 92570

Phone No.: 951-943-8803

TO THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (SOCWA)

The undersigned, as Bidder, hereby certifies and declares that:

Pursuant to, and in compliance with, the Notice Inviting Bids and the other documents relating thereto, the undersigned bidder, being fully familiar with the terms of the Contract Documents, local conditions affecting the performance of the Contract, the character, quality, quantities, and scope of the Work, and the cost of the Work at the place where the Work is to be done, hereby proposes and agrees to perform within the time stipulated in the Contract, including all of its component parts and everything required to be performed, and to furnish any and all of the labor, materials, tools, equipment, transportation, services, permits, utilities, and all other items necessary to perform the Contract and complete, in a workmanlike manner, all of the Work required in connection with the construction of said Work all in strict conformity with the Plans and Specifications and other Contract Documents, for the prices hereinafter set forth.

The only persons or parties interested in this Proposal as principals are those named herein and that this Proposal is made without collusion with any person, firm, or corporation as set forth in more detail in the Noncollusion Affidavit executed herewith. Further, the undersigned proposes and agrees, if the Proposal is accepted, that he/she will execute a Contract with the SOCWA in the form set forth in the Contract Documents and that he/she will accept in full payment thereof the following prices to with:

SCHEDULE OF WORK ITEMS

BID SCHEDULE A

Furnish all labor, materials, equipment, applicable taxes, and incidentals necessary for the accomplishment of the following specific work items, each being the LUMP SUM PRICE, LINEAR FOOT PRICE, STIPULATED DOLLAR AMOUNT, ALLOWANCE PRICE, OR EACH PRICE for the specific item:

Item No.	Description	Size-Quantity	Unit	Unit Price	Item Total
BID SCHEDULE A – J.B. LATHAM OLD EFFLUENT PUMP STATION DEMOLITION PROJECT					
1	**Mobilization/Demobilization**	1	LS	$80,000	$80,000
2	**Excavation Safety Measures**	1	LS	$500	$500
3	**Drilling of Concrete Slab Penetrations**	1	LS	$9,100	$9,100
4	**Demolition of the Old Effluent Pump Station**	1	LS	$73,600	$73,600
5	**Hazardous Material Disposal and Chain of Custody Documentation**	1	LS	$32,000	$32,000
6	**Miscellaneous Demolition**	1	LS	$45,500	$45,500
7	**Removal of Natural Gas Piping**	1	LS	$8,200	$8,200
8	**Other Miscellaneous Site Work**	1	LS	$562,800	$562,800
9	**Field Order Allowance**	1	Allowance	$50,000	$50,000
			SUBTOTAL BID SCHEDULE A		$861,700.00

ADD/DEDUCT (List Bid Items Affected and Amount*):

Item No.	Add (+) Amount	Deduct (-) Amount
_____	$_____	$_____
_____	$_____	$_____

ADD/DEDUCT – List Bid Items Affected and Amount*:

Item No.	Add (+) Amount	Deduct (-) Amount
_____	$_____	$_____

_____	$_____	$_____
_____	$_____	$_____
_____	$_____	$_____
_____	$_____	$_____

SUBTOTAL ADD (+)/DEDUCT(-) ITEMS:

($ 0.00)

*Provision is made here for the bidder to include an addition or deduction in their Bid, if bidder wishes, to reflect any last-minute adjustments in price. The addition or deduction, if made, will be applied to the listed bid item.

TOTAL CONTRACT PRICE (Sum of Subtotal Lump Sum Price and Subtotal Add/Deduct Items):

($ 861,700 **)**

Total amount of bid (written in words):

Eight Hundred Sixty-One Thousand, Seven Hundred **Dollars**

Award of contract will be made to the lowest responsive, responsible bidder on the basis of the TOTAL CONTRACT PRICE.

Award of contract is based on the Total Contract Price noted above and is not impacted by the proposed cost of any additive bid item. Owner retains the right to include any additive bid item value in the overall project at the time of contract award.

Signature of Bidder: _____

Date: 10-9-2025

LIST OF SUBCONTRACTORS

The name, California Contractor's license number, registration number issued pursuant to Labor Code Section 1725.5, and location of place of business of each subcontractor who will perform work or labor or render service to the Bidder in or about the construction of the work or improvements in an amount in excess of one-half of one percent (.5%) of the Bidder's Total Contract Price, and the portion of the Work which will be done by each subcontractor is set forth as follows (attach additional sheets as necessary). Circumvention by the Bidder of the requirement to list subcontractors by the device of listing one subcontractor who will in turn sublet portions constituting the majority of the Work covered by this Contract shall be considered a violation of Chapter

4 of the California Public Contract Code and shall subject the Bidder to the penalties set forth in Sections 4110 and 4111 of said Code. Bidder shall conduct substitutions of subcontractors in compliance with Public Contract Code Sections 4106 et seq. detailing the process and conditions under which a public agency may consent to a subcontractor substitution. Except as hereinabove provided, bidder acknowledges and agrees that bidder will perform all required Work in accordance with Section 4106 of the Public Contract Code.

Contractor's Name	Contractor's License & Registration Number	Place of Business	Type of Work
Standard Demolition	CSLB - 1020712 DIR - 1000047290	1905 Lirio Ave., Ventura CA 93004	Demolition and Hazardous Disposal
Reliance Paving	CSLB - 1052328 DIR - 1001074019	3751 Merced Dr. Suite J, Riverside CA 92503	AC Paving

LIST OF EQUIPMENT MANUFACTURERS (Not Used)

COMPANY DATA

Legal name of Bidder: Pacific Hydrotech Corporation

Primary Contact: Joselito Guintu

Business address: 314 E. 3rd Street,

Perris CA 92570

Telephone: 951-943-8803

Facsimile: 951-943-1093

Email: lito@pachydro.com

California Contractor's License:

Primary Class: A

License No.: 518355

Expiration Date: 9-30-2027

Supplemental Classification held, if any: B

The full names of all persons and parties interested in the foregoing Bid Form as principals are as follows *(NOTICE: Give first and last names in full; in case of corporation, give names of President, Secretary, Treasurer, and Manager, and in case of partnerships and joint ventures, give names of all the individual members, attached additional sheets as necessary)*:

See Attached Resolution

PROPOSED CONSTRUCTION PROJECT SCHEDULE

Bidder has attached hereto a proposed construction progress schedule showing the sequence of activities for completion of the Work, in bar chart format. The proposed construction progress schedule includes major construction activities, major equipment procurement and delivery activities, working time limits imposed by permits, and substantial and final completion milestones, and identifies critical path tasks. The schedule is displayed in elapsed numerical days rather than calendar dates and equals the Contract Time.

PACIFIC HYDROTECH CORPORATION
a California Corporation

CORPORATE RESOLUTION
August 7, 2025

RESOLVED, that **James Kirk Harns** – CEO, **Sean Harns** – President, **Joselito Guintu** – Vice President, **Christopher Harns** – Vice President, **June Diaz** – CFO; each has the authority to sign contracts on behalf of the corporation.

BE IT FURTHER RESOLVED that these resolutions may be executed in any number of counterparts and delivered by facsimile, e-mail PDF or other electronic means, each of which shall be deemed an original and all of which when taken together shall constitute one and the same instrument.

J Kirk Harns, CEO

Sean J. Harns, President

Christopher Harns, Vice President

Greg Chehey, Vice President

Joselito M. Guintu, Vice President

David Power, Vice President

Kyle Bremer, Vice President

June Diaz, Chief Financial Officer

Usbaldo Garibaldo, Shareholder

Dale McKay, Shareholder

CHRISTY L HARNS, SECRETARY

CLOSING STATEMENT & CERTIFICATIONS

The undersigned Bidder further certifies as follows:

The Total Bid Price requests sufficient funds to allow Contractor to comply with all applicable laws or regulations governing the labor or services to be provided under the Contract. Furthermore, Bidder hereby agrees to indemnify SOCWA for liabilities and penalties for violations of Labor Code Section 2810.

The cost for all labor, materials, equipment, taxes, freight, insurance and incidentals necessary for the Work is included in the Total Bid Price, including but not limited to sheeting, shoring, and bracing, or equivalent method for the protection of life and limb in trenches and open excavation in conformance with applicable safety orders.

The Bidder is, at the time of bidding, and shall be, throughout the period of the Contract, licensed by the State of California to do the type of Work required under the terms of the Contract Documents. Bidder further certifies that Bidder is skilled and regularly engaged in the general class and type of Work called for in the Contract Documents.

Bidder is not an ineligible contractor for the purposes of California Labor Code Section 1777.1 or 1777.7, and no subcontractor to be used for the performance of the Work is an ineligible contractor for the purposes of Labor Code Section 1777.1 or 1777.7.

Bidder is competent, knowledgeable and has special skills regarding the nature, extent and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that Bidder is aware of such peculiar risks and that Bidder has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the construction Work with respect to such hazards.

Bidder acknowledges receipt of the following Addenda: 1, 2

Bidder has attached hereto Bid security, in the form of a bond, cashier's check, or certified check, in an amount which is equal to (at least) ten percent (10%) of the total amount of the Bid, payable in lawful money of the United States to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY.

Bidder is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for worker's compensation or undertake self-insurance in accordance with the provisions of that code, and will comply with such provisions before commencing the performance of the Work.

Bidder has inspected the site of the Work prior to submitting this Bid.

By signing below, the undersigned certifies that he/she has the legal authority to bind the Bidder and that all representations, certifications, and statements made by Bidder, as set forth in this Bid, are true and correct and are made under penalty of perjury.

Signature: 

Clearly printed name: Sean J. Harns

Position: President

Date/Location: October 9, 2025, at Perris, CA

Seal (if any):

Co-Signature: 

Clearly printed name: Joselito Guintu

Position: Vice President

Date/Location: October 9, 2025, at Perris, CA

NOTICE: Pursuant to the requirements of California Business and Professions Code, Section 7028.15(e), a bid submitted to the SOCWA by a contractor who is not licensed pursuant to Chapter 9, of Division 3, of the Business and Professions Code, shall be considered nonresponsive and shall be rejected as provided for by law.

NONCOLLUSION AFFIDAVIT
To Be Executed by Bidder and Submitted with Bid
(Public Contract Code § 7106)

The undersigned declares:

I am the Vice President of Pacific Hydrotech Corporation, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 10-9-2025 [date], at Perris [city], CA [state].

BIDDER:

Pacific Hydrotech Corporation
[Type full name of Bidder]

By: _____

Joselito Guintu, Vice President
[Print name and title]

CALIFORNIA JURAT WITH AFFIANT STATEMENT **GOVERNMENT CODE § 8202**

☒ See Attached Document (Notary to cross out lines 1–6 below)
☐ See Statement Below (Lines 1–6 to be completed only by document signer[s], *not* Notary)

×
×
×
×
×
×

Signature of Document Signer No. 1 *Signature of Document Signer No. 2 (if any)*

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Riverside

Subscribed and sworn to (or affirmed) before me on this 9 day of October, 20 25,
Date *Month* *Year*
by
(1) Joselito Guintu
(and (2) _____),
Name(s) of Signer(s)

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

MEZTLY NAOMI RAMIREZ
Notary Public - California
Riverside County
Commission # 2504626
My Comm. Expires Nov 16, 2028

Signature _____
Signature of Notary Public

Seal
Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Non-Collusion Affidavit **Document Date:** October 9, 2025

Number of Pages: 1 **Signer(s) Other Than Named Above:** _____

BIDDER'S BOND

(At Least 10 Percent of the Total Contract Price)

We Pacific Hydrotech Corporation, as Principal,

and Liberty Mutual Insurance Company, as Surety,

jointly and severally, bind ourselves, our heirs, representatives, successors, and assigns, as set forth herein, to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA") for payment of the penal sum of

Ten Percent of Bid Amount

Dollars ($ 10%),

lawful money of the United States, such amount representing at least ten percent (10%) of the amount of the Total Bid Price to obtain the award of a contract for JBL Old Effluent Pump Station Demolition Project and to be paid to SOCWA, its successors and assigns, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly hereby.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall not withdraw said Bid within the period of time set forth in the Contract Documents, and shall within fifteen (15) calendar days after the prescribed forms are presented to the Principal for signature enter into a written contract with SOCWA in accordance with the Bid as accepted, and if the Principal shall give the required bonds with good and sufficient sureties for the faithful performance and proper fulfillment of such contract, and for the protection of laborers and materialmen, or in the event of the withdrawal of the Bid within the period specified, or the failure to enter into the Contract, and give such bonds within the time specified, if the Principal shall within sixty (60) days after request by SOCWA pay to SOCWA the difference between the amount specified in the Bid and the amount for which SOCWA may procure the required work, if the latter amount be in excess of the former, then the above obligation shall be void and of no effect, otherwise if shall remain in full force and effect.

Forfeiture of this bond, or any deposit made in lieu thereof, shall not preclude the SOCWA from seeking all other remedies provided by law to cover losses sustained as a result of the Principal's failure to do any of the foregoing and this bond shall not be a limitation on Principals' liability therefor.

Principal and Surety agree that if the SOCWA is required to engage the services of an attorney(s) in connection with the enforcement of this bond, each shall pay SOCWA's costs and reasonable attorney fees incurred with or without suit.

IN WITNESS WHEREOF,

Executed on September 30, 25.

[CORPORATE SEAL]

Pacific Hydrotech Corporation
Principal

By _____

Joselito Guintu/Vice President
Title

(ATTACH NOTARY ACKNOWLEDGMENT OF AUTHORIZED REPRESENTATIVE OF PRINCIPAL)

Any claims under this bond may be addressed to:

Liberty Mutual Insurance Company
790 The City Drive South, Suite 200
Orange, CA 92868

(Name and address of Surety)

(Name and address of Surety's agent for service of process in California, if different from above)

Alliant Insurance Services, Inc.
701 B Street, 6th Floor, San Diego, CA 92101

Surety: (714) 634-5722 / Agent: (619) 238-1828
(Telephone number of Surety's agent In California)

(ATTACH NOTARY ACKNOWLEDGMENT)

Liberty Mutual Insurance Company
Surety

By _____
(Attorney-in-Fact) Lawrence F. McMahon

NOTICE

No substitution or revision to this bond form will be accepted. Sureties must be authorized to do business, and have an agent for service of process, in California. A certified copy of Power of Attorney must be attached.

See attached California All-Purpose Acknowledgment for Surety

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss:
COUNTY OF _____)

On _____, before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Notary Public

NOTE:
(a) Signature of those executing for Surety must be properly acknowledged.
(b) The Attorney-in-fact must attach a certified copy of the Power of Attorney.

****END OF REQUIRED FORMS****

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Riverside)

On September 30, 2025 before me, Roxana Gonzales, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Joselito Guintu
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

ROXANA GONZALES
Notary Public - California
Riverside County
Commission # 2518157
My Comm. Expires Apr 24, 2029

Signature
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: BIDDERS BOND Document Date: September 30, 2025
Number of Pages: 2 Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name: Joselito Guintu	Signer's Name:
☑ Corporate Officer — Title(s): Vice President	☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other:	☐ Other:
Signer Is Representing:	Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of San Diego)

On SEP 30 2025 before me, Maria Guise, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Lawrence F. McMahon
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MARIA GUISE
Commission # 2444156
Notary Public - California
SAN DIEGO County
My Comm. Expires APR 14, 2027

Signature _____
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☒ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: Surety Company

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8213991 - 024019**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Christopher Conte, Dale G. Harshaw, Geoffrey Shelton, John R. Qualin, Lawrence F. McMahon, Lilia De Loera, Maria Hallmark, Minna Huovila, Natassia Kirk- Smith, Ryan Warnock, Sarah Myers, Tara Bacon

all of the city of San Diego state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 6th day of May, 2025.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 6th day of May, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 30th day of September, 2025.

By: _____
Renee C. Llewellyn, Assistant Secretary

California Environmental Protection Agency

Air Resources Board

January 1, 2025

CERTIFICATE OF REPORTED COMPLIANCE
OFF-ROAD DIESEL VEHICLE REGULATION

is issued to

PACIFIC HYDROTECH CORPORATION

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and labeled as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2026**

Jack Kitowski
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

5364

To verify the authenticity of this certificate, enter the number at
http://www.arb.ca.gov/doors/compliance_cert1.html

STATE OF CALIFORNIA
dca
DEPARTMENT OF CONSUMER AFFAIRS

CONTRACTORS STATE LICENSE BOARD ACTIVE LICENSE

License Number **518355**

Entity CORP

Business Name PACIFIC HYDROTECH CORPORATION

Classification(s) A HAZ B

Expiration Date 09/30/2027

www.cslb.ca.gov

CA

DIR EST. 1927 State of California Department of Industrial Relations

Public Works Support | Log in

eCPR Search

Contractor Registration Search

Project Registration Search

Register

Home > Customer Account Lookup > 1000002987 - PACIFIC HYDROTECH CORPORATION

1000002987 - PACIFIC HYDROTECH CORPORATION

Customer Account Lookup

PWCR

1000002987

Contractor Status

DIR Approved

CSLB

518355

Business Phone

9519438803

Ext

Registration Start Date

2025-07-01

Legal Entity Name

PACIFIC HYDROTECH CORPORATION

Doing Business As (DBA)

PACIFIC HYDROTECH CORPORATION

Business Structure

-- None --

President

James K. Harns

Email

ERIVERO@PACHYDRO.COM

Registration End Date

2028-06-30

Crafts

Laborer and Related Classifications | Carpenter and Related Trades | Cranes, Pile Driving and Hoisting Equipment (Operating Engineer) | Bricklayer/Brick Tender | Iron Worker | Cement Mason | Operating Engineer (Heavy and Highway Work)

Address

Mailing Address

314 E. 3RD STREET

Mailing Address - City

PERRIS

Mailing Address - State

CA

Mailing Address - Zip

92570

Mailing Address - Country

United States

Physical Address

Physical Address - City

Physical Address - State

Physical Address - Zip

Physical Address - Country

Related Lists

Registration Dates (8)

Appendix B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO INVITATION FOR BID

FOR J.B. LATHAM TREATMENT PLANT OLD EFFLUENT PUMP STATION REPURPUSING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

Q&A:

1. **What is the existing thickness of the AC Paving?**

   The asphalt is 3 inches thick approximately.

2. **For the 8" inch fill. Is the native fill suitable material? Or would we need import fill? If we do need import fill, what would the requirements for the material be.**

   Excavated on-site soils may be reused as compacted fill provided it is free of organics, deleterious materials, debris, and particles over 3 inches in largest dimension. This soil must be used above the ground water level.

DATED: 9/30/2025

Roni Young Grant

Roni Young Grant

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 9-30-2025

BIDDER: Pacific Hydrotech Corporation

BY: _____

Joselito Guintu, Vice President

Appendix B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 2

TO INVITATION FOR BID

FOR J.B. LATHAM TREATMENT PLANT OLD EFFLUENT PUMP STATION REPURPUSING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

1. **In order to come up with an accurate quantity to backfill, we would need existing elevations and or as-built drawings**

   The attached picture has some helpful dimensions. The basin has outer dimensions of 59' x 63'. The bottom slopes from east to west, with a 4.5' difference. One other thing to consider is that the contractors can use the concrete walls as backfill above the water line if the contractors crush it to less than 3 inches in any direction.

2. See the attached 2021 report which provides additional information.

DATED: 9/30/2025

Roni Young Grant

Roni Young Grant

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 2 and accept all conditions contained herein.

DATED: 9-30-2025

BIDDER: Pacific Hydrotech Corporation

BY: _____

Joselito Guintu, Vice President

CA

1000047290 - STANDARD DEMOLITION, INC.

Customer Account Lookup

PWCR

1000047290

Contractor Status

DIR Approved

CSLB

1020712

Business Phone

805-643-6669

Ext

Registration Start Date

2025-07-01

Legal Entity Name

STANDARD DEMOLITION, INC.

Doing Business As (DBA)

STANDARD DEMOLITION, INC.

