I hereby certify that the following Agenda was posted at least 24 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.

Danita Hirsh, Assistant Secretary SOCWA and the Board of Directors thereof

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

> August 8, 2024 8:30 a.m.

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

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST TWENTY-FOUR (24) 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 TWENTY-FOUR (24) 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 DANITA HIRSH AT DHIRSH@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 949-234-5452. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN TWENTY-FOUR (24) 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 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.

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Agenda

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

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

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

ACTION Board Discussion/Direction and Action.

5. <u>CONSENT CALENDAR</u>

Α.	Minutes of Board of Directors		1
	2. Boar	d of Directors Meeting of June 6, 2024 d of Directors Special Meeting of July 8, 2024 d of Directors Special Meeting of July 25, 2024	
	ACTION	The Board will be requested to approve the subject Minutes.	
В.	Minutes of P	C 2 Committee	20
	• PC 2	Committee Meeting of July 15, 2024	
	ACTION	The PC 2 Members will be requested to approve the subject Minutes and the Board will be requested to approve the subject Minutes.	
C. Minutes of Engineering Committee		ngineering Committee	22
	• Engir	neering Committee Meeting of April 11, 2024	
	ACTION	The Board will be requested to receive and file the subject Minutes.	
D.	Minutes of F	inance Committee	25
	• Finar	ce Committee Meeting of April 30, 2024	
	ACTION	The Board will be requested to receive and file the subject Minutes.	

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The reports included are as follows:

- 1. Summary of Disbursements for April 2024 (Exhibit A)
- Schedule of Funds Available for Reinvestment (Exhibit B)
 Local Agency Investment Fund (LAIF)
- 3. Schedule of Cash and Investments (Exhibit C)
- 4. Capital Schedule (Exhibit D)
- Capital Projects Graph (Exhibit D-1)
- 5. Budget vs. Actual Expenses:

ACTION	The Finance Committee recommends that the Board of Directors (i)
	receive and file the April 2024 Financial Reports, (ii) ratify the April
	2024 disbursement for the period from April 1, 2024, through April
	30, 2024, totaling \$1,967,764, (iii) receive and file the Fiscal Year
	2023-24 Q3 Cash Roll Forward as submitted.

F.		erations Report y Operational Report	58
	2. SOCW	A Ocean Outfall Discharges by Agency	
	3. Beach	Ocean Monitoring Report	
	4. Recycl	ed Water Report	
	ACTION	The Board will be requested to receive and file subject reports as submitted.	
G.		erations Report y Operational Report	87

- 2. SOCWA Ocean Outfall Discharges by Agency
- 3. Fiscal Year Report on Key Operational Expenses
- 4. Beach Ocean Monitoring Report
- 5. Recycled Water Report
- 6. Pretreatment Report (May thru July)

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

H. Capital Improvement Program Status Report (June/July)......136

ACTION Information item.

Capital Improvement Construction Projects Progress and Change Order Report (June)
 [Project Committees 2 and 15]......142

ACTION Information item.

<u>Agenda</u>

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6. ENGINEERING MATTERS

A. Regional Treatment Plant (RTP) Motor Control Centers (MCC) A, C, G, and H Replacement Design [Project Committee 17]		
	ACTION	The Engineering Committee recommends that the PC 17 Board of Directors i) approve a contract with Carollo Engineers for a total of \$492,503 for the RTP MCC A, C, G, and H Replacement Design, and ii) approve a contract contingency of \$20,000 for unknown issues discovered during design.
B. J.B. Latham Treatment Plant (JBL) Effluent Pump Station and Energy Building Design Contract [Project Committee 2]		
	ACTION	The Engineering Committee recommends that the PC 2 Board approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.
C. Contract Amendment for Coastal Treatment Plant (CTP) Export Sludge Forcerr Temporary Impact Area Restoration Monitoring and Maintenance [Project Com		endment for Coastal Treatment Plant (CTP) Export Sludge Forcemain npact Area Restoration Monitoring and Maintenance [Project Committee 15]219
	ACTION	The Engineering Committee recommends that the PC 15 Board of Directors approve Amendment 2 to Dudek for a total of \$84,960 for the Export Sludge Temporary Impact Area Restoration Monitoring and Maintenance.
D. Coastal Treatment Plant (CTP) Funding Plan Implementation [Project Commit		tment Plant (CTP) Funding Plan Implementation [Project Committee 2]236
	ACTION	The Engineering Committee recommends that the PC 15 Board i) approve the amended contract to Hazen for a total not to exceed \$150,000 and ii) approve an additional \$150,000 to the project budget for the CTP Funding Plan Implementation.
E. Contract Award for Effluent Transmission Reaches D and E Main Air Valves Engineering Services During Construction [Project Committee 21]		ard for Effluent Transmission Reaches D and E Main Air Valves Bidding and Services During Construction [Project Committee 21]246
	ACTION	The Engineering Committee recommends that the PC 21 Board of Directors approve the contract to Tetra Tech in the amount of \$47,500 for the bidding and ESDC services for the ETM Reaches D and E Air Valve Replacement project.

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<u>Agenda</u>

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	F.	. Contract Award for Coastal Treatment Plant (CTP) West Primary and Secondary Scum Skimming System Pre-Procurement [Project Committee 15]		53
		ACTION	The Engineering Committee recommends that the PC 15 Board of Directors i) approve a contract with Brentwood Polychem, represented by Coombs Hopkins, for a total of \$930,960 for the Coastal Treatment Plant West Primary and Secondary Scum Skimming Systems and. ii) approve a contract contingency of 10% in the amount of \$93,096 to cover delivery and unloading charges.	
7.	<u>G</u>	ENERAL MANA	AGER'S REPORT	
	A.	SOCWA Labo	oratory Feasibility Study Contract Award20	88
			The Engineering Committee recommends that the Board of Directors award the SOCWA Laboratory Feasibility Study contract to the Austin Company for \$83,800 using the allocations in Table 4 of the staff report.	
	B.	THE SOUTH SALT NUTRII WATER CON	N NO. 2024-04: A RESOLUTION OF THE BOARD OF DIRECTORS OF ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE ENT MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL ITROL BOARD (SDRWQCB) AND POST THE SNMP TO THE 3SITE	68
			Staff recommends that the Board of Directors approve RESOLUTION NO. 2024-07: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE SALT NUTRIENT MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL WATER CONTROL BOARD (SDRWQCB) AND POST THE SNMP TO THE SOCWA WEBSITE.	
	C.		ty Grand Jury Report – Emerging Opportunities in South County water Systems	74
		ACTION	Board Discussion/Direction and Action.	
	D.	 SCWE REGIO WATE 	n the SCWD/SMWD Proposal Framework D Proposal March 7, 2024 - PROPOSAL TO TRANSITION THE ONAL TREATMENT PLANT (RTP) TO MOULTON NIGUEL ER DISTRICT (MNWD) & FACILITATE MNWD'S WITHDRAWAL I SOCWA [PC 2, 5, 8, 12, 15, 17, 21, 24]	
		ACTION	Board Discussion/Direction and Action.	

<u>Agenda</u>

E.	 General Counsel's Update JPA Revision Process (Standing item) PC 10 Exit Agreement
	ACTION Board Discussion/Direction and Action.
F.	Acting General Manager's Report410
	ACTION Board Discussion/Direction and Action.
G.	 Upcoming Meetings Schedule: August 5, 2024 – Board of Directors Special Meeting – Closed Session August 8, 2024 – Board of Directors Special Meeting August 15, 2024 – Engineering Committee Meeting August 20, 2024 – Finance Committee Meeting September 5, 2024 – Board of Directors Regular Meeting
	ACTION Information Item.
<u>CL</u>	OSED SESSION

- A. Closed Session Conference with Legal Counsel for Existing Litigation Pursuant to Government Code § 54956.9(d)(1)).
 - Commissioners of Public Works of the City of Charleston (dba Charleston Water System) v. DUDE Products Inc. Case No. 2:24-cv-02935-RMG
- B. Report Out of Closed Session

9. OTHER MATTERS

8.

Determine the need to take action on the following item(s) introduced by the Acting General Manager/Director of Operations, 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.]

10. ADJOURNMENT

THE NEXT SOCWA BOARD MEETING September 5, 2024

MINUTES OF REGULAR MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Board of Directors

June 6, 2024



The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in person and via teleconference on June 6, 2024, 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:

Staff Present: JIM BURROR AMBER BOONE MARY CAREY DINA ASH RONI GRANT KONSTANTIN SHILKOV ANNA SUTHERLAND JEANETTE COTINOLA MATT CLARK DANITA HIRSH

Acting General Manager/Director of Operations Director of Environmental Compliance Finance Controller HR Administrator Associate Engineer Senior Accountant Accounts Payable Procurement/Contracts Manager IT Administrator Executive Assistant

Also Present:			
KEVIN DAVIS	Procopio Law	DON FROELICH	Moulton Niguel Water District
BRAD NEUFELD	Varner & Brandt LLP	MARC SERNA	South Coast Water District
RICK SHINTAKU	South Coast Water District	KARI VOZENILEK	Kidman Gagen Law, LLP
ROGER BUTOW	Clean Water Now (CWN)	DENNIS CAFFERTY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District	KELSEY DECASAS	Moulton Niguel Water District
JEFF FERRE	Best Best & Krieger LLP	MIKE GASKINS	El Toro Water District
OSMAN MUFTI	Sloan Sakai Yeung & Wong LLP	LISA OHLUND	Ohlund Mgmt. & Tech Svc.
SAUNDRA JACOBS	Santa Margarita Water District	DREW ATWATER	Moulton Niguel Water District

1. CALL TO ORDER

Chairman Collings called the meeting to order at 8:30 a.m.

- 2. <u>PLEDGE OF ALLEGIANCE</u> Director Scott Goldman
- 3. ORAL COMMUNICATIONS

None.

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

None.

5. CONSENT CALENDAR

Director Goldman pulled agenda item 5.I. for further clarification, and Director Whalen pulled agenda item 5.J. to provide comments.

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Freshley to approve the Consent Calendar agenda items 5A through 5H as submitted.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0		
	Director Dunbar	Aye	
	Director Freshley	Aye	
	Director Collings	Aye	
	Director Whalen	Aye	
	Director Ury	Aye	
	Director Goldman	Aye	
	Director Rebensdorf	Aye	

(5A thru 5H, and 5K)

- A. 1. Minutes of Board of Directors Meeting for May 2, 2024
- 2. Minutes of Board of Directors Budget Workshop Meeting for May 16, 2024
- B. Minutes of PC 17 Committee Meeting for April 24, 2024
- C. Minutes of PC 2 Committee Meeting for May 15, 2024
- D. Minutes of Finance Committee Meeting for March 19, 2024
- E. April 2024 Operations Report
 - Approved Action: Information Item; received and filed.
- F. Capital Improvement Program Status Report (May) Approved Action: Information Item.
- G. Capital Improvement Construction Projects and Change Order Report (May) [Project Committees 2, 5, 15 & 24] Approved Action: Information Item.
- H. J.B. Latham Treatment Plant (JBL) Package B Construction Management Post-Construction Contract [Project Committee 2]

Approved Action: The PC 2 Board approved Contract amendment No. 3 to Butier Engineers in the amount of \$69,264 for a revised contract total of \$1,970,241 for the JBL Package B Construction Management Contract for post-construction work.

K. Resolution No. 2024-05: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Approving New Employee Salary Ranges and the South Orange County Wastewater Authority Employee Manual for All SOCWA Employees

Approved Action: The Board of Directors Adopted Resolution No. 2024-05: A Resolution of the Board of Directors of the South Orange County Wastewater Authority (SOCWA) Approving New Employee Salary Ranges and the South Orange County Wastewater Authority Employee Manual for All SOCWA Employees.

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I. Blower #8 Overhaul at JBL [Project Committee 2]

An open discussion ensued on the potential causes of the short lifespan of the Blower, including corrosion and the end of the production cycle.

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Ury authorizing the Acting General Manager/Director of Operations to contract with AERZEN USA Corporation for the overhaul of Blower #8 at JBL, at the cost of \$52,883.70, plus shipping costs, fees, and additional tax to be determined at the time the units are shipped, and ii) approve a \$5,000 project contingency for unknown conditions discovered during the teardown of the Blower.

Motion carried:	Aye 3, Nay 0, Absta	3, Nay 0, Abstained 0, Absent 0	
	Director Collings	Aye	
	Director Ury	Aye	
	Director Goldman	Aye	

J. Resolution No. 2024-04: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Approving New Employee Salary Ranges to the July 1, 2024, to June 30, 2025, Memorandum of Understanding ("MOU") between the South Orange County Wastewater Authority and the SOCWA Employee Association

Director Whalen stated the resolution referenced Exhibits A and B, noting that he didn't have a copy of Exhibit B.

Staff referenced Exhibit B on page 222 of the agenda packet and said that it would be included with the resolution for the MOU as it is also included with the employee manual.

ACTION TAKEN

A motion was made by Director Whalen and seconded by Director Freshley Adopting Resolution No. 2024-04: A Resolution of the Board of Directors of the South Orange County Wastewater Authority (SOCWA) Approving New Employee Salary Ranges to the July 1, 2024, to June 30, 2025, Memorandum of Understanding ("MOU") between the South Orange County Wastewater Authority and the SOCWA Employee Association.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye
		-

6. ENGINEERING MATTERS

A. Contract Award for Regional Treatment Plant (RTP) Primary and Aeration Areas Gratings and Gates Replacement Project [Project Committee 17]

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Dunbar to i) approve the contract to HDR for a total not to exceed \$232,330 and ii) approve a 5% contingency of \$11,617 for the RTP Primary and Aeration Areas Grating and Gates Project.

Motion carried:	Aye 5, Nay 0, Absta	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Goldman	Aye

A. Contract Award for J.B. Latham Treatment Plant (JBL) Headworks Upgrade Design Project [Project Committee 2]

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Ury to i) increase the project budget by \$30,000 for a total revised budget of \$230,000 and ii) award the contract to Dudek for a total not to exceed \$ 208,100 for the JBL Plant 2 Headworks Upgrades Project.

Aye 3, Nay 0, Absta	ined 0, Absent 0
Director Collings	Aye
Director Whalen	Aye
Director Goldman	Aye
	Director Whalen

7. GENERAL MANAGER'S REPORT

A. Selection of Officers for the Board of Directors For Fiscal Year (FY) 2024-25

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to appoint Director Frank Ury as Chairman of the SOCWA Board of Directors, Director Scott Goldman as first Vice Chair, and Director Kathryn Freshley as second Vice Chair.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye
		-

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Whalen to appoint Jim Burror, Acting General Manager/Director of Operations as Secretary/Treasurer to the Board of Directors and Danita Hirsh, Executive Assistant as Assistant Secretary to the Board of Directors.

- Motion carried: Aye 7, Nay 0, Abstained 0, Absent 0 Director Dunbar Ave Director Freshley Aye Director Collings Aye Director Whalen Ave Director Ury Aye Director Goldman Ave **Director Rebensdorf** Aye
- B. Approval of FY 2024-25 Budget
 - 1. General Fund Budget

Approval of the FY 2024-25 **General Fund Budget**. Approval of the General Fund Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Whalen to approve the **General Fund Budget** authorizing the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye
		-

- 2. Project Committee Operating Budgets
 - a. Approval of the FY 2024-25 Administration Budget (inclusive of project committee administration expenses, residual engineering, and IT). Approval of the FY 2024-25 Administration Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Whalen to approve the FY 2024-25 **Administration Budget** (inclusive of project committee administration expenses, residual engineering, and IT). Approval of the FY 2024-25 Administration Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 6, Nay 1, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Nay
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

b. Approval of the Project Committee ("PC") 2 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) as proposed and PC 2 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital). Approval of the Project Committee ("PC") 2 Operations and Maintenance Budget and PC 2 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Goldman to approve the Project Committee ("PC") 2 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) as proposed and PC 2 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital). Approval of the Project Committee ("PC") 2 Operations and Maintenance Budget and PC 2 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 3, Nay 0, Abstair	ned 0, Absent 0
	Director Collings	Aye
	Director Ury	Aye
	Director Goldman	Aye

c. Approval of the Project Committee ("PC") 17 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 17 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital). Approval of the Project Committee ("PC") 17 Operations and Maintenance Budget and PC 17 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee ("PC") 17 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 17 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital). Approval of the Project Committee ("PC") 17 Operations and Maintenance Budget and PC 17 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Aye 5, Nay 0, Absta	ained 0, Absent 0
Director Dunbar	Aye
Director Freshley	Aye
Director Collings	Aye
Director Whalen	Aye
Director Goldman	Aye
	Director Dunbar Director Freshley Director Collings Director Whalen

d. Approval of the Project Committee ("PC") 15 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 15 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital). Approval of the Project Committee ("PC") 15 Operations and Maintenance Budget and PC 15 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Whalen to approve the Project Committee ("PC") 15 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 15 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital). Approval of the Project Committee ("PC") 15 Operations and Maintenance Budget and PC 15 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 3, Nay 0, Abstaine	d 1, Absent 0
	Director Dunbar	Aye
	Director Collings	Abstain
	Director Whalen	Aye
	Director Goldman	Aye

e. Approval of the Project Committee ("PC") 5 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 5 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering). Approval of the Project Committee ("PC") 5 Operations and Maintenance Budget and PC 5 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Rebensdorf and seconded by Director Goldman to approve the Project Committee ("PC") 5 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 5 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering). Approval of the Project Committee ("PC") 5 Operations and Maintenance Budget and PC 5 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 4, Nay 0, Abstaine	d 0, Absent 0
	Director Collings	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

f. Approval of the Project Committee ("PC") 24 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 24 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering). Approval of the Project Committee ("PC") 24 Operations and Maintenance Budget and PC 24 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee ("PC") 24 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) and PC 24 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering). Approval of the Project Committee ("PC") 24 Operations and Maintenance Budget and PC 24 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 5, Nay 0, Absta	ined 0, Absent 0
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Goldman	Aye

g. Approval of the Project Committee ("PC") 21 (ETM) Operations and Maintenance Budget, UAL and OPEB, and PC 21 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering). Approval of the Project Committee ("PC") 21 (ETM) Operations and Maintenance Budget and PC 21 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee ("PC") 21 (ETM) Operations and Maintenance Budget, UAL and OPEB, and PC 21 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering). Approval of the Project Committee ("PC") 21 (ETM) Operations and Maintenance Budget and PC 21 Capital Expenditures Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 2, Nay 0, Abstair	ed 0, Absent 0
	Director Freshley	Aye
	Director Collings	Aye

h. Approval of the Project Committee ("PC") 8 (Pretreatment) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, UAL and OPEB). Approval of the Project Committee ("PC") 8 (Pretreatment) Operations and Maintenance Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Whalen to approve the Project Committee ("PC") 8 (Pretreatment) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, UAL and OPEB). Approval of the Project Committee ("PC") 8 (Pretreatment) Operations and Maintenance Budget authorizes the Acting General Manager to expend up to and

not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

i. Approval of the Project Committee ("PC") **2SO** (PC12) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB). Approval of the Project Committee ("PC") 2SO (PC12) Operations and Maintenance Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action. Authorization includes the redistribution of the costs of PC 2SO (PC 12) among the member agencies to exclude EI Toro Water District); the Board approves the allocation of expenses with approval of the Budget.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Whalen to approve the Project Committee ("PC") 2SO (PC12) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB). Approval of the Project Committee ("PC") 2SO (PC12) Operations and Maintenance Budget authorizes the Acting General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action. Authorization includes the redistribution of the costs of PC 2SO (PC 12) among the member agencies to exclude EI Toro Water District); the Board approves the allocation of expenses with approval of the Budget.

Aye 3, Nay 0, Abstained 0, Absent 0	
Aye	
Aye	
Aye	
Aye	

j. The Board directs staff to prepare and distribute a final printed budget consistent with any additional changes presented and approved at the June 6, 2024, meeting.

ACTION TAKEN

There was a consensus of the Board of Directors authorizing staff to print and distribute the final budget book with any additional changes, as approved on June 6, 2024.

C. FY 2023-24 Budget Update and Proposed Budget Amendments [Project Committees 15 and 17]

Director Freshley stated concerns about making budget adjustments at the end of the fiscal year outside of the approved budget for the year. She stated that coming to the Board with resolutions of true-up the budget due to circumstances beyond our control was a waste of the accounting staff's time and efforts. An open discussion ensued.

Mr. Burror, Acting General Manager, stated that going forward, staff would bring these items to the Finance Committee for discussion and direction before presenting them to the Board.

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Whalen to approve a budget amendment totaling \$65,000 for Project Committee 15 (CTP).

Motion carried:	Aye 3, Nay 0, Abstain	ed 1, Absent 0
	Director Dunbar	Aye
	Director Collings	Abstain
	Director Whalen	Aye
	Director Goldman	Aye

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to approve a budget amendment totaling \$290,000 for Project Committee 17 (RTP).

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Goldman	Aye

- D. Discussion on the SCWD/SMWD Proposal Framework
 - PC 15 Update carryover from October 24 Board Meeting
 - SCWD Proposal March 7, 2024 PROPOSAL TO TRANSITION THE REGIONAL TREATMENT PLANT (RTP) TO MOULTON NIGUEL WATER DISTRICT (MNWD) & FACILITATE MNWD'S WITHDRAWAL FROM SOCWA
 - SMWD/SCWD Update [PC 2]

Director Collings stated that since the May 1st meeting, Moulton has provided several agreements based on the South Coast Water District proposal and discussions that had occurred at that time. He stated that there had been productive discussions with staff and counsel from El Toro Water District and the City of Laguna Beach, and they are waiting for comments from other agencies on the agreements. He noted that the next step is to hold another meeting similar to the May 1st meeting for all to attend to further address any questions or concerns from the member agencies. An open discussion ensued.

Public Speaker: Roger Butow, Clean Water Now (CNW)

This was an information item; no actions were taken.

E. FY 2023-24 Administration and General Fund Budget Update for Legal Expenses to Review the Draft MNWD Exit Agreements

ACTION TAKEN

A motion was made by Director Whalen and seconded by Director Freshley to approve an amendment to the Administration Budget totaling \$15,000 for additional legal expenses to review the draft MNWD Exit Agreements.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

F. Establishment of PC 10 Budgets for Legal Expenses to Prepare Quitclaim Documents to Transfer PC 10 Assets to the City of San Clemente in FY2023-24 and FY2024-25 [Project Committee 10]

ACTION TAKEN

A motion was made by Director Rebensdorf and seconded by Director Collings to establish budgets of \$5,000 for FY2023-24 and \$2,000 for FY2024-25 for legal expenses to prepare Asset Transfer Agreement documents to transfer PC10 assets to the City of San Clemente.

Motion carried: Aye 7, Nay 0, Abstained 0, Absent 0 Director Dunbar Aye Director Freshley Aye

Director Freshiey	Ауе
Director Collings	Aye
Director Whalen	Aye
Director Ury	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

G. Resolution No. 2024-06: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Re-Establishing Dates for the Regular Meetings of the Board of Directors July and December Board Meeting Dates

ACTION TAKEN

A motion was made by Director Dunbar and seconded by Director Ury to adopt Resolution 2024-06, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Re-establishing Dates for the Regular Meetings of the Board of Directors, thereby changing the regular July and December Board Meeting Dates.

Motion carried:	Aye 7, Nay 0, Abstained 0, Abs	
	Director Dunbar	Aye
Exited @ 9:03 am	Director Freshley	Absent
/Returned @ 9:08 am		
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye
		-

H. General Counsel's Updates (1:06:01)

Mr. Kevin Davis, General Counsel, reported no updates on the JPA revision process. As for the PC 10 exit agreement, the PC 10 1982 Agreement allowing SOCWA to operate the San Clemente Outfall has no expiration date, but it does have a 30-day notice to terminate clause. Mr. Davis noted that as part of the transference of the outfall back to the City of San Clemente, SOCWA would give notice of termination of the agreement to San Clemente. Additionally, Ms. Ochoa, Mr. Burror, and Ms. Boone have been meeting with the Regional Board about whether the NPDES permit requires amendment due to the withdrawal of IRWD and potentially MNWD. An open discussion ensued.

This was an information item; no action was taken.

I. Acting General Manager's Report

Ms. Boone reported on the Ocean Acidification Engagement letter enclosed on page 432 of the agenda packet. She also reported that the Wastewater Scan program is ending and on the Artificial Intelligence (AI) Workshop hosted by Orange County Water District and Clean Water SoCal. An open discussion ensued.

Mr. Burror reported that the Synagro letter enclosed on page 439 of the agenda packet was provided to industry partners in Washington, D.C., in efforts of wastewater treatment plants relative to the circular liabilities similar to the BKK landfill. An open discussion ensued.

This was an information item; no action was taken.

- J. Upcoming Meetings Schedule:
 - June 6, 2024 Board of Directors Regular Meeting
 - June 13, 2024 Engineering Committee Meeting
 - June 18, 2024 Finance Committee Meeting
 - July 11, 2024 Board of Directors Regular Meeting

This was an information item; no action was taken.

The Board of Directors convened to Closed Session at 9:45 a.m. The Board of Directors reconvened to the Open Session at 9:54 a.m.

8. <u>CLOSED SESSION</u>

- A. A Closed Session Conference was held with Labor Negotiator (Gov. Code 54957.6)
 - Agency Designated Representatives:
 - Brad Neufeld of Varner & Brandt
 - Jim Burror, Acting General Manager/Director of Operations
- B. Report Out of Closed Session Chairman Collings stated there were no reportable actions.

9. OTHER MATTERS

None.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 9:55 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 June 6, 2024, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Board of Directors

July 8, 2024



The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in person and via teleconference on July 8, 2024, at 10:00 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 DUNBAR KATHRYN FRESHLEY BOB WHALEN FRANK URY MATT COLLINGS SCOTT GOLDMAN DAVE REBENSDORF	Emerald Bay Service Distr El Toro Water District City of Laguna Beach Santa Margarita Water Dis Moulton Niguel Water Dist South Coast Water District City of San Clemente	strict rict t	Director Director Director Director Director Director Director Director [Zoom]	
Staff Present: JIM BURROR AMBER BOONE MARY CAREY DINA ASH RONI GRANT KONSTANTIN SHILKOV ANNA SUTHERLAND MATT CLARK DANITA HIRSH	Acting General Manager/D Director of Environmental Finance Controller HR Administrator Associate Engineer Senior Accountant Accounts Payable IT Administrator Executive Assistant			
Also Present: ADRIANA OCHOA	Procopio Law	DON FR	ROELICH	Mou
BRAD NEUFELD	Varner & Brandt LLP	DUANE	CAVE	Mou
RICK SHINTAKU	South Coast Water District	JOE MU	JLLER	Sou
WILLIAM KELLY	Kelly Associates Mgmt Group	SHERR	Y WANNINGER	Mou
DEREK NOBLE	Brown & Brown Insurance	TARYN	KJOLSING	Sou
ROBB GRANTHAM	Santa Margarita Water District	MARC S	SERNA	Sou
PAUL PENDER	Santa Margarita Water District	ALLISO	N BURNS	Stra

PAUL PENDER SAUNDRA JACOBS **KELSEY DECASAS** KARI VOZENILEK

Santa Margarita Water District Santa Margarita Water District Moulton Niguel Water District Kidman Gagen Law, LLP

ALLISON BURNS DAVE LARSEN MARK MCAVOY LISA OHLUND

ulton Niguel Water District ulton Niguel Water District uth Coast Water District ulton Niguel Water District uth Coast Water District uth Coast Water District Stradling Law Moulton Niguel Water District City of Laguna Beach Ohlund Mgmt. & Tech Svc.

1. CALL TO ORDER

Chairman Collings called the meeting to order at 10:00 a.m.

2. <u>PLEDGE OF ALLEGIANCE</u> – Director Bob Whalen

3. ORAL COMMUNICATIONS

None.

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

Due to a just cause circumstance, Director Rebensdorf attended the meeting via Zoom. According to AB2449, the Remote Appearance form is attached to the Minutes.

5. CONSENT CALENDAR

ACTION TAKEN

A motion was made by Director Dunbar and seconded by Director Freshley to approve the Consent Calendar agenda items 5A and 5B as submitted.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Whalen	Aye
	Director Ury	Aye
	Director Goldman	Aye
	Director Rebensdorf	Aye

(5A and 5B)

- A. J.B. Latham Treatment Plant (JBL) Package B Construction Management Post-Construction Contract [Project Committee 2]
 Approved Action: The PC 2 Board approved Contract amendment No. 3 to Butier Engineers in the amount of \$69,264 for a revised contract total of \$1,970,241 for the JBL Package B Construction Management Contract for post-construction work.
- B. J.B. Latham Treatment Plant (JBL) Package B Construction Management Post-Construction Contract [Project Committee 2]
 Approved Action: The PC 2 Board approved Contract amendment No. 3 to Butier Engineers in the amount of \$69,264 for a revised contract total of \$1,970,241 for the JBL Package B Construction Management Contract for post-construction work.

6. <u>GENERAL MANAGER'S REPORT</u>

- A. Discussion on the SCWD/SMWD Proposal Framework
 - PC 15 Update carryover from October 24 Board Meeting
 - SCWD Proposal March 7, 2024 PROPOSAL TO TRANSITION THE REGIONAL TREATMENT PLANT (RTP) TO MOULTON NIGUEL WATER DISTRICT (MNWD) & FACILITATE MNWD'S WITHDRAWAL FROM SOCWA
 - SMWD/SCWD Update [PC 2]

Mr. Jim Burror, Acting General Manager/Director of Operations, stated that SOCWA received the Grand Jury's Report on the J.B. Latham Plant (PC 2) and that the report would be agendized at the next Regular meeting.

Public Speaker: Charles Barfield, Orange County Employee Association (OCEA), addressed the Board regarding the potential transition of SOCWA employees to Moulton Niguel Water District. An open discussion ensued.

Director Collings stated that discussions had been held with the interested parties to address the critical issues and concerns of the employees. An open discussion ensued.

Mr. Rick Shintaku, General Manager of South Coast Water District (SCWD), stated that a stafflevel meeting was scheduled for July 15 to narrow the issues before holding a joint board meeting. An open discussion ensued.

This was an information item; no actions were taken.

The Board of Directors convened to Closed Session at 10:31 a.m. The Board of Directors reconvened to the Open Session at 12:14 p.m.

8. <u>CLOSED SESSION</u>

- A. A Closed Session conference was held Pursuant to Government Code § 54957.
 - Public Employee Performance Evaluation
 - Title: Acting General Manager/Director of Operations
- B. Report Out of Closed Session There were no reportable actions.

9. OTHER MATTERS

None.

ADJOURNMENT

There being no further business, Director Ury adjourned the meeting at 12:15 p.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 Board of Directors on July 8, 2024, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY



SOCWA BOARD MEETING REMOTE APPEARANCE FORM

Board Member Name	
Member Agency	
Date of Requested Remote Participation	Date RequestSubmitted

Basis for Remote Appearance (select one)

Emergency Circumstances (*i.e.*, a physical or family medical emergency that prevents inperson participation) *Subject to Board approval

□ <u>Just Cause</u> (select applicable reason below)

- □ A childcare or caregiving need of a child, parent, grandparent, grandchild, sibling, spouse, or domestic partner that requires remote participation
- □ A contagious illness that prevents in-person participation
- □ A need related to a physical or mental disability
- □ Travel while on official business of this legislative body or another state or local agency

General Description of Need to Appear Remotely – *Approximately 20 words. No need to disclose any medical diagnosis, disability or personal medical information.*

Important Reminders

- Notify the agency of your need to appear remotely at the earliest opportunity.
- You must participate remotely by both audio and video.
- At the meeting before any action is taken, you must publicly disclose whether there are any individuals 18 years of age or older in the room with you, and the general nature of your relationship with the individual(s).
- You must submit a request for each meeting in which you seek to appear remotely.
- You may not participate remotely for more than three consecutive months or for 20% of regular meetings within the calendar year. If the board meets 10 or fewer times per year, you may only participate remotely for two meetings per calendar year.
- You may only participate remotely for "just cause" for two meetings per calendar year.
- Requests to appear remotely under emergency circumstances require a Board action to approve the request.

MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Board of Directors

July 25, 2024



The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in person and via teleconference on July 25, 2024, at 10:00 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 DUNBAR	Emerald Bay Service District	Director
KATHRYN FRESHLEY	El Toro Water District	Director
BOB WHALEN	City of Laguna Beach	Director
FRANK URY	Santa Margarita Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director [arrived @ 10:03 a.m.]
DAVE REBENSDORF	City of San Clemente	Director
Staff Present:	City of San Clemente	Director

JIM BURROR MATT CLARK DANITA HIRSH

Also Present: BRAD NEUFELD WILLIAM KELLY Acting General Manager/Director of Operations IT Administrator Executive Assistant

Varner & Brandt LLP Kelly Associates Mgmt Group

1. CALL TO ORDER

Chairman Collings called the meeting to order at 10:01 a.m.

- 2. PLEDGE OF ALLEGIANCE Director Frank Ury
- 3. ORAL COMMUNICATIONS None

The Board of Directors convened to Closed Session at 10:03 a.m.

- 4. CLOSED SESSION
 - A. A Closed Session was held pursuant to Government Code § 54957.
 - Public Employee Performance Evaluation

 Title: Acting General Manager/Director of Operations

The Board of Directors reconvened to Open Session convened at 11:05 a.m.

- B. Report Out of Closed Session There were no reportable actions.
- 6. OTHER MATTERS

None.

7. ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 11:06 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 Board of Directors on July 25, 2024, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Project Committee No. 2 Meeting

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July 15, 2024 1:00 p.m.

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee 2 was held on July 15, 2024, at 1:00 p.m. in person at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 2 were present:

ROD WOODS SCOTT GOLDMAN FRANK URY	Moulton Niguel Water District South Coast Water District Santa Margarita Water District	Alternate Director Director Director
Staff Participation: JIM BURROR RONI GRANT MATT CLARKE DANITA HIRSH	Director of Operations Associate Engineer IT Administrator Executive Assistant	
Also Participating: ADRIANA OCHOA	Procopio Law	

ADRIANA OCHOAProcopio LawROSEMARY ROBINSONProcopio LawDARA HENDRIXBRG (Global Consulting Firm)DON BUNTSSanta Margarita Water District

1. Call Meeting to Order

Chairman Collings called the meeting to order at 1:06 p.m.

2. Public Comments

None.

The PC 2 Committee Members convened to Closed Session at 1:07 p.m.

3. <u>Closed Session</u>

A Closed Session Conference was held with Legal Counsel regarding an anticipated Litigation of one potential matter pursuant to Gov. Code 54956.9(d)(2)).

The PC 2 Committee Members reconvened to the Open Session at 2:21 p.m.

There were no reportable actions.

4. Adjournment

There being no further business, Chairman Ury adjourned the meeting at 2:22 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 Project Committee No. 2 of July 15, 2024, and approved by the Project Committee No. 2, and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

MINUTES OF REGULAR MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Engineering Committee

April 11, 2024

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on April 11, 2024, 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:

HANNAH FORD MARK McAVOY ROD WOODS DON BUNTS MARC SERNA	El Toro Water District City of Laguna Beach Moulton Niguel Water District Santa Margarita Water District South Coast Water District
Absent:	
DAVE REBENSDORF	City of San Clemente

DAVE REBENSDORF MIKE DUNBAR

Staff Present:

JIM BURROR AMBER BOONE **RONI GRANT** JEANETTE COTINOLA MARY CAREY KONSTANTIN SHILKOV ANNA SUTHERLAND JACK BECK MATT CLARKE DANITA HIRSH

Emerald Bay Service District

Acting General Manager/Director of Operations **Director of Environmental Compliance** Associate Engineer **Procurement/Contracts Manager Finance Controller** Senior Accountant Accounts Payable Staff Accountant IT Administrator

Also Present:

KEVIN DAVIS TARYN KJOLSING ROGER BUTOW SAUNDRA JACOBS SHERRY WANNINGER Procopio Law South Coast Water District Clean Water Now (CWN) Santa Margarita Water District Moulton Niguel Water District

Executive Assistant

1. Call Meeting to Order

Ms. Roni Grant, Associate Engineer, called the meeting to order at 8:30 a.m.

2. Public Comments

None.

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3. <u>Approval of Minutes</u>

• Engineering Committee Minutes of March 14, 2024.

ACTION TAKEN

A motion was made by Mr. Woods and seconded by Ms. Ford to approve the Engineering Committee Minutes for March 14, 2024, as corrected.

Motion carried:	Aye 4, Nay 0, Abs	lay 0, Abstained 1, Absent 2	
	Mr. McAvoy	Abstain	
	Ms. Ford	Aye	
	Mr. Dunbar	Absent	
	Mr. Woods	Aye	
	Mr. Bunts	Aye	
	Mr. Serna	Aye	
	Mr. Rebensdorf	Absent	

4. Operations Report

Mr. Jim Burror, Acting General Manager/Director of Operations, reported that staff continues working on budgets. He noted the sewage coming into the plant is currently more septic than it was in the past. There are high levels of filaments in the treatment plants, and bleach is required to manage treatment. An open discussion ensued.

This was an information item; no action was taken.

5. Draft Salt and Nutrient Management Plan [Project Committee 12]

Ms. Amber Boone, Director of Environmental Compliance, provided an update on the Salt and Nutrient Management Plan's (SNMP's) development plan and permitting and monitoring requirements. An open discussion ensued.

Public Speaker: Roger Butow, Clean Water Now (CWN)

This was an information item; no action was taken.