Business Structure

-- None --

President

John Scheck

Email

demo@standard1.com

Registration End Date

2026-06-30

Crafts

LABORER Operating Engineer

Address

Mailing Address

1905 LIRIO AVENUE

Mailing Address - City

VENTURA

Mailing Address - State

CA

Mailing Address - Zip

93004

Mailing Address - Country

Ventura

Physical Address

Physical Address - City

Physical Address - State

Physical Address - Zip

Physical Address - Country

Related Lists

Registration Dates (10)

CA

1001074019 - Reliance Paving Inc

Customer Account Lookup

PWCR

1001074019

Contractor Status

DIR Approved

CSLB

1052328

Business Phone

9518011218

Ext

Registration Start Date

2025-06-23

Legal Entity Name

Reliance Paving Inc

Doing Business As (DBA)

Reliance Paving Inc

Business Structure

Corporation

President

Brandon Lopez

Email

reliancepaving@gmail.com

Registration End Date

2026-06-30

Crafts

Laborer and Related Classifications
Parking and Highway Improvement (Striping, Slurry and Seal Coat Operations-Laborer)
Cement Mason
Driver (On/Off-Hauling to/from Construction Site)
Operating Engineer
Other

Address

Mailing Address

3751 Merced Dr. Suite J

Mailing Address - City

Riverside

Mailing Address - State

California

Mailing Address - Zip

92503

Mailing Address - Country

United States of America

Physical Address

3751 Merced Dr. Suite J

Physical Address - City

Riverside

Physical Address - State

California

Physical Address - Zip

92503

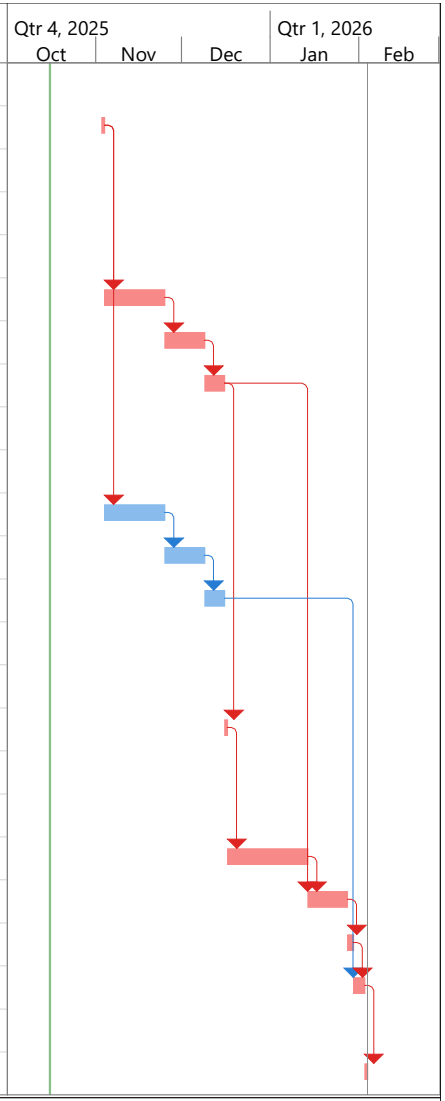
Physical Address - Country

United States of America

Related Lists

Registration Dates (3)

ID	Task Name	Duration	Start	Finish	Predecessors	Successors
1	**BID SCHEDULE**	**67 days**	**Mon 11/3/25**	**Tue 2/3/26**		
2	NTP	1 day	Mon 11/3/25	Mon 11/3/25		6,11
3						
4	**CRITICAL SUBMITTALS**	**30 days**	**Tue 11/4/25**	**Mon 12/15/25**		
5	**BACKFILL MATERIALS**	**30 days**	**Tue 11/4/25**	**Mon 12/15/25**		
6	Submittal	15 days	Tue 11/4/25	Mon 11/24/25	2	7
7	Review and Approve	10 days	Tue 11/25/25	Mon 12/8/25	6	8
8	Lead Time	5 days	Tue 12/9/25	Mon 12/15/25	7	20,16
9						
10	**AC PAVING**	**30 days**	**Tue 11/4/25**	**Mon 12/15/25**		
11	Submittal	15 days	Tue 11/4/25	Mon 11/24/25	2	12
12	Review and Approve	10 days	Tue 11/25/25	Mon 12/8/25	11	13
13	Lead Time	5 days	Tue 12/9/25	Mon 12/15/25	12	22
14						
15	**CONSTRUCTION**	**35 days**	**Tue 12/16/25**	**Mon 2/2/26**		
16	Mobilization	1 day	Tue 12/16/25	Tue 12/16/25	8	19
17						
18	**BUILDING WORK**	**34 days**	**Wed 12/17/25**	**Mon 2/2/26**		
19	Demo existing structures	20 days	Wed 12/17/25	Tue 1/13/26	16	20
20	Backfill With Rock	10 days	Wed 1/14/26	Tue 1/27/26	19,8	21
21	Backfill with Native	2 days	Wed 1/28/26	Thu 1/29/26	20	22
22	AC Paving	2 days	Fri 1/30/26	Mon 2/2/26	21,13	24
23						
24	Project Completion	1 day	Tue 2/3/26	Tue 2/3/26	22	



Project: Bid Schedule
Date:10/2/25

Task	Inactive Summary	External Tasks
Split	Manual Task	External Milestone
Milestone	Duration-only	Deadline
Summary	Manual Summary Rollup	Critical
Project Summary	Manual Summary	Critical Split
Inactive Task	Start-only	Progress
Inactive Milestone	Finish-only	Manual Progress

BID FORM

PROPOSAL TO

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

FOR THE J.B. LATHAM TREATMENT PLANT - OLD EFFLUENT PUMP STATION DEMOLITION

Name of Bidder: SS Mechanical Construction Corp.

Business Address: 33208 Paseo Cerveza Unit D San Juan Capistrano, CA 92675

Phone No.: 714-847-1317

TO THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (SOCWA)

The undersigned, as Bidder, hereby certifies and declares that:

Pursuant to, and in compliance with, the Notice Inviting Bids and the other documents relating thereto, the undersigned bidder, being fully familiar with the terms of the Contract Documents, local conditions affecting the performance of the Contract, the character, quality, quantities, and scope of the Work, and the cost of the Work at the place where the Work is to be done, hereby proposes and agrees to perform within the time stipulated in the Contract, including all of its component parts and everything required to be performed, and to furnish any and all of the labor, materials, tools, equipment, transportation, services, permits, utilities, and all other items necessary to perform the Contract and complete, in a workmanlike manner, all of the Work required in connection with the construction of said Work all in strict conformity with the Plans and Specifications and other Contract Documents, for the prices hereinafter set forth.

The only persons or parties interested in this Proposal as principals are those named herein and that this Proposal is made without collusion with any person, firm, or corporation as set forth in more detail in the Noncollusion Affidavit executed herewith. Further, the undersigned proposes and agrees, if the Proposal is accepted, that he/she will execute a Contract with the SOCWA in the form set forth in the Contract Documents and that he/she will accept in full payment thereof the following prices to with:

SCHEDULE OF WORK ITEMS

BID SCHEDULE A

Furnish all labor, materials, equipment, applicable taxes, and incidentals necessary for the accomplishment of the following specific work items, each being the LUMP SUM PRICE, LINEAR FOOT PRICE, STIPULATED DOLLAR AMOUNT, ALLOWANCE PRICE, OR EACH PRICE for the specific item:

Item No.	Description	Size-Quantity	Unit	Unit Price	Item Total
BID SCHEDULE A – J.B. LATHAM OLD EFFLUENT PUMP STATION DEMOLITION PROJECT					
1	**Mobilization/Demobilization**	1	LS	$43,000.00	$ 43,000.00
2	**Excavation Safety Measures**	1	LS	$12,000.00	$ 12,000.00
3	**Drilling of Concrete Slab Penetrations**	1	LS	$ 35,000.00	$ 35,000.00
4	**Demolition of the Old Effluent Pump Station**	1	LS	$ 235,000.00	$ 235,000.00
5	**Hazardous Material Disposal and Chain of Custody Documentation**	1	LS	$ 70,000.00	$ 70,000.00
6	**Miscellaneous Demolition**	1	LS	$ 125,000.00	$ 125,000.00
7	**Removal of Natural Gas Piping**	1	LS	$ 5,000.00	$ 5,000.00
8	**Other Miscellaneous Site Work**	1	LS	$ 310,000.00	$ 310,000.00
9	**Field Order Allowance**	1	Allowance	$50,000	$50,000
				SUBTOTAL BID SCHEDULE A	885,000.00

ADD/DEDUCT (List Bid Items Affected and Amount*):

Item No.	Add (+) Amount	Deduct (-) Amount
_____	$_____	$ 0
_____	$_____	$_____

ADD/DEDUCT – List Bid Items Affected and Amount*:

Item No.	Add (+) Amount	Deduct (-) Amount
_____	$_____	$ 0

_____	$_____	$_____
_____	$_____	$_____
_____	$_____	$_____
_____	$_____	$_____

SUBTOTAL ADD (+)/DEDUCT(-) ITEMS:

($ 0)

*Provision is made here for the bidder to include an addition or deduction in their Bid, if bidder wishes, to reflect any last-minute adjustments in price. The addition or deduction, if made, will be applied to the listed bid item.

TOTAL CONTRACT PRICE (Sum of Subtotal Lump Sum Price and Subtotal Add/Deduct Items):

($ 885,000.00)

Total amount of bid (written in words):

Eight Hundred Eighty-five Thousand 00/100 **Dollars**

Award of contract will be made to the lowest responsive, responsible bidder on the basis of the TOTAL CONTRACT PRICE.

Award of contract is based on the Total Contract Price noted above and is not impacted by the proposed cost of any additive bid item. Owner retains the right to include any additive bid item value in the overall project at the time of contract award.

Signature of Bidder: _____

John Whelan, President

Date: October 2, 2025

MECHANICAL CONSTRUCTION INCORPORATED SEAL MARCH 7, 2017 CALIFORNIA

24

LIST OF SUBCONTRACTORS

The name, California Contractor's license number, registration number issued pursuant to Labor Code Section 1725.5, and location of place of business of each subcontractor who will perform work or labor or render service to the Bidder in or about the construction of the work or improvements in an amount in excess of one-half of one percent (.5%) of the Bidder's Total Contract Price, and the portion of the Work which will be done by each subcontractor is set forth as follows (attach additional sheets as necessary). Circumvention by the Bidder of the requirement to list subcontractors by the device of listing one subcontractor who will in turn sublet portions constituting the majority of the Work covered by this Contract shall be considered a violation of Chapter

4 of the California Public Contract Code and shall subject the Bidder to the penalties set forth in Sections 4110 and 4111 of said Code. Bidder shall conduct substitutions of subcontractors in compliance with Public Contract Code Sections 4106 et seq. detailing the process and conditions under which a public agency may consent to a subcontractor substitution. Except as hereinabove provided, bidder acknowledges and agrees that bidder will perform all required Work in accordance with Section 4106 of the Public Contract Code.

Contractor's Name	Contractor's License & Registration Number	Place of Business	Type of Work
Beach Paving	597202 1000009033	Placentia, CA	Asphalt Paving
Brickley Environmental	610414 1000000851	San Bernardino, CA	Hazardous Abatement
Graham Crackers Demo	745828 1000016734	menifee, CA	Demo
Behrens & Assoc.	1120955 1000018695	El Segundo, CA	Environmental Controls

LIST OF EQUIPMENT MANUFACTURERS (Not Used)

COMPANY DATA

Legal name of Bidder: SS Mechanical Construction Corp.

Primary Contact: John Whelan

33208 Paseo Cerveza Unit D

San Juan Capistrano, CA 92675

Business address:

Telephone: 714-847-1317

Facsimile: N/A

Email: john@ssmechanical.com

California Contractor's License:

Primary A Class:

License 1027264 No.:

Expiration May 31, 2027 Date:

Supplemental Classification held, if any: HAZ

The full names of all persons and parties interested in the foregoing Bid Form as principals are as follows *(NOTICE: Give first and last names in full; in case of corporation, give names of President, Secretary, Treasurer, and Manager, and in case of partnerships and joint ventures, give names of all the individual members, attached additional sheets as necessary)*:

John Whelan - President

Chris Powers - Secretary

Javier Lopez - Treasurer

PROPOSED CONSTRUCTION PROJECT SCHEDULE

Bidder has attached hereto a proposed construction progress schedule showing the sequence of activities for completion of the Work, in bar chart format. The proposed construction progress schedule includes major construction activities, major equipment procurement and delivery activities, working time limits imposed by permits, and substantial and final completion milestones, and identifies critical path tasks. The schedule is displayed in elapsed numerical days rather than calendar dates and equals the Contract Time.

CLOSING STATEMENT & CERTIFICATIONS

The undersigned Bidder further certifies as follows:

The Total Bid Price requests sufficient funds to allow Contractor to comply with all applicable laws or regulations governing the labor or services to be provided under the Contract. Furthermore, Bidder hereby agrees to indemnify SOCWA for liabilities and penalties for violations of Labor Code Section 2810.

The cost for all labor, materials, equipment, taxes, freight, insurance and incidentals necessary for the Work is included in the Total Bid Price, including but not limited to sheeting, shoring, and bracing, or equivalent method for the protection of life and limb in trenches and open excavation in conformance with applicable safety orders.

The Bidder is, at the time of bidding, and shall be, throughout the period of the Contract, licensed by the State of California to do the type of Work required under the terms of the Contract Documents. Bidder further certifies that Bidder is skilled and regularly engaged in the general class and type of Work called for in the Contract Documents.

Bidder is not an ineligible contractor for the purposes of California Labor Code Section 1777.1 or 1777.7, and no subcontractor to be used for the performance of the Work is an ineligible contractor for the purposes of Labor Code Section 1777.1 or 1777.7.

Bidder is competent, knowledgeable and has special skills regarding the nature, extent and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that Bidder is aware of such peculiar risks and that Bidder has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the construction Work with respect to such hazards.

Bidder acknowledges receipt of the following Addenda: 1, 2

_____.

Bidder has attached hereto Bid security, in the form of a bond, cashier's check, or certified check, in an amount which is equal to (at least) ten percent (10%) of the total amount of the Bid, payable in lawful money of the United States to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY.

Bidder is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for worker's compensation or undertake self-insurance in accordance with the provisions of that code, and will comply with such provisions before commencing the performance of the Work.

Bidder has inspected the site of the Work prior to submitting this Bid.

By signing below, the undersigned certifies that he/she has the legal authority to bind the Bidder and that all representations, certifications, and statements made by Bidder, as set forth in this Bid, are true and correct and are made under penalty of perjury.

Signature: _____

Clearly printed name: John Whelan

Position: President

Date/Location: October 2, 2025, at San Juan Capistrano, CA

Seal (if any):

Co-Signature: N/A

Clearly printed name: _____

Position: _____

Date/Location: _____, 20__, at _____

NOTICE: Pursuant to the requirements of California Business and Professions Code, Section 7028.15(e), a bid submitted to the SOCWA by a contractor who is not licensed pursuant to Chapter 9, of Division 3, of the Business and Professions Code, shall be considered nonresponsive and shall be rejected as provided for by law.

NONCOLLUSION AFFIDAVIT

To Be Executed by Bidder and Submitted with Bid
(Public Contract Code § 7106)

The undersigned declares:

I am the President of SS Mechanical Construction Corp., the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on October 2, 2025 [date], at San Juan Capistrano [city], CA [state].

BIDDER:

SS Mechanical Construction Corp.
[Type full name of Bidder]

By: _____

John Whelan, President
[Print name and title]

BIDDER'S BOND

(At Least 10 Percent of the Total Contract Price)

We SS Mechanical Construction Corp, as Principal,

and Swiss Re Corporate Solutions America Insurance Corporation, as Surety,

jointly and severally, bind ourselves, our heirs, representatives, successors, and assigns, as set forth herein, to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA") for payment of the penal sum of

Ten Percent of Bid Amount

_____ Dollars ($ 10% of Bid),

lawful money of the United States, such amount representing at least ten percent (10%) of the amount of the Total Bid Price to obtain the award of a contract for JBL Old Effluent Pump Station Demolition Project and to be paid to SOCWA, its successors and assigns, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly hereby.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall not withdraw said Bid within the period of time set forth in the Contract Documents, and shall within fifteen (15) calendar days after the prescribed forms are presented to the Principal for signature enter into a written contract with SOCWA in accordance with the Bid as accepted, and if the Principal shall give the required bonds with good and sufficient sureties for the faithful performance and proper fulfillment of such contract, and for the protection of laborers and materialmen, or in the event of the withdrawal of the Bid within the period specified, or the failure to enter into the Contract, and give such bonds within the time specified, if the Principal shall within sixty (60) days after request by SOCWA pay to SOCWA the difference between the amount specified in the Bid and the amount for which SOCWA may procure the required work, if the latter amount be in excess of the former, then the above obligation shall be void and of no effect, otherwise if shall remain in full force and effect.

Forfeiture of this bond, or any deposit made in lieu thereof, shall not preclude the SOCWA from seeking all other remedies provided by law to cover losses sustained as a result of the Principal's failure to do any of the foregoing and this bond shall not be a limitation on Principals' liability therefor.

Principal and Surety agree that if the SOCWA is required to engage the services of an attorney(s) in connection with the enforcement of this bond, each shall pay SOCWA's costs and reasonable attorney fees incurred with or without suit.

IN WITNESS WHEREOF,

Executed on September 29, 2025.

[CORPORATE SEAL]

SS Mechanical Construction Corp
Principal

By _____
John Whelan
President
Title

SS MECHANICAL CONSTRUCTION CORP INCORPORATED SEAL MARCH 7, 2017 CALIFORNIA

(ATTACH NOTARY ACKNOWLEDGMENT OF AUTHORIZED REPRESENTATIVE OF PRINCIPAL)

Any claims under this bond may be addressed to:

Swiss Re Corporate Solutions
1200 Main St., Suite 800
Kansas City, Mo 64105
(Name and address of Surety)

Acrisure of California, LLC
DBA: Rohm Insurance Agency, LLC
611 Anton Blvd. Suite 1500
Costa Mesa, CA 92626
(Name and address of Surety's agent for service of process in California, if different from above)

(714) 516-2960
(Telephone number of Surety's agent In California)

(ATTACH NOTARY ACKNOWLEDGMENT)

Swiss Re Corporate Solution
America Insurance Corporation
Surety

By _____
(Attorney-in-Fact) Cheryl L. Thomas

NOTICE

No substitution or revision to this bond form will be accepted. Sureties must be authorized to do business, and have an agent for service of process, in California. A certified copy of Power of Attorney must be attached.

31

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss:
COUNTY OF Orange)

On 9-29-25, before me, J. NAVARRO, Notary Public, personally appeared John Whelan, who proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(~~ies~~), and that by his/~~her/their~~ signature on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

J. NAVARRO
COMM. #2417410
Notary Public - California
Orange County
My Comm. Expires Oct. 19, 2026

Notary Public

NOTE:
(a) Signature of those executing for Surety must be properly acknowledged.
(b) The Attorney-in-fact must attach a certified copy of the Power of Attorney.

****END OF REQUIRED FORMS****

ALL- PURPOSE
CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On September 29, 2025 before me, W. Walker, Notary Public
(Here insert name and title of the officer),

personally appeared Cheryl L. Thomas,
who proved to me on the basis of satisfactory evidence to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity~~(ies)~~, and that by ~~his~~/her/~~their~~ signature~~(s)~~ on the instrument the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

W. WALKER
COMM. #2484032
Notary Public · California
Orange County
My Comm. Expires Mar. 30, 2028
NRO1 NRO1

Notary Public Signature (Notary Public Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Bid Bond
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages 2 Document Date 9/29/25

CAPACITY CLAIMED BY THE SIGNER

- ☐ Individual (s)
- ☐ Corporate Officer
  (Title)
- ☐ Partner(s)
- ☑ Attorney-in-Fact
- ☐ Trustee(s)
- ☐ Other

2015 Version www.NotaryClasses.com 800-873-9865

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknolwedgents from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he~~/she/~~they,~~ is /~~are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - ❖ Indicate title or type of attached document, number of pages and date.
  - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

SWISS RE CORPORATE SOLUTIONS

SWISS RE CORPORATE SOLUTIONS AMERICA INSURANCE CORPORATION ("SRCSAIC")
SWISS RE CORPORATE SOLUTIONS PREMIER INSURANCE CORPORATION ("SRCSPIC")
WESTPORT INSURANCE CORPORATION ("WIC")

GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT SRCSAIC, a corporation duly organized and existing under laws of the State of Missouri, and having its principal office in the City of Kansas City, Missouri, and SRCSPIC, a corporation organized and existing under the laws of the State of Missouri and having its principal office in the City of Kansas City, Missouri, and WIC, organized under the laws of the State of Missouri, and having its principal office in the City of Kansas City, Missouri, each does hereby make, constitute and appoint:

TODD M. ROHM, CATHY S. KENNEDY, BEATA A. SENSI, CHERYL L. THOMAS, WRENETTA WALKER, and SHANE WOLF

JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION ($50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both SRCSAIC and SRCSPIC at meetings duly called and held on the 18th of November 2021 and WIC by written consent of its Executive Committee dated July 18, 2011.

"RESOLVED, that any two of the President, any Managing Director, any Senior Vice President, any Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is, authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Corporation bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Corporation; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Corporation may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Corporation when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."

SWISS RE CORPORATE SOLUTIONS AMERICA INSURANCE CORPORATION CORPORATE SEAL 1973 MISSOURI

SWISS RE CORPORATE SOLUTIONS PREMIER INSURANCE CORPORATION CORPORATE SEAL MISSOURI

By _____
Erik Janssens, Senior Vice President of SRCSAIC & Senior Vice President of SRCSPIC & Senior Vice President of WIC

By _____
Gerald Jagrowski, Vice President of SRCSAIC & Vice President of SRCSPIC & Vice President of WIC

WESTPORT INSURANCE CORPORATION CORPORATE SEAL MISSOURI

IN WITNESS WHEREOF, SRCSAIC, SRCSPIC, and WIC have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers

this 10 day of NOVEMBER, 20 22

Swiss Re Corporate Solutions America Insurance Corporation
Swiss Re Corporate Solutions Premier Insurance Corporation
Westport Insurance Corporation

State of Illinois
County of Cook ss

On this 10 day of NOVEMBER, 20 22, before me, a Notary Public personally appeared Erik Janssens, Senior Vice President of SRCSAIC and Senior Vice President of SRCSPIC and Senior Vice President of WIC and Gerald Jagrowski, Vice President of SRCSAIC and Vice President of SPCSPIC and Vice President of WIC, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.

OFFICIAL SEAL
CHRISTINA MANISCO
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires March 28, 2026

Christina Manisco, Notary

I, Jeffrey Goldberg, the duly elected Senior Vice President and Assistant Secretary of SRCSAIC and SRCSPIC and WIC, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said SRCSAIC and SRCSPIC and WIC, which is still in full force and effect.
IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 29th day of SEPTEMBER, 20 25.