6. <u>Capital Improvement Construction Projects Progress and Change Order Report (April)</u> [Project Committees 2, 5, 15 and 24]

Ms. Grant provided an update on the JBL Centrate Line Upgrades, CTP Diffusers Replacement, and the Aliso Creek and San Juan Creek Ocean Outfalls Ballast Maintenance. An open discussion ensued.

This was an information item; no action was taken.

7. <u>Contract Award for Regional Treatment Plant (RTP) Flare System Upgrades</u> [Project Committee 17]

The PC 17 Engineering Committee members suggested increasing the contingency from 10% to 20% to account for any possible unknowns.

ACTION TAKEN

A motion was made by Mr. McAvoy and seconded by Ms. Ford to recommend that the PC 17 Board i) approve a contract to SCS/RMC for a total not to exceed \$74,470 and ii) approve a 20% contingency of \$14,894 for the RTP Flare System Upgrades Project.

Aye 4, Nay 0, Abstained 0, Absent 1		
Mr. McAvoy	Aye	
Ms. Ford	Aye	
Mr. Dunbar	Absent	
Mr. Woods	Aye	
Mr. Serna	Aye	
	Mr. McAvoy Ms. Ford Mr. Dunbar Mr. Woods	

8. J.B. Latham Treatment Plant (JBL) Package B Update [Project Committee 2]

Mr. Burror reported that the PC 2 Board met in Closed Session on April 10; however, there was nothing to report. Ms. Grant noted that the staff is working with Butier Engineering to close out this project. An open discussion ensued.

This was an information item; no action was taken.

9. Capital Improvement Program (CIP) Budget Update

Mr. Burror provided an update on the Capital Improvement Program (CIP), including all comments and feedback from member agencies. An open discussion ensued.

This was an information item; no action was taken.

Adjournment

There being no further business, Ms. Grant adjourned the meeting at 9:12 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 April 11, 2024, and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Board Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Finance Committee

April 30, 2024

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on April 30, 2024, at 1:00 p.m. in-person and via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present:

GAVIN CURRAN	City of Laguna Beach	Alternate Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
SAUNDRA JACOBS	Santa Margarita Water District	Alternate Director
JENNIFER LEISZ	South Coast Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director [arrived @ 1:04 p.m./exited @ 2:44 p.m.]

Staff Participation: JIM BURROR MARY CAREY AMBER BOONE RONI GRANT JACK BECK ANNA SUTHERLAND KONSTANTIN SHILKOV DINA ASH MATT CLARKE	Acting General Manager Finance Controller Director of Environmental Compliance Associate Engineer Staff Accountant Accounts Payable Senior Accountant HR Administrator IT Administrator
Also Participating:	
ADRIANA OCHOA	Procopio Law
KELSEY DECASAS	Moulton Niguel Water District
PAUL ESPINOZA	City of Laguna Beach
SHERRY WANNINGER	Moulton Niguel Water District
SCOTT GOLDMAN	South Coast Water District
ROD WOODS	Moulton Niguel Water District
KATHRYN FRESHLEY	El Toro Water District
MARC SERNA	South Coast Water District

1. Call Meeting to Order

Director Jacobs called the meeting to order at 1:00 p.m.

2. Public Comments

None.

3. Approval of Minutes

• Finance Committee Meeting of March 19, 2024.

ACTION TAKEN

A motion was made by Director Cafferty and seconded by Director Curran to approve the Minutes for March 19, 2024, as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 1	
	Director Jacobs	Aye
	Director Curran	Aye
	Director Cafferty	Aye
	Director Collings	Absent
	Director Leisz	Aye

4. FY 2024-25 Budget Update

Ms. Carey, Finance Controller, discussed historical administration cost allocations from the inception of SOCWA to the present, stating that before 2016, there was no separate administrative budget; the administrative costs were included in the Project Committees. An open discussion ensued.

An open discussion ensued regarding General Fund budget allocation methodology, cost allocation, and accounting and finance practices for a JPA.

Director Cafferty suggested keeping with SOCWA's recommendation as a baseline for the General Fund with the following exceptions (Finance Committee Members were in concurrence):

- Remove Management Support \$100,000
- Remove Accounting Staff (i.e., Accounts Payable, Senior Accountant, Staff Accountant)
- Increase Controller's time from 5% to 25%
- Leave Executive Assistant time at 60%
- Leave the General Manager's time at 50%
- Leave Audit time at 100%
- Add Memberships minus WEROC

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Jacobs to consider recommending equal allocations based on Project Committee subdivided by ownership.

Motion failed:

Aye 2, Nay 3, Abstained 0, Absent 0Director JacobsAyeDirector CurranNayDirector CaffertyNayDirector CollingsAyeDirector LeiszNay

ACTION TAKEN

A motion was made by Director Cafferty and seconded by Director Curran to present staff's proposed General Fund recommendations with the changes as recommended by the Finance Committee and establish workgroup sessions conducting regular meetings to address in detail allocation issues that have failed to be resolved in the past 10 years.

Proposed General Fund changes:

- Remove Management Support \$100,000
- Remove Accounting Staff (i.e., Accounts Payable, Senior Accountant, Staff Accountant)
- Increase Controller's time from 5% to 25%
- Leave Executive Assistant time at 60%
- Leave the General Manager's time at 50%
- Leave Audit time at 100%
- Add Memberships minus WEROC

Motion carried:	Aye 3, Nay 2, Abstained 0, Absent 0	
	Director Jacobs	No
	Director Curran	Aye
	Director Cafferty	Aye
	Director Collings	No
	Director Leisz	Aye

Director Collings and Director Jacobs noted for the record that they do not support the recommendation to the Board that passed with a 3/2 vote.

<u>Adjournment</u>

There being no further business, Chairperson Jacobs adjourned the meeting at 1:52 p.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 April 30, 2024, and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh / Assistant Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item



Board of Directors Meeting

Meeting Date: August 8, 2024

TO:Board of DirectorsFROM:Jim Burror, Acting General Manager/Director of OperationsSTAFF CONTACT:Mary Carey, Finance ControllerSUBJECT:Financial Reports for the Month of April 2024 and Q3 FY 2023-24
Cash Roll Forward

Summary/Discussion

The following selected financial reports are routinely provided monthly to the Finance Committee for recommendation to the Board of Directors to ratify Cash Disbursements and receive and file the remaining documents.

The reports included are as follows:

- a. Summary of Disbursements for April 2024 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Capital Schedule (Exhibit D)
 - Capital Projects Graph (Exhibit D-1)
- e. Budget vs. Actual Expenses:
 - > Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - > Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
- f. Cash Roll Forward Q3 FY 2023-24
 - Cash Roll Forward Notes
 - > Large Capital Cash Reconciliation to the General Ledger
 - Large Capital Cash Roll Forward Balance by PC, Member Agency, and Project
 - Small Capital Cash Roll Forward Balance by PC, Member Agency, and Project
 - > Non-Capital Cash Roll Forward Balance by PC, Member Agency, and Project

Fiscal Impact

April 2024 cash disbursements were \$1,967,764.

- Monthly disbursements are summarized in the attached Exhibit A.
- The attached Exhibits B, C, D, and E are informational reports only.

Recommended Action: The Finance Committee recommends that the Board of Directors (i) receive and file the April 2024 Financial Reports, (ii) ratify the April 2024 disbursement for the period from April 1, 2024, through April 30, 2024, totaling \$1,967,764, (iii) receive and file the Fiscal Year 2023-24 Q3 Cash Roll Forward as submitted.

Exhibit A

South Orange County Wastewater Authority Summary of Disbursements for April 2024 Staff Recommendation of Fiscal Matters

	Actual
General Fund	\$ (864,388)
PC 2 - Jay B. Latham Plant	(382,469)
PC 5 - San Juan Creek Ocean Outfall	(8,192)
PC 8 - Pretreatment Program	(2,334.44)
PC 12 SO - Water Reclamation Permits	(31,196)
PC 15 - Coastal Treatment Plant/AWT	(190,873)
PC 17 - Joint Regional Wastewater Reclamation	(459,749)
PC 21 - Effluent Transmission Main	(15,810)
PC 23 - North Coast Interceptor	-
PC 24 - Aliso Creek Ocean Outfall	(12,754)
Total	\$ (1,967,764)

Exhibit B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT as of April 30, 2024

TOTAL CASH IN BANK	\$ 14,781,441
FUND REQUIREMENTS: BILLS FOR CONSIDERATION	 (1,967,764)
DEPOSITS, TRANSFERS & ADJUSTMENTS:	1,961,987
L.A.I.F. FUNDS: (BEGINNING BAL.)	13,082,918
CASH IN BANK: (BEGINNING BAL.)	\$ 1,704,300

In accordance with Government Code 53646(c), since all funds are placed in the State LAIF, staff has included in the Financial Packet, the most current statement from the State LAIF, in lieu of the report required by Government Code 53646(b)(1).

In accordance with requirements of the Government Code and the "SOCWA Investment Policy", I hereby certify that:

- 1). All investment actions executed since the last report have been made in full compliance with the Investment Policy.
- 2). SOCWA does not have sufficient funds currently on hand to meet its expenditure obligations for the next six months (see note) due to the fact that SOCWA bills and receives operational funds on a quarterly basis only.

Jim Burror Acting General Manager/Director of Operations

<u>Note:</u> Operational funds are collected on a quarterly basis at the beginning of the quarter. Capital funds are collected on a quarterly basis in connection with projected needs. Member agencies have pledged to have funds available to meet all obligations.



PMIA/LAIF Performance Report as of 5/15/24



Quarterly Performance Quarter Ended 03/31/24

PMIA Average Monthly Effective Yields⁽¹⁾

LAIF Apportionment Rate ⁽²⁾ :	4.30	April	4.272
LAIF Earnings Ratio ⁽²⁾ :	0.00011755619077389	March	4.232
LAIF Administrative Cost ^{(1)*} :	0.27	February	4.122
LAIF Fair Value Factor ⁽¹⁾ :	0.994191267	January	4.012
PMIA Daily ⁽¹⁾ :	4.22	December	3.929
PMIA Quarter to Date ⁽¹⁾ :	4.12	November	3.843
PMIA Average Life ⁽¹⁾ :	226		

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 4/30/24 \$171.5 billion

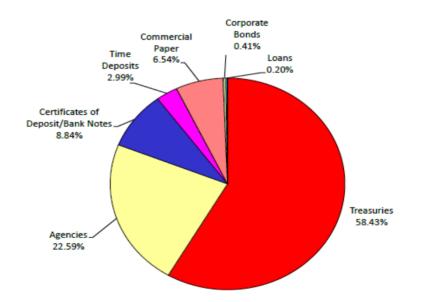


Chart does not include \$1,969,000.00 in mortgages, which equates to 0.001%. Percentages may not total 100% due to rounding.

Daily rates are now available here. View PMIA Daily Rates

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

*The percentage of administrative cost equals the total administrative cost divided by the quarterly interest earnings. The law provides that administrative costs are not to exceed 5% of quarterly EARNINGS of the fund. However, if the 13-week Daily Treasury Bill Rate on the last day of the fiscal year is below 1%, then administrative costs shall not exceed 8% of quarterly EARNINGS of the fund for the subsequent fiscal year.

Source: ⁽¹⁾ State of California, Office of the Treasurer ⁽²⁾ State of California, Office of the Controller

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Exhibit C

South Orange County Wastewater Authority Schedule of Cash and Investments as of April 30, 2024

MVA	\$ 748,209	(A)
A/P Checking Payroll Checking	1,493,338 126,544	(B) (C)
State LAIF	 12,413,350	(D)
Total Cash in Bank ¹	\$ 14,781,441	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 14,783,041	
OPEB Trust	6,723,194	(F)
Total Cash and Investments	\$ 21,506,235	

¹Bank balance at the end of a month may differ from an accounting closing balance as there may be in-transit items that haven't cleared the bank.

Notes:

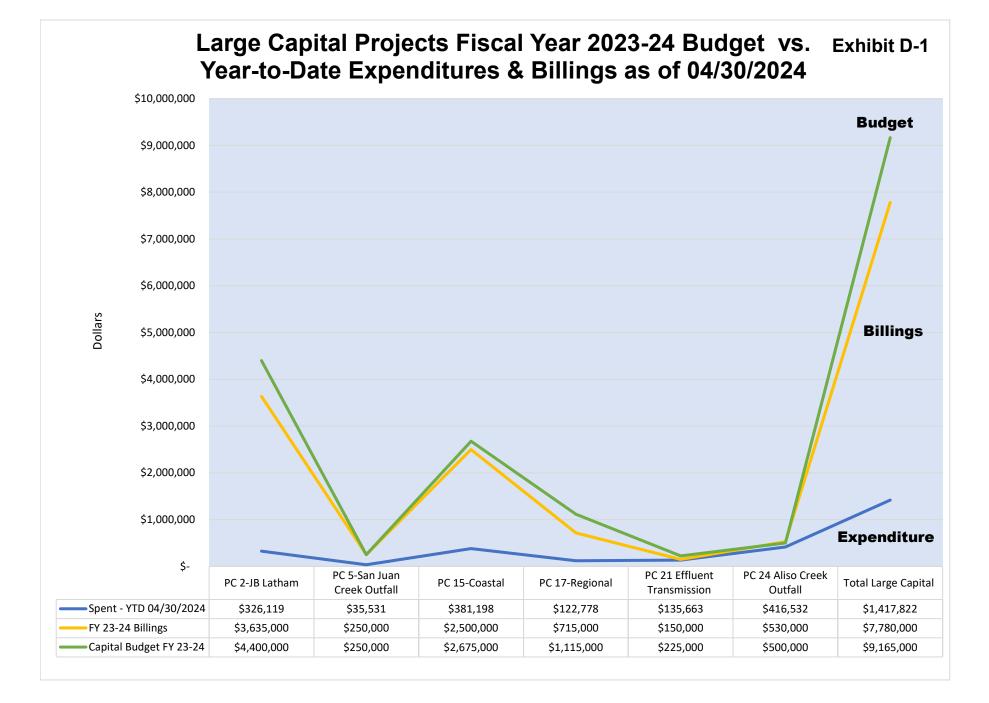
- (A) Interest bearing account; all cash receipts are deposited in this account and later moved to the LAIF account.
- (B) Accounts Payable Checks are drawn against this account; money is transferred to this account, as needed, from the LAIF account.

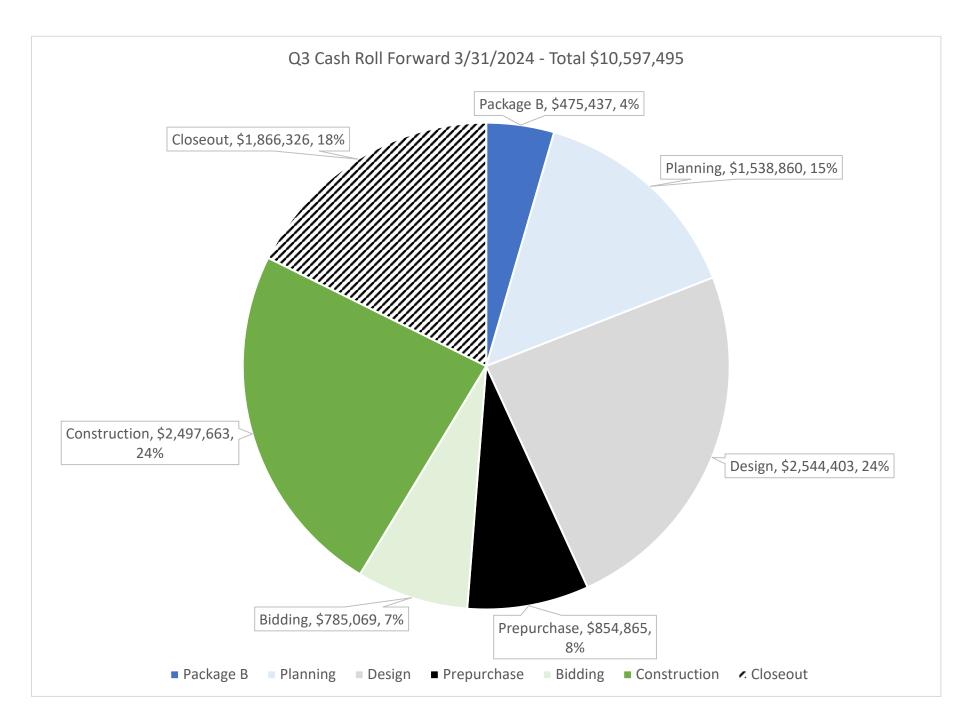
Payroll including payroll taxes and related liabilities are drawn against
 this account; money is transferred into this account, as needed, from the LAIF account.

- (D) California State Local Agency Investment Fund (LAIF) balance.
- (E) Cash on hand with GM's office and held by Chief Operators at each Treatment facility.
- (F) OPEB Trust Fund; these funds can only be used for Retiree Health Benefits.

South Orange County Wastewater Authority Capital Projects Summaries For the Period Ended April 30, 2024 (in dollars)

					FY 2023-24	Budget vs	. A	ctual Spe	nd	ing		
Description	Ca	oital Budget	 cal Year ending	(0)ver)/ Under Budget	% Expended	Ag	Member Jency Billed	C	Member Agency collections	Open ceivables	% Expended vs. Billed
PC 2-JB Latham	\$	4,400,000	\$ 326,119	\$	4,073,881	7.4%	\$	3,635,000	\$	3,547,885	\$ 87,115	9.0%
PC 5-San Juan Creek Outfall		250,000	35,531		214,469	14.2%		250,000		162,470	87,530	14.2%
PC 15-Coastal		2,675,000	381,198		2,293,802	14.3%		2,500,000		2,441,492	58,508	15.2%
PC 17-Regional		1,115,000	122,778		992,222	11.0%		715,000		715,000	-	17.2%
PC 21 Effluent Transmission		225,000	135,663		89,337	60.3%		150,000		150,000	-	90.4%
PC 24 Aliso Creek Outfall		500,000	416,532		83,468	83.3%		530,000		469,272	60,728	78.6%
Total Large Capital	\$	9,165,000	\$ 1,417,822	\$	7,747,178	15.5%	\$	7,780,000	\$	7,486,119	\$ 293,881	18.2%
Non-Capital Engineering Small Internal Capital		905,000 2,013,000	94,286 1,507,667		810,714 505,333	10.4% 74.9%		676,250 2,013,000		526,946 1,675,189	149,304 337,811	13.9% 74.9%
Total Capital	\$	12,083,000	\$ 3,019,774	\$	9,063,226	25.0%	\$	10,469,250	\$	9,688,254	\$ 780,996	28.8%





O & M & Environmental Safety Costs Summary¹ For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe								
-5000--**-**	Regular Salaries-O&M	5,065,446		5,065,446	4,002,957	1,062,489	79.0%	
-5001--**	Overtime Salaries-O&M	82,008		82,008	121,470	(39,462)	148.1%	(1)
-5306--**	Scheduled Holiday Work	68,376		68,376	63,886	4,490	93.4%	(4)
-5315--** **-5401-**-**	Comp Time - O&M	17,628		17,628	38,498	(20,870)	218.4%	(1)
-5700--**	Fringe Benefits IN to PC's & Depts. Standby Pay	2,731,721 104,000		2,731,721 104,000	2,261,671 86,500	470,050 17,500	82.8% 83.2%	
0100	Total Payroll Costs	8,069,179	-	8,069,179	6,574,982	1,494,197	81.5%	
Other Expenses								
-5002--**	Electricity	1,260,000	75,000	1,335,000	1,284,556	50,444	96.2%	(2)
-5003--**	Natural Gas	490,500	40,000	530,500	314,833	215,667	59.3%	(=)
-5004--**-	Potable & Reclaimed Water	78,000		78,000	62,822	15,178	80.5%	
-5005--**	Co-generation Power Credit	(1,302,000)		(1,302,000)	(815,779)	(486,221)	62.7%	
-5006--**	Chlorine/Sodium Hypochlorite	181,000		181,000	220,840	(39,840)	122.0%	(3)
-5007--**	Polymer Products	1,040,000	50,000	1,090,000	971,505	118,495	89.1%	(3)
-5008--** **-5009-**-**	Ferric Chloride Odor Control Chemicals	880,000	90,000	970,000	996,137	(26,137)	102.7%	(3)
-5010--**	Odor Control Chemicals Other Chemicals - Misc.	155,000 2,000	45,000	200,000 2,000	190,746 126	9,254 1,874	95.4% 6.3%	
-5011--**	Laboratory Services	56,632		56,632	37,744	18,888	66.6%	
-5012--**	Grit Hauling	132,500		132,500	130,334	2,166	98.4%	(4)
-5013--**	Landscaping	211,000		211,000	173,703	37,297	82.3%	(.)
-5015--**-	Management Support Services	527,000	52,987	579,987	159,753	420,234	27.5%	
-5016--**-	Audit - Environmental	1,304		1,304	-	1,304	0.0%	
-5017--**	Legal Fees	30,672	5,000	35,672	14,146	21,526	39.7%	
-5018--**	Public Notices/ Public Relations	1,500		1,500	-	1,500	0.0%	
-5019--**	Contract Services Misc.	372,996		372,996	284,061	88,935	76.2%	
-5021--**	Small Vehicle Expense	24,128		24,128	40,082	(15,953)	166.1%	
-5022--** **-5023-**-**	Miscellaneous Expense Office Supplies - All	16,032 48,000		16,032 48,000	3,255 32,672	12,777 15,328	20.3% 68.1%	
**-5023	Petroleum Products	27,000		27,000	18,406	8,594	68.2%	
-5025--**	Uniforms	78,000		78,000	85,635	(7,635)	109.8%	
-5026--**	Small Vehicle Fuel	20,272		20,272	17,030	3,242	84.0%	
-5027--**	Insurance - Property/Liability	535,873	10,000	545,873	566,662	(20,789)	103.8%	(5)
-5028--**	Small Tools & Supplies	77,668		77,668	46,230	31,438	59.5%	
-5030--**	Trash Disposal	9,000		9,000	10,187	(1,187)	113.2%	
-5031--**	Safety Program & Supplies	114,956		114,956	89,818	25,138	78.1%	
-5032--** **-5033-**-**	Equipment Rental Recruitment	7,000 2,300		7,000	3,496	3,504	49.9%	
-5033 **-5034-**-**	Travel Expense/Tech. Conferences	2,300 75,078		2,300 75,078	- 21,995	2,300 53,083	0.0% 29.3%	
-5035--**	Training Expense	50,479		50,479	48,205	2,275	95.5%	
-5036--**	Laboratory Supplies	127,092		127,092	145,200	(18,108)	114.2%	(9)
-5037--**	Office Equipment	27,000		27,000	4,766	22,234	17.7%	(-)
-5038--**	Permits	635,836	15,000	650,836	634,191	16,645	97.4%	(6)
-5039--**	Membership Dues/Fees	13,153		13,153	24,354	(11,201)	185.2%	(7)
-5044--**	Offshore Monitoring	81,604		81,604	71,284	10,320	87.4%	
-5045--**	Offshore Biochemistry - 20B	22,500		22,500	1,951	20,549	8.7%	
-5046--** **-5047-**-**	Effluent Chemistry	50,948		50,948	38,361	12,587	75.3%	
-5047 **-5048-**-**	Access Road Expenses Storm Damage	45,000 20,000		45,000 20,000	6,746	38,254 20,000	15.0% 0.0%	
-5049--**	Biosolids Disposal	1,747,500	30,000	1,777,500	- 1,445,403	332,097	81.3%	(8)
-5050--**-	Contract Services Generators - 29A	23,000	00,000	23,000	7,437	15,563	32.3%	(0)
-5052--**-	Janitorial Services	95,000		95,000	80,839	14,161	85.1%	
-5053--**-	Contract Serv - Digester Cleaning - 29E	80,000		80,000	-	80,000	0.0%	
-5054--**	Diesel Truck Maint	43,000		43,000	36,873	6,127	85.8%	
-5055--**	Diesel Truck Fuel	11,800		11,800	9,534	2,266	80.8%	
-5056--**	Maintenance Equip. & Facilities (Solids)	300,000		300,000	141,029	158,971	47.0%	
-5057--**	Maintenance Equip. & Facilities (Liquids)	510,000		510,000	391,871	118,129	76.8%	
-5058--**	Maintenance Equip. & Facilities (Common)	92,008		92,008	55,826	36,182	60.7%	
-5059--** **-5060-**-**	Maintenance Equip. & Facilities (Co-Gen) Maintenance Equip. & Facilities (AWT)	836,700 39,000		836,700 39,000	704,980 11,421	131,720 27,579	84.3% 29.3%	
-5060 **-5061-**-**	Maintenance Equip. & Facilities (AWT) Mileage	2,900		2,900	1,410	1,490	29.3% 48.6%	
-5068--**-	MNWD Potable Water Supplies & Svcs.	44,880		44,880	29,412	15,468	65.5%	
		,200		,250	,	,		

O & M & Environmental Safety Costs Summary¹

For the Period Ended April 30, 2024

(in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
-5076--**-**	SCADA Infrastructure	93,600		93,600	81,922	11,678	87.5%	
-5077--**-	IT Direct	45,000		45,000	52,203	(7,203)	116.0%	(6)
-5105--**-	Co-Generation Power Credit - Offset	1,302,000		1,302,000	815,779	486,221	62.7%	
-5303--**-	Group Insurance Waiver	14,400		14,400	-	14,400	0.0%	
-5305--**-	Medicare Tax Payments for Employees	152		152	-	152	0.0%	
-5309--**-**	Operating Leases	20,000		20,000	20,945	(945)	104.7%	
-5705--**-	Monthly Car Allowance	31,200		31,200	21,033	10,167	67.4%	
-5797--**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(69,750)	69,750	0.0%	
-5799--**-**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)		(14,000)	0.0%	
-6500--**-**	IT Allocations in to PC's & Depts.	620,553		620,553	490,831	129,722	79.1%	
	Total Other Expenses	12,165,718	412,987	12,578,705	10,265,053	2,313,652	81.6%	
	Total O&M Expenses	20,234,898	412,987	20,647,885	16,840,035	3,807,850	81.6%	ı

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) Staff overtime was elevated due to three (3) nighttime shutdowns to support the ACOO internal repair project and two (2) projects at JBL.

(2) Increases in power costs approved by the CPUC are above assumed increased rates.

(3) Usage is elevated due to the septicity of the sewage entering plants that started this FY and discussed with the Engineering Committee.

(4) Several larger O&M projects were completed prior to the rainy season.

(5) CSRMA's Insurance cost actuals were higher than projected with the approval of the Budget.

(6) Annual charges incurred at the beginning of the Fiscal Year and at the end of the calendar year.

(7) Twice as many employees joined trade orgaizations than in the past and budgeted for.

(8) Biosolids costs are increased due to landfill closures on hotter days. This new type of closure was instituted in May 2023 at the landfill

to help mitigate odor complaints at the landfill and was not anticipated with the preparation of the Budget.

(9) Inflation-driven cost increases and TNI accreditation compliance costs. Lab supplies for member agencies are resolved in the use audit.

O&M Budget vs. Actual Comparison by PC¹ For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
Jay B. Latham Plant							
Salary and Fringe	Develop Colorian ORM	4 705 000		4 705 000	4 000 000	445 000	70 70/
02-5000-**-**-** 02-5001-**-**-**	Regular Salaries-O&M Overtime Salaries-O&M	1,785,000 27,208		1,785,000 27,208	1,369,002 46,963	415,998 (19,755)	76.7% 172.6%
02-5306-**-**	Scheduled Holiday Work	30.000		30.000	27,734	2,266	92.4%
02-5315-**-**	Comp Time - O&M	8,604		8,604	12,831	(4,227)	149.1%
02-5401-**-**	Fringe Benefits IN to PC's & Depts.	962,625		962,625	773,486	189,139	80.4%
02-5700-**-**-**	Standby Pay	37,846		37,846	31,900	5,946	84.3%
	Total Payroll Costs	2,851,283	-	2,851,283	2,261,915	589,367	79.3%
Other Expenses							
02-5002-**-**	Electricity	660,000		660.000	651.648	8,352	98.7%
02-5003-**-**	Natural Gas	252,000		252,000	133,979	118,021	53.2%
02-5004-**-**	Potable & Reclaimed Water	27.000		27.000	20.204	6,796	74.8%
02-5006-**-**	Chlorine/Sodium Hypochlorite	21,000		21,000	55,942	(34,942)	266.4%
02-5007-**-**	Polymer Products	390,000		390,000	385,418	4,582	98.8%
02-5008-**-**	Ferric Chloride	300,000		300,000	328,827	(28,827)	109.6%
02-5009-**-**	Odor Control Chemicals	38,000		38,000	28,468	9,532	74.9%
02-5010-**-**	Other Chemicals - Misc.	1,000		1,000	-	1,000	0.0%
02-5011-**-**	Laboratory Services	20,108		20,108	6,842	13,266	34.0%
02-5012-**-**	Grit Hauling	70,500		70,500	80,364	(9,864)	114.0%
02-5013-**-**	Landscaping	68,000		68,000	58,991	9,009	86.8%
02-5015-**-**	Management Support Services	16,500		16,500	17,302	(802)	104.9%
02-5017-**-** 02-5019-**-**	Legal Fees Contract Services Misc.	5,000 129,000		5,000 129,000	472 102,416	4,528 26,584	9.4% 79.4%
02-5021-**-**	Small Vehicle Expense	129,000		129,000	16,739	(5,739)	152.2%
02-5022-**-**	Miscellaneous Expense	8,000		8,000	1,674	6,326	20.9%
02-5023-**-**	Office Supplies - All	30,000		30,000	17,099	12,901	57.0%
02-5024-**-**	Petroleum Products	11,000		11,000	1,788	9,212	16.3%
02-5025-**-**	Uniforms	36,000		36,000	38,696	(2,696)	107.5%
02-5026-**-**-**	Small Vehicle Fuel	8,000		8,000	6,002	1,998	75.0%
02-5027-**-**	Insurance - Property/Liability	188,606		188,606	202,748	(14,142)	107.5%
02-5028-**-**	Small Tools & Supplies	35,000		35,000	12,611	22,389	36.0%
02-5030-**-**-	Trash Disposal	3,000		3,000	3,118	(118)	103.9%
02-5031-**-**	Safety Program & Supplies	40,032		40,032	34,252	5,780	85.6%
02-5032-**-**	Equipment Rental	3,000		3,000	-	3,000	0.0%
02-5033-**-**	Recruitment	1,000		1,000	-	1,000	0.0%
02-5034-**-**	Travel Expense/Tech. Conferences	18,163		18,163	8,056	10,107	44.4%
02-5035-**-**-** 02-5036-**-**-**	Training Expense Laboratory Supplies	15,420 21,412		15,420 21,412	15,264 23,620	156 (2,208)	99.0% 110.3%
02-5036	Office Equipment	14.000		14.000	4,551	9,449	32.5%
02-5037	Permits	27.032		27.032	24,559	9,449	90.9%
02-5039-**-**	Membership Dues/Fees	3,423		3,423	8,414	(4,991)	245.8%
02-5049-**-**	Biosolids Disposal	750,000		750,000	591,922	158.078	78.9%
02-5050-**-**	Contract Services Generators - 29A	10,000		10,000		10,000	0.0%
02-5052-**-**	Janitorial Services	43,000		43,000	34,893	8,107	81.1%
02-5053-**-**	Contract Serv - Digester Cleaning - 29E	15,000		15,000	-	15,000	0.0%
02-5054-**-**	Diesel Truck Maint	23,000		23,000	18,112	4,888	78.7%
02-5055-**-**	Diesel Truck Fuel	3,300		3,300	2,900	400	87.9%
02-5056-**-**	Maintenance Equip. & Facilities (Solids)	125,000		125,000	41,916	83,084	33.5%
02-5057-**-**	Maintenance Equip. & Facilities (Liquids)	200,000		200,000	161,487	38,513	80.7%
02-5058-**-**-** 02-5059-**-**-**	Maintenance Equip. & Facilities (Common)	30,000		30,000	24,662	5,338	82.2%
02-5059-**-** 02-5061-**-**	Maintenance Equip. & Facilities (Co-Gen)	297,000		297,000	240,801 771	56,199 629	81.1% 55.1%
02-5061-^^-^^	Mileage SCADA Infrastructure	1,400 31,200		1,400 31,200	25,664	5,536	55.1% 82.3%
02-5076	IT Direct	15,000		15,000	16,443	(1,443)	109.6%
02-5303-**-**	Group Insurance Waiver	3,600		3,600	10,443	3,600	0.0%
02-5309-**-**	Operating Leases	20,000		20,000	20,945	(945)	104.7%
02-5705-**-**	Monthly Car Allowance	18,600		18,600	11,162	7,438	60.0%
02-5797-**-**	Verily Stipends - WastewaterSCAN Monitoring	0,000			(23,250)	23,250	100.0%
02-5799-**-**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)	(==,=50)	(14,000)	0.0%
02-6500-**-**	IT Allocations in to PC's & Depts.	218,718		218,718	172,997	45,721	79.1%
	Total Other Expenses	4,263,015	-	4,263,015	3,631,490	631,525	85.2%
	Total Expenses	7,114,298		7,114,298	5,893,406	1,220,892	82.8%

O&M Budget vs. Actual Comparison by PC¹ For the Period Ended April 30, 2024 (in dollars)

		(in doild	-,				
		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
05 - San Juan Creek Oce	0 // II						
15 - San Juan Creek Oce Salary and Fringe	an Outfall						
05-5000-**-**	Regular Salaries-O&M	145,529		145,529	102,227	43,302	70.2%
05-5001-**-**	Overtime Salaries-O&M	72		72	1,392	(1,320)	1933.9% (
05-5306-**-**	Scheduled Holiday Work	468		468	95	373	20.4%
05-5315-**-**	Comp Time - O&M	-			476	(476)	100.0% (
05-5401-**-**	Fringe Benefits IN to PC's & Depts. Total Payroll Costs	78,482		78,482 224,551	57,759 161,950	20,723 62,601	73.6%
		224,001		224,001	101,000	02,001	72.170
Other Expenses	Management Compared Campions	110.000		110.000	25 704	74.040	20.5%
05-5015-**-** 05-5017-**-**	Management Support Services Legal Fees	110,000		110,000	35,781	74,219 7,000	32.5% 0.0%
05-5022-**-**	Miscellaneous Expense	7,000		7,000	-	7,000	100.0%
05-5022	Insurance - Property/Liability	21,282		21,282	22,072	(790)	103.7% (
05-5031-**-**	Safety Supplies	1,020		1,020		1,020	0.0%
05-5034-**-**	Travel Expense/Tech. Conferences	5,696		5,696	2,938	2,758	51.6%
05-5035-**-**	Training Expense	1,087		1,087	39	1,048	3.6%
05-5036-**-**	Laboratory Supplies	33,500		33,500	32,461	1,039	96.9% (
05-5038-**-**	Permits	302,496		302,496	296,410	6,087	98.0% (
05-5039-**-**	Membership Dues/Fees	1,000		1,000	166	835	16.5%
05-5044-**-**-	Offshore Monitoring	40,800		40,800	35,642	5,158	87.4%
05-5045-**-**	Offshore Biochemistry - 20B	7,500		7,500	976	6,524	13.0%
05-5046-**-**	Effluent Chemistry	28,000		28,000	21,141	6,859	75.5%
05-5058-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	-	1,004	0.0%
05-6500-**-**	IT Allocations in to PC's & Depts.	17,832		17,832	14,104	3,728	79.1%
	Total Other Expenses	578,218	-	578,218	461,728	116,489	79.9%
	Total Expenses	802,768	-	802,768	623,678	179,090	77.7%
8 - Pre Treatment							
Salary and Fringe							
08-5000-**-**-**	Regular Salaries-O&M	132,256		132,256	96,329	35,927	72.8%
08-5401-**-**	Fringe Benefits IN to PC's & Depts.	71,324		71,324	54,426	16,898	76.3%
	Total Payroll Costs	203,579	-	203,579	150,755	52,824	74.1%
Other Expenses							
08-5011-**-**-	Laboratory Services	3,064		3,064	1,760	1,304	57.4%
08-5015-**-**	Management Support Services	20,000		20,000	-	20,000	0.0%
08-5016-**-**	Audit - Environmental	1,304		1,304	-	1,304	0.0%
08-5017-**-**	Legal Fees	2,672		2,672	-	2,672	0.0%
08-5018-**-**	Public Notices/ Public Relations	1,500		1,500	-	1,500	0.0%
08-5021-**-**	Small Vehicle Expense - 31A	1,128		1,128	-	1,128	0.0%
08-5022-**-**	Miscellaneous Expense	2,032		2,032	62	1,970	3.0%
08-5026-**-**	Small Vehicle Fuel - 37A	1,272		1,272 7,170	- 7 207	1,272	0.0%
08-5027-**-** 08-5028-**-**	Insurance - Property/Liability Small Tools & Supplies	7,170 3,668		3,668	7,387 175	(217) 3,493	103.0% (4.8%
08-5034-**-**	Travel Expense/Tech. Conferences	3,500		3,500	1,571	3,493 1,929	4.8%
08-5035-**-**	Training Expense	2,044		2,044	2,929	(885)	0.0%
08-5038-**-**	Permits and Fines	508		508	2,020	508	0.0%
08-5039-**-**	Membership Dues/Fees	816		816	1,398	(582)	171.3%
08-6500-**-**	IT Allocations in to PC's & Depts.	16,205		16,205	12,818	3,388	79.1%
	Total Other Expenses	66,883	-	66,883	28,100	38,784	42.0%
	Total Expenses	270,462	-	270,462	178,854	91,608	66.1%
	Total Expenses	270,402	-	270,402	178,034	91,000	00.176
0 - San Clemente Land	Outfall						
Other Expenses 10-5017-**-**-**	Legal Fees		5,000	5,000		5,000	0.0%
10-3017	Total Other Expenses		5,000	5,000	-	5,000	0.0%
	Total Expenses		5,000	5,000	-	5,000	0.0%
2 - Water Reclamation I	Permits						
Salary and Fringe 12-5000-**-**-**	Deruise Orlering OSM	40.570		40.570	40,400	(00,500)	005.0%
12-5000	Regular Salaries-O&M Fringe Benefits IN to PC's & Depts.	13,572 7,319		13,572 7,319	40,160 22,691	(26,588) (15,371)	295.9% (310.0% (
12-3401	Total Payroll Costs	20,892	-	20,892	62,851	(41,959)	300.8%
Other Ever							
Other Expenses 12-5015-**-**-**	Management Support Services	35,000	52,987	87,987	38,286	49,701	43.5%
12-5015	Legal Fees	2,000	52,907	2,000	4,080	(2,080)	2.04
12-5027-**-**	Insurance - Property/Liability	2,000		2,000	4,030	(1,557)	162.9% (
12-5034-**-**	Travel Expense/Tech. Conferences	5,696		5,696	4,050	5,696	0.0%
12-5038-**-**	Permits	25,500		25,500	27,798	(2,297)	109.0% (
12-5039-**-**	Membership Dues/Fees	68		68		68	0.0%
12-6500-**-**-	IT Allocations in to PC's & Depts.	1,663		1,663	1,315	348	79.1%
	Total Other Expenses	72,401	52,987	125,388	75,509	49,879	60.2%
	Total Expenses	93,293	52,987	146,280	138,360	7,920	94.6%
	. star Expenses	30,280	52,301	140,200	100,000	1,320	34.070