SWISS RE CORPORATE SOLUTIONS AMERICA INSURANCE CORPORATION CORPORATE SEAL 1973 MISSOURI

Jeffrey Goldberg, Senior Vice President & Assistant Secretary of SRCSAIC and SRCSPIC and WIC

Appendix B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO INVITATION FOR BID

FOR J.B. LATHAM TREATMENT PLANT OLD EFFLUENT PUMP STATION REPURPUSING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

Q&A:

1. **What is the existing thickness of the AC Paving?**

   The asphalt is 3 inches thick approximately.

2. **For the 8" inch fill. Is the native fill suitable material? Or would we need import fill? If we do need import fill, what would the requirements for the material be.**

   Excavated on-site soils may be reused as compacted fill provided it is free of organics, deleterious materials, debris, and particles over 3 inches in largest dimension. This soil must be used above the ground water level.

DATED: 9/30/2025

Roni Young Grant
Roni Young Grant

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: September 30, 2025

BIDDER: SS Mechanical Construction Corp.
BY: John Whelan
John Whelan, President

Appendix B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 2

TO INVITATION FOR BID

FOR J.B. LATHAM TREATMENT PLANT OLD EFFLUENT PUMP STATION REPURPUSING

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

1. **In order to come up with an accurate quantity to backfill, we would need existing elevations and or as-built drawings**

   The attached picture has some helpful dimensions. The basin has outer dimensions of 59' x 63'. The bottom slopes from east to west, with a 4.5' difference. One other thing to consider is that the contractors can use the concrete walls as backfill above the water line if the contractors crush it to less than 3 inches in any direction.

2. See the attached 2021 report which provides additional information.

DATED: 9/30/2025

Roni Young Grant

Roni Young Grant

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 2 and accept all conditions contained herein.

DATED: 10/06/2025

BIDDER: SS Mechanical Construction Corp.

BY: _____

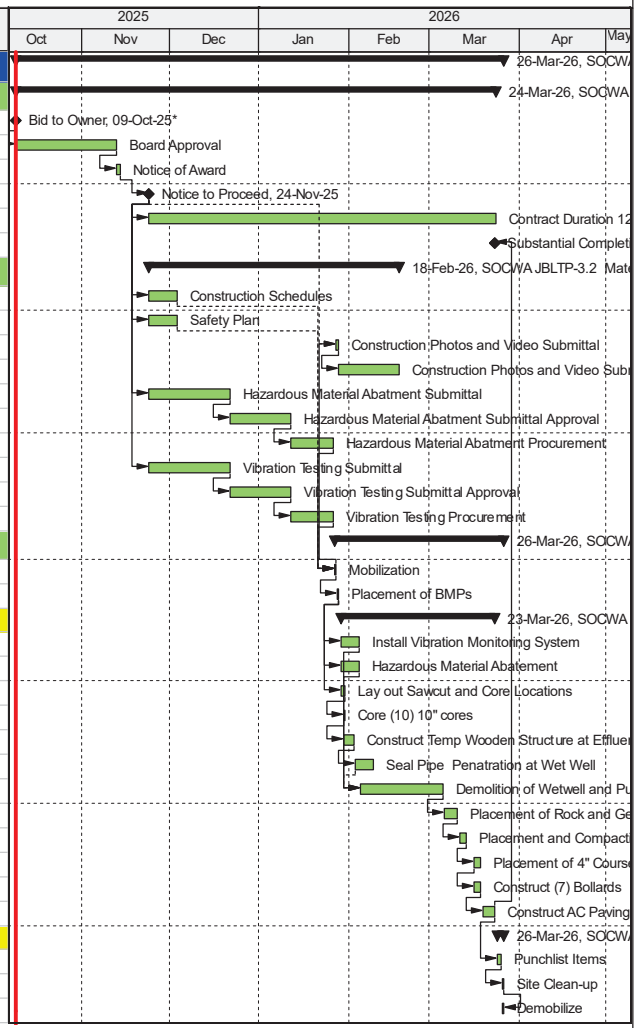
John Whelan, President

Old Effluent Pump Station Demolition - Bid Schedule

Activity ID - Bid Schedule

07-Oct-25 15:40

Activity ID	Activity Name	Original Duration	Remaining Duration	Early Start	Start	Early Finish	Finish	Total Float	Calendar
SOCWA JBLTP-3	Old Effluent Pump Station Demolition - Bid Schedule	169	169	09-Oct-25	09-Oct-25	26-Mar-26	26-Mar-26	5	
SOCWA JBLTP-3.1	Contract	166	166	09-Oct-25	09-Oct-25	24-Mar-26	24-Mar-26	8	Cal Days
A1000	Bid to Owner	0	0	09-Oct-25	09-Oct-25*			3	Cal Days
A1010	Board Approval	35	35	09-Oct-25	09-Oct-25	13-Nov-25	13-Nov-25	3	Cal Days
A1020	Notice of Award	1	1	13-Nov-25	13-Nov-25	14-Nov-25	14-Nov-25	3	Cal Days
A1030	Notice to Proceed	0	0	24-Nov-25	24-Nov-25			3	Cal Days
A1040	Contract Duration 120cal Days	120	120	24-Nov-25	24-Nov-25	24-Mar-26	24-Mar-26	8	Cal Days
A1050	Substantial Completion	0	0			23-Mar-26	23-Mar-26	8	Cal Days
SOCWA JBLTP-3.2	Material Submittals and Procurement	87	87	24-Nov-25	24-Nov-25	18-Feb-26	18-Feb-26	41	Cal Days
B1000	Construction Schedules	10	10	24-Nov-25	24-Nov-25	04-Dec-25	04-Dec-25	57	Cal Days
B1010	Safety Plan	10	10	24-Nov-25	24-Nov-25	04-Dec-25	04-Dec-25	57	Cal Days
B1020	Construction Photos and Video Submittal	1	1	27-Jan-26	27-Jan-26	28-Jan-26	28-Jan-26	41	Cal Days
B1030	Construction Photos and Video Submittal Approval	21	21	28-Jan-26	28-Jan-26	18-Feb-26	18-Feb-26	41	Cal Days
B1050	Hazardous Material Abatment Submittal	28	28	24-Nov-25	24-Nov-25	22-Dec-25	22-Dec-25	3	Cal Days
B1060	Hazardous Material Abatment Submittal Approval	21	21	22-Dec-25	22-Dec-25	12-Jan-26	12-Jan-26	3	Cal Days
B1070	Hazardous Material Abatment Procurement	15	15	12-Jan-26	12-Jan-26	27-Jan-26	27-Jan-26	3	Cal Days
B1080	Vibration Testing Submittal	28	28	24-Nov-25	24-Nov-25	22-Dec-25	22-Dec-25	3	Cal Days
B1090	Vibration Testing Submittal Approval	21	21	22-Dec-25	22-Dec-25	12-Jan-26	12-Jan-26	3	Cal Days
B1100	Vibration Testing Procurement	15	15	12-Jan-26	12-Jan-26	27-Jan-26	27-Jan-26	3	Cal Days
SOCWA JBLTP-3.3	Construction	42	42	27-Jan-26	27-Jan-26	26-Mar-26	26-Mar-26	3	Work Da
C1000	Mobilization	1	1	27-Jan-26	27-Jan-26	27-Jan-26	27-Jan-26	3	Work Da
C1010	Placement of BMPs	1	1	28-Jan-26	28-Jan-26	28-Jan-26	28-Jan-26	3	Work Da
SOCWA JBLTP-3.3.1	Scum Line Replacement	37	37	29-Jan-26	29-Jan-26	23-Mar-26	23-Mar-26	3	Work Da
C2000	Install Vibration Monitoring System	5	5	29-Jan-26	29-Jan-26	04-Feb-26	04-Feb-26	3	Work Da
C2005	Hazardous Material Abatement	5	5	29-Jan-26	29-Jan-26	04-Feb-26	04-Feb-26	3	Work Da
C2010	Lay out Sawcut and Core Locations	2	2	29-Jan-26	29-Jan-26	30-Jan-26	30-Jan-26	5	Work Da
C2020	Core (10) 10" cores	1	1	30-Jan-26	30-Jan-26	30-Jan-26	30-Jan-26	5	Work Da
C2030	Construct Temp Wooden Structure at Effluent Piping	2	2	30-Jan-26	30-Jan-26	02-Feb-26	02-Feb-26	5	Work Da
C2040	Seal Pipe Penatration at Wet Well	5	5	03-Feb-26	03-Feb-26	09-Feb-26	09-Feb-26	5	Work Da
C2050	Demolition of Wetwell and Pump Ststion Building	20	20	05-Feb-26	05-Feb-26	05-Mar-26	05-Mar-26	3	Work Da
C2055	Placement of Rock and Geo Fabrick	3	3	06-Mar-26	06-Mar-26	10-Mar-26	10-Mar-26	3	Work Da
C2060	Placement and Compaction of 8" Soil	3	3	11-Mar-26	11-Mar-26	13-Mar-26	13-Mar-26	3	Work Da
C2070	Placement of 4" Course Aggragte and 8" Stone	3	3	16-Mar-26	16-Mar-26	18-Mar-26	18-Mar-26	3	Work Da
C2080	Construct (7) Bollards	3	3	16-Mar-26	16-Mar-26	18-Mar-26	18-Mar-26	3	Work Da
C2090	Construct AC Paving	3	3	19-Mar-26	19-Mar-26	23-Mar-26	23-Mar-26	3	Work Da
SOCWA JBLTP-3.3.3	Project Close Out	3	3	24-Mar-26	24-Mar-26	26-Mar-26	26-Mar-26	3	Work Da
D1000	Punchlist Items	2	2	24-Mar-26	24-Mar-26	25-Mar-26	25-Mar-26	3	Work Da
D1010	Site Clean-up	1	1	26-Mar-26	26-Mar-26	26-Mar-26	26-Mar-26	3	Work Da
D1020	Demobilize	1	1	26-Mar-26	26-Mar-26	26-Mar-26	26-Mar-26	3	Work Da



Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
summary

SS Mechanical Construction Corp

TASK filter: All Activities

Agenda Item 6.C.

Board of Directors Meeting

Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Roni Grant, Capital Improvement Program Manager

SUBJECT: Contract Award for Coastal Treatment Plant West Primary and Secondary Scum Skimming System Construction [Project Committee 15]

Overview

The Coastal Treatment Plant (CTP), originally constructed in 1982, includes three west primary sedimentation basins and three west secondary sedimentation basins. The scum skimming systems serving these basins—comprising skimmers, troughs, and beaches—have reached the end of their useful life and are no longer functioning reliably. Their replacement is essential to maintain effective solids removal and prevent operational inefficiencies.

To expedite the replacement process and minimize potential delays, SOCWA staff proactively pre-purchased the new scum skimming equipment in September 2024. The equipment was successfully delivered to CTP in Fall 2025 and is ready for installation.

Bids

On August 25, 2025, SOCWA issued a formal solicitation for bids via the PlanetBids platform, inviting qualified contractors to participate in the procurement process for the installation of the pre-purchased scum skimming system. A site walk was conducted to provide interested parties with an opportunity to assess existing conditions and ask questions.

Bid submissions were due by October 16, 2025. SOCWA received two bids: one from Filanc and another from Pacific Hydrotech. The Engineer's cost estimate for the project was $300,000. Based on the bid evaluations, Filanc was identified as the apparent responsible low bidder. A summary of the bid results is provided in Table 1 below. For reference, the complete bid packages submitted by Filanc and Pacific Hydrotech are attached.

Table 1 - Summary of Bids

Item No.	Description	Filanc	Pacific Hydotech
A1	Mobilization/Demobilization	$40,0000	$145,300
A2	Confined Space Safety Measures	$73,400	$30,000
A3	Non-destructive Testing	$23,100	$29,800
A4	Concrete Rehabilitation	$21,100	$22,000
A5	Demolition of Existing Scum Skimming Equipment	$56,900	$130,000
A6	Full Depth Concrete Crack Repair	$50,100	$53,500
A7	Miscellaneous Demolition	$15,800	$10,600
A8	Installation of New Skimmer System	$248,700	$524,100
A9	Protective Coating Repair	$166,000	$180,000
A10	Testing of New Skimming System with Manufacturer	$24,700	$13,500
A11	Field Order Allowance	$50,000	$50,000
	Item A Total	$769,800	$1,188,800
B1	Solids Removal	$7,400	$27,200
B2	Access Hatch Rehabiilitation	$6,800	$6,400
	Item B Total	$14,200	$33,600
	Total Bid	$784,000	$1,222,400

Cost Allocation

Table 2 presents the cost allocation for the construction project.

Table 2 – Cost allocation by member agency

Agency	**West Primary/Scecondary Scum Skimming System (35246L/35239L)**
City of Laguna Beach	$468,048.00
Emerald Bay Service District	$23,441.60
South Coast Water District	$29,2510.40
Total	$784,000.00

Table 3 presents the cost breakdown of the pre-purchased equipment (for reference only)

Table 3 – Summary of cost breakdown of the pre-purchased equipment

Equipment	**Brentwood Polychem**
West Primary Scum Skimming System	$494,357.00
West Secondary Scum Skimming System	$436,603.00
Total	$930,960.00

Budget

The currently approved budget for the CTP West Primary and Secondary Scum Skimming Systems is $1.25 million, of which $930,960 has been expended for equipment pre-purchase. Staff is requesting an additional $500,000 to support the remaining project needs, resulting in a revised total project budget of $1.75 million.

Additionally, staff recommends the inclusion of a contingency amount of $35,040 to address any unforeseen conditions or issues that may arise during the construction phase. This would bring the total project authorization to $819,040.

Prior Related Project Committee or Board Action(s)

This item was reviewed and discussed by the Engineering Committee on November 13, 2025.

Recommended Action: The Engineering Committee recommend that the PC 15 Board of Directors:

1. Approve an increase of $500,000 to the project budget, resulting in a revised total project budget of $1.75 million.
2. Authorize execution of a contract with Filanc in the amount of $784,000.
3. Approve a construction contingency of $35,040 to address any unforeseen conditions encountered during the work.

REQUIRED FORMS

BID FORM

PROPOSAL TO

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

FOR THE CONSTRUCTION OF COASTAL TREATMENT PLANT WEST PRIMARY AND SECONDARY SCUM SKIMMING SYSTEM REPLACEMENT

Name of Bidder: Filanc

Business Address: 740 N Andreasen Drive, Escondido, CA 92029

Phone No.: 760-941-7130

TO THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (SOCWA)

The undersigned, as Bidder, hereby certifies and declares that:

Pursuant to, and in compliance with, the Notice Inviting Bids and the other documents relating thereto, the undersigned bidder, being fully familiar with the terms of the Contract Documents, local conditions affecting the performance of the Contract, the character, quality, quantities, and scope of the Work, and the cost of the Work at the place where the Work is to be done, hereby proposes and agrees to perform within the time stipulated in the Contract, including all of its component parts and everything required to be performed, and to furnish any and all of the labor, materials, tools, equipment, transportation, services, permits, utilities, and all other items necessary to perform the Contract and complete, in a workmanlike manner, all of the Work required in connection with the construction of said Work all in strict conformity with the Plans and Specifications and other Contract Documents, for the prices hereinafter set forth.

The only persons or parties interested in this Proposal as principals are those named herein and that this Proposal is made without collusion with any person, firm, or corporation as set forth in more detail in the Noncollusion Affidavit executed herewith. Further, the undersigned proposes and agrees, if the Proposal is accepted, that he/she will execute a Contract with the SOCWA in the form set forth in the Contract Documents and that he/she will accept in full payment thereof the following prices to with:

SCHEDULE OF WORK ITEMS

SCHEDULE OF WORK ITEMS

BID SCHEDULE A

Furnish all labor, materials, equipment, applicable taxes, and incidentals necessary for the accomplishment of the following specific work items, each being the LUMP SUM PRICE, LINEAR FOOT PRICE, STIPULATED DOLLAR AMOUNT, ALLOWANCE PRICE, OR EACH PRICE for the specific item:

Item No.	Description	Size-Quantity	Unit	Unit Price	Item Total
BID SCHEDULE A – COASTAL TREATMENT PLANT SCUM SKIMMERS REPLACEMENT PROJECT – WEST BASINS					
1	**Mobilization/Demobilization**	1	LS	$40,000	$ 40,000
2	**Confined Space Safety Measures**	1	LS	$73,400	$ 73,400
3	**Non-destructive Testing**	LS	EA	$23,100	$ 23,100
4	**Concrete Rehabilitation (patching of spalling areas at a size of 6 inches by 6 inches by 2 inches deep, includes rehabilitation of exposed rebar)**	20	EA	$1,055	$ 21,100
5	**Demolition of Existing Scum Skimmer Equipment (to be performed basin by basin)**	1	LS	$56,900	$ 56,900
6	**Full Depth Concrete Crack Repair**	5	EA	$10,020	$50,100
7	**Miscellaneous Demolition**	1	LS	$15,800	$ 15,800
8	**Installation of New Skimmer System including a workshop with equipment manufacturer for installation protocols**	1	LS	$248,700	$248,700
9	**Protective Coating Repair**	1000	SQ-FT	$ 166	$166,000
10	**Testing of New Skimmer System with the Equipment Manufacturer present**	1	LS	$24,700	$ 24,700
11	**Field Order Allowance**	1	Allowance	$50,000	$50,000
				SUBTOTAL BID SCHEDULE A	769,800

BID SCHEDULE B

Furnish all labor, materials, equipment, applicable taxes, and incidentals necessary for the accomplishment of the following specific work items, each being the LUMP SUM PRICE, LINEAR FOOT PRICE, STIPULATED DOLLAR AMOUNT, ALLOWANCE PRICE, OR EACH PRICE for the specific item:

Item No.	Description	Size-Quantity	Unit	Unit Price	Item Total
BID SCHEDULE B – OPTIONAL FOR BID SCHEDULES A					
1	**Solids Removal (2-man crew/8 hours)**	4	EA	$ 1,850	$ 7,400
2	**Access Hatch Rehabilitation (replacement of all hardware and rust removal)**	2	EA	$ 3,400	$ 6,800
			SUBTOTAL BID SCHEDULE B		14,200

ADD/DEDUCT – List Bid Items Affected and Amount*:

Item No.	Add (+) Amount	Deduct (-) Amount
N/A	$ N/A	$ N/A
	$	$
	$	$
	$	$
	$	$

SUBTOTAL ADD (+)/DEDUCT(-) ITEMS:

($ N/A)

*Provision is made here for the bidder to include an addition or deduction in their Bid, if bidder wishes, to reflect any last-minute adjustments in price. The addition or deduction, if made, will be applied to the listed bid item.

TOTAL CONTRACT PRICE (Sum of Subtotal Lump Sum Price and Subtotal Add/Deduct Items):

($ 784,000)

Total amount of bid (written in words):

SEVEN HUNDRED EIGHTY FOUR THOUSAND **Dollars**

Award of contract will be made to the lowest responsive, responsible bidder on the basis of the TOTAL CONTRACT PRICE.

Award of contract is based on the Total Contract Price noted above and is not impacted by the proposed cost of any additive bid item. Owner retains the right to include any additive bid item value in the overall project at the time of contract award.

Signature of Bidder: _____

Date: 10/15/2025

LIST OF SUBCONTRACTORS

The name, California Contractor's license number, registration number issued pursuant to Labor Code Section 1725.5, and location of place of business of each subcontractor who will perform work or labor or render service to the Bidder in or about the construction of the work or improvements in an amount in excess of one-half of one percent (.5%) of the Bidder's Total Contract Price, and the portion of the Work which will be done by each subcontractor is set forth as follows (attach additional sheets as necessary). Circumvention by the Bidder of the requirement to list subcontractors by the device of listing one subcontractor who will in turn sublet portions constituting the majority of the Work covered by this Contract shall be considered a violation of Chapter

4 of the California Public Contract Code and shall subject the Bidder to the penalties set forth in Sections 4110 and 4111 of said Code. Bidder shall conduct substitutions of subcontractors in compliance with Public Contract Code Sections 4106 et seq. detailing the process and conditions under which a public agency may consent to a subcontractor substitution. Except as hereinabove provided, bidder acknowledges and agrees that bidder will perform all required Work in accordance with Section 4106 of the Public Contract Code.

Contractor's Name	Contractor's License & Registration Number	Place of Business	Type of Work
TECHNO COATINGS	196517 1000005941	ANAHEIM, CA.	COATINGS

LIST OF EQUIPMENT MANUFACTURERS (Not Used)

COMPANY DATA

Legal name of Bidder: Filanc

Primary Contact: David Kiess, Vice President

Business address: 740 N Andreasen Drive, Escondido, CA 92029

Telephone: 760-941-7130

Facsimile: n/a

Email: DKiess@filanc.com

California Contractor's License:

Primary Class: A

License No.: 134877

Expiration Date: 09/30/2027

Supplemental Classification held, if any: B,C10ww

The full names of all persons and parties interested in the foregoing Bid Form as principals are as follows *(NOTICE: Give first and last names in full; in case of corporation, give names of President, Secretary, Treasurer, and Manager, and in case of partnerships and joint ventures, give names of all the individual members, attached additional sheets as necessary)*:

Omar Rodea, President

Christine Moore, CFO

David Kiess, Vice President

PROPOSED CONSTRUCTION PROJECT SCHEDULE

Bidder has attached hereto a proposed construction progress schedule showing the sequence of activities for completion of the Work, in bar chart format. The proposed construction progress schedule includes major construction activities, major equipment procurement and delivery activities, working time limits imposed by permits, and substantial and final completion milestones, and identifies critical path tasks. The schedule is displayed in elapsed numerical days rather than calendar dates and equals the Contract Time.