O&M Budget vs. Actual Comparison by PC¹ For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
- Coastal Treatment P Salary and Fringe	lant						
15-5000-**-**	Regular Salaries-O&M	971,637		971,637	756,950	214,687	77.9%
15-5001-**-**-	Overtime Salaries-O&M	13,732		13,732	11,437	2,295	83.3%
15-5306-**-**	Scheduled Holiday Work	10,260		10,260	7,036	3,224	68.6%
15-5315-**-**	Comp Time - O&M	2,000		2,000	7,030	(5,730)	386.5% (11
15-5401-**-**	Fringe Benefits IN to PC's & Depts.	523,990		523,990	427,677	96,313	81.6%
15-5700-**-**-**	Standby Pay	18,462		18,462	15,775	2,687	85.4%
10-0700	Total Payroll Costs	1,540,081	-	1,540,081	1,226,605	313,476	79.6%
Other Expenses		1		,,	, .,		<u> </u>
15-5002-**-**	Electricity	300,000	15,000	315,000	332,757	(17,757)	105.6% (2)
15-5002	Natural Gas	3,500	15,000	18,500	2,316	16,184	12.5%
15-5003	Potable & Reclaimed Water	24,000	15,000	24,000	16,745	7,255	69.8%
15-5006-**-**-**	Chlorine/Sodium Hypochlorite	100,000		100,000	113,969	(13,969)	114.0% (3)
15-5007-**-**	Polymer Products	100,000		100,000	115,505	(13,303)	0.0%
15-5008-**-**	Ferric Chloride	- 105,000	15,000	120,000	143,305	(23,305)	119.4% (3)
15-5008	Odor Control Chemicals	50,000	20,000	70,000	89,011	(19,011)	127.2% (3)
15-5011-**-**-	Laboratory Services	10,000	20,000	10,000	8,940	1,060	89.4% (13
15-5012-**-**	Grit Hauling	22,000		22,000	16,729	5,271	76.0%
15-5013-**-**	Landscaping	63,000		63,000	54,315	8,685	86.2%
15-5015-**-**	Management Support Services	13,000		13,000	9,184	3,816	70.6%
15-5017-**-**	Legal Fees	5,000		5,000	5,104	5,000	0.0%
15-5019-**-**	Contract Services Misc.	110,000		110,000	89,782	20,218	81.6%
15-5021-**-**	Small Vehicle Expense - 31A	4,000		4,000	7,700	(3,700)	192.5% (5)
15-5022-**-**-	Miscellaneous Expense	1,000		1,000	573	427	57.3%
15-5023-**-**-	Office Supplies - All	5,000		5,000	4,599	401	92.0%
15-5024-**-**	Petroleum Products	4.000		4,000	.,000	4.000	0.0%
15-5025-**-**	Uniforms	10,000		10,000	11,983	(1,983)	119.8%
15-5026-**-**	Small Vehicle Fuel	2,000		2,000	2,293	(293)	114.6%
15-5027-**-**	Insurance - Property/Liability	79,422		79,422	83,165	(3,743)	104.7% (6)
15-5028-**-**	Small Tools & Supplies	9,000		9,000	11,525	(2,525)	128.1% (5)
15-5030-**-**	Trash Disposal	3,000		3,000	2,302	698	76.7%
15-5031-**-**	Safety Supplies	33,456		33,456	13,231	20,225	39.5%
15-5032-**-**	Equipment Rental	1,000		1,000	-	1,000	0.0%
15-5033-**-**	Recruitment	300		300	-	300	0.0%
15-5034-**-**	Travel Expense/Tech. Conferences	18,163		18,163	3,264	14,899	18.0%
15-5035-**-**	Training Expense	15,420		15,420	15,213	207	98.7% (5)
15-5036-**-**	Laboratory Supplies	20,000		20,000	27,233	(7,233)	136.2% (13
15-5037-**-**	Office Equipment	3,000		3,000	215	2,785	7.2%
15-5038-**-**	Permits	5,000		5,000	10,304	(5,304)	206.1%
15-5039-**-**	Membership Dues/Fees	3,423		3,423	6,549	(3,126)	191.3% (7)
15-5047-**-**	Access Road Expenses	45,000		45,000	6,746	38,254	15.0%
15-5048-**-**	Storm Damage	20,000		20,000	-	20,000	0.0%
15-5050-**-**	Contract Services Generators	5,000		5,000	5,111	(111)	102.2% (5)
15-5052-**-**-	Janitorial Services	15,000		15,000	14,361	639	95.7%
15-5054-**-**	Diesel Truck Maint - 31B	1,000		1,000	591	409	59.1%
15-5055-**-**	Diesel Truck Fuel - 37B	500		500	3,705	(3,205)	740.9%
15-5057-**-**	Maintenance Equip. & Facilities (Liquids)	110,000		110,000	72,360	37,640	65.8%
15-5058-**-**	Maintenance Equip. & Facilities (Common)	24,000		24,000	3,494	20,506	14.6%
15-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	39,000		39,000	11,421	27,579	29.3%
15-5061-**-**	Mileage	500		500	387	113	77.4%
15-5076-**-**	SCADA Infrastructure	31,200		31,200	28,129	3,071	90.2%
15-5077-**-**	IT Direct	15,000		15,000	16,443	(1,443)	109.6% (5)
15-5303-**-**	Group Insurance Waiver	3,600		3,600	-	3,600	0.0%
15-5705-**-**	Monthly Car Allowance	4,200		4,200	3,344	856	79.6%
15-5797-**-**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(23,250)	23,250	100.0%
15-6500-**-**	IT Allocations in to PC's & Depts.	119,057		119,057	94,168	24,889	79.1%
	Total Other Expenses	1,455,741	65,000	1,520,741	1,314,214	206,527	86.4%
	Total Expenses	2,995,822	65,000	3,060,822	2,540,818	520,003	83.0%

South Orange County Wastewater Authority O&M Budget vs. Actual Comparison by PC¹ For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
•	ewater Reclamation and Sludge Handling						
Salary and Fringe							
17-5000-**-**	Regular Salaries-O&M	1,884,409		1,884,409	1,537,424	346,985	81.6%
17-5001-**-**	Overtime Salaries-O&M	40,492		40,492	56,059	(15,567)	138.4%
17-5306-**-**	Scheduled Holiday Work	27,356		27,356	29,021	(1,665)	106.1%
17-5315-**-**	Comp Time - O&M	7,024		7,024	16,237	(9,212)	231.2%
17-5401-**-**	Fringe Benefits IN to PC's & Depts.	1,016,234		1,016,234	868,645	147,590	85.5%
17-5700-**-**	Standby Pay Total Payroll Costs	47,692 3,023,208	-	47,692 3,023,208	38,825 2,546,211	8,867 476,997	81.4% 84.2%
Other Expenses							
17-5002-**-**	Electricity	300,000	60,000	360,000	300,151	59,849	83.4%
17-5003-**-**	Natural Gas	235,000	25,000	260,000	178,539	81,461	68.7%
17-5004-**-**	Potable & Reclaimed Water	27,000	20,000	27,000	25,873	1,127	95.8%
17-5005-**-**	Co-generation Power Credit	(1,302,000)		(1,302,000)	(815,779)	(486,221)	62.7%
17-5006-**-**	Chlorine/Sodium Hypochlorite	60,000		60,000	50,929	9,071	84.9%
17-5000			50.000				
17-5007-**-**	Polymer Products	650,000	50,000	700,000	586,087	113,913	83.7%
	Ferric Chloride	475,000	75,000	550,000	524,005	25,995	95.3%
17-5009-**-**-**	Odor Control Chemicals	67,000	25,000	92,000	73,267	18,733	79.6%
17-5010-**-**	Other Chemicals - Misc.	1,000		1,000	126	874	12.6%
17-5011-**-**	Laboratory Services	23,460		23,460	20,202	3,258	86.1%
17-5012-**-**	Grit Hauling - 21A	40,000		40,000	33,242	6,759	83.1%
17-5013-**-**	Landscaping	80,000		80,000	60,397	19,603	75.5%
17-5015-**-**	Management Support Services	17,500		17,500	12,736	4,764	72.8%
17-5017-**-**	Legal Fees	5,000		5,000	9,166	(4,166)	183.3%
17-5019-**-**	Contract Services Misc.	115,000		115,000	91,863	23,137	79.9%
17-5021-**-**	Small Vehicle Expense	8,000		8,000	15,643	(7,643)	195.5%
17-5022-**-**-**	Miscellaneous Expense	5,000		5,000	946	4,054	18.9%
17-5023-**-**	Office Supplies - All	13,000		13,000	10,975	2,025	84.4%
17-5024-**-**	Petroleum Products	12,000		12,000	16,618	(4,618)	138.5%
17-5025-**-**	Uniforms	32,000		32,000	34,956	(2,956)	109.2%
17-5026-**-**	Small Vehicle Fuel	9,000		9,000	8,735	265	97.1%
17-5027-**-**	Insurance - Property/Liability	212,048	10,000	222,048	222,224	(176)	100.1%
17-5028-**-**	Small Tools & Supplies	30,000		30,000	21,918	8,082	73.1%
17-5030-**-**	Trash Disposal	3,000		3,000	4,766	(1,766)	158.9%
17-5031-**-**	Safety Supplies	39,428		39,428	42,335	(2,907)	107.4%
17-5032-**-**	Equipment Rental	3,000		3,000	3,496	(496)	116.5%
17-5033-**-**	Recruitment	1,000		1,000	-,	1,000	0.0%
17-5034-**-**	Travel Expense/Tech. Conferences	18,163		18,163	3,367	14,796	18.5%
17-5035-**-**	Training Expense	15,420		15,420	14,720	700	95.5%
17-5036-**-**	Laboratory Supplies	25,660		25,660	31,315	(5,655)	122.0%
17-5037-**-**				10,000	31,313	10,000	
17-5038-**-**	Office Equipment Permits	10,000	15,000		-		0.0%
		15,300	15,000	30,300	29,098	1,202	96.0%
17-5039-**-**	Membership Dues/Fees	3,423	00.000	3,423	7,662	(4,239)	223.8%
17-5049-**-**	Biosolids Disposal	997,500	30,000	1,027,500	853,480	174,020	83.1%
17-5050-**-**	Contract Services Generators - 29A	8,000		8,000	2,327	5,673	0.29
17-5052-**-**	Janitorial Services	37,000		37,000	31,585	5,415	85.4%
17-5053-**-**	Contract Serv - Digester Cleaning - 29E	65,000		65,000	-	65,000	0.0%
17-5054-**-**	Diesel Truck Maint	19,000		19,000	18,170	830	95.6%
17-5055-**-**	Diesel Truck Fuel	8,000		8,000	2,929	5,071	36.6%
17-5056-**-**	Maintenance Equip. & Facilities (Solids)	175,000		175,000	99,114	75,887	56.6%
17-5057-**-**	Maintenance Equip. & Facilities (Liquids)	200,000		200,000	158,024	41,976	79.0%
17-5058-**-**	Maintenance Equip. & Facilities (Common)	36,000		36,000	23,146	12,854	64.3%
17-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	539,700		539,700	464,179	75,521	86.0%
17-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	-		-	-	-	0.0%
17-5061-**-**-	Mileage	1,000		1,000	252	748	25.2%
17-5068-**-**	MNWD Potable Water Supplies & Svcs.	44,880		44,880	29,412	15,468	65.5%
17-5076-**-**	SCADA Infrastructure	31,200		31,200	28,129	3,071	90.2%
17-5077-**-**	IT Direct	15,000		15,000	19,318	(4,318)	128.8%
17-5105-**-**	Co-Generation Power Credit - Offset	1,302,000		1,302,000	815,779	486,221	62.7%
17-5303-**-**	Group Insurance Waiver	7,200		7,200		7,200	0.0%
17-5305-**-**	Medicare Tax Payments for Employees	152		152	-	152	0.0%
17-5305					6 500		
	Monthly Car Allowance	8,400		8,400	6,526	1,874	77.7%
17-5797-**-**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(23,250)	23,250	100.0%
17-6500-**-**-**	IT Allocations in to PC's & Depts.	230,899	<u> </u>	230,899	182,631	48,268	79.1%
	Total Other Expenses	4,975,334	290,000	5,265,334	4,331,328	934,006	82.3%
	Total Expenses	7,998,542	290,000	8,288,542	6,877,539	1,411,003	83.0%

O&M Budget vs. Actual Comparison by PC¹ For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
21 - Effluent Transmissio	n Main						
Other Expenses							
21-5017-**-**	Legal Fees	500	-	500	428	72	85.6%
21-5019-**-**	Contract Services Misc.	18,996	-	18,996	-	18,996	0.0%
21-5027-**-**	Insurance - Property/Liability		-	-	74	(74)	100.0% (6
	Total Other Expenses	19,496	-	19,496	502	18,994	2.6%
	Total Expenses	19,496	-	19,496	502	18,994	2.6%
23 - North Coast Intercep	tor						
Salary and Fringe							
23-5000-**-**-**	Regular Salaries-O&M	1,000	-	1,000	-	1,000	0.0%
23-5401-**-**	Fringe Benefits IN to PC's & Depts.	539	-	539	-	539	0.0%
	Total Payroll Costs	1,539	-	1,539	-	1,539	0.0%
ou =							
Other Expenses 23-5017-**-**	Legal Fees	500	_	500		500	0.0%
23-5017	Management Support Services	500	-	500	-	500	0.0%
23-3013	Total Other Expenses	500		500		500	0.0%
	Total Expenses	2,039	_	2,039	_	2,039	0.0%
		2,000	-	2,000	_	2,000	0.070
24 - Aliso Creek Ocean O	utfall						
Salary and Fringe							
24-5000-**-**-**	Regular Salaries-O&M	132,042		132,042	100,864	31,178	76.4%
24-5001-**-**	Overtime Salaries-O&M	504		504	5,618	(5,114)	1114.8% (:
24-5306-**-** 24-5315-**-**	Scheduled Holiday Work	292		292	-	292	0.0%
24-5315-**-**	Comp Time - O&M Fringe Benefits IN to PC's & Depts.	- 71,209		- 71,209	1,225 56,988	(1,225) 14,220	100.0% (: 80.0%
24-3401	Total Payroll Costs	204.047	-	204,047	164,696	39,351	80.7%
	Total Taylon Coolo			201,011	101,000	00,001	00.170
Other Expenses							
24-5015-**-**	Management Support Services	315,000		315,000	46,464	268,536	14.8%
24-5017-**-**	Legal Fees	3,000		3,000	-	3,000	0.0%
24-5027-**-**	Insurance - Property/Liability	24,872		24,872	24,962	(90)	100.4% (6
24-5031-**-**	Safety Supplies	1,020		1,020	-	1,020	0.0%
24-5034-**-** 24-5035-**-**	Travel Expense/Tech. Conferences	5,696		5,696 1,087	2,799 39	2,897	49.1% 3.6%
24-5036-**-**	Training Expense Laboratory Supplies	1,087 26,520		26,520	30,571	1,048 (4,051)	3.6% 115.3% (2
24-5038-**-**	Permits	260,000		260,000	246.023	13,977	94.6% (5
24-5039-**-**-	Membership Dues/Fees	1,000		1,000	240,023	835	16.5%
24-5044-**-**	Offshore Monitoring	40,804		40,804	35,642	5,162	87.3%
24-5045-**-**	Offshore Biochemistry - 20B	15,000		15,000	976	14,024	6.5%
24-5046-**-**	Effluent Chemistry	22,948		22,948	17,220	5,728	75.0%
24-5058-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	4,524	(3,520)	450.6% (
24-6500-**-**-**	IT Allocations in to PC's & Depts.	16,179		16,179	12,797	3,382	79.1%
	Total Other Expenses	734,131	-	734,131	422,182	311,949	57.5%
	Total Expenses	938,178	-	938,178	586,878	351,300	62.6%
	Total O&M Expenses	20,234,898	412.987	20,647,885	16.840.035	3,807,850	81.6%

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 O&M Budget vs. Actual Comparison by PC For the Period Ended April 30, 2024

- (1) Overtime for two (2) nighttime shutdowns to repair critical equipment during low flow hours.
- (2) Increases in power costs approved by the CPUC are above assumed increased rates.
- (3) Usage is elevated due to the septicity of the sewage entering plants that started this FY and discussed with the Engineering Committee.
- (4) Recent storms flushed an unexpected volume of grit into the treatment plant from the collection system.
- (5) Annual charges incurred at the beginning of the Fiscal Year and at the end of the calendar year.
- (6) CSRMA's Insurance cost actuals were higher than projected with the approval of the Budget.
- (7) Twice as many employees joined trade orgaizations than in the past and budgeted for.
- (8) Biosolids costs are increased due to landfill closures on hotter days in May 2023 at the landfill to help mitigate odor complaints at the landfill. Also, usually heavy rains have limited use of the landfill this winter.
- (9) O&M staff are supporting the testing of SCWD Doheny Desal slant wells. SCWD will be billed directly for the overtime support requested to divert test waters into SOCWA temporary ocean outfall system.
- (10) Salt and Nutrient Management Plan (SNMP) work effort is nearly complete for the year.
- (11) Staff overtime was elevated due to several nighttime shutdowns for the ACOO internal repair project.
- (12) Bleach usage elevated during the initial months of the Fiscal for summer AWT production at CTP.
- (13) Advanced Water Treatment routine and accelerated monitoring are dirving cost. All sampling except Q4 monitoring is complete, which should stabilize costs.
- (14) The Sampling Building door was replaced due to severe corrosion from the ocean air.
- (15) Inflation-driven cost increases and TNI accreditation compliance costs. Lab supplies for member agencies are resolved in the use audit.

South Orange County Wastewater Authority Budget vs. Actual Comparison - Engineering For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	194,546	53,368	141,178	27.4%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	104,916	30,153	74,763	28.7%
	Total Payroll Costs	299,462	83,521	215,941	27.9%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	2,000	649	1,351	32.4%
01-5034-03-00-00	Travel Expense/Tech. Conferences	8,500	858	7,642	10.1%
01-5035-03-00-00	Training Expense	1,300	389	911	29.9%
01-5037-03-00-00	Office Equipment	150	-	150	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,775	416	1,359	23.4%
01-5061-03-00-00	Mileage	250	-	250	0.0%
01-5077-03-00-00	IT Direct	250	-	250	0.0%
01-5309-03-00-00	Operating Leases	30,000	12,904	17,096	43.0%
01-5705-03-00-00	Monthly Car Allowance	4,200	808	3,392	19.2%
01-5802-03-00-00	Shipping/Freight	100	-	100	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	54,993	45,457	9,537	82.7%
	Total Other Expenses	103,518	61,480	42,039	59.4%
	Total Engineering Expenses	402,980	145,000	257,980	36.0%

South Orange County Wastewater Authority Budget vs. Actual Comparison- Administration For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
01-6000-04-00-00	Regular Salaries-Admin or IT	1,006,210		1,006,210	845,077	161,133	84.0%
01-6001-04-00-00	Overtime Salaries-Admin or IT	7.000		7.000	9.985	(2,985)	142.6%
01-6315-04-00-00	Comp Time - Admin	4.000		4.000	1.120	2,880	28.0%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	542,634		542,634	477,469	65,166	88.0%
01-0401-04-00-00	Total Payroll Costs	1,559,845	-	1,559,845	1,333,651	226,193	85.5%
	· · · · · · · · · · · · · · · · · · ·	.,,		.,,	.,,	,	
Other Expenses							
01-6101-04-00-00	HR Recruitment & Employee Relations	48,100		48,100	15,208	32,892	31.6%
01-6102-04-00-00	Subscriptions	1,400		1,400	1,855	(455)	132.5%
01-6103-04-00-00	Contract Labor	30,000		30,000	63,080	(33,080)	210.3%
01-6200-04-00-00	Management Support Services	55,000		55,000	26,487	28,513	48.2%
01-6201-04-00-00	Audit	46,000		46,000	33,700	12,300	73.3%
01-6202-04-00-00	Legal	200,000	15,000	215,000	135,553	79,447	63.0%
01-6204-04-00-00	Postage	1,500		1,500	1,388	112	92.5%
01-6223-04-00-00	Office Supplies - Admin	4,000		4,000	196	3,804	4.9%
01-6224-04-00-00	Office Equipment Admin or IT	1,000		1,000	3,655	(2,655)	365.5%
01-6234-04-00-00	Memberships & Trainings	105,000		105,000	91,210	13,790	86.9%
01-6239-04-00-00	Travel & Conference	25,000		25,000	7,173	17,827	28.7%
01-6240-04-00-00	Scholarship Sponsorship	1,000		1,000	-	1,000	0.0%
01-6241-04-00-00	Education Reimbursement	3,000		3,000	1,010	1,990	33.7%
01-6310-04-00-00	Miscellaneous	22,000		22,000	23,820	(1,820)	108.3%
01-6311-04-00-00	Mileage	600		600	639	(39)	106.5%
01-6317-04-00-00	Contract Services Misc	5,800		5,800	4,625	1,175	79.7%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	123,292		123,292	97,519	25,773	79.1%
01-6601-04-00-00	Shipping/Freight	1,200		1,200	3,224	(2,024)	268.7%
01-6705-04-00-00	Monthly Car Allowance	12,000		12,000	8,513	3,487	70.9%
	Total Other Expenses	685,892	15,000	700,892	518,855	182,037	74.0%
	Total Admin Expenses	2,245,737	15,000	2,260,737	1,852,506	408,231	81.9%

Budget vs. Actual Comparison-IT For the Period Ended April 30, 2024 (in dollars)

		FY 2023-24 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	116,046	102,603	13,444	88.4%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	62,582	57,970	4,612	92.6%
	Total Salary & Fringe	178,629	160,573	18,056	89.9%
Other Expenses					
01-6028-05-00-00	Small Tools & Supplies	1,000	-	1,000	0.0%
01-6035-05-00-00	Training Expense	3,000	-	3,000	0.0%
01-6224-05-00-00	Office Equipment Admin or IT	600	-	600	0.0%
01-6234-05-00-00	Memberships & Trainings	2,750	1,810	940	65.8%
01-6239-05-00-00	Travel & Conference	1,500	-	1,500	0.0%
01-6300-05-00-00	Software Maintenance Agreements	84,700	21,225	63,475	25.1%
01-6301-05-00-00	Hardware Maintenance Agreements	22,400	7,215	15,185	32.2%
01-6302-05-00-00	Cloud Subscriptions (Internet)	196,935	164,039	32,896	83.3% (
01-6303-05-00-00	Telecommunications	161,382	137,052	24,330	84.9%
01-6305-05-00-00	IT Professional Services	19,960	59,535	(39,575)	298.3% (*
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	25,400	12,998	12,402	51.2%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	30,500	24,086	6,414	79.0%
01-6308-05-00-00	IT Memberships	160	-	160	0.0%
01-6309-05-00-00	Operating Leases	64,200	43,507	20,693	67.8%
01-6310-05-00-00	Miscellaneous	5,000	90	4,910	1.8%
01-6312-05-00-00	Computer & Photocopy Supplies	3,200	1,677	1,523	0.0%
	Total Other Expenses	622,687	473,234	149,453	76.0%
	Total Expenses before Allocation	801,315	633,807	167,509	79.1%
IT Allocations (Out) to	o PC's & Depts				
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(801,315)	(633,807)	(167,509)	79.1%
	Total IT Allocations (Out) to PC's & Depts	(801,315)	(633,807)	(167,509)	79.1%

(1) Annual charges incurred at the beginning of the Fiscal Year.

South Orange County Wastewater Authority Cash Reconciliation Fiscal Year End 2021, 2022, 2023 & Q2 & Q3 2024

(1) Cash on Hand (G/L Balance) ¹ \$15,190,921 \$10,485,283 \$9,367,605 \$13,665,200 \$14,112,177 Accounts Payable Accounts Payroll Accounts Receivable (2,451,972) (3,185,397) (3,068,013) (2,576,047) Accounts Receivable BACcounts Receivable (224,996) (245,023) (264,784) (222,427) (152,659) (2) Due to Mbr Agency BS,9478 56,072 666,353 1,915,013 56,848 (2) Due to Mbr Agency (4,096,390) (1,720,819) (2,843,664) (2,849,514) 1,011,768) Mbr Agency Refund held for FY 19-20 LAIF Fair Value Adjustment 1,280,615 840,732 1,156,744 1,156,744 Yerpaid 198,709 290,794 327,412 468,044 483,095 (1,156) 117,343 128,929 (1,600) (1,600) (1,600) (20,813) Current Severance (20,813) (84,866) (117,213) (84,866) (117,213) (3) Available Cash \$5,647,281 \$6,555,600 \$4,550,032 \$9,903,223 \$10,952,091 \$10,952,091 \$10,952,091 \$10,597,49	\$446,977 \$889,611 (\$354,596)	3.3% 9.0% -3.2%
Accounts Payable (5,882,659) (2,451,972) (3,185,397) (3,068,013) (2,576,047) Accounts Receivable (224,996) (245,023) (264,784) (282,427) (152,659) Accounts Receivable 59,478 56,072 666,353 1,915,013 56,848 Due to Mbr Agency (4,096,390) (1,720,819) (2,843,664) (2,849,514) (1,011,768) Due to Mbr Agency (4,096,390) (1,720,819) (2,843,664) (2,849,514) (1,011,768) Mbr Agency Refund held for FY 19-20 LAF Fair Value Adjustment (1,156) 117,343 128,929 (1,600) (1,600) Petty Cash TCWD UAL payment (1,156) 117,343 128,929 (84,866) (117,213) (3) Available Cash \$5,647,281 \$6,555,608 \$4,550,032 \$9,903,223 \$10,952,091 \$10,597,495 (4) Large Capital Cash as of June 30th 2021, 2022, 2023, Q2, Q3 2024 \$6,973,860 \$4,510,027 \$10,952,091 \$10,597,495 (4) Moulton Niguel Large Capital Accounts Receivable \$6,973,860 \$4,510,278 \$10,952,091 \$10,597,495 (4) <td>\$889,611</td> <td></td>	\$889,611	
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Current Severance Deposits (84,866) (117,213) (3) Available Cash \$5,647,281 \$6,555,608 \$4,550,032 \$9,903,223 \$10,792,833 (4) Large Capital Cash as of June 30th 2021, 2022, 2023, Q2, Q3 2024 \$6,973,860 \$6,545,659 \$4,710,278 \$10,952,091 \$10,597,495 Non Capital Engineering Cash Balance Moulton Niguel Non Capital Engineering Accounts Receivable Moulton Niguel Large Capital Accounts Receivable Image: Capital Accounts Receiva		
(3) Available Cash \$5,647,281 \$6,555,608 \$4,550,032 \$9,903,223 \$10,792,833 (4) Large Capital Cash as of June 30th 2021, 2022, 2023, Q2, Q3 2024 \$6,973,860 \$6,545,659 \$4,710,278 \$10,952,091 \$10,597,495 Non Capital Engineering Cash Balance Moulton Niguel Non Capital Engineering Accounts Receivable Moulton Niguel Large Capital Accounts Receivable Image: Capital Accounts Receivable		
(4) Large Capital Cash as of June 30th 2021, 2022, 2023, Q2, Q3 2024 \$6,973,860 \$6,545,659 \$4,710,278 \$10,952,091 \$10,597,495 Non Capital Engineering Cash Balance Moulton Niguel Non Capital Engineering Accounts Receivable Moulton Niguel Large Capital Accounts Receivable Image: Capital Accounts Receivable		
(4) 2023, Q2, Q3 2024 \$6,973,600 \$6,943,659 \$4,710,278 \$10,952,091 \$10,957,495 Non Capital Engineering Cash Balance Moulton Niguel Non Capital Engineering Accounts Receivable Receivable Image: Capital Accounts Receiva	(\$354,596)	-3.2%
Non Capital Engineering Cash Balance Moulton Niguel Non Capital Engineering Accounts Receivable Moulton Niguel Large Capital Accounts Receivable	(\$334,390)	-3.276
Use Audit Settlement (1,511,608) (122,690) (359,531) Use Audit Settlement		
(6) Small Capital Carryover 161,729 85,012 58,290		
Non-Capital Carryover 203,442		
Non-Capital Misc. Carryover 132,113 90,000		
Cash Collected for PC 2 Zephyr Wall		
Other misc., fringe adj, interest adj, etc. 1,001		
Small Capital Cash Collected in Excess of Expenditures 547,506 290,419 287,247		
Non Capital Cash Collected in Excess of Expenditures 9,110 397,806 433,130		
Non Capital Misc Cash Collected in Excess of		
Expenditures 52,266		
O&M Cash Collected in Excess of Expenditures 215,060 (371,538) (784,996)		
O&M Small Can Non-Can Non-Can Misc Lise Audit		
Settlement (1,304,100) (1,327,388)		
O&M, Small Cap, Non-Cap, Non-Cap Misc Cash		
Collected in Excess of Expenditures		
Net Cash as of June 30th 2021, 2022, 2023, Q2, Q3 \$5,480,313 \$6,512,969 \$4,435,758 \$9,640,147 \$10,532,875		
2024 00,00,00 00,00,00 00,00,00 00,00 00,00		
Additional Cash Is:		
Prior Balance \$549,996 \$166,969 \$42,640 \$114,274 \$263,075		
Payment to Member Agencies (549,996) (166,969) (42,640) (114,274)		
County of Orange Bankruptcy Payment		
County of Orange Admin Fees		
County of Orange Access Maintenance		
City of Laguna Niguel Heat Transfer		
SMWD Lab Fees		
Coke machine		
FEMA Reimbursement		
CA State Cost Reimbursement Interest Income Received 74,802 21,004 85,410 84,261 110,009		
Interest income Received 74,802 21,004 83,410 84,251 110,009 Recycling Income 2,947 2,599 9,242 1,150 1,148		
PC 23 Admin Payment 5,300 5,450 5,600 5,600		
Mutual Omaha Refund		
Interest received 83,920 10,300 19,358 57,590		
LAIF Interest Adj.		
Grant Revenue SoCal Edison		
Other misc. expenses (2,413)		
Sale of Fixed Assets 5,700		
Other misc adjustments (5,336)		
Total Other Cash \$166,969 \$42,640 \$114,274 \$263,075 \$259,958		

 $^1\mbox{Cash}$ increased by only 3.3% in Q3. Large Capital Cash decreased by 3.2%.

Cash Roll Forward Notes Q3 FY 2023-24

- 1. Cash on Hand from Net Position Statement and reconciled to the Bank Statement
- Adjustment for Current Assets and Liabilities, Obligations against the Cash (accounts payable, payroll accruals, Use Audit Due (To) Member Agencies; the offset to these items is in the Use Audit as an Expense or in Construction-in-Progress if Capital related.) Amounts due to the Authority, Accounts Receivable, Use Audit Due From Member Agencies, Prepaids and Deposits.
- 3. Available Cash (Item 1 above less Item 2). The Authority does not carry Cash Reserves; there is some carryover cash for non-capital projects in-process at yearend. Large Capital Cash is held until project completion which could span several years.
- 4. Large Capital Cash is supported by a subsidiary report detailing by project committee, wastewater a) Beginning Cash Balance from the Audited 6/30/2023 Cash Roll Forward
 - b) Contributions based on the quarterly capital billings
 - c) Actual expenditures
 - e) Net Cash balance
- 5. Total Large Capital Cash.
- 6. Small Capital, Non-Capital and Non-Capital Misc. Carryover.
- 7. Difference is additional cash from interest on LAIF account balance and sources other than Member Agencies.

	La	rge Capita	al Cash Ba	lance AF	TER FY 22	-23 Use A	udit Payo	ut as of M	arch 31, 2	024
	16	17	18	19	20	21	22	23	24	
	CLB	csc	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 02 J B Latham							•		•	•
Liquids										
3202-000 - Preliminary and Primary Treatment Improvements Design (2016)	-	-	40,309	-	-	-	29,610	21,329	37,014	128,262
3252-000 - Plant 1 Standby Power Generator Repl (2017)	-	-	68,615	-	-	-	158,628	261,829	198,284	687,356
3253-000 - Effluent System Valves Replacement (2107)	-	-	27,174	-	-	-	21,546	16,161	26,931	91,812
3254-000 - Additional Package B Liquids Design (2017)	-	-	45,357	-	-	-	34,032	25,524	42,541	147,453
3280-000 - Facility Improvements B - Basin Upgrades (2018)	-	-	2,439	-	-	-	1,897	1,493	2,394	8,222
3285-000 - Main Plant Drain Line Reconstruction (2018)	-	-	(206)	-	-	-	(154)	(116)	(193)	(669)
3215-000 - Motor Control Center M Replacement Design (2019)	-	-	9,236	-	-	-	6,927	5,195	8,658	30,016
220-000 - Facility Improvements B - Basin Upgrades Construction I (2019)	-	-	(285,078)	-	-	-	(24,906)	233,047	(31,154)	(108,091)
2211L-000 - Plant 2 Grit Area Rehabilitation	-	-	(27,783)	-	-	-	(20,837)	(15,628)	(26,046)	(90,294)
2226L-000 - Effluent Pump Station Upgrades	-	-	28,155	-	-	-	44,055	63,624	55,067	190,901
32235L-000 - Effluent PS Electrical Rehabilitation	-	-	1,126	-	-	-	845	633	1,056	3,660
32212L-000 - Primary Tank Covers Replacements	-	-	13,691	-	-	-	7,353	1,628	9,191	31,863
32234L-000 - Chlorine Contact Basin Isolation Gates and Structural Rehab	-	-	30,769	-	-	-	23,077	17,308	28,846	100,000
2243L-000 - Plant 2 Headworks Rehabilitation-Salaries	-	-	-	-	-	-	21,686	45,180	27,108	93,974
2244L-000 - Plant 2 Primary Clarifier Condition Assessment	-	-	-	-	-	-	11,203	23,341	14,006	48,550
otal PC 02 Liquids	-	-	(46,195)	-	-	-	314,961	700,548	393,701	1,363,015
		•								•
Common										
3216-000 - Hoist System for Maintenance Shop (2013)	-	-	15,192	-	-	-	11,147	11,357	12,182	49,878
221-000 - Electrical System Evaluation (2019)	-	-	(5,702)	-	-	-	(4,194)	(4,287)	(4,583)	(18,766)
231-000 - Facility Improvements B - Common Upgrades Construction	-	-	(41,939)	-	-	-	4,694	53,117	5,125	20,996
2231C-000 - Process Water Repiping	-	-	15,192	-	-	-	11,174	11,422	12,212	50,000
32232C-000 - 2337 Administration Building Roof Reconstructio	-	-	3,921	-	-	-	(548)	(5,223)	(597)	(2,447)
2243C-000 - SCADA Server Replacement	-	-	-	-	-	-	44,699	106,455	48,846	200,000
Total PC 02 Common		-	(13,337)	-	-	-	66,972	172,842	73,184	299,661