CLOSING STATEMENT & CERTIFICATIONS

The undersigned Bidder further certifies as follows:

The Total Bid Price requests sufficient funds to allow Contractor to comply with all applicable laws or regulations governing the labor or services to be provided under the Contract. Furthermore, Bidder hereby agrees to indemnify SOCWA for liabilities and penalties for violations of Labor Code Section 2810.

The cost for all labor, materials, equipment, taxes, freight, insurance and incidentals necessary for the Work is included in the Total Bid Price, including but not limited to sheeting, shoring, and bracing, or equivalent method for the protection of life and limb in trenches and open excavation in conformance with applicable safety orders.

The Bidder is, at the time of bidding, and shall be, throughout the period of the Contract, licensed by the State of California to do the type of Work required under the terms of the Contract Documents. Bidder further certifies that Bidder is skilled and regularly engaged in the general class and type of Work called for in the Contract Documents.

Bidder is not an ineligible contractor for the purposes of California Labor Code Section 1777.1 or 1777.7, and no subcontractor to be used for the performance of the Work is an ineligible contractor for the purposes of Labor Code Section 1777.1 or 1777.7.

Bidder is competent, knowledgeable and has special skills regarding the nature, extent and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that Bidder is aware of such peculiar risks and that Bidder has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the construction Work with respect to such hazards.

Bidder acknowledges receipt of the following Addenda: 1

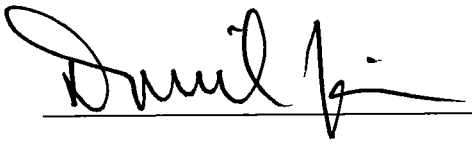
_____.

Bidder has attached hereto Bid security, in the form of a bond, cashier's check, or certified check, in an amount which is equal to (at least) ten percent (10%) of the total amount of the Bid, payable in lawful money of the United States to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY.

Bidder is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for worker's compensation or undertake self-insurance in accordance with the provisions of that code, and will comply with such provisions before commencing the performance of the Work.

Bidder has inspected the site of the Work prior to submitting this Bid.

By signing below, the undersigned certifies that he/she has the legal authority to bind the Bidder and that all representations, certifications, and statements made by Bidder, as set forth in this Bid, are true and correct and are made under penalty of perjury.

Signature: 

Clearly printed name: David Kiess

Position: Vice President

Date/Location: OCTOBER 13, 2025 at Escondido, CA

Seal (if any):

Co-Signature: 

Clearly printed name: Omar Rodea

Position: President

Date/Location: _____, 20__, at Escondido, CA

NOTICE: Pursuant to the requirements of California Business and Professions Code, Section 7028.15(e), a bid submitted to the SOCWA by a contractor who is not licensed pursuant to Chapter 9, of Division 3, of the Business and Professions Code, shall be considered nonresponsive and shall be rejected as provided for by law.

NONCOLLUSION AFFIDAVIT
To Be Executed by Bidder and Submitted with Bid
(Public Contract Code § 7106)

The undersigned declares:

I am the Vice President of Filanc, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 10/13/2025 [date], at Escondido [city], CA [state].

BIDDER:

Filanc
[Type full name of Bidder]

By: _____

David Kiess, Vice President
[Print name and title]

BIDDER'S BOND

(At Least 10 Percent of the Total Contract Price)

We Filanc, as Principal,

and Travelers Casualty and Surety Company of America, as Surety,

jointly and severally, bind ourselves, our heirs, representatives, successors, and assigns, as set forth herein, to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA") for payment of the penal sum of

Ten percent of bid amount ----

Dollars ($ 10% of bid amount ----),

lawful money of the United States, such amount representing at least ten percent (10%) of the amount of the Total Bid Price to obtain the award of a contract for the Coastal Treatment Plant West Primary and Secondary Basins Scum Skimming System Replacement and to be paid to SOCWA, its successors and assigns, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly hereby.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall not withdraw said Bid within the period of time set forth in the Contract Documents, and shall within fifteen (15) calendar days after the prescribed forms are presented to the Principal for signature enter into a written contract with SOCWA in accordance with the Bid as accepted, and if the Principal shall give the required bonds with good and sufficient sureties for the faithful performance and proper fulfillment of such contract, and for the protection of laborers and materialmen, or in the event of the withdrawal of the Bid within the period specified, or the failure to enter into the Contract, and give such bonds within the time specified, if the Principal shall within sixty (60) days after request by SOCWA pay to SOCWA the difference between the amount specified in the Bid and the amount for which SOCWA may procure the required work, if the latter amount be in excess of the former, then the above obligation shall be void and of no effect, otherwise if shall remain in full force and effect.

Forfeiture of this bond, or any deposit made in lieu thereof, shall not preclude the SOCWA from seeking all other remedies provided by law to cover losses sustained as a result of the Principal's failure to do any of the foregoing and this bond shall not be a limitation on Principals' liability therefor.

Principal and Surety agree that if the SOCWA is required to engage the services of an attorney(s) in connection with the enforcement of this bond, each shall pay SOCWA's costs and reasonable attorney fees incurred with or without suit.

IN WITNESS WHEREOF,

Executed on October 16, 2025.

[CORPORATE SEAL]

Filanc
Principal

By Melinda Young

VP of Risk Mgmt
Title

(ATTACH NOTARY ACKNOWLEDGMENT OF AUTHORIZED REPRESENTATIVE OF PRINCIPAL)

Any claims under this bond may be addressed to:

Travelers Casualty and Surety Company of America (Name and address of Surety)

One Tower Square

Hartford, CT 06183

Scott Barshop/Travelers Casualty and Surety Company of America (Name and address of Surety's agent for service of process in California, if different from above)

100 California St., Ste 725, San Francisco, CA 94111

415-732-1490
(Telephone number of Surety's agent In California)

(ATTACH NOTARY ACKNOWLEDGMENT)

Travelers Casualty and Surety Company of America
Surety

By Cheryl L McAleenan
(Attorney-in-Fact) Cheryl L McAleenan

NOTICE

No substitution or revision to this bond form will be accepted. Sureties must be authorized to do business, and have an agent for service of process, in California. A certified copy of Power of Attorney must be attached.

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and the Companies do hereby make, constitute and appoint **Cheryl L McAleenan** of **Maryland Heights**, **Missouri**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **16th** day of **February, 2024.**

SEAL SEAL SEAL

State of Connecticut

By: _____
Bryce Grissom, Senior Vice President

City of Hartford ss.

On this the **16th** day of **February, 2024**, before me personally appeared **Bryce Grissom**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

ANNA P NOWIK NOTARY PUBLIC CONNECTICUT

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **16th** day of **October**, **2025**.

SEAL SEAL SEAL

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

STATE OF Missouri
COUNTY OF St. Louis

On this 16th day of October, 2025, before me personally appeared Cheryl L. McAleenan, with whom I am personally acquainted, who, being by me duly sworn, said: That she is Attorney-in-Fact of Travelers Casualty and Surety Company of America, the corporation described in and which executed the foregoing instrument; that she knows the corporate seal of said Company; that said seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors thereof and of her office under the Standing Resolutions of said Company; and that she signed his/her name thereto as Attorney- in-Fact by like authority.

TONYA A. MEINHARDT
Notary Public-Notary Seal
STATE OF MISSOURI
Commissioned for St. Louis County
My Commission Expires: 08/15/2028
ID. #12618776

(Tonya A. Meinhardt) - *Notary Public*
Commission Number: 12618776
My Commission Expires: August 15th, 2028.

NOTARY STAMP

MISSOURI NOTARY ACKNOWLEDGMENT

State of Missouri)
County of St. Louis) ss.

On this 16th day of October, 2025, before me, the undersigned Notary Public, personally appeared Melinda Young, known to me to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal in the County and State aforesaid on the day and year above written.

Katherine Lucille French
Notary Public Signature
Printed Name: Katherine Lucille French
My Commission Expires: 5-20-2027

KATHERINE LUCILLE FRENCH
Notary Public, Notary Seal
State of Missouri
St. Louis County
Commission # 19237536
My Commission Expires 05-20-2027

(Seal)

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO REQUEST FOR PROPOSALS

FOR COASTAL TREATMENT PLANT

WEST PRIMARY AND SECONDARY SCUM SKIMMING SYSTEM

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

In the BID FORM:

Schedule of Work Items, Bid Schedule A:

Item 3: Non-destructive testing per basin, the quantity should be 1, and the unit should be LS, for all six basins.

DATED: 9/11/2025
Roni Young Grant
CIP Manager

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 10/15/2025

BIDDER: FIORE
BY:

BID FORM

PROPOSAL TO

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

FOR THE CONSTRUCTION OF COASTAL TREATMENT PLANT WEST PRIMARY AND SECONDARY SCUM SKIMMING SYSTEM REPLACEMENT

Name of Bidder: Pacific Hydrotech Corporation

Business Address: 314 E 3rd Street Perris, CA 92570

Phone No.: 951-943-8803

TO THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (SOCWA)

The undersigned, as Bidder, hereby certifies and declares that:

Pursuant to, and in compliance with, the Notice Inviting Bids and the other documents relating thereto, the undersigned bidder, being fully familiar with the terms of the Contract Documents, local conditions affecting the performance of the Contract, the character, quality, quantities, and scope of the Work, and the cost of the Work at the place where the Work is to be done, hereby proposes and agrees to perform within the time stipulated in the Contract, including all of its component parts and everything required to be performed, and to furnish any and all of the labor, materials, tools, equipment, transportation, services, permits, utilities, and all other items necessary to perform the Contract and complete, in a workmanlike manner, all of the Work required in connection with the construction of said Work all in strict conformity with the Plans and Specifications and other Contract Documents, for the prices hereinafter set forth.

The only persons or parties interested in this Proposal as principals are those named herein and that this Proposal is made without collusion with any person, firm, or corporation as set forth in more detail in the Noncollusion Affidavit executed herewith. Further, the undersigned proposes and agrees, if the Proposal is accepted, that he/she will execute a Contract with the SOCWA in the form set forth in the Contract Documents and that he/she will accept in full payment thereof the following prices to with:

SCHEDULE OF WORK ITEMS

SCHEDULE OF WORK ITEMS

BID SCHEDULE A

Furnish all labor, materials, equipment, applicable taxes, and incidentals necessary for the accomplishment of the following specific work items, each being the LUMP SUM PRICE, LINEAR FOOT PRICE, STIPULATED DOLLAR AMOUNT, ALLOWANCE PRICE, OR EACH PRICE for the specific item:

Item No.	Description	Size-Quantity	Unit	Unit Price	Item Total
BID SCHEDULE A – COASTAL TREATMENT PLANT SCUM SKIMMERS REPLACEMENT PROJECT – WEST BASINS					
1	**Mobilization/Demobilization**	1	LS	$145,300	$145,300
2	**Confined Space Safety Measures**	1	LS	$30,000	$30,000
3	**Non-destructive Testing**	LS	EA	$29,800	$29,800
4	**Concrete Rehabilitation (patching of spalling areas at a size of 6 inches by 6 inches by 2 inches deep, includes rehabilitation of exposed rebar)**	20	EA	$1,100	$22,000
5	**Demolition of Existing Scum Skimmer Equipment (to be performed basin by basin)**	1	LS	$130,000	$130,000
6	**Full Depth Concrete Crack Repair**	5	EA	$10,700	$53,500
7	**Miscellaneous Demolition**	1	LS	$10,600	$10,600
8	**Installation of New Skimmer System including a workshop with equipment manufacturer for installation protocols**	1	LS	$524,100	$524,100
9	**Protective Coating Repair**	1000	SQ-FT	$180	$180,000
10	**Testing of New Skimmer System with the Equipment Manufacturer present**	1	LS	$13,500	$13,500
11	**Field Order Allowance**	1	Allowance	$50,000	$50,000
				SUBTOTAL BID SCHEDULE A	

BID SCHEDULE B

Furnish all labor, materials, equipment, applicable taxes, and incidentals necessary for the accomplishment of the following specific work items, each being the LUMP SUM PRICE, LINEAR FOOT PRICE, STIPULATED DOLLAR AMOUNT, ALLOWANCE PRICE, OR EACH PRICE for the specific item:

Item No.	Description	Size-Quantity	Unit	Unit Price	Item Total
BID SCHEDULE B – OPTIONAL FOR BID SCHEDULES A					
1	**Solids Removal (2-man crew/8 hours)**	4	EA	$6,800	$27,200
2	**Access Hatch Rehabilitation (replacement of all hardware and rust removal)**	2	EA	$3,200	$ 6,400
			SUBTOTAL BID SCHEDULE B		1,222,400

ADD/DEDUCT – List Bid Items Affected and Amount*:

Item No.	Add (+) Amount	Deduct (-) Amount
0	$ 0	$ 0
	$	$
	$	$
	$	$
	$	$

SUBTOTAL ADD (+)/DEDUCT(-) ITEMS:

($ 0)

*Provision is made here for the bidder to include an addition or deduction in their Bid, if bidder wishes, to reflect any last-minute adjustments in price. The addition or deduction, if made, will be applied to the listed bid item.

TOTAL CONTRACT PRICE (Sum of Subtotal Lump Sum Price and Subtotal Add/Deduct Items):

($ 1,222,400- **)**

Total amount of bid (written in words):

One Million Two Hundred Twenty Two Thousand four Hundred dollars and Zero cents. **Dollars**

Award of contract will be made to the lowest responsive, responsible bidder on the basis of the TOTAL CONTRACT PRICE.

Award of contract is based on the Total Contract Price noted above and is not impacted by the proposed cost of any additive bid item. Owner retains the right to include any additive bid item value in the overall project at the time of contract award.

Signature of Bidder: _____

Date: 10/10/2025

LIST OF SUBCONTRACTORS

The name, California Contractor's license number, registration number issued pursuant to Labor Code Section 1725.5, and location of place of business of each subcontractor who will perform work or labor or render service to the Bidder in or about the construction of the work or improvements in an amount in excess of one-half of one percent (.5%) of the Bidder's Total Contract Price, and the portion of the Work which will be done by each subcontractor is set forth as follows (attach additional sheets as necessary). Circumvention by the Bidder of the requirement to list subcontractors by the device of listing one subcontractor who will in turn sublet portions constituting the majority of the Work covered by this Contract shall be considered a violation of Chapter

4 of the California Public Contract Code and shall subject the Bidder to the penalties set forth in Sections 4110 and 4111 of said Code. Bidder shall conduct substitutions of subcontractors in compliance with Public Contract Code Sections 4106 et seq. detailing the process and conditions under which a public agency may consent to a subcontractor substitution. Except as hereinabove provided, bidder acknowledges and agrees that bidder will perform all required Work in accordance with Section 4106 of the Public Contract Code.

Contractor's Name	Contractor's License & Registration Number	Place of Business	Type of Work
Techno Coatings	296517 #1000005841	Anaheim, CA	CRACK / concrete repair
Hydrotech Electric	977838 #1000001266	Winchester, CA	Electrical & instrumentation

LIST OF EQUIPMENT MANUFACTURERS (Not Used)

COMPANY DATA

Legal name of Bidder: Pacific Hydrotech Corporation

Primary Contact: Joselito Guintu

Business address: 314 E 3rd Street Perris, CA 92570

Telephone: 951-943-8803

Facsimile: 951-943-1093

Email: Lito@pachydro.com

California Contractor's License:

Primary Class: A

License No.: 518355

Expiration Date: 9-30-2027

Supplemental Classification held, if any: B

The full names of all persons and parties interested in the foregoing Bid Form as principals are as follows *(NOTICE: Give first and last names in full; in case of corporation, give names of President, Secretary, Treasurer, and Manager, and in case of partnerships and joint ventures, give names of all the individual members, attached additional sheets as necessary)*:

*See attached corporate resolution.

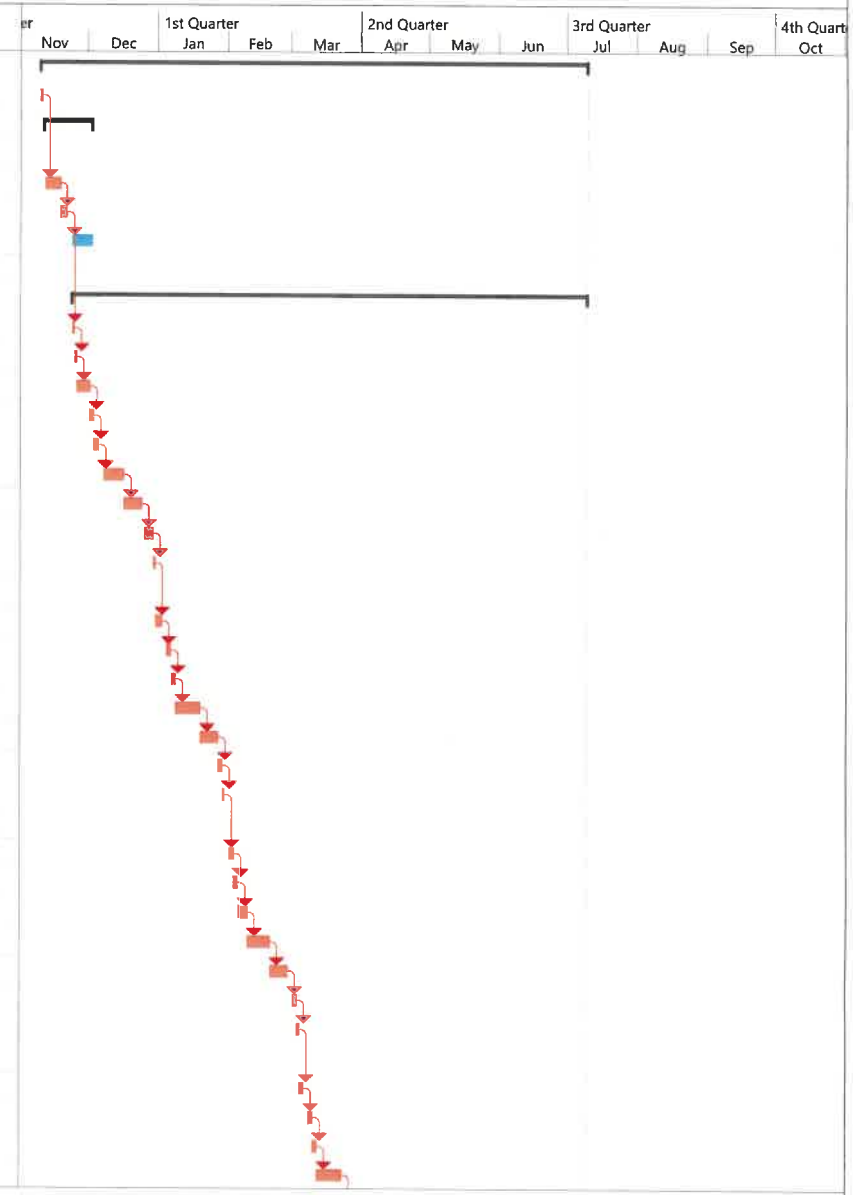
PROPOSED CONSTRUCTION PROJECT SCHEDULE

Bidder has attached hereto a proposed construction progress schedule showing the sequence of activities for completion of the Work, in bar chart format. The proposed construction progress schedule includes major construction activities, major equipment procurement and delivery activities, working time limits imposed by permits, and substantial and final completion milestones, and identifies critical path tasks. The schedule is displayed in elapsed numerical days rather than calendar dates and equals the Contract Time.