	La	rge Capita	al Cash Ba	lance AF	TER FY 22	-23 Use A	udit Payo	ut as of M	arch 31, 2	2024
	16	17	18	19	20	21	22	23	24	
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
Solids										
3209-000 - Facility Improvements - Co-Generation Rep. (2016)	-	-	242,600	-	-	-	173,088	224,804	160,124	884,514
3287-000 - Facility Improvements B - DAFT and Ancillary Solids Improvements	-	-	(406,462)	-	-	-	(7,388)	386,578	(6,818)	(34,091)
3222-000 - Centrate System Design (2019)	-	-	1,663	-	-	-	1,147	1,432	1,061	5,303
3224-000 - Digester No.4 Rehabilitation (2019)	-	-	94,864	-	-	-	68,371	89,736	63,243	316,214
3225-000 - Facility Improvements B - DAFT and Ancillary Solids Improvement	-	-	(143)	-	-	-	(763)	(1,917)	(706)	(3,529)
3234-000 - Centrate Piping Reconstruction (2021)	-	-	26,684	-	-	-	47,663	102,005	44,088	220,440
32232S-000 - Buried Digester and Flare Gasline Replacement	-	-	(196)	-	-	-	(142)	(186)	(131)	(655)
32233S-000 - Scum Line Replacement	-	-	7,500	-	-	-	9,730	18,775	9,001	45,006
32234S-000 - JBL Heat exchanger #4 pipe replacement	-	-	(34)	-	-	-	(25)	(32)	(23)	(114)
32225S-000 - Energy Building Roof Upgrades	-	-	22,500	-	-	-	16,112	21,002	14,903	74,517
32236S-000 - SCR Blower	-	-	22,500	-	-	-	16,216	21,284	15,000	75,000
Total PC 02 Solids	-	-	11,476	-	-	-	324,009	863,480	299,743	1,582,605
									•	
Total PC2 JB Latham	-	-	(48,056)	-	-	-	705,941	1,736,870	766,628	3,245,280
PC 05 San Juan Creek Ocean Outfall										
36221O-000 - Surge System Air Valve Replacement	-	6,492	4,328	-	-	-	6,060	17,313	4,871	39,064
362410-000 - SJCOO Outfall Ballast Repairs	-	19,856	-	-	-	-	18,530	66,187	14,898	119,471
Total PC5 San Juan Creek Ocean Outfall	-	26,348	4,328	-	-	-	24,590	83,500	19,769	158,535

pubsic Control Control <thcontrol< th=""> <thcontrol< th=""> <thco< th=""><th>FY 22-23 Use Audit Payout as of March 31, 2024</th><th>2-23 Use A</th><th>ER FY 22</th><th>lance AF1</th><th>l Cash Ba</th><th>rge Capita</th><th>Lar</th></thco<></thcontrol<></thcontrol<>	FY 22-23 Use Audit Payout as of March 31, 2024	2-23 Use A	ER FY 22	lance AF1	l Cash Ba	rge Capita	Lar
21 Goastal Trainment Plant quids - - (20) - (200) - (204) 94:000 - Anenton System Modification Design (2015) (259) - - (20,339) - (19,575) (224,389) 93:000 - Fault/ motification Independencements - Part II (2020) (24,728) - - (9,339) - (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) - (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,645) (19,077) (19,078) (10,077) (19,078) (10,077) (19,027) (19,027) (1	0 21 22 23 24	21	20	19	18	17	16
pubsic Control of space of the	SD IRWD MNWD SMWD SCWD Total	IRWD	EBSD	ETWD	CSJC	CSC	CLB
534-00 - Export Studge System (1997) (118.667) - - (9,399) - (91.575) - (93.439) 535-000 - Pactomage Improvements - Part II (2020) (64.728) - - (1,948) - (19.077) - (19.685) 532-000 - Pactomage Improvements Project Design (2018) 725 - - 19.20 - 195.22 - 199.207 522-000 - Pacing Improvements Project Design (2019) 222,944 - - 1.282 - 19.920 - (2,4) - (2,5) 522-000 - Pacing Improvements Project Design (2019) 32.224 - - 1.282 - 12.682 -							
534-000 - Export Studge System (1997) (118,867) - - (9,399) - (91,575) (93,439) 533-000 - Placing construction improvements - Part II (2020) (24,726) - - (1,948) - (19,077) (19,685) 5530-00 - Placing indinge improvements Project Design (2018) 725 - - 129 - 508 - 563 552-000 - Parsonnel Building reconstruction (2019) (22) - - 129 - 124 - 129,207 - 128,227 - 128,227 - 22,072 - 128,227 - 128,227 - 128,227 - 128,2							
539-00 Facility Construction Improvements (2017) (24,728) - (1,948) (19,077) (19,465) 559-00 - Failty Improvements (2017) 88,781 - - 6,997 68,505 69,908 5259-00 - Failty Improvements (2017) 88,781 - - 19,920 - 19,222 - 19,207 12,222 19,207 12,222 19,207 12,222 12,222 12,222 12,222 12,225 12,225	0) - (200) - (204) (684)	-	(20)	-	-	-	(259)
533-00 - Plant Drainage Improvements (2017) 88,781 - - 6,997 68,505 - 69,906 592-000 - Facility Improvements Project Construction (2019) 252,994 - - 129 - 568 - 563 525-000 - Facility Improvements Project Construction - Part I (2019) (22) - - 129 - 24,866 - 25,273 526-000 - Kand Sites West I and West 2 Embankment Protection 16,284 - - 2,537 - 24,866 - 25,273 526-000 - Kand Sites West I and West 2 Embankment Protection 16,284 - - 2,252 2,2072 - 22,523 526-000 - Akad Sites West I and West 2 Embankment Protection 16,284 - - 2,13,82 - 20,656 - 21,382 5270-00 - Velking Sitem Construction (2020) 271,555 - - - 5,574 - 5,674 - 5,694 - 59,982 5220L-00 - Fine Installation to Aking Parking Pa	(313,021) - (93,439) (313,021)	-	(9,339)	-	-	-	(118,667)
92-00 - Facility improvements Project Design (2018) 725 - 129 508 - 563 25-00 - Personnel Building reconstruction (2019) (22) - - (2) - (24) - (24) - (25) 27-00 - Vehicle Storage Building Roof (2019) 32,224 - - 2,2537 24,666 25,537 28-000 - Acality Improvements Project Construction (200) 27,155 - - 2,252 22,072 22,2523 220-000 - Fiber Installation to Alica Parkway 12,490 - - 2,1382 200,546 21,3823 220L-000 - Fiber Installation to Alica Parkway 12,490 - - 983 9,638 9,834 220L-000 - Fiber Installation to Alica Parkway 12,490 - - 2,766 20,0544 20,0544 59,898 220L-000 - Fiber Installation to Alica Parkway 12,490 - - 2,766 2,77,011 27,665 2,77,011 27,665 2,77,011 2,7665 2,77,011 2,7665 2,77,011 2,7665 2,77,011 2,7653 2,98,515 5,93,41 220L-000 - Contrad Scruber Im	148) - (19,077) - (19,465) (65,216)	-	(1,948)	-	-	-	(24,726)
25:00 - Personnel Bulkling reconstruction (2019) 25:2.994 - - 19,920 - 195,222 - 199,207 26:00 - Facility improvements Project Construction - Part (2019) (2) - - (2) - (24) - (25) 26:00 - Alkis Creak Long Turm Repair Hanning 22.224 - - 2.537 - 24.866 - 25.823 22:00 - Alkis Creak Long Turm Repair Hanning 28.804 - - - 2.1382 - 20.9,666 - 2.2,223 22:00 - Alkis Creak Long Turm Repair Hanning 28.804 - - - 2.832 - 2.9,072 2.2,523 22:01.00 - Exploration Difuser Replacement 24.800 - - 2.838 - 9.834 22:01.00 - Aration Difuser Replacement 454.209 - - 5.999 - 5.8,744 - 5.9,982 22:01.00 - Aration Bluding Roofs 35.120 - - - 2.7,61 - 2.7,101 - 2.7,653 22:01.00 - Aration Bluding Roofs 35.120 - - - 1.4,15	97 - 68,505 - 69,906 234,189	-	6,997	-	-	-	88,781
28-000 - Facility Improvements Project Construction - Part I (2019) (32) - - (2) - (24) - (25) 27-000 - Vehicle Storage Building Rod (2019) 32,224 - - 2,537 - 24,866 - 25,373 28-000 - Alkio Creek Long Term Repair Planning 28,604 - - 1,282 - 22,072 - 22,523 2000 - Alkio Creek Long Term Repair Planning 28,604 - - 21,382 - 200,546 - 21,382 2201-000 - Fiber Installation to Alicia Parkway 12,490 - - 983 - 98,34 228,204 2201-000 - Arxillary Blower and Maintenance Building Roofs 35,120 - - 98,37 - 9,892 221,100 - 27,664 - 27,613 - 27,653 2201-000 - Foul Arxillary Blower and Maintenance Building Roofs 35,120 - - 2,766 - 27,111 - 27,653 2201-000 - Foul Arxillary Blower and Maintenance Building Roofs 35,120 - - 5,934 - 59,941 58,155 - 59,341<	29 - 508 - 563 1,926	-	129	-	-	-	725
26-00 - Facility improvements Project Construction - Part I (2019) (32) - - (2) - (24) - (25) 27-00 - Vahicle Storage Building Roof (2019) 32.224 - - 2.537 - 24.866 - 25.373 28-000 - Akiko Creek Long Term Repair Planning 28.604 - - 1.282 - 22.072 - 22.523 2900 - Akiko Creek Long Term Repair Planning 28.604 - - 21.882 - 200.546 - 21.823 220L-000 - Fiber Installation to Akicia Parkway 12.490 - - 983 - 9.634 - 9.834 228L-000 - Arailage Pump Station 76,179 - - 35.764 - 350.494 - 27.653 228L-000 - Aukilary Biower and Maintenance Building Roofs 35.120 - - 2.766 - 27.101 - 27.653 228L-000 - Chrol Scruber Improvements 75.362 - - 5.934 - 5.93.41 2.89.36 - 2.9.653 238L-000 - Chrol Scruber Improvements 75.362 - -	920 - 195,222 - 199,207 667,343	-	19,920	-	-	-	252,994
28-000 - AWMA Road Sites West 1 and West 2 Embankment Protection 16,284 - - 1,282 - 12,566 - 12,822 29-000 - Aliso Creek Long Term Repair Planning 28,604 - - 2,252 22,072 22,523 21,000 - Eber Installation to Alicia Parkway 21,450 - - 21,382 - 209,546 9,834 220L-000 - Eber Installation to Alicia Parkway 12,490 - - 983 9,638 9,834 220L-000 - Drainage Pump Station 76,179 - - 35,764 350,494 - 59,982 221L-000 - Auxiliary Blower and Maintenance Building Roofs 35,120 - - 2,766 - 27,101 - 27,653 229L-000 - Out Alis System (270) - - (211) - 68,155 - 59,341 238L-000 - Cotrol Scruber Improvements 75,362 - - 746 - 7,313 - 7,463 239L-000 - Cotrol Scruber Improvements 94,78 - - 14,415 - 14,4167 239L-000 - Cotr west secondary Scum Mignades <td< td=""><td>2) - (24) - (25) (84)</td><td>-</td><td>(2)</td><td>-</td><td>-</td><td>-</td><td>(32)</td></td<>	2) - (24) - (25) (84)	-	(2)	-	-	-	(32)
29-00 - Aliso Creek Long Term Repair Planning 28,804 - - 2,252 - 22,072 - 22,523 41-000 - Export Sludge System Construction (2020) 271,555 - - 21,382 - 200,546 - 213,823 220L-000 - Fiber Installation to Alica Parkway 12,490 - - 983 - 9638 - 983 228L-000 - Aeration Diffuser Replacement 454,209 - - 5,999 - 56,764 - 350,764 - 59,982 228L-000 - Fouriange Pump Station 76,179 - - - 2,766 - 271,011 - 27,653 229L-000 - Fouri Air System (270) - - - 5,934 - 59,934 58,155 - 59,341 238L-000 - Control Scrubber Infuror Noreners 9,478 - - 7,463 - 7,433 - 7,463 238L-000 - Control Scrubber Infuror Noreners 9,478 - - 1,415 13,872 - 1,415 238L-000 - Control Scrubber Infuror Noreners 9,4798 -	37 - 24,866 - 25,373 85,000	-	2,537	-	-	-	32,224
41-000 - Export Sludge System Construction (2020) 271,555 - - 21,382 - 209,546 - 213,823 220L-000 - Fiber Installation to Alicia Parkway 12,490 - - 983 - 9,638 - 9,834 220L-000 - Aration Diffuser Replacement 454,209 - - 35,764 - 350,494 - 357,648 220L-000 - Aration Diffuser Replacement 454,209 - - 5,999 - 58,784 - 99,828 220L-000 - Auxiliary Blower and Maintenance Building Roofs 35,120 - - 2,766 27,101 - 27,653 220L-000 - Odor Control Scrubber Improvements 75,362 - - 7,463 - 5,934 - 59,341 29,343 - 59,341 238L-000 - Control Scrubber Improvements 75,362 - - 7,463 - 7,463 - 1,415 28,155 - 59,341 238L-000 - Control Scrubber Improvements 17,979 - - 1,415 - 1,4157 24,846 28,936 - 29,555 <t< td=""><td></td><td>-</td><td>1,282</td><td>-</td><td>-</td><td>-</td><td>16,284</td></t<>		-	1,282	-	-	-	16,284
41-000 - Export Sludge System Construction (2020) 271,555 - - 21,382 - 209,546 - 213,823 2201-000 - Fiber Instaliation to Alicia Parkway 12,490 - - 983 - 9,638 - 9,834 2201-000 - Fiber Instaliation to Alicia Parkway 12,490 - - 983 - 9,638 - 9,834 2201-000 - Drainage Pump Station 76,179 - - 5,999 - 58,784 - 59,982 2211-000 - Auxiliange Bours and Maintenance Building Roofs 35,120 - - 2,766 - 27,101 - 27,653 2211-000 - Auxiliange Bours and Maintenance Building Roofs 35,120 - - 7,633 - 59,934 - 59,341 27,653 220,003 - 59,341 20,003 - 59,341 230,000 - 59,341 - 59,341 20,003 - 59,341 20,003 - 59,341 20,003 - 14,457 24,463 24,463 24,463 - 14,457 24,463 24,463 24,463 29,552<		-		-	-	-	
2202000 Fiber Installation to Alicia Parkway 12,490 - - 983 - 9,638 - 9,834 2282-000 - Aeration Diffuser Replacement 454,209 - - 35,764 - 350,494 - 357,648 2204-000 - Drainage Pump Station 76,179 - - 2,766 - 27,101 - 27,653 2211-000 - Auxiliary Blower and Maintenance Building Roofs 35,120 - - 2,766 - 27,101 - 27,653 2291-000 - Coul Ar System (270) - - 59,341 - 59,341 - 59,341 2381-000 - Chtrol Scrubber Improvements 75,362 - - 746 - 7,313 - 7,463 2381-000 - Chtrol Scrubber Improvements (183) - - - 1415 - 13,872 - 14,157 2461-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - - 14,457 29,658 - 29,552 2471-000 - Aeration Blower System Upgrades 18,361 - - - 14,457		-		-	-	-	
2228-000 - Aeration Diffuser Replacement 454,209 - - 35,764 - 350,494 - 357,648 224L-000 - Drainage Pump Station 76,179 - - 5,999 - 58,784 - 59,982 221L-000 - Auxiliary Blower and Maintenance Building Roofs 35,120 - - 2,766 - 27,101 - 27,653 221L-000 - Foul Air System (270) - - 6(21) - (209) - (213) 235L-000 - Odor Odor Odor Odor Odor Scrubber Improvements 75,362 - - 59,934 - 58,155 - 59,314 238L-000 - Relocate influent flow meters 9,478 - - 746 - 7,463 - 4,463 238L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - 2,954 - 28,936 29,525 247L-000 - Aeration Blower System Upgrades 18,361 - - 1,445 -	33 - 9,638 - 9,834 32,945	-	983	-	-	-	12.490
2224.000 - Drainage Pump Station 76,179 - - 5,999 - 58,784 - 59,982 2211-000 - Auxiliary Blower and Maintenance Building Roofs 35,120 - - 2,766 - 27,101 - 27,653 229L-000 - Foul Air System (270) - - (21) - (209) - (213) 238L-000 - Odor Control Scrubber Improvements 75,362 - - 5,934 - 58,155 - 59,341 238L-000 - CTP west secondary scum skimmers (183) - - 746 - 7,313 - 7,463 239L-000 - CTP west secondary scum skimmers (183) - - 1,415 - 13,872 - 14,157 246L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,457 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - 2,954 - 29,525 247L-000 - Aeration Blower System Upgrades 18,361 - - 1,4457 29,856 29,254 29		-		-	-	-	-
2221L-000 - Auxiliary Blower and Maintenance Building Roofs 35,120 - - 2,766 - 27,101 - 27,653 229L-000 - Foul Air System (270) - - (21) - (209) - (213) 235L-000 - Odor Control Scrubber Improvements 75,362 - - 5,934 - 58,155 - 59,341 238L-000 - Relocate influent flow meters 9,478 - - - 746 - 7,313 - 7,463 239L-000 - CTP west secondary scum skimmers (183) - - - (14) - (141) - (144) 246L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skinmers and Launders/Weirs 37,498 - - - 1,445 - 14,457 248L-000 - Awation Blower System Upgrades 18,861 - - 2,985 29,9254 29,9254 29,9254 29,9254 29,9254 29,9254 29,9254 29,9254 29,9254		-	5.999	-	-	-	76.179
229L-000 - Foul Ar System (270) - - (21) - (209) - (213) 235L-000 - Odor Control Scrubber Improvements 75,362 - - 5,934 - 58,155 - 59,341 238L-000 - Relocate influent flow meters 9,478 - - 746 - 7,313 - 7,463 239L-000 - CTP west secondary scum skimmers (183) - - - (144) - (141) - (144) 245L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - - 2,954 - 28,936 - 29,525 247L-000 - Aeration Blower System Upgrades 18,361 - - - 14,157 - 14,457 248L-000 - AWMA Road Repairs 37,910 - - - 2,985 - 29,254 - 29,851 249L-000 - SCADA Server Replacement 1,397,435 - - - 110,118		-		-	-	-	-
235L-000 - Odor Control Scrubber Improvements 75,362 - - 5,934 - 58,155 - 59,341 238L-000 - Relocate influent flow meters 9,478 - - 746 - 7,313 - 7,463 239L-000 - CTP west secondary scum skimmers (183) - - - (141) - (144) 245L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - - 1,445 - 14,167 - 14,457 248L-000 - Averation Blower System Upgrades 18,361 - - - 1,445 - 14,167 - 14,457 248L-000 - AVMA Road Repairs 37,910 - - - 2,985 - 29,254 - 29,851 249L-000 - SCADA Server Replacement 75,821 - - - 5,970 - 58,508 59,701 tat PC 15 Liquids 1,397,435 - - - - <t< td=""><td></td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td></td></t<>		-		-	-	-	
238L-000 - Relocate influent flow meters 9,478 - - 746 - 7,463 - 7,463 239L-000 - CTP west secondary scum skimmers (183) - - (14) - (141) - (144) 245L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - - 2,954 - 28,936 - 29,525 247L-000 - Aeration Blower System Upgrades 18,361 - - - 1,445 - 14,167 - 14,457 248L-000 - AWMA Road Repairs 37,910 - - - 2,985 - 29,254 - 29,851 249L-000 - SCADA Server Replacement 75,821 - - - 5,970 - 58,508 - 59,701 tat PC 15 Liquids 1,397,435 - - - 110,118 - 1,078,279 1,100,339 wr - - - - - -<		-		-	-	-	
239L-000 - CTP west secondary scum skimmers (183) - - (14) - (141) - (144) 245L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - 2,954 - 28,936 - 29,525 247L-000 - Aeration Blower System Upgrades 18,861 - - - 1,445 - 14,167 - 14,457 248L-000 - AWMA Road Repairs 37,910 - - - 2,985 - 29,254 - 29,851 249L-000 - SCADA Server Replacement 75,821 - - - 5,970 - 58,508 - 59,701 tat PC 15 Liquids 1,397,435 - - - 110,118 1,078,279 1,100,339 vr - - - - - - - - 8,574		-		-	-	-	
245L-000 - Grating Replacement on Aeration/Secondary Deck 17,979 - - 1,415 - 13,872 - 14,157 246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - 2,954 - 28,936 - 29,525 247L-000 - Aeration Blower System Upgrades 18,361 - - 1,445 - 14,167 - 14,457 248L-000 - AWMA Road Repairs 37,910 - - - 2,985 - 29,254 - 29,851 249L-000 - SCADA Server Replacement 75,821 - - - 5,970 58,508 - 59,701 tat PC 15 Liquids 1,397,435 - - - 110,118 - 1,078,279 1,100,339 vr - - - - - - - - 8,574		-		-	-	-	
246L-000 - West Primary Sludge Skimmers and Launders/Weirs 37,498 - - 2,954 - 28,936 - 29,525 247L-000 - Aeration Blower System Upgrades 18,361 - - 1,445 - 14,167 - 14,457 248L-000 - AWMA Road Repairs 37,910 - - 2,985 - 29,254 - 29,851 249L-000 - SCADA Server Replacement 75,821 - - - 5,970 58,508 - 59,701 tal PC 15 Liquids 1,397,435 - - - 110,118 - 1,078,279 1,100,339 Arr - - - - - - - 8,574 0-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018) - - - - - - - 8,574		-		-	-	-	
447L-000 - Aeration Blower System Upgrades 18,361 - - 1,445 - 14,167 - 14,457 448L-000 - AWMA Road Repairs 37,910 - - 2,985 - 29,254 - 29,851 449L-000 - SCADA Server Replacement 75,821 - - - 5,970 - 58,508 - 59,701 al PC 15 Liquids 1,397,435 - - - 110,118 - 1,078,279 - 1,100,339 T - - - - - - - - 8,574		-		-	-	-	
48L-000 - AWMA Road Repairs 37,910 - - 2,985 - 29,254 - 29,851 49L-000 - SCADA Server Replacement 75,821 - - 5,970 - 58,508 - 59,701 al PC 15 Liquids 1,397,435 - - - 110,118 - 1,078,279 - 1,100,339 T - - - - - - - - 8,574		-		-	-	-	
49L-000 - SCADA Server Replacement 75,821 - - 5,970 - 58,508 - 59,701 al PC 15 Liquids 1,397,435 - - 110,118 - 1,078,279 - 1,100,339 T - - - - - - - - 8,574 6-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018) - - - - - - - 8,574		-		-	-	_	-
al PC 15 Liquids 1,397,435 - - 110,118 - 1,078,279 - 1,100,339 T 6-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018) - - - - - - - - 8,574					-	-	-
T 6-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018)				-	-	-	
6-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018)	1,070,270 - 1,100,009 0,000,171	I -	110,110	-	-	-	1,007,400
26-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018)							
	8,574 8,574	-	-	-	-	_	
			-	_	_	-	-
	5,014 0,014	_		_		-	
al PC 15 Coastal Treatment Plant 1,397,435 110,118 - 1,078,279 - 1,108,913	118 - 1,078,279 - 1,108,913 3,694,745	-	110.118	-	-	-	1.397.435