*SEE ATTATCHED

Pacific Hydrotech Bid Schedule Primary/Secondary Scum Skimming

ID	Task Name	Duration	Start	Finish	Predeces	Resource Names
1	**CONTRACT TIME (WORKING DAYS)**	**166 days**	**Mon 11/10/25**	**Thu 7/9/26**		
2	**Notice to Proceed**	**1 day**	**Mon 11/10/25**	**Mon 11/10/25**		
3	**Critical Submittals**	**13 days**	**Wed 11/12/25**	**Tue 12/2/25**		
4						
5	Concrete Repair Material Submittals	5 days	Wed 11/12/25	Tue 11/18/25	2	
6	Submittal Review & Approval	3 days	Wed 11/19/25	Fri 11/21/25	5	
7	Material Lead Time	5 days	Mon 11/24/25	Tue 12/2/25	6	
8						
9	**Construction Of West Lift Station**	**157 days**	**Mon 11/24/25**	**Thu 7/9/26**		
10	Mobilize	1 day	Mon 11/24/25	Mon 11/24/25	6	
11	Inspect owner's Material	1 day	Tue 11/25/25	Tue 11/25/25	10	
12	Drain Primary Tank W-1	2 days	Wed 11/26/25	Mon 12/1/25	11	
13	NDT on Concrete	2 days	Tue 12/2/25	Wed 12/3/25	12	
14	Demolition Work	2 days	Thu 12/4/25	Fri 12/5/25	13	
15	Concrete Repairs	7 days	Mon 12/8/25	Tue 12/16/25	14	
16	Install New Equipments	6 days	Wed 12/17/25	Wed 12/24/25	15	
17	Testing	2 days	Fri 12/26/25	Mon 12/29/25	16	
18	Approval of Installation and Testing	1 day	Tue 12/30/25	Tue 12/30/25	17	
19						
20	Drain Primary Sed. Tank W-1	2 days	Wed 12/31/25	Fri 1/2/26	18	
21	NDT on Concrete	2 days	Mon 1/5/26	Tue 1/6/26	20	
22	Demolition Work	2 days	Wed 1/7/26	Thu 1/8/26	21	
23	Concrete Repairs	7 days	Fri 1/9/26	Mon 1/19/26	22	
24	Install New Equipments	6 days	Tue 1/20/26	Tue 1/27/26	23	
25	Testing	2 days	Wed 1/28/26	Thu 1/29/26	24	
26	Approval of Installation and Testing	1 day	Fri 1/30/26	Fri 1/30/26	25	
27						
28	Drain Primary Sed. Tank W-2	2 days	Mon 2/2/26	Tue 2/3/26	26	
29	NDT on Concrete	2 days	Wed 2/4/26	Thu 2/5/26	28	
30	Demolition Work	2 days	Fri 2/6/26	Mon 2/9/26	29	
31	Concrete Repairs	7 days	Tue 2/10/26	Thu 2/19/26	30	
32	Install New Equipments	6 days	Fri 2/20/26	Fri 2/27/26	31	
33	Testing	2 days	Mon 3/2/26	Tue 3/3/26	32	
34	Approval of Installation and Testing	1 day	Wed 3/4/26	Wed 3/4/26	33	
35						
36	Drain Primary Sed. Tank W-3	2 days	Thu 3/5/26	Fri 3/6/26	34	
37	NDT on Concrete	2 days	Mon 3/9/26	Tue 3/10/26	36	
38	Demolition Work	2 days	Wed 3/11/26	Thu 3/12/26	37	
39	Concrete Repairs	7 days	Fri 3/13/26	Mon 3/23/26	38	

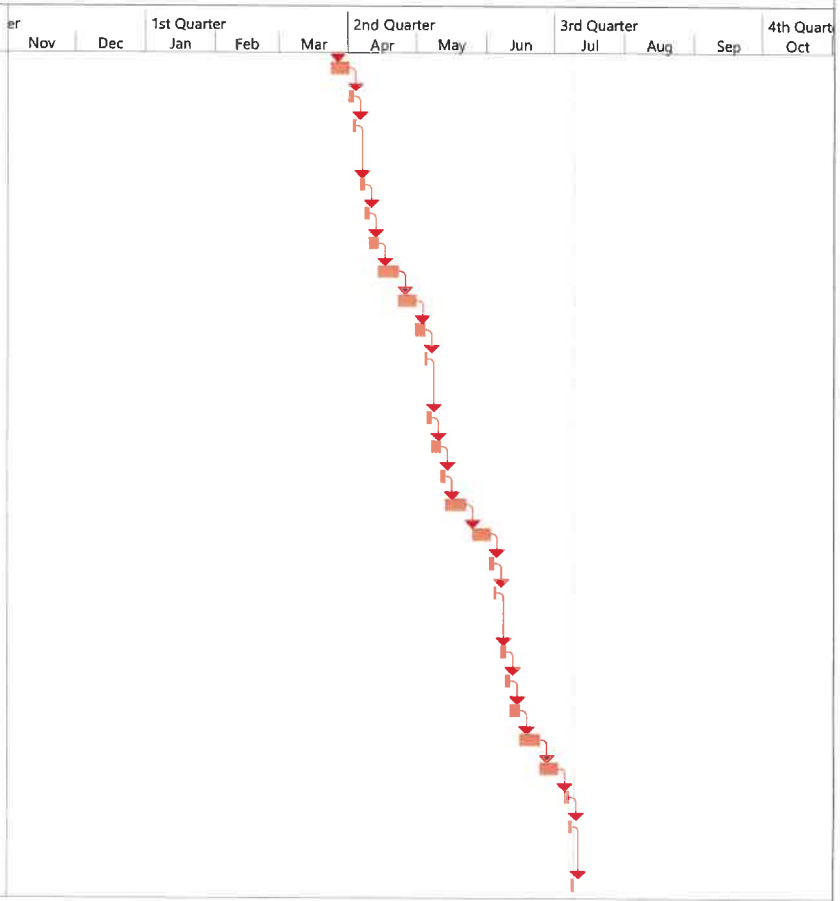


Project: SOCWA

Task	Inactive Task	Manual Summary Rollup	External Milestone	Manual Progress
Split	Inactive Milestone	Manual Summary	Deadline	
Milestone	Inactive Summary	Start-only	Critical	
Summary	Manual Task	Finish-only	Critical Split	
Project Summary	Duration-only	External Tasks	Progress	

Pacific Hydrotech Bid Schedule Primary/Secondary Scum Skimming

ID	Task Name	Duration	Start	Finish	Predeces	Resource Names
40	Install New Equipments	6 days	Tue 3/24/26	Tue 3/31/26	39	
41	Testing	2 days	Wed 4/1/26	Thu 4/2/26	40	
42	Approval of Installation and Testing	1 day	Fri 4/3/26	Fri 4/3/26	41	
43						
44	Drain Secondary Sed. Tank W-1	2 days	Mon 4/6/26	Tue 4/7/26	42	
45	NDT on Concrete	2 days	Wed 4/8/26	Thu 4/9/26	44	
46	Demolition Work	2 days	Fri 4/10/26	Mon 4/13/26	45	
47	Concrete Repairs	7 days	Tue 4/14/26	Wed 4/22/26	46	
48	Install New Equipments	6 days	Thu 4/23/26	Thu 4/30/26	47	
49	Testing	2 days	Fri 5/1/26	Mon 5/4/26	48	
50	Approval of Installation and Testing	1 day	Tue 5/5/26	Tue 5/5/26	49	
51						
52	Drain Secondary Sed Tank W-2	2 days	Wed 5/6/26	Thu 5/7/26	50	
53	NDT on Concrete	2 days	Fri 5/8/26	Mon 5/11/26	52	
54	Demolition Work	2 days	Tue 5/12/26	Wed 5/13/26	53	
55	Concrete Repairs	7 days	Thu 5/14/26	Fri 5/22/26	54	
56	Install New Equipments	6 days	Tue 5/26/26	Tue 6/2/26	55	
57	Testing	2 days	Wed 6/3/26	Thu 6/4/26	56	
58	Approval of Installation and Testing	1 day	Fri 6/5/26	Fri 6/5/26	57	
59						
60	Drain Secondary Sed Tank W-3	2 days	Mon 6/8/26	Tue 6/9/26	58	
61	NDT on Concrete	2 days	Wed 6/10/26	Thu 6/11/26	60	
62	Demolition Work	2 days	Fri 6/12/26	Mon 6/15/26	61	
63	Concrete Repairs	7 days	Tue 6/16/26	Wed 6/24/26	62	
64	Install New Equipments	6 days	Thu 6/25/26	Thu 7/2/26	63	
65	Testing	2 days	Mon 7/6/26	Tue 7/7/26	64	
66	Approval of Installation and Testing	1 day	Wed 7/8/26	Wed 7/8/26	65	
67						
68	DEMOBILIZE	1 day	Thu 7/9/26	Thu 7/9/26	66	



Project: SOCWA

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Critical
Critical Split
Progress
Manual Progress

CLOSING STATEMENT & CERTIFICATIONS

The undersigned Bidder further certifies as follows:

The Total Bid Price requests sufficient funds to allow Contractor to comply with all applicable laws or regulations governing the labor or services to be provided under the Contract. Furthermore, Bidder hereby agrees to indemnify SOCWA for liabilities and penalties for violations of Labor Code Section 2810.

The cost for all labor, materials, equipment, taxes, freight, insurance and incidentals necessary for the Work is included in the Total Bid Price, including but not limited to sheeting, shoring, and bracing, or equivalent method for the protection of life and limb in trenches and open excavation in conformance with applicable safety orders.

The Bidder is, at the time of bidding, and shall be, throughout the period of the Contract, licensed by the State of California to do the type of Work required under the terms of the Contract Documents. Bidder further certifies that Bidder is skilled and regularly engaged in the general class and type of Work called for in the Contract Documents.

Bidder is not an ineligible contractor for the purposes of California Labor Code Section 1777.1 or 1777.7, and no subcontractor to be used for the performance of the Work is an ineligible contractor for the purposes of Labor Code Section 1777.1 or 1777.7.

Bidder is competent, knowledgeable and has special skills regarding the nature, extent and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work which may create, during the construction program, unusual or peculiar unsafe conditions hazardous to persons and property. Bidder expressly acknowledges that Bidder is aware of such peculiar risks and that Bidder has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the construction Work with respect to such hazards.

Bidder acknowledges receipt of the following Addenda: 1

Bidder has attached hereto Bid security, in the form of a bond, cashier's check, or certified check, in an amount which is equal to (at least) ten percent (10%) of the total amount of the Bid, payable in lawful money of the United States to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY.

Bidder is aware of the provisions of Section 3700 of the Labor Code, which requires every employer to be insured against liability for worker's compensation or undertake self-insurance in accordance with the provisions of that code, and will comply with such provisions before commencing the performance of the Work.

Bidder has inspected the site of the Work prior to submitting this Bid.

By signing below, the undersigned certifies that he/she has the legal authority to bind the Bidder and that all representations, certifications, and statements made by Bidder, as set forth in this Bid, are true and correct and are made under penalty of perjury.

Signature: 

Clearly printed name: Sean J. Harns

Position: President

Date/Location: October 10, 2025, at Perris, CA

Seal (if any):

Co-Signature: 

Clearly printed name: Joselito Guintu

Position: Vice President

Date/Location: October 10, 2025, at Perris, CA

NOTICE: Pursuant to the requirements of California Business and Professions Code, Section 7028.15(e), a bid submitted to the SOCWA by a contractor who is not licensed pursuant to Chapter 9, of Division 3, of the Business and Professions Code, shall be considered nonresponsive and shall be rejected as provided for by law.

NONCOLLUSION AFFIDAVIT
To Be Executed by Bidder and Submitted with Bid
(Public Contract Code § 7106)

The undersigned declares:

I am the Vice President of Pacific Hydrotech Corporation, the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. The bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder. All statements contained in the bid are true. The bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that this declaration is executed on 10-10-2025 [date], at Perris [city], CA [state].

BIDDER:

Pacific Hydrotech Corporation
[Type full name of Bidder]

By: _____

Joselito Guintu, Vice President
[Print name and title]

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Riverside }

On October 15, 2025 before me, Meztly Ramirez, Notary Public.
Date *Here Insert Name and Title of the Officer*

personally appeared Joselito Guinto
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

MEZTLY NAOMI RAMIREZ
Notary Public - California
Riverside County
Commission # 2504626
My Comm. Expires Nov 16, 2028

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

BIDDER'S BOND

(At Least 10 Percent of the Total Contract Price)

We Pacific Hydrotech Corporation, as Principal,

and Liberty Mutual Insurance Company, as Surety,

jointly and severally, bind ourselves, our heirs, representatives, successors, and assigns, as set forth herein, to the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ("SOCWA") for payment of the penal sum of

Ten Percent of Bid Amount

Dollars ($ 10%),

lawful money of the United States, such amount representing at least ten percent (10%) of the amount of the Total Bid Price to obtain the award of a contract for the Coastal Treatment Plant West Primary and Secondary Basins Scum Skimming System Replacement and to be paid to SOCWA, its successors and assigns, for which payment, well and truly to be made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly hereby.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the Principal shall not withdraw said Bid within the period of time set forth in the Contract Documents, and shall within fifteen (15) calendar days after the prescribed forms are presented to the Principal for signature enter into a written contract with SOCWA in accordance with the Bid as accepted, and if the Principal shall give the required bonds with good and sufficient sureties for the faithful performance and proper fulfillment of such contract, and for the protection of laborers and materialmen, or in the event of the withdrawal of the Bid within the period specified, or the failure to enter into the Contract, and give such bonds within the time specified, if the Principal shall within sixty (60) days after request by SOCWA pay to SOCWA the difference between the amount specified in the Bid and the amount for which SOCWA may procure the required work, if the latter amount be in excess of the former, then the above obligation shall be void and of no effect, otherwise if shall remain in full force and effect.

Forfeiture of this bond, or any deposit made in lieu thereof, shall not preclude the SOCWA from seeking all other remedies provided by law to cover losses sustained as a result of the Principal's failure to do any of the foregoing and this bond shall not be a limitation on Principals' liability therefor.

Principal and Surety agree that if the SOCWA is required to engage the services of an attorney(s) in connection with the enforcement of this bond, each shall pay SOCWA's costs and reasonable attorney fees incurred with or without suit.

IN WITNESS WHEREOF,

Executed on October 9, 25.

[CORPORATE SEAL]

Pacific Hydrotech Corporation
Principal

By _____

Joselito Gumtio Vice President
Title

(ATTACH NOTARY ACKNOWLEDGMENT OF AUTHORIZED REPRESENTATIVE OF PRINCIPAL)

Any claims under this bond may be addressed to:

Liberty Mutual Insurance Company
790 The City Drive South, Suite 200
Orange, CA 92868
(Name and address of Surety)

Alliant Insurance Services, Inc.
701 B Street, 6th Floor
San Diego, CA 92101
(Name and address of Surety's agent for service of process in California, if different from above)

(619) 238-1828
(Telephone number of Surety's agent In California)

(ATTACH NOTARY ACKNOWLEDGMENT)

Liberty Mutual Insurance Company
Surety

By _____
(Attorney-in-Fact) Lawrence F. McMahon

NOTICE

No substitution or revision to this bond form will be accepted. Sureties must be authorized to do business, and have an agent for service of process, in California. A certified copy of Power of Attorney must be attached.

32

See attached California All-Purpose Acknowledgment

CALIFORNIA ALL PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
) ss:
COUNTY OF _____)

On _____, before me, _____, Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

_____
Notary Public

NOTE:
(a) Signature of those executing for Surety must be properly acknowledged.
(b) The Attorney-in-fact must attach a certified copy of the Power of Attorney.

****END OF REQUIRED FORMS****

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Riverside)

On October 15, 2025 before me, Meztly Ramirez , Notary Public ,
Date *Here Insert Name and Title of the Officer*

personally appeared Joselito Guintu
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MEZTLY NAOMI RAMIREZ
Notary Public - California
Riverside County
Commission # 2504626
My Comm. Expires Nov 16, 2028

Signature
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Document Date:
Number of Pages: Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:	Signer's Name:
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other:	☐ Other:
Signer Is Representing:	Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT **CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of San Diego)

On October 9, 2025 before me, Maria Guise, Notary Public,
Date *Here Insert Name and Title of the Officer*

personally appeared Lawrence F. McMahon
Name(s) of Signer(s)

,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MARIA GUISE
Commission # 2444156
Notary Public - California
SAN DIEGO County
My Comm. Expires APR 14, 2027

Signature _____
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____
Document Date: _____ Number of Pages: _____
Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☒ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: Surety Company

Signer's Name: _____
☐ Corporate Officer — Title(s): _____
☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator
☐ Other: _____
Signer Is Representing: _____

POWER OF ATTORNEY

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8213991 - 024019**

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Christopher Conte, Dale G. Harshaw, Geoffrey Shelton, John R. Qualin, Lawrence F. McMahon, Lilia De Loera, Maria Hallmark, Minna Huovila, Natassia Kirk- Smith, Ryan Warnock, Sarah Myers, Tara Bacon

all of the city of San Diego state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 6th day of May, 2025.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
Nathan J. Zangerle, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 6th day of May, 2025 before me personally appeared Nathan J. Zangerle, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2029
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Nathan J. Zangerle, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 9th day of October, 2025.

By: _____
Renee C. Llewellyn, Assistant Secretary

LMS-12873 LMIC OCIC WAIC Multi Co 02/24

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO REQUEST FOR PROPOSALS

FOR COASTAL TREATMENT PLANT

WEST PRIMARY AND SECONDARY SCUM SKIMMING SYSTEM

THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE INCLUDED AS PART OF THE PAGE COUNT).

In the BID FORM:

Schedule of Work Items, Bid Schedule A:

Item 3: Non-destructive testing per basin, the quantity should be 1, and the unit should be LS, for all six basins.

DATED: 9/11/2025
Roni Young Grant
CIP Manager

Roni Young Grant

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: 9-11-2025

BIDDER: Pacific Hydrotech Corporation
BY: _____
Joselito Quinto, Vice President

PACIFIC HYDROTECH CORPORATION
a California Corporation

CORPORATE RESOLUTION
August 7, 2025

RESOLVED, that **James Kirk Harns** – CEO, **Sean Harns** – President, **Joselito Guintu** – Vice President, **Christopher Harns** – Vice President, **June Diaz** – CFO; each has the authority to sign contracts on behalf of the corporation.

BE IT FURTHER RESOLVED that these resolutions may be executed in any number of counterparts and delivered by facsimile, e-mail PDF or other electronic means, each of which shall be deemed an original and all of which when taken together shall constitute one and the same instrument.

J Kirk Harns, CEO

Sean J. Harns, President

Christopher Harns, Vice President

Greg Chehey, Vice President

Joselito M. Guintu, Vice President

David Power, Vice President

Kyle Bremer, Vice President

June Diaz, Chief Financial Officer

Usbaldo Garibaldo, Shareholder

Dale McKay, Shareholder

CHRISTY L HARNS, SECRETARY

STATE OF CALIFORNIA
dca
DEPARTMENT OF CONSUMER AFFAIRS

CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

License Number **518355** Entity CORP

Business Name PACIFIC HYDROTECH CORPORATION

Classification(s) A HAZ B

Expiration Date 09/30/2027 www.cslb.ca.gov

California Environmental Protection Agency

Air Resources Board

January 1, 2025

CERTIFICATE OF REPORTED COMPLIANCE
OFF-ROAD DIESEL VEHICLE REGULATION

is issued to

PACIFIC HYDROTECH CORPORATION

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR, section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and labeled, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/28/2026**

Jack Kitowski
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

5364

To verify the authenticity of this certificate, enter this number at
http://www.arb.ca.gov/doors/compliance_cert1.html

CA

DIR State of California Department of Industrial Relations EST. 1927

Public Works Support | Log in

eCPR Search

Contractor Registration Search

Project Registration Search

Register

Home > Customer Account Lookup > 1000002987 - PACIFIC HYDROTECH CORPORATION

1000002987 - PACIFIC HYDROTECH CORPORATION

Customer Account Lookup

PWCR

1000002987

Contractor Status

DIR Approved

CSLB

518355

Business Phone

9519438803

Ext

Registration Start Date

2025-07-01

Legal Entity Name

PACIFIC HYDROTECH CORPORATION

Doing Business As (DBA)

PACIFIC HYDROTECH CORPORATION

Business Structure

-- None --

President

James K. Harns

Email

ERIVERO@PACHYDRO.COM

Registration End Date

2028-06-30

Crafts

Laborer and Related Classifications | Carpenter and Related Trades | Cranes, Pile Driving and Hoisting Equipment (Operating Engineer) | Bricklayer/Brick Tender | Iron Worker | Cement Mason | Operating Engineer (Heavy and Highway Work) |

Address

Mailing Address

314 E. 3RD STREET

Mailing Address - City

PERRIS

Mailing Address - State

CA

Mailing Address - Zip

92570

Mailing Address - Country

United States

Physical Address

Physical Address - City

Physical Address - State

Physical Address - Zip

Physical Address - Country

Related Lists

Registration Dates (8)

Pacific Hydrotech Project Resume

Job #	Project Name	Location	Owner	Engineer	Construction Manager	Description of Project	Award Value	Total Value of Construction	Original Completion Date M/20XX	Actual Completion Date M/20XX	Project Type (WTP, WWTP, Reservoir, Pump Station, Lift Station, Well)	PM/PC
2204	ESFP Washwater Return and Sludge Collection	Santa Clarita, CA	Santa Clarita Valley Water Agency - Shadi Bader (661) 607-8186 sbader@scvwa.org	Lee & Roy	Santa Clarita Valley Water Agency - Shadi Bader (661) 607-8186 sbader@scvwa.org	Wast Water Treatment Plant	$17,526,700.00	$ 17,865,510.97	Jul-24	Jul-24	WWTP	Sean Harns
2018	Sedimentation Basin Screw Conveyor Replacement	Upland, CA	Water Facilities Authority Terry Caltin (909)981-9454 tlcatlin@Wfajpa.org	N/A	Water Facilities Authority Terry Caltin (909)981-9454 tlcatlin@Wfajpa.org	Installation of two 18" diameter screw conveyors for East & West Sedimentation Basins. Rehabilitation of spalled concrete with Sika Armatec. Repair failed sealant with Sika Duo Flex.	$1,315,200.00	$1,136,821.10	Mar-21	August-21	WWTP	Carlos Aguilar / Tonya Gonzalez
1919	Rosamond WWTP Rehabilitation	Rosamond, CA	Rosamond Community Services District - Brach Smith (661) 816-5729 bsmith@rosamondcsd.com	Kennedy Jenks - Rachel Rodriguez (858) 676-7532 racheldruffel-rodriguez@kennedyjenks.com	Kennedy Jenks - David Mosher (626) 710-6727 dmand1000@gmail.com	This is an expansion of Rosamond's Wastewater Treatment Plant. The project includes the following: new extended aeration basin, replacement of blowers, new secondary clarifier, expansion of sludge pump station, new scum pump station, expansion of sludge drying beds, expansion of utility water pump station, expansion of utility water distribution system, new percolation ponds with geoweb, new emergency overflow pond, septage holding pond, new mixing channel and distribution box, new back up generator, and SCADA upgrades. Also, installing piping for raw wasterwater, sewer, sludge, secondary effluent, chemical feed and utility water. Pipe sizes range from 2"-30".	$13,227,284.00	$13,535,319.00	Mar-21	August-21	WWTP	Sean Harns / Francisco Alvarez
1916	Water Reclamation Plant Phase 4 Expansion	Corona, CA	Temescal Valley Water District - Jeff Pape (951) 667-6323 jeff@temescalvwd.com	Dexter Wilson Engineering - Steve Nielson (760) 438-4422 jeff@temescalvwd.com	Murow Development Consultants - Bryon Barker (949) 689-9252 bbarker@murowdc.com	Major expansion to increase the plant capacity from 1.575 MGD to 2.25 MGD. Construction includes new tankage, new process equipment procurement and installation, electrical, site piping, precise grading, drainage, and asphalt paving improvements. The major improvements to the plant include the addition of primary sedimentation tanks, three new sequencing batch reactors, two new filters, waste activated sludge thickening, new aerobic digesters, and removal of existing grit facilities.	$16,444,500.00	$16,591,902.00	Apr-21	October-21	WWTP	Bob Owens / Jonathan Hilburn

Pacific Hydrotech Project Resume

1906	Plant 10 Water Reclamation Plant Secondary Effluent Pump Station and Ponds	Palm Desert, CA	Coachella Valley Water District - Diego Colorado (760) 398-2661 diego.colorado@cvwd.org	Stantec - Christopher Mote (626) 568-6042 christopher.mote@stantec.com	Coachella Valley Water District - Diego Colorado (760) 398-2661 diego.colorado@cvwd.org	Project consists of installation of new pipeline ranging 10" to 30" in (9) existing percolation ponds and (5) effluent storage ponds with associated inlet / outlet structures, pipelines, construction of new pump station and electrical masonry building.	$25,450,400.00	$27,552,272.00	Dec-20	November-21	Lift Station / WWTP	Kyle Brenner / James Rouse
1827	North Shore WRP No. 2	Coachella, CA	Coachella Valley Water District - Nasrin Maleki (760) 398-2661 nmaleki@cvwd.org	Lee / Ro - Jay Jung 626-667-5342 jay.jung@lee-ro.com	Coachella Valley Water District - Nasrin Maleki (760) 398-2661 nmaleki@cvwd.org	Removal and replacement of liner, site grading, replacement and installation of submersible pumps, site modifications.		$2,352,164.00		September-19	WWTP	Greg Chehey / Dustin Chehey
1825	Water Reclamation Plants No. 4, 7 and 10 Chemical Systems Upgrades	Coachella, CA	Coachella Valley Water District - Jignesh Ladhawala (760) 398-2661 jladhawala@cvwd.org	Krieger / Stewart - Phil Strom 951-684-6900 pstrom@kriegarandstewart.com	Coachella Valley Water District - Jignesh Ladhawala (760) 398-2661 jladhawala@cvwd.org	Major upgrades to 3 existing wastewater treatment plants including installation of one-ton emergency chlorine gas scrubber systems, emergency chloring gas ton-container shutoff systems, fire protection system with aerosol fire-extinguising system. New video surveillance system with PTZ cameras and building access control system. New ventilation system roof access exhaust fans, roof gravity ventilators and louvers. Outdoor motor control center, programmable logic controller and sunshade structure. Manual winch for davit crane at existing chlorine gas and sulfur dioxide induction units. Installation of new high capacity potable water pump station, including horizontal end suction pumping units, piping, valves, flow meter and connextion to above grade storage tank.	$11,055,600.00	$11,578,417.00	Jun-21	September-21	WWTP	Greg Chehey / Dustin Chehey
1717	Digester 1 Rehabilitation	Calabasas, CA	Las Virgenes Municipal Water District - Coleman Olinger (818) 251-2163 colinger@lvmwd.com	Pace Advanced Water Engineering - Robert Murphy (714) 481-7226 rmurphy@pacewater.com	Pace Advanced Water Engineering - Robert Murphy (714) 481-7226 rmurphy@pacewater.com	Removed existing piping inside and outside of digester and replacement with new piping	$1,272,240.00	$1,278,240.00	Mar-18	August-18	WWTP	Dale McKay / Kyle Brenner
1713	Raw Sludge Wet Well	Calabasas, CA	Las Virgenes Municipal Water District - Coleman Olinger (818) 251-2163 colinger@lvmwd.com	Pacific Advanced Civil Engineering - Thomas Mihara (714) 514-8825 tmihara@pacewater.com	Las Virgenes Municipal Water District - Coleman Olinger (818) 251-2163 colinger@lvmwd.com	Demo of existing pumps, piping, and appurtenances. Installation of one 20 HP progressive cavity pump, in-line grinder, electric actuated valves, electromagnetic flowmeters, other misc. valves and glass lined ductile iron pipe and fittings, and associated electrical work. Piping and valve sizes were 8" and smaller.	$355,900.00	$355,950.00	Oct-17	March-18	WWTP	Jonathan Hilburn / Krista Avila
1618	Regional Treatment Plant misc. Improvements	Laguna Niguel, CA	Socwa - Brian Peck - bpeck@socwa.com 949-234-5411	Tetra Tech - Thomas Epperson 949-809-5000	Butier - Mark Brunenieks (949) 309-8215 mbrunenieks@butier.com	Miscellaneous improvements to existing waterwater treatment plant including rehabilitation of sewer / manhole. Replacements of slide gates at influent junction structure and stop / weir gates at grit tanks. Removal of deteriorated portions of the existing digester roof coatings on all four (4) existing anaerobic digesters and installation of new coatings on the roofs of each of the existing digesters. Replacement of water quality instrumentation in the Advanced Water Treatment (AWT) No. 2 facilitation involving existing chlorine residual analyzers / controllers and appurtenances, turbidity meters and controllers.	$1,451,200.00	$1,499,441.00	Sep-17	February-18	WWTP	Sean Harris / Francisco Alvarez
1614	CVWD WRP 7 Clarifier and Filter Improvements	Indio, CA	Coachella Valley Water District - Jignesh Ladhawala (760) 398-2661 jladhawala@cvwd.org	Krieger / Stewart - Phil Strom 951-684-6900 pstrom@kriegarandstewart.com	Coachella Valley Water District - Jignesh Ladhawala (760) 398-2661 jladhawala@cvwd.org	Removal and Replacement of (2) secondary clarifier mechanisms and modifications to (3) existing tertiary filters and (1) tertiary filter effluent channel. Replacement of air piping of existing system. Installed clarifiers treatment of 2.5 MGD.	$2,210,170.00	$2,303,579.00	Jan-18	May-18	WWTP	Dale McKay / Heath Chehey
1607	Plant 7 Biosolids Upgrades	Indio, CA	Coachella Valley Water District - Diego Colorado (760) 398-2661 diego.colorado@cvwd.org	Dudek - Paul Wilson (760) 479-4151 pwilson@dudek.com	Dudek - Paul Wilson (760) 479-4151 pwilson@dudek.com	Modification to existing waste activated sludge pumping facility by removing the existing piping and installing new 2-16" piping to the new Biosolids processing facility. Revision of scum piping by installing a new piping from existing scum collection pit to new Biosolids processing facility. Construction of new Biosolids Processing Facility capable of processing the slude wasted from the existing water reclamation facility. New submersible pumps installed with 1760 RPM, 540 GPM. Jet aeration system and odor control blowers. Sludge dewatering, gravity thickener, conveyors.	$12,107,601.00	$12,842,821.00	Jan-18	September-19	WWTP	Dale McKay / Heath Chehey
1514	South Bay International WWTP	San Ysidro, CA	International Boundary / Water Commision - Laura Baker - laura.baker@ibwc.gov 915-832-4119	URS Corporation - Paul Rydzynski - paul.rydzynski@urs.com 619-428-2383	Arcadis - Arnold Wingler - arnold.wingler@arcadis.com 760-602-3805	Construction of new equalization basin and 3 new secondary sedimentation tanks including misc. Replacement of air piping of existing system. Piping and electrical building addition. Installation of (6) submersible pumps with 1160 RPM, capacity of 3000GPM each.	$15,756,800.00	$18,188,712.00	Jul-17	April-18	WWTP	Bob Owens / Jonathan Hilburn
1510	Imperial Wasterwater Treatment Plant Headworks Upgrade	Imperial, CA	City of Imperial - Debra Jackson (760) 355-4371 djackson@imperial.ca.gov	The Holt Group - Jury Marmolejo (760) 337-3883 jmarmolejo@theholtgroup.com	Albert A. Webb / Associates - Reed Chilton .(951) 320-6031 reed.chilton@webbassociates.com	Headworks system upgrades at the Imperial wastewater treatment plant	$1,301,000.00	$1,308,800.00	Jun-16	June-16	WWTP	
1507	Holtville Wastewater Treatment Plant	Holtville, CA	City of Holtville - Nicholas Wells - 760-356-4574 - nwells@holtville.ca.gov	Lee / Ro - Rick Liskow - 626-912-3391 - rick.liskow@lee-ro.com	HDR Engineering - Dave Bachtel (951) 320-7322 david.bachtel@hdrinc.com	Major improvements to existing facility include construction of a new secondary clarifier aeration basin, drying beds , new operations building, and retrofitting of existing primary clarifier. New major water treatment equipment installations include headworks system (2.0MGD), aeration blowers (54SCFM), polymer, as well as underground and above ground piping (PVC, Stainless Steel, Ductile Iron and Copper). Installation of chopper, centrifugal and submersible pumps	$11,733,600.00	$12,238,163.66	Oct-16	June-17	WWTP	Greg Chehey / Robert Bocalan

Pacific Hydrotech Project Resume

1502	Regional Treatment Plant Cogen and Switchgear Upgrade	Laguna Niguel, CA	Socwa - Brian Peck - bpeck@socwa.com 949-234-5411	Carollo Engineers - Jeff Weishaar - jweishaar@carollo.com	Butier Engineering - Casey Harris - charris@butier.com 714-832-7222	This project consisted of demolition of the following: portions of Digester Control Building and piping and related accessories to be abandoned. The project included the procurement and installation of a complex Cogeneration Engine Generator. The generator's fuel was a blend of natural gas and clean digester gas. The project included the installation of a digester gas cleaning system with H2S and Siloxane treatment. The project included piping ranging from 4 inch to 12 inch. Materials were black steel pipe, ductile iron, and stainless steel. The project included rmultiple electrical switchgears, PLC's, and other SCADA related equipment. A hot water boiler was also installed to provide heat to the digester heat exchangers. Multiple small horsepower pumps were installed to support the hot water boiler and the heat exchange equipment of the cogeneration engine generator. HVAC equipment was also installed to maintain the electrical rooms to specified temperatures. The project also included the Recoating of an existing Digester. A new steel curtain wall was installed prior to cleaning and recoating with solids epoxy coating system.	$8,925,217.00	$9,404,301.00	Jul-16	January-18	WWTP	Sean Harris / Francisco Alvarez
1414	Wastewater Treatment Plant Headworks Expansion	Cabazon, CA	Morongo Band of Mission Indians - John Covington	Albert A. Webb and Associates - Shane Bloomingfield 951-248-4293	Albert A. Webb and Associates - Shane Bloomingfield 951-248-4293	Construction of a new reinforced concrete headworks structure and the installation of owner supplied screens, washpactor, grit separator and grit classifier with piping, valving, and associated mechanical equipment; installation of new SCADA equipment, general site work, and electrical work. demolition and legal disposal of exisisting headwords structure and equipment, construction of new sludge drying beds to match existing beds with associated piping. Capacity of new facility 2.35MGD		$698,035.00		April-16	WWTP	

Agenda Item 7.A.

Board of Directors Meeting
Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

STAFF CONTACT: Dina Ash, Human Resources Administrator

SUBJECT: Resolution No. 2025-15, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting the position change for the Administration department and Employee Salary Ranges Updated Exhibit "B" Salary Schedule and Exhibit "C" Organization Chart for January 2026.

Discussion/Analysis

Having a Lead Operator at the Coastal Treatment Plant would play a crucial role as being the point of contact between the plant operators and management. With the retirement of the Clerk of the Board, certain responsibilities will be turned over to the Assistant Clerk.

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 Lead Operator and Assistant Clerk's compensation for compliance with PERS.

Recommended Action: Staff recommends that the Board of Directors approve Resolution No. 2025-15, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Adopting the position of Lead Operator and Assistant Clerk and Revised Employee Salary Ranges updated Exhibit "B" Salary Schedule and Exhibit "C" Organization Chart for January 2026.

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 (Lead Operator and Assistant Clerk)
4. Resolution No. 2025-15 Adopting Position for SOCWA's Job Classifications

EXHIBIT "B"

Revised 12/2025

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 Range	Minimum Hourly Salary	Maximum Hourly Salary	Minimum Monthly Salary	Maximum Monthly Salary
Operations					
Lead Operator	43.5	$ 54.35	$ 69.35	$ 9,420.67	$ 12,020.67
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
Maintenance					
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
Support Services					
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
Laboratory Services					
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 Range	Minimum Hourly Salary	Maximum Hourly Salary	Minimum Monthly Salary	Maximum Monthly Salary
Operations					
Assistant Chief Operator	44	$ 55.68	$ 71.04	$ 9,651.20	$ 12,313.60
Maintenance					
Maintenance Mechanic Supervisor	44	$ 55.68	$ 71.04	$ 9,651.20	$ 12,313.60
Environmental Compliance					
Source Control Manager	48	$ 67.66	$ 86.38	$ 11,727.73	$ 14,972.53
Administration					
Executive Assistant	46	$ 61.37	$ 78.32	$ 10,637.47	$ 13,575.47
Clerk of the Board					
Assistant Clerk	36	$ 37.67	$ 48.08	$ 6,529.47	$ 8,333.87
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 Range	Minimum Hourly Salary	Maximum Hourly Salary	Minimum Monthly Salary	Maximum Monthly Salary
Operations / Safety / Maintenance					
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
Support Services					
Support Services Manager	50	$ 74.60	$ 95.21	$ 12,930.67	$ 16,503.07
Environmental Compliance / Laboratory Services					
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
Administration Division					
Human Resource Adminstrator	49	$ 71.04	$ 90.68	$ 12,313.60	$ 15,717.87

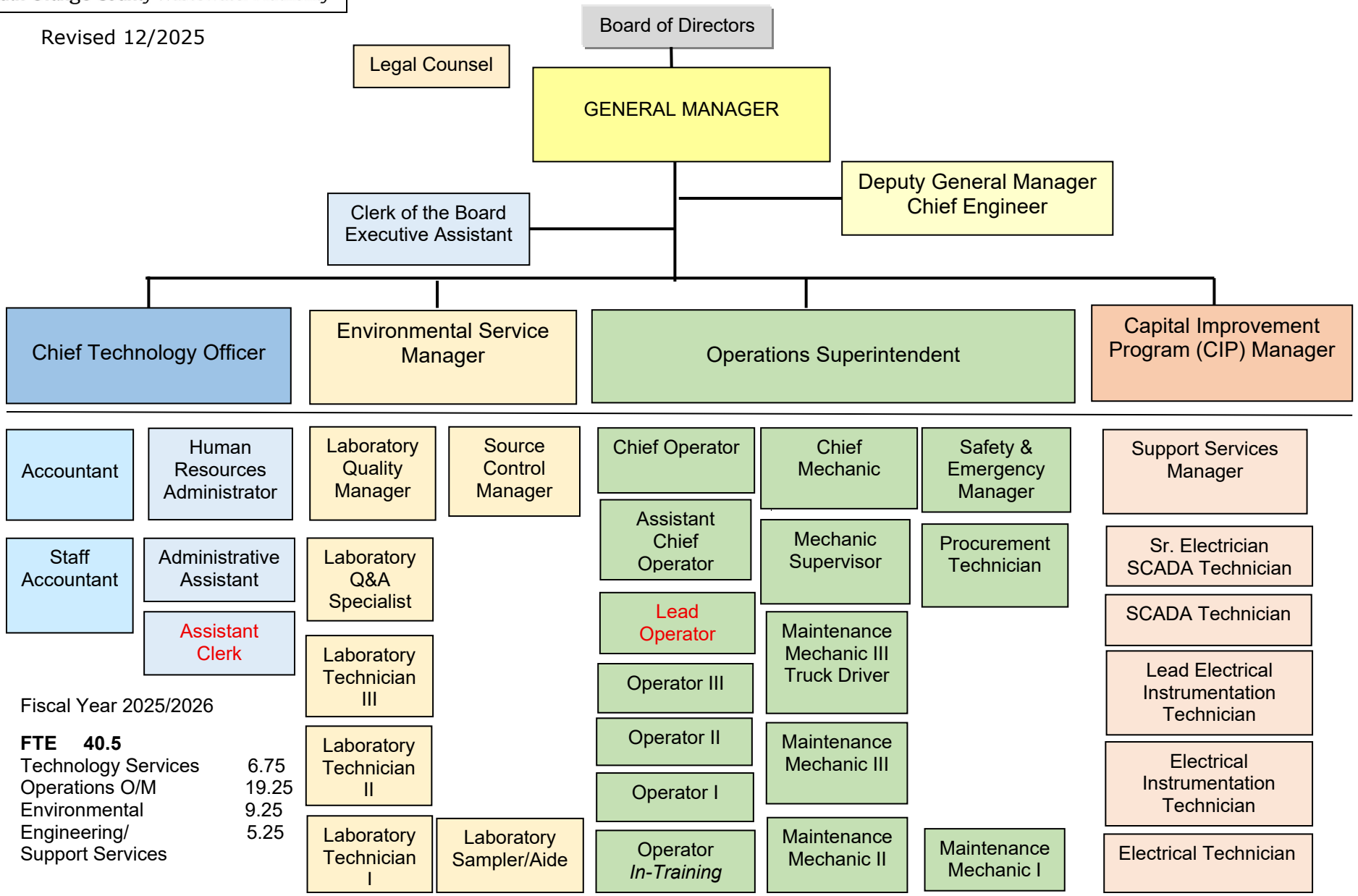
Management Classifications

Classification	Salary Range	Minimum Hourly Salary	Maximum Hourly Salary	Minimum Monthly Salary	Maximum Monthly Salary
Executive Management Division					
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 Service Manager	52	$ 82.28	$ 104.98	$ 14,261.87	$ 18,196.53

South Orange County Wastewater Authority

EXHIBIT C

Revised 12/2025



Fiscal Year 2025/2026

FTE	**40.5**
Technology Services	6.75
Operations O/M	19.25
Environmental	9.25
Engineering/ Support Services	5.25

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
CLASSIFICATION STATEMENT

TITLE: Lead Operator
DIVISION: Operations

SALARY RANGE: Range 43.5
$54.35 - $69.35
$9,420.67 - $12,020.67

DEFINITION:
Under general supervision, the Lead Operator performs skilled work to operate, maintain, install and repair any related equipment for the Agencies. The Lead Operator position has more experience and knowledge than other Operators. This position works within a framework of established procedures and is expected to perform a full range of duties with only occasional instruction or assistance.

DISTINGUISHING CHARACTERISTICS:
The Leas Operator position reports directly to the Operations Superintendent. Must be able to assume on-shift responsibility for facility operations and for directing operators in safe and efficient operation of wastewater treatment plant in order to meet all N.P.D.E.S. discharge requirements.

SUPERVISON EXERCISED: Supervises the Operator (III, II, I) positions.

SENIOR OPERATOR SPECIAL DUTIES AND RESPONSIBILITIES: ***The following are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.***

- Attending Engineering and Construction meetings
- Participation in regulatory personnel inspections
- Tour the plant with Vendors, Perform Bid Walks and Coordinate work with Contractors.
- Work with Operations Superintendent giving feedback on Performance Reviews
- Fill in for the Chief Operator when they are not available (day off, vacation, sick, etc.).
- Actively participate in the business functions for operation and maintenance of the treatment works (budgeting, staffing, regulatory compliance, training, goal setting, research, opination, etc.).
- Computer programs including Word, Excel, WIMS, ADP Tabware and Purchasing programs.

EXAMPLE OF ESSENTIAL DUTIES AND RESPONSIBILITIES: ***The following are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.***

- Be able to perform the essential duties identified for WWTP Operator Grades I through V identified by the State of California.
- Taking responsibility for all services and activities associated with operating, maintaining and repairing a WWTP.
- Directing subordinate staff to ensure high performance in a customer-service-oriented work environment that supports the achievement of SOCWA's desired goals and objectives.
- Coordinating with other utilities, agencies, and private organizations to address complex or non-routine issues.
- Evaluating wastewater treatment system performance, including staffing levels, operations

strategies, energy efficiency, and material costs.
- Planning, directing, coordinating, prioritizing, and reviewing treatment system projects.
- Selecting, motivating and evaluating personnel; working with employees to achieve their best performance.
- Supporting the work of contractors, consultants, and engineers within the Plants.
- Supporting operation of various wastewater treatment processes to maintain operational reliability and high efficiency in compliance with federal and state regulations.
- Supporting and directing the execution of shutdown, startup, and complex or non-routine treatment process changes, as well as troubleshooting.
- Supporting the development of operating guidelines and Standard Operating Procedures (SOPs).
- Supporting the implementation of the training of assigned employees in their areas of wastewater treatment work.
- Supporting the administration of programs, policies and procedures to ensure the safe and efficient operation of the wastewater treatment system.
- Attending and participating in professional group meetings; staying abreast of new trends and innovations in the field of wastewater treatment operation and maintenance; ensuring the availability of opportunities for all staff to participate in professional development.
- Responding to difficult and sensitive public inquiries in a courteous manner and developing formal reports when the CPO is absent.
- Responding to accident and incident investigations.
- Consistent and regular on-site attendance is required

MINIMUM TRAINING AND EXPERIENCE REQUIRED TO PERFORM ESSENTIAL FUNCTIONS:

- Thorough knowledge of the operation and routine preventive maintenance of modern primary, secondary, solids management, and advanced wastewater treatment principles and practices. Safety practices, codes, regulations, and procedures as they apply to wastewater treatment facilities, chemical handling, gas management systems.
- Must have thorough knowledge of applicable public health and governmental regulations, wastewater sampling and standard process operation of a wastewater treatment system.
- General knowledge is required of equipment used in wastewater treatment processes, such as pumps, motors, valves, filters, engines, meters, blowers and compressors.
- Minimum of two years' experience as a wastewater treatment plant operator
- Possession of a valid Grade IV Certificate or higher, issued by the State Water Resources Control Board. Experience in the operation of a wastewater treatment plant, which clearly demonstrates possession of the knowledge and skills stated above.
- Computer skills.
- This position requires high school diploma or equivalent.
- Must possess a valid California, Class C driver's license in good standing.

OTHER DESIRED EXPERIENCE:

- Graduation from a college or university with an associate of arts degree. A baccalaureate degree in science, engineering, or business administration is desirable.
- Participation in industry organizations related to wastewater activities.

PHYSICAL AND MENTAL ABILITIES REQUIRED TO PERFORM ESSENTIAL FUNCTIONS:

Language Ability and Interpersonal Communication:

- Ability to analyze and categorize data and information in order 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, and ratios.

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 wear and operate SCBA and related respiratory protection equipment.
- 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, working in tanks and/or confined spaces.
- Ability to be subject to 24-hour recall, variable working hours, 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.

ASSISTANT CLERK

RANGE 36 Non- Exempt
Date: December 2025

DEFINITION:

Administrative Assistant/Assistant Clerk performs a variety of specialized administrative and office support. Duties include frequent interaction with the individual members of the Board of Directors for the scheduling of meetings, noticing of meetings, preparation of agendas and materials, and functions required for the Joint Powers Authority as detailed below. Frequent interactions expected to member agency staff who may be responsible for providing Board meeting and documentation coordination.

Requires thorough knowledge of the terminology, procedures, and practices for their functional areas, with a significant degree of independence and accountability for results.

SUPERVISON EXERCISED:

This position reports to the Chief Technology Officer and provides assistance to the Board of Directors, General Manager, and all Department Executives.

EXAMPLE 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 statements of duties does not exclude them from the position if the work is similar, related or a logical assignment to this class.

Front Desk Role.

- Greet and direct public, answer telephone and direct calls.
- Prepare in and outgoing mail. Deliver mail to recipients.
- Monitor calendar for room meetings and preparation for meetings.
- Schedule travel/seminar itineraries

Administration Support.

- Ability to operate a variety of office equipment such as computer, telephone, fax machine, calculator, computer printer and photocopier.
- Perform administrative support functions as directed for all Department Executives
- Maintain various filing systems.
- Prepare spreadsheets, reports, documents, and databases as directed.
- Create Order Requisitions for office supplies and equipment.

Clerk Duties.

- Maintain a master calendar of Board and Committee meetings, coordinating meetings between other agencies, businesses and consultants for Board and GM functions as requested.
- Schedule notice and attend Board of Directors, Project Committee and Executive Committee meetings for Joint Powers Authority as assigned.
- Take and transcribe minutes.
- Maintain all official records of the Board/Authority such as minutes, resolutions, policies, and legal notices.

- Prepare necessary material for Board meetings and Public Hearings.
- Prepare and coordinate distribution of agendas and minutes and include the reports assigned in meeting packets of all Board meetings and assigned Project Committee meetings.
- Schedule Special Board, Board of Directors, Ad Hoc and assigned Project Committee meetings. This work may involve contact with SOCWA personnel, SOCWA counsel and SOCWA consultants.
- Meeting preparation and documentation for assigned meetings, to include agendas, notices, web-site postings and onsite postings (front gate box posting), follow-up record preparation such as minutes, filing, completion of documents and distribution tasks.
- Meeting follow-up, including gathering of board level signatures on required documentation and/or preparation of final documentation for assigned meetings, such as board level resolutions, board approved policies, etc.
- Post-meeting management of permanent records within the SOCWA Managed Drive or hard files records for JPA level documents or agreements.
- Prepare Excel Spreadsheets, PowerPoint presentations, other reports, memoranda, or visual materials.
- Coordinate compliance with SOCWA Document Retention Policy for onsite and off-site filing.
- Receive and respond to Public records Act requests.
- Set up for assigned meetings, including audio visual set up, preparation and management of sign-in sheets, copied materials and speaker information.
- Maintain official records of the Board/Authority such as final minutes, resolutions, adopted policies and filed legal notices.
- Participate in assigned research and/or training and retain current knowledge of agency administration requirements through attendance at CSDA and other training requirements for assigned meetings.
- Retain current knowledge of and comply with Brown Act Notice and filing requirements for assigned meetings.
- Consistent and regular on-site attendance is required

TRAINING AND EXPERIENCE REQUIRED TO PERFORM ESSENTIAL FUNCTIONS:

Any combination of experience and training that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

- Consistent and regular on-site attendance is required
- Graduation from High School or its equivalent.
- Must posses a valid California, Class C, driver's license in good standing and be insurable under SOCWA's insurance policy.
- Graduation from a college or university with an Associate of Arts degree or Baccalaureate degree in Business Administration or equivalent is desirable.
- Minimum five (5) years of any combination of education and/or experience that has provided the knowledge, skills, and abilities necessary for acceptable job performance.
    - Example: combinations include equivalent to graduation from high school supplemented by college level courses in management, secretarial and/or office management.

- Experience with standard public agency office administrative and secretarial practices and procedures, including business letter writing and the operation of standard office equipment;

basic functions and organization of local governments; recordkeeping, report preparation and filing methods; correct English usage, including spelling and grammar.
- Experience working with elected and/or appointed officials.

OTHER SPECIAL REQUIREMENTS:

Knowledge of office administration practices and procedures; principles and practices of sound business communication; correct English usage, including spelling, grammar, and punctuation.

- Be organized, set priorities, take initiative and exercise sound independent judgment within areas of responsibility.
- Ability to communicate effectively orally and in writing.
- Ability to analyze data, compare, count, differentiate, measure, copy, record and transcribe date and information, tabulate and categorize data.

PHYSICAL AND MENTAL ABILITIES REQUIRED TO PERFORM ESSENTIAL FUNCTIONS:

Language Ability and Interpersonal Communication
- Ability to analyze data and information using established criteria, to determine consequences and to identify and select alternatives. Ability to compare, count, differentiate measure, copy record and transcribe date and information. Ability to classify, compute, tabulate and categorize data.
- Ability to persuade, convince and train others. Ability to advise and provide interpretations regarding the application of polices procedures and standards to specific situations.
- Ability to utilize a variety of advisory data and information such as safety regulations, training materials, legislation/regulations, purchase orders, budgets, investment guidelines, financial statements, planning documents, meeting agendas and minutes, State statures, procedures and non-routine correspondence.
- Ability to communicate effectively orally and in writing with Agency personnel, consultants, vendors and other Agency personnel.

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 sensory and/or judgmental criteria.

Physical Requirements
- Ability to operate a variety of office equipment such as computer terminal, telephone, fax machine, calculator/adding machine, computer printer and photocopier.
- Ability to coordinate eyes, hands, feet and limb in performing movements requiring moderate skill, such as typing.
- Ability to exert light physical effort in sedentary to light work, but which may involve some lifting of heavy objects in excess of 25 pounds, carrying, pushing or gulling.
- Ability to recognize and identify individual characteristics of shapes and sounds associated with job-related objects, materials and tasks.

Environmental Adaptability
Tasks are regularly performed without exposure to adverse environmental conditions.

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. 2025-15

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY APPROVING THE POSITION OF A LEAD OPERATOR FOR THE OPERATIONS DEPARTMENT, ASSISTANT CLERK FOR THE ADMINISTRATION 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 adding the position of Lead Operator and Assistant Clerk to SOCWA's Job Classifications.

WHEREAS, the Board recognizes the importance of establishing a cohesive and effectively structured 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 Lead Operator and Assistant Clerk: (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. 2025-15 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 the11th day of December 2025.

_____
Frank Ury, Chairman

(Seal)

_____
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. 2025-15 was duly adopted by the SOCWA Board of Directors at their Board Meeting held on December 11, 2025, and that it was so adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dated: December 11, 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. 2025-15 of said Board and that the same has not been amended or repealed.

Dated: December 11, 2025

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

(Seal)

Agenda Item 7.B.

Budgeted: N/A
Legal Counsel Review: Yes
Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, SOCWA General Manager

SUBJECT: SOCWA Policy Handbook

Summary

On November 13, 2024, SOCWA Executive Committee met and provided direction to update the SOCWA policies. SOCWA staff reviewed the SOCWA policies, compared to Member Agency policies, and provided updates to legal counsel for review. Where appropriate, SOCWA staff removed procedures from policies for a future update to an administrative manual for the agency. On April 8, 2025, the SOCWA Executive Committee met to review the SOCWA Policy Handbook. The Executive Committee recommended that the SOCWA Finance Committee review the SOCWA Policies that have a financial impact on the organizational standard business practices. Underlined policies in the discussion below are policies that the SOCWA Finance Committee reviewed with summaries of changes included in the staff report.

Discussion:

The following list represents the policies included in the draft Policy Handbook:

1. Artificial Intelligence
2. Capitalization and Depreciation of Facilities & Equipment
3. CEQA Compliance
4. Conflict of Interest Code
5. Cost Allocation Policy
6. Disposal of Surplus Property
7. Document Management
8. External Auditor Policy
9. Fraud Prevention and Reporting
10. Government Claims Act Policy
11. Interim Dry Weather Nuisance Flow
12. Investment Policy for Public Funds
13. Public Records Disclosure
14. Travel and Expense Reimbursement
15. Uniform Purchasing Policy
16. Vehicle Charging Policy

Included in this staff report is a list of SOCWA policies and a summary of the changes in the policies presented in a draft policy handbook.

1. Artificial Intelligence

Board adopted in October 2024. Added training requirement related to requirements completed with labor which was previously adopted by the Board in the MOU Labor Agreement in June 2025.

2. Capitalization and Depreciation of Facilities & Equipment

Added sections for Technology Assets, Intangible Assets, Asset Tracking, and Disposition while maintaining the $5,000 capitalization threshold. Incorporated GASB compliance references (34, 42, 51) and California Government Code citations relevant to JPAs. Enhanced asset safeguarding language and added a five-year policy review recommendation.

3. CEQA Compliance

Transformed technical procedures into a formal board policy emphasizing governance and oversight roles. Streamlined language while maintaining compliance elements including greenhouse gas analysis and tribal cultural resources. Clearly defined Board and Staff responsibilities for environmental review processes.

4. Conflict of Interest Code

Formalized comprehensive policy with clear purpose statements, disclosure categories, and filing requirements. Added training provisions, enforcement information, and established a regular review cycle. Created a professional format with placeholders for policy number, adoption date, and signatures.

5. Cost Allocation

New policy for the Authority establishing policy directive for budgeting and use audit reconciliation in a single policy. Articulation of participating agencies, contract agencies, and how the Authority tracks/manages costs in a detailed manner to avoid ambiguity in cost management. Inclusion of historical practices and summaries of methods included.

6. Disposal of Surplus Property

Increased General Manager's approval threshold from $25,000 to $50,000. Added dedicated procedures for technology equipment with data security requirements and environmental compliance provisions. Enhanced documentation requirements and added annual reporting to the Board.

7. Document Management

Updated to include cloud storage security requirements and digital signature protocols. Added comprehensive email management section with classification and retention guidelines. Enhanced definition of electronic records to include current technologies. Added specific provisions for permanent records in compliance with Government Code Section 60201(d).

8. External Auditor Policy

Maintained multiyear agreement provisions and six-year partner limit with Government Code citation. Preserved internal control deficiency correction timeframe. Updated RFP criteria for competitive selection.

9. Fraud Prevention and Reporting

Updated gender-specific pronouns to gender-neutral language and increased FPPC gift limit to $590. Enhanced whistleblower protections with references to California Labor Code Section 1102.5. Improved formatting and fixed numbering inconsistencies.

10. Government Claims Act Policy

Enhanced policy structure with improved numbering and expanded definitions. Added clear delegation of authority and policy review procedures. Redesigned claim form with improved fields and instructions.

11. Interim Dry Weather Nuisance Flow

The policy has been updated to remove references to former member agencies (Moulton Niguel Water District, Irvine Ranch Water District, City of San Juan Capistrano, and Trabuco Canyon Water District) while retaining current SOCWA members. It clarifies the definition of non-stormwater discharge and adds "dust control overwetting" as an example of such discharge.

12. Investment Policy for Public Funds

Added California Asset Management Program, U.S. Government Agency Securities, and Money Market Mutual Funds to authorized investments. Increased LAIF maximum deposit limit from $40 million to $75 million. Enhanced regulatory compliance sections and strengthened delegation of authority.

13. Public Records Disclosure

Clarified definition of public records and streamlined request process. Updated exemptions, security provisions, and copy service pricing. Improved formatting for better readability.

14. Travel and Expense Reimbursement

Increased allowable maximums to reflect current costs and reasonable travel allowances as overseen by the Department Head and General Manager. Added provisions for technology reimbursement and rideshare services. Referenced California Government Code and Public Records Act for compliance.

15. Uniform Purchasing Policy

Board approved December 2024 with formatting changed to be consistent with all policies. No content was modified in the policy.

16. Vehicle Charging Policy

New policy for the agency related to current and future vehicle charging. South Coast Water District provided a copy of their policy, as discussed at the 11/18/25 Finance Committee meeting and staff included those updates into the policy.

Recommended Action: Board Discussion, Direction and Action

Attachments: 1. Policy Handbook
2. Resolution 2025-17 Updated SOCWA Policy Handbook

RESOLUTION NO. 2025-16

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY APPROVING THE UPDATED SOCWA POLICY HANDBOOK

WHEREAS, the South Orange County Wastewater Authority (SOCWA) is a joint powers authority formed pursuant to the California Government Code Section 6500 et seq., and operates under the governance of its Board of Directors; and

WHEREAS, on November 13, 2024, the SOCWA Executive Committee provided direction to update the SOCWA policies to ensure alignment with current best practices, Member Agency policies, and legal requirements; and

WHEREAS, SOCWA staff reviewed the existing policies, compared them to Member Agency policies, and provided updates to legal counsel for review, removing procedures where appropriate for inclusion in a future administrative manual; and

WHEREAS, the updated Policy Handbook has been reviewed by legal counsel and is recommended for adoption to promote efficient, compliant, and effective operations of SOCWA; and

WHEREAS, the Board of Directors has considered the staff report, and public input, if any, and finds that adoption of the updated Policy Handbook is in the best interest of SOCWA and its Member Agencies.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the South Orange County Wastewater Authority as follows:

1. The updated SOCWA Policy Handbook, incorporated herein by reference, is hereby approved and adopted.

2. The General Manager is authorized and directed to implement the policies contained therein, including any necessary administrative procedures.

3. All prior policies inconsistent with the updated Policy Handbook are hereby repealed or superseded to the extent of such inconsistency.

4. This Resolution shall take effect immediately upon its adoption.

ADOPTED this 11th day of December, 2025, by the Board of Directors of the South Orange County Wastewater Authority.

_____

Frank Ury, Chairman

(Seal)

_____

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. 2025-16 was duly adopted by the SOCWA Board of Directors at their Board Meeting held on the 11th day of December 2025 and that it was so adopted by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Dated: December 11, 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. 2025-16 of said Board and that the same has not been amended or repealed.

Dated: December 11, 2025

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

(Seal)

Agenda Item 7.C.

Legal Counsel Review: Yes

Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, General Manager

SUBJECT: Annual Financial Audit Update

Summary

SOCWA staff and outside consultants are working to close the annual financial audit for the Authority. In the past, SOCWA management has presented to the Finance Committee the draft audit for recommendation from the Finance Committee to the SOCWA Board. SOCWA staff reexamined the requirements in the SOCWA JPA (Section X) which requires the General Manager to provide the audited financials to the SOCWA Member Agencies, State Controller, and the Orange County Auditor by December 31st each year. SOCWA staff will provide the status of the Audit for review and discussion by the Finance Committee, to continue to streamline administrative activities that better align with the SOCWA Board's direction.

Background

The SOCWA JPA requires the following based on Section X. of the JPA:

> **X. ACCOUNTING AND AUDITS**
>
> 10.1 Accounting Procedures. Full books and accounts shall be maintained for the Authority in accordance with practices established by, or consistent with those utilized by, the Controller of the State of California for special districts, or for other public entities as specified by the Act. The Authority's Auditor and Treasurer shall comply strictly with requirements of the Act governing joint powers agencies relative to such matters.
>
> 10.2 Audit. In accordance with Section 6505 of the Act, the records and accounts of the Authority shall be audited annually by an independent certified public accountant and copies of such other reports shall be filed with the State Controller, Orange County Auditor and each Member Agency within six (6) months of the end of the Fiscal Year under examination. Copies shall also be provided to persons or entities so requesting as required by the Act.

SOCWA staff plan on working with the Audit team (the Pun Group) to complete and file the audit as required by the JPA by the term set forth in the governing statute. The audit will be brought to the Board for receipt and filing for compliance with the JPA.

SOCWA Efficiency Improvements

SOCWA staff and the outside consultant have been working to better organize, thereby streamlining the internal financial procedures. Listed below are tasks that the Authority is working in alignment with the administrative efficiencies direction.

- Moving GASB 87/96 (leases and subscriptions) to the Authority's fixed assets software instead of handing them in separate worksheets.
    - Outcome: This move solves the administrative challenge of manual tracking, and error-prone spreadsheet management by integrating GASB 87/96 data into the fixed assets software, resulting in automated calculations, enhanced compliance, and streamlined audit processes.
- Moving PC 23 assets on to the Authority's fixed asset software and on the Authority's books instead of having to add them to the General Ledge (GL) Trial balance from separate worksheets.
    - Outcome: This move solves the administrative challenge of manual additions and reconciliation errors in the GL trial balance by integrating PC 23 assets directly into the fixed asset software and the Authority's books, resulting in automated tracking, improved financial accuracy, and simplified period-end processes.
- Changing some of the work flows for the Use Audit so that only data which is truly meaningful is allocated. This means not allocating items such as Deferred Inflows, Deferred Outflows, GASB 68 Pension Expense/Net Pension Liability, GASB 75 OPEB Expense/Liability, etc. Before making changes the possible impact on member agencies had to be analyzed. Allocations take a lot of effort and staff are looking to allocate only those items absolutely necessary.
    - Outcome: This change solves the administrative challenge of excessive effort and inefficiency focus solely on truly meaningful data optimizing resource allocation, and more relevant financial distributions.

An oral update on the status of the audit will be provided at the meeting.

Recommended Action: Board Discussion, Direction, or Action

Attachment: Legal Compliance Memo

SNELL
& WILMER

Memorandum

VIA E-MAIL

TO: South Orange County Wastewater Authority

FROM: Adriana Ochoa, Legal Counsel

DATE: December 2, 2025

RE: SOCWA JPA Legal Review Regarding JPA Audit Procedures

SOCWA is governed by the Joint Powers Act, Government Code §§ 6500 *et seq*. Government Code § 6505 states that a Joint Powers Agreement (JPA) must provide for "strict accountability" of all funds and report of all receipts and disbursements. Additionally, the JPA must designate an auditor or controller, and that person must either make or contract with a certified public accountant or public accountant to make an annual audit of the accounts and records of the agency. In each case the minimum requirements of the audit shall be those prescribed by the Controller for special districts and must conform to generally accepted auditing standards.

Under Government Code § 6505(c), when an audit is performed by a certified public accountant or public accountant, the report must be filed as a public record with each of the SOCWA Member Agencies, with the Orange County Auditor, and it must be sent to anyone in California that submits a written request to SOCWA. The report must be filed within 12 months of the end of the fiscal year.[1]

Section 4.11 of SOCWA's JPA designates the General Manager as the Auditor of the Authority and authorizes the General Manager as Treasurer/Auditor to make arrangements with a certified public accountant or firm for the annual audit of accounts and records of SOCWA. Section 10.1 of the JPA requires the Auditor to "comply strictly with the requirements of the Joint Powers Act" relative to accounting procedures; however, the language of Section 10.2 of the JPA differs from the statutory requirements in two ways: (1) the JPA requires the audit report be filed with the State Controller, which is not required by the statute, and (2) the JPA requires the audit report be filed with the Orange County Auditor, and each SOCWA Member Agency within 6 months of the end of the fiscal year under examination, rather than

[1] Agencies may, by unanimous request of the governing board, replace the special annual audit with a two-year audit. Gov. Code § 6505(f).

the 12 months required by statute. In other words, the JPA puts constraints on SOCWA that are more burdensome than the statute itself.

It should also be noted that neither the Joint Powers Act nor the SOCWA JPA require approval (or even presentation) of the audit report to the SOCWA Board of Directors. While it has been a customary practice of SOCWA to present the audit to the Board for review and approval, the Joint Powers Act and the SOCWA JPA each authorize the agency's General Manager/Auditor to contract with a certified public accountant for the annual audit, and to file the audit report with the required parties without Board approval.

Agenda Item 7.D.

Legal Counsel Review: No

Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, SOCWA General Manager

SUBJECT: General Manager's Report

CTP Regional Flow Study

SOCWA has issued this Request for Proposals (RFP) to solicit proposals from qualified respondents for understanding potential region-wide options for redirecting wastewater flows. The project shall commence upon agreement execution and be completed within 12 weeks, with milestones as follows:

EVENTS	DATE
Issue RFP	November 20, 2025
Mandatory Pre-Proposal Meeting	December 18, 2025
Deadline for Questions and Supplemental Information	January 8, 2026
Proposal Submission Deadline	January 29, 2026
Interviews	February 9-12, 2026
Contract Award	February 26, 2026
Kick-Off Meeting	March 12, 2026
Project Element 1 Due	March 26, 2026
Project Element 2 Due	April 16, 2026
Project Element 3 Due	May 7, 2026
Project Element 4 Due	May 21, 2026
Project Element 5 Due	June 4, 2026
Final Report Due	June 24, 2026

CTP Master Plan

The RFP for the CTP Master Plan deadline is January 15, 2026 with a nine month completion date after the NTP is issued.

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
JBL Odor Control Assessment	$53,426.00
Orbis Affairs	$48,000.00

SOCWA Administrative Building Restoration Project Update

The Administrative Offices have been fully restored and cleared of mold. SOCWA has submitted all the necessary information to our insurance provider to process the claim from the work completed by Preferred Restoration Incorporated (PRI). The following are the major milestones associated with this work:

- **Total Billed Amount**: PRI has billed a total of $159,139.80 for restoration services.
- **SOCWA Responsibilities**:
    - Deductible: $10,000 (applicable to the final invoice of $111,647.30).
    - Mold remediation cost: $10,019.50 (SOCWA's direct responsibility).
    - Total SOCWA out-of-pocket: Approximately $20,019.50.
- **Insurance Claim**: A proposed loss claim of $139,120.30 has been prepared for submission to CSRMA.
- **Pending Actions**:
    - Verification that the remaining balance from the first invoice was not included in the final billing.

No immediate board action is recommended at this time, but updates will be provided as new information is received.

Agenda Item 7.E.

Legal Counsel Review: Yes

Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Adriana Ochoa, General Counsel

SUBJECT: SB 707 Virtual/Remote Meeting Options for SOCWA

Summary:

Legal Counsel will provide an update to SB 707 that was discussed at the November 18, 2025, Finance Committee meeting.

Recommended Action: Board Discussion, Direction and Action.

Attachment: Memo Regarding SB 707 Virtual/Remote Meeting Options for SOCWA

SNELL
& WILMER

Memorandum

VIA E-MAIL

TO: South Orange County Wastewater Authority

FROM: Adriana Ochoa, Legal Counsel

DATE: December 4, 2025

RE: Memo Regarding SB 707 Virtual/Remote Meeting Options for SOCWA

SB 707 (Durazo) is effective January 1, 2026 through January 1, 2023, and while many parts of this bill are inapplicable to SOCWA, the bill does allow SOCWA options with respect to virtual/remote attendance at (1) Committee meetings, and (2) Board meetings. The two options are set forth in detail below, with discussion points that follow.

1. **Committee Meetings**. SB 707 added Government Code § 54953.8.6 to allow "subsidiary bodies" – for SOCWA, this means the **Finance Committee** and the **Engineering Committee** – to conduct virtual meetings (otherwise referred to as teleconferencing) without complying with the public accessibility and agenda posting requirements of Gov. Code § 54953(b)(3), so long as the agencies comply with two sections (for ease, I refer to them as Bucket 1 and Bucket 2 requirements below). You will note there are some inconsistencies and duplications within Buckets 1 and 2, but we list all requirements to be comprehensive.

Bucket 1 Requirements (Gov. Code § 54953.8 Requirements):

- (a)(2)(A) The Board considers whether to adopt a **resolution** to authorize these committees to use teleconferencing at an open and regular meeting.
- (a)(2)(B) If the Board adopts a resolution described above, the committee(s) may elect to use teleconferencing pursuant to this section if **two-thirds** of the committee(s) vote(s) to do so. The committee must notify the Board if it elects to use teleconferencing and its justification for doing so.
- (a)(2)(C) Upon receiving notification from the committee, the Board may adopt a resolution to prohibit the committee from using teleconferencing.
- (a)(3) After completing the requirements in paragraph (2) above, a committee that holds a virtual must do all of the following:
    - (a)(3)(A) Each time an agenda is posted, it must inform members of the public how they can access the meeting and offer public comment. The agenda must identify and include an opportunity for all persons to attend via a call-in option or an internet-based service option.

- (a)(3)(B) If there is an internet disruption, the committee must take no further action on items appearing on the meeting agenda until public access to the meeting via the call-in option or internet-based service option is restored. If the committee does take action during a disruption (presumably, if it didn't realize a disruption had occurred), then actions taken on agenda items during a disruption that prevents the committee from broadcasting the meeting may be challenged pursuant to Gove Code § 54960.1.
- (a)(3)(C) The committee must not require public comments to be submitted in advance of the meeting and shall provide an opportunity for the public to address the committee and offer comment in real time.
- (a)(3)(D) Persons desiring to provide public comment through the use of an internet website, or other online platform, not under the control of the committee, that requires registration to log in to a teleconference may be required to register as required by the third-party internet website or online platform to participate.
- (a)(3)(E)(i) A committee that provides a timed public comment period for each agenda item shall not close the public comment period for the agenda item, or the opportunity to register, pursuant to subparagraph (D), to provide public comment until that timed public comment period has elapsed.
- (a)(3)(E)(ii) A committee that does not provide a timed public comment period, but takes public comment separately on each agenda item, shall allow a reasonable amount of time per agenda item to allow public members the opportunity to provide public comment, including time for members of the public to register pursuant to subparagraph (D), or otherwise be recognized for the purpose of providing public comment.
- (a)(3)(E)(iii) A committee that provides a timed general public comment period that does not correspond to a specific agenda item shall not close the public comment period or the opportunity to register, pursuant to subparagraph (D), until the timed general public comment period has elapsed.
- (a)(3)(F) At least **a quorum of the committee members must participate from locations within SOCWA's boundaries**.
- (a)(3)(E)(G) **At least once per year**, at least a quorum of the members of the committee must participate **in person** from **a singular physical location** that is open to the public and within SOCWA's boundaries.

- (a)(4)(A) If the meeting is during SOCWA's regular business hours, the committee must provide a publicly accessible physical location from which the public may attend or comment.
- (a)(4)(B) If the meeting is outside regular business hours, the committee must make reasonable efforts to accommodate members of the public that want to participate in the meeting. This can mean providing a publicly accessible physical location for

the member of the public to participate from, providing access to technology necessary to participate in the meeting, or identifying locations or resources available that could provide the member of the public with an opportunity to participate in the meeting.

- (b) The committee shall comply with all other requirements of Section 54953.

Bucket 2 Requirements (Gov. Code § 54953.8.6 or Subsidiary Body Requirements):

- (a)(1) The committee must designate **one physical meeting location** within SOCWA's boundaries where members of the committee who are not participating remotely shall be present and members of the public may physically attend, observe, hear, and participate in the meeting. At least SOCWA one staff member must be present at the physical meeting location during the meeting. The committee shall post the agenda at the physical meeting location, but need not post the agenda at a remote location.
- (a)(2)(A) Committee members must visibly appear on camera during the open portion of a meeting that is publicly accessible via the internet or other online platform, except if the member has a physical or mental condition that results in a need to participate off camera.
- (a)(2)(B) Committee members may stop video only when the appearance would be technologically infeasible, including, but not limited to, when the member experiences a lack of reliable broadband or internet connectivity that would be remedied by joining without video.
- (a)(2)(C) If a committee member does not appear on camera due to challenges with internet connectivity, the member shall announce the reason for their nonappearance prior to turning off their camera.
  (a)(3) An **elected official** serving as a member of an committee in their official capacity **shall not participate in a meeting of the committee by teleconferencing pursuant to this section** unless the use of teleconferencing complies agenda posting and public accessibility requirements of Gov. Code § 54953.
- (a)(4)(A) In order to use teleconferencing pursuant to this section, the **SOCWA Board must make the following findings by majority vote** before the committee uses teleconferencing pursuant to this section for the first time, **and every six months thereafter**:
    - (a)(4)(A)(i) The SOCWA Board has considered the circumstances of the committee.
    - (a)(4)(A)(ii) Teleconference meetings of the committee would enhance public access to meetings of the committee, and the public has been made aware of the type of remote participation, including audio-visual or telephonic, that will be made available at a regularly scheduled meeting and has been provided the opportunity to comment at an in-person meeting of the legislative body authorizing the committee to meet entirely remotely.

    - (a)(4)(A)(iii) Teleconference meetings of the committee would promote the attraction, retention, and diversity of committee members.
- (a)(4)(B)(i) A committee authorized to use teleconferencing may request to present any recommendations it develops to the SOCWA Board.
- (a)(4)(B)(ii) Upon receiving a recommendation, the committee shall hold a discussion at a regular meeting held within 60 days after the Board receives the request, or at the next regular meeting after the request is received.
- (a)(4)(B)(iii) The discussion required by clause (ii) shall not be placed on a consent calendar, but may be combined with the Board's subsequent consideration of the findings described in subparagraph (A) for the following 12 months.
- (a)(4)(B)(iv) The Board shall not take any action on any recommendations included in the report of a committee until the next regular meeting of the Board following the discussion described in clause (ii).
- (a)(4)(C) After the SOCWA Board makes the findings described in subparagraph (A), the committee shall approve the use of teleconferencing by majority vote before using teleconference.
- (a)(4)(D) The SOCWA Board may elect to prohibit the committee from using teleconferencing pursuant to this section at any time.

For Discussion: This topic was introduced at Finance Committee with a recommendation to the Board to consider allowing virtual attendance for committee members in order to maximize flexibility, promote attendance at meetings, achieve further public transparency, and promote retention of committee members. If the Board is inclined to permit its committees to conduct virtual meetings, staff will return to the January meeting with the required resolution and findings.

2. **SOCWA Board Meetings**. SB 707 also added Government Code 54953.8.7, which allows Joint Powers Authority Boards specifically (referred to in the statute as "multijurisdictional bodies") to conduct virtual meetings, provided they comply with the **Bucket 1** requirements above (but replace all committee requirements with Board requirements), and all the **Bucket 3** requirements below.

Bucket 3 Requirements (Gov. Code § 54953.8.7 or JPA Requirements):

- (a)(1) The JPA has adopted a **resolution** that authorizes the JPA to use teleconferencing pursuant to this section at a regular meeting in open session.
- (a) (2) At least a **quorum** of Board shall participate **from one or more physical locations** that are open to the public and within SOCWA's boundaries.
- (a)(3) A Board member who receives **compensation** for their service on the JPA shall participate from a **physical location** that is open to the public. For purposes of this paragraph, "compensation" does not include reimbursement for actual and necessary expenses.

- (a)(4) A Board member may participate from a remote location provided that:
    - (a)(4)(A) The agenda **identifies each Board member** who plans to participate remotely.
    - (a)(4)(B) The Board member must use **audio and visual** technology.
- (a)(5) The Board member must not participate in a meeting remotely pursuant to this section, unless the location from which the member participates is **more than 20 miles each way** from any physical location of the meeting described in paragraph (2).
- (a)(6) Board members may not appear via teleconference from a remote location for more than the following number of meetings, as applicable:
    - (a)(6)(A) **Two meetings per year**, if the legislative body regularly meets once per month or less.
    - (a)(6) (B) Five meetings per year, if the legislative body regularly meets twice per month.
    - (a)(6)(C) Seven meetings per year, if the legislative body regularly meets three or more times per month.
    - (a)(6)(D) For the purpose of counting meetings attended by teleconference under this paragraph, a "meeting" shall be defined as any number of meetings of the legislative body of a local agency that begin on the same calendar day.

For Discussion: If the SOCWA Board would like to have the option of conducting virtual meetings pursuant to this section of SB 707, staff will return to the January meeting with the required resolution and findings.

Agenda Item 7.F.

Board of Directors Meeting

Meeting Date: December 11, 2025

TO: Board of Directors

FROM: Amber Boone, General Manager

SUBJECT: 2026 Meeting Calendar

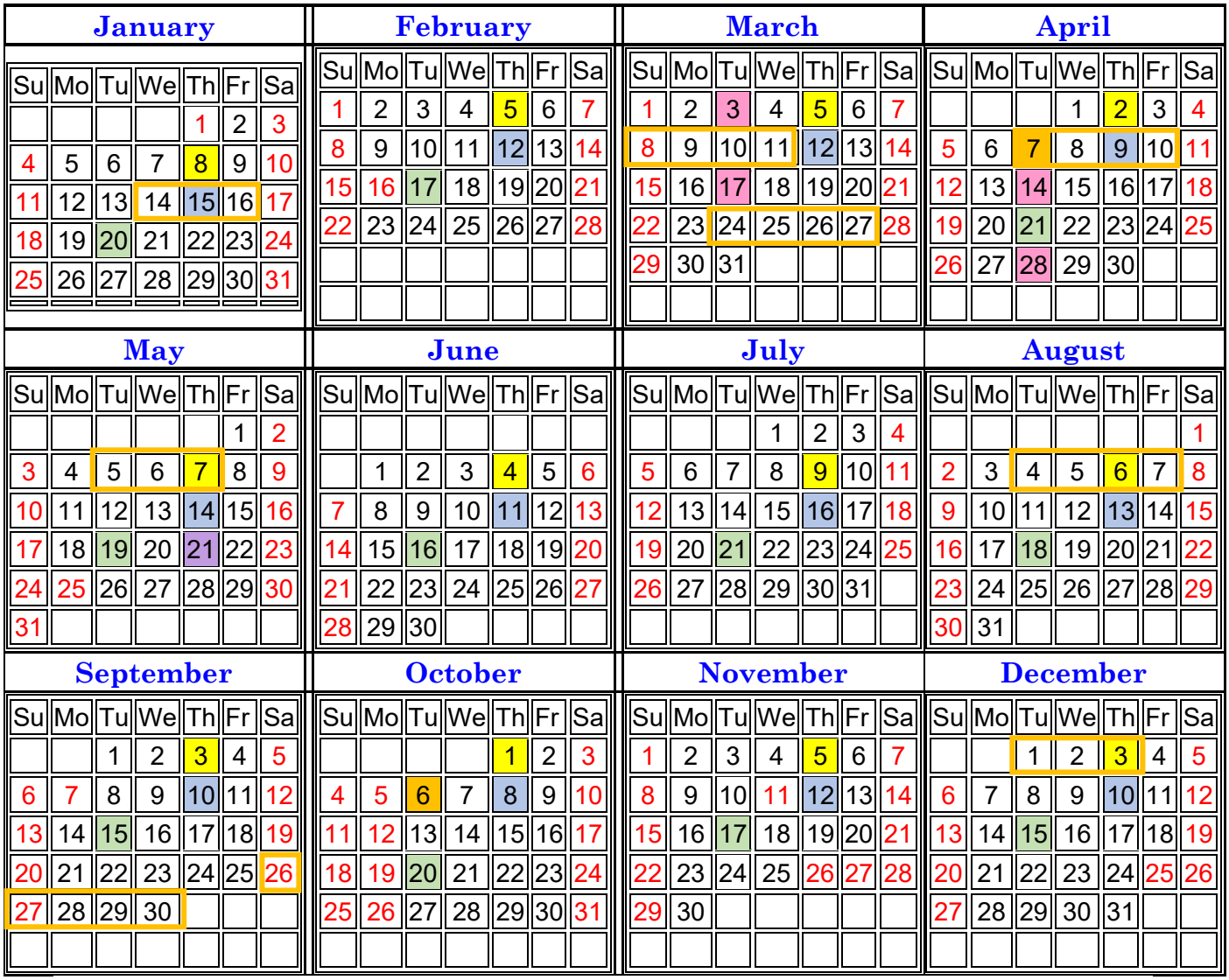
Summary/Discussion

1. The following list reflects conflicting events with the proposed SOCWA 2026 Meeting Calendar:

   - Engineering Committee Meeting on 1/15/2026 falls on the first day of the CASA Winter Conference.
     a. Proposed change: 1/22/2026
   - Executive Committee Meeting on 4/7/2026 falls on the first day of the CWEA Annual Conference.
     a. Proposed change: 4/28/2026
   - Board of Directors Meeting on 5/7/2026 falls on the last day of the ACWA Spring Conference.
     a. Proposed change: 5/14/26 & moving Engineering Committee to 5/21/26
   - Board of Directors Meeting on 8/6/2026 falls on the 3rd day of the CASA Annual Conference.
     a. Proposed change: 8/13/2026 & moving Engineering Committee to 8/20/26
   - Board of Directors Meeting on 12/3/2026 falls on the last day of the ACWA Fall Conference.
     a. Proposed change: 12/10/26 moving Engineering Committee to 12/17/26

2. Start time of Board and Committee Meetings

Recommended Action: Board Discussion, Direction, or Action



2026 Conference Dates:

CASA Winter Conference	January 14-16, 2026	Indian Wells, CA
WateReuse Symposium	March 8-11, 2026	Los Angeles, CA
AWWA/WEF Utility Mgmt. Conf	March 24-27, 2026	Charlotte, NC
CWEA Annual Conference	April 7-10, 2026	Sacramento, CA
ACWA Spring Conference	May 5-7, 2026	Sacramento, CA
CASA Annual Conference	August 4-7, 2026	Napa, CA
WEFTEC Annual Conference	Sept. 26-30, 2026	New Orleans, LA
ACWA Fall Conference	December 1-3, 2026	Anaheim, CA

Start Time of Board and Committee Meetings:

- Board Meeting (8:30 a.m.) *(1st Thursday of the month)*
- Board Budget Workshop (8:30 a.m.) *(5/21/2026)*
- Finance Special Committee (10:30 a.m.) *(3rd Tuesday of the month)* (Monthly meetings as directed on February 20, 2020)
- Finance Special Committee (10:30 a.m.) *Special Budget Review Meetings: (3/3 & 17/2026, 4/14 & 28/2026)*
- Executive Regular Committee (9:00 a.m.) *2nd Tuesday in April & October (4/7/2026 & 10/6/2026)*
- Engineering Regular Committee (8:30 a.m.) *(2nd Thursday of the Month)*

SOCWA Meetings are located at:
34156 Del Obispo Street, Dana Point, California
Or
(Ocean Institute) 24200 Dana Point Harbor Dr., Dana Point, CA 92629
(A *virtual Zoom link is available for all meetings unless otherwise notified*)
Red numbered dates indicate SOCWA holidays and weekends.

Agenda Item 7.G.

Legal Counsel Review: No

Meeting Date: December 11, 2025

TO: SOCWA Board of Directors

FROM: Amber Boone, SOCWA General Manager

SUBJECT: 2025 OC Taxpayers Roses Award Recognition

Summary

The South Orange County Wastewater Authority (SOCWA) was honored as one of three recipients of the prestigious "Roses" Award for its outstanding 2024 Reorganization Efforts. The award ceremony took place on October 29, 2025, and was attended by key representatives from SOCWA and partner agencies. This report recommends that the Board adopt a resolution formally acknowledging the award and recognizing the contributions of those involved.

Background

SOCWA has been actively engaged in reorganization initiatives throughout 2024 to enhance operational efficiency, collaboration among member agencies, and service delivery in wastewater management. These efforts culminated in SOCWA being selected as a recipient of the "Roses" Award, which recognizes exemplary achievements in public sector reorganization and innovation. The award ceremony occurred on October 29, 2025, where SOCWA was celebrated alongside two other organizations. Attendees included elected officials from the Santa Margarita Water District, Laura Freese and Saundra Jacobs. Representing SOCWA's Executive Committee were Kathryn Freshley, Scott Goldman, and Frank Ury. Frank Ury, alongside General Manager Boone, accepted the award on behalf of the organization. Trophies have been prepared for distribution to SOCWA Board Members, allowing them to share this recognition with their respective organizations and stakeholders.

Discussion

This award underscores SOCWA Board’s commitment to excellence in governance, administration, and operational improvements. It highlights the collaborative spirit among member agencies and the dedication of staff and leadership. Acknowledging this achievement through a formal resolution will serve to document the honor in SOCWA's achievement and reinforce the value of ongoing innovation and operational excellence.

Recommendation

Staff recommends that the Board adopt Resolution No. 2025-17, entitled "A Resolution of the Board of Directors of the South Orange County Wastewater Authority Acknowledging Receipt of the 2025 'Roses' Award for the 2024 Reorganization Efforts."

Attachment: Resolution No. 2025-17

RESOLUTION NO. 2025-17

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ACKNOWLEDGING RECEIPT OF THE 2025 "ROSES" AWARD FOR REORGANIZATION EFFORTS

WHEREAS, the South Orange County Wastewater Authority (SOCWA) is committed to excellence in wastewater management, operational efficiency, and collaborative governance among its member agencies; and

WHEREAS, throughout 2024, SOCWA undertook significant reorganization efforts to streamline processes, enhance service delivery, and foster innovation in public utility operations; and

WHEREAS, on October 29, 2025, SOCWA was honored as one of three recipients of the "Roses" Award for its exemplary 2024 Reorganization Efforts; and

WHEREAS, trophies have been prepared for SOCWA Board Members to distribute to their respective organizations, symbolizing this shared achievement; and

WHEREAS, this recognition reflects the hard work and dedication of SOCWA's staff, leadership, and partners.

NOW, THEREFORE, BE RESOLVED by the Board of Directors of the South Orange County Wastewater Authority as follows:

1. The Board hereby acknowledges and accepts the 2025 "Roses" Award for Reorganization Efforts with gratitude.
2. The Board expresses appreciation to all individuals and agencies involved in the reorganization initiatives, including the attendees and acceptors at the ceremony.
3. The General Manager is authorized to distribute the trophies to board members for presentations to their respective organizations.
4. This Resolution shall take effect immediately upon its adoption.

PASSED, APPROVED, AND ADOPTED this 11th day of December 2025, by the Board of Directors of the South Orange County Wastewater Authority.

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Frank Ury, Chairman

(Seal)

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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. 2025-17 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: December 11, 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. 2025-17 of said Board and that the same has not been amended or repealed.

Dated: December 11, 2025

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

(Seal)