	La	rge Capita	l Cash Ba	alance AF	TER FY 22	-23 Use A	udit Payo	ut as of M	arch 31, 2	2024
	16	17	18	19	20	21	22	23	24	
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 17 Joint Regional Wastewater Reclamation										
Liquids/AWT										
3722AL-000 - MCC A, C, G, H Replacement	-	-	-	-	-	-	14,300	-	-	14,300
3742-000 - Aeration System Upgrade (2019)	-	-	-	-	-	-	49,450	-	-	49,450
3774-000 - MCC A, C, G, H Replacement (Liquids) (2021)	-	-	-	-	-	-	(9,446)	-	-	(9,446)
37241L-000 - Grit and Primary Grating and Gate Replacement	-	-	-	-	-	-	98,067	-	-	98,067
37242L-000 - Aeration Influent/Effluent Gate Replacements	-	-	-	-	-	-	98,067	-	-	98,067
Total PC 17 Liquids	-	-	-	-	-	-	250,438	-	-	250.438
						1		1		
Common										
3761-000 - External Lighting Upgrade	22,511	-	-	38,296	1,192	-	293,960	-	17,986	373,946
3745-000 - West Slope Protection Evaluation (2019)	2,261	-	-	3,700	119	-	28,176	-	1,807	36,064
3746-000 - Motor Control Center A, G, H Design (2019)	2,434	-	-	3,983	129	-	30,333	-	1,944	38,823
3747-000 -Southside Plant Manhole Reconstruction (2019)	585	-	-	957	31	-	7,285	-	467	9,325
3748-000 - SE electrical Manhole reconstruction (2019)	365	-	-	597	19	-	4,549	-	292	5,822
37229C-000 - Laboratory Reconstruction	2,398	-	-	3,924	126	-	29,884	-	1,917	38,249
3779-000 - MCC A, C, G, H Replacement (Common) (2021)	(126)	-	-	(206)	(7)	-	(1,571)	-	(101)	(2,010)
37243C-000 - SCADA Server Replacement	12,540	-	-	20,520	660	-	156,258	-	10,022	200,000
37244C - MCC Replacements/Power System Improvements	6,217	-	-	10,173	327	-	77,469	-	4,968	99,154
Total PC 17 Common	49,184	-	-	81,945	2,596	-	626,344	-	39,303	799,372
Solids		•	ł	•	ł	ł	ł	•	•	4
3722-000 - Co-gen Sys Retrofit (formerly Siloxane) (2015)	21,296	-	-	38,740	1,120	-	111,645	-	17,007	189,807
3790-000 - Solids Area Upgrade Design (2018)	(14,597)	-	-	(26,554)	(768)	-	(76,525)	-	(11,657)	(130,101)
3749-000 - Phase I Solids Piping Upgrade (2019)	42,850	-	-	77,945	2,254	-	224,634	-	34,218	381,901
3750-000 - Dewatering room Floor Sealing and Lighting (2019)	11,676	-	-	21,239	614	-	61,210	-	9,324	104,063
3754-000 - SET Piping Reconstruction (2019)	6,115	-	-	11,123	322	-	32,057	-	4,883	54,500
3771-000 - Miscellaneous Safety Improvements - Solids (2020)	7,048	-	-	12,821	371	-	36,949	-	5,628	62,818
3772-000 - Hot Water Piping Reconstruction (2020)	35,139	-	-	63,920	1,848	-	184,211	-	28,061	313,178
3773-000 - Co-Generation System Modifications (2020)	22,849	-	-	41,564	1,202	-	119,785	-	18,247	203,646
37201S - MCC A, C, G, H Replacement	(282)	-	-	(513)	(15)	-	(1,479)	-	(225)	(2,514)
37232S-000 - SCR Blower	8,415	-	-	15,308	443	-	44,114	-	6,720	75,000
37236S-000 - MCC A, C, G, H Replacement	535	-	-	973	28	-	2,804	-	427	4,767
37245S-000 - Digester Gas System Improvements	10,827	-	-	19,695	569	-	56,759	-	8,646	96,497
37246S-000 - Digester 1 Piping Replacement	11,125	-	-	20,237	585	-	58,323	-	8,884	99,154
37247S - Odor Scrubber 1 Replacement	1,683	-	-	3,062	89	-	8,822	-	1,344	15,000
Total PC 17 Solids	164,678	-	-	299,561	8,662	-	863,308	-	131,507	1,467,716

	La	rge Capita	al Cash Ba	lance AF	FER FY 22	2-23 Use A	udit Payo	ut as of M	arch 31, 2	024
	16	17	18	19	20	21	22	23	24	
	CLB	csc	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
Total PC 17 Joint Regional Wastewater Reclamation	213,862	-	-	381,506	11,258	-	1,740,091	-	170,810	2,517,526
PC 21 Effluent Transmission Main										
Reach B/C/D										
3101-000 - Trail Bridge Crossing Protection - Phase I (D) (2016)	-	-	-	128,250	-	128,248	-	-	-	256,498
3105-000 - Air Valve Replacement Design and Permitting (D) (2020)	-	-	-	30,122	-	30,122	-	-	-	60,243
3107-000 - Air Valve Replacement Construction (D) (2021)	-	-	-	59,491	-	59,491	-	-	-	118,982
31221B-000 - Trail Bridge Crossing (D)	-	-	-	(2,136)	-	(2,136)	-	-	-	(4,272)
Total PC21 Reach B/C/D	-	-	-	215,727	-	215,725	-	-	-	431,452
Reach E										
3104-000 - Aliso Creek Long term Repair Planning (E) (2019)	-	-	-	39,266	-	39,266	-	-	-	78,533
3106-000 - Air Valve Replacement Design and Permitting (E) (2020)	-	-	-	18,511	-	18,511	42,457	-	-	79,480
3108-000 - Air Valve Replacement Construction (E) (2021)	-	-	-	31,229	-	31,229	71,629	-	-	134,088
Total PC21 Reach E	-	-	-	89,007	-	89,007	114,086	-	-	292,101
otal PC 21 Effluent Transmission Main	-	-	-	304,734	-	304,732	114,086	-	-	723,552
PC 24 Aliso Creek Ocean Outfall										
3407-000 - Internal Seal Replacement (2018)	(47)	-	-	(70)	(3)	(68)	(189)	-	(53)	(431)
408-000 - Sampling System Repair (2020)	8,125	-	-	12,042	576	11,642	32,394	-	9,094	73,875
480-000 - Internal Seal Replacement (2020)	4,958	-	-	7,347	352	7,104	19,765	-	5,549	45,075
42410-000 - ACOO Outfall Ballast Repairs	15,327	-	-	22,712	1,087	21,960	61,100	-	17,152	139,338
Total PC 24 Aliso Creek Ocean Outfall	28,363	-	-	42,031	2,012	40,638	113,070	-	31,742	257,856
			·			•	·	•	·	
Total Large Capital Cash	1,639,660	26,348	(43,728)	728,270	123,387	345,370	3,776,058	1,820,370	2,097,862	10,597,495

South Orange County Wastewater Authority Small Capital Cash Roll Forward Q3 FY 2023-24

			Small Capital at	fter FY22-23 Use A	udit paid out in FY	2023-24, as of M	March 31, 2024	
		16	19	20	22	23	24	
	PC 02 J B Latham	CLB	ETWD	EBSD	MNWD	SMWD	SCWD	Total
	Liquids							
2223-003	Pump Overhauls	-	-	-	(11,958)	(24,912)	(14,947)	(51,817)
2223-008	Vulcan washpress 4-side	-	-	-	(13,816)	(28,784)	(17,270)	(59,870)
	2 ISCO Samplers (between 3 PC's) Laboratory Equipment and Probe Replacements (between 3 PC's)	-	-	-	1,128 3,170	2,348 6,605	1,410 3,961	4,887 13,736
2224-002	Pump Overhauls	-	-	-	(10,888)	(22,684)	(13,612)	(47,184)
	Vulcan washpress	-	-	-	9,117	18,992	11,392	39,501
	Gate Replacements	-	-	-	2,595	5,409	3,246	11,250
	Building Doors CTP OIT Replacements 2023	-	-	-	6,924 4,326	14,421 9,015	8,655 5,409	30,000 18,750
	Aerzen #5 overhaul two stage motor	-		-	(12,131)	(25,273)	(15,164)	(52,567)
	9-Side Basement RAS Check Valve	-	-	-	(472)	(983)	(590)	(2,045)
	Godwin Pump Exterior Coating	-	-	-	(1,773)	(3,693)	(2,216)	(7,682)
2224-024 2224-032	RSP #1 FAIRBANKS SOLIDS HANDLING PUMP JBL Welding Tanks	-		-	(2,781) (1,925)	(5,794) (4,010)	(3,477) (2,406)	(12,052) (8,341)
2224 002	Total Liquids	-	-	-	(28,484)	(59,342)	(35,608)	(123,434)
		•						
	Common					0.070	4 000	5.045
2223-016 2224-008	Utility Vehicle (between 3 PC's) Safety Equipment	-		-	1,121 5,028	2,670 11,976	1,223 5,496	5,015 22,500
2224-000	Site Security and Access Upgrades 2023 JBL	-	-	-	8,382	19,959	9,159	37,500
2224-010	JBL Wi-Fi Project	-	-	-	5,028	11,976	5,496	22,500
	Utility Vehicle (between 3 PC's)	-	-	-	745	1,774	812	3,331
	Building Lighting Improvements-Common Storage Building	-	-	-	4,191 8,214	9,981 19,560	4,578 8,976	18,750 36,750
2223-033	JBL trash trailer ram replacement	-	-	-	(2,711)	(6,457)	(2,963)	(12,131)
2224-019	Precision Lathe	-	-	-	(1,205)	(2,869)	(1,316)	(5,390)
2224-020	Vinca Ground cover and mulch	-	-	-	(2,452)	(5,840)	(2,680)	(10,972)
2224-029 2224-031	Paint and oil Storage Shed repair. Admin HVAC Replacement	-		-	(3,904) (1,897)	(9,297) (4,517)	(4,266) (2,073)	(17,466) (8,486)
2224 001	Total PC 2 Common	-	-	-	20,541	48,916	22,443	91,900
0000 000	Solids				(2,702)	(7.009)	(2,500)	(12 501)
2223-020 2224-014	Replacement Valves Buildings Door Replacements 2023	-	-	-	<mark>(2,703)</mark> 12,972	(7,298) 35,028	<mark>(2,500)</mark> 12,000	(12,501) 60,000
	Pump Overhauls	-	-	-	8,109	21,891	7,500	37,500
2224-016	Replacement Valves	-	-	-	9,732	26,268	9,000	45,000
	Centrifuge Rebuild	-	-	-	6,088	16,438	5,632	28,158
2224-018		-	-	-	4,053 (1,360)	10,947 (3,672)	3,750 (1,258)	18,750 (6,290)
2224-025 2224-026	DAFT Polymer feed pump Solid Scrubber Recirculation Pump	-	-	-	(5,121)	(13,826)	(4,737)	(23,683)
2724-036	Peterbilt repair - Solids (Split JBL and RTP)	-	-	-	(3,611)	(9,749)	(3,340)	(16,700)
	Total PC 2 Solids	-	-	-	28,160	76,027	26,047	130,233
	Total PC2 JB Latham	-	-	- [20,217	65,601	12,881	98,699
		-	_	_	20,217	00,001	12,001	00,000
	PC 05 San Juan Creek Ocean Outfall							
	PC 15 Coastal Treatment Plant							
	Liquids							
2523-028	Replacement Parkson Rotary Screen Drum	(15,513)	-	(1,221)	(11,970)	-	(12,215)	(40,919)
2524-001		1,851	-	145	1,433	-	1,458	4,887
2524-002 2524-003	Laboratory Equipment and Probe Replacements (between 3 PC's)	(5,968) 3,800	-	(471) 299	<mark>(4,609)</mark> 2,933	-	<mark>(4,699)</mark> 2,993	(15,747) 10,025
	Pump/Blower Overhauls Pump Control Rehabilitations	19,902	-	1,563	15,366	-	15,669	52,500
	Building Lighting Improvements	7,107	-	561	5,484	-	5,598	18,750
2524-006	Liquids Buildings Door Replacements	18,789	-	1,476	14,498	-	14,792	49,556
	CTP OIT Replacements 2023	7,107	-	561	5,484	-	5,598	18,750
	Replacement Valves Flow Meter	11,328 3,684		893 289	8,737 2,840		8,919 2,901	29,876 9,714
	Rotary Screen	17,061		1,341	13,164		13,434	45,000
	Replacement Daft Air Compressor	(255)	-	(20)	(197)	-	(201)	(672)
2524-018	Replacement Aeration Instrumentation Air Compressor	(1,118)	-	(88)	(863)	-	(881)	(2,950)
	Total PC 15 Liquids	67,775	-	5,327	52,300	-	53,367	178,769
	Common							
2223-016	Utility Vehicle (between 3 PC's)	7,584	-	596	5,852	-	5,972	20,004
2524-011	Safety Equipment	8,529	-	672	6,582	-	6,717	22,500
	Landscape Renovations 2023	7,107	-	561	5,484	-	5,598	18,750
	Site Security and Access Upgrades 2023 CTP Replacement Doors	12,795 14,217	-	1,008 1,119	9,873 10,971	-	10,074 11,193	33,750 37,500
	Utility Vehicle (between 3 PC's)	(6,315)		(496)	(4,873)	-	(4,971)	(16,655)
	Total PC 15 Common	43,917	-	3,460	33,889		34,583	115,849
	A)A/T							
2524-016	AWT Meter	_	-	-	-	-	11,250	11,250
2024 010	Total PC 15 AWT	-	-	-	-	-	11,250	11,250
	Total PC 15 Coastal Treatment Plant	91,327	-	7,184	70,473	-	83,164	252,148

South Orange County Wastewater Authority Small Capital Cash Roll Forward Q3 FY 2023-24

	Г		Small Capital afte	r FY22-23 Use Au	dit paid out in FY	2023-24, as of	March 31, 2024	
		16	19	20	22	23	24	
		CLB	ETWD	EBSD	MNWD	SMWD	SCWD	Total
	PC 17 Joint Regional Wastewater Reclamation							
	Liquids							
2723-003	Spare Grit Pump	-	-	-	(40,800)	-	-	(40,800)
2723-007		-	-	-	(4,924)	-	-	(4,924)
	2 ISCO Samplers (between 3 PC's)	-	-	-	5,250	-	-	5,250
2724-003 2724-004	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	-	-	15,000 37,500	-	-	15,000 37,500
	Process Pump Overhaul/Replacements	-	-	-	4,788	-	-	4,788
2724-006		-	-	-	(18,642)	-	-	(18,642)
2724-007	-	-	-	-	18,750	-	-	18,750
	Liquids Building Doors 2023	-	-	-	56,250	-	-	56,250
2724-009		-	-	-	(11,031)	-	-	(11,031)
2724-010		-	-	-	1,609	-	-	1,609
	Primary Scum Gearbox NPO Bleach Pump Replacement	-	-	-	(4,686) (5,668)	-	-	(4,686) (5,668)
2723-033		-	-	-	(5,813)	-	-	(5,813)
2724-001		-	-	-	(363)	-	-	(363)
2724-038	Aeration safety improvements	-	-	-	(4,613)	-	-	(4,613)
2723-030		-	-	-	(9,451)	-	-	(9,451)
	Total PC 17 Liquids	-	-	-	33,156	-	-	33,156
	Common							
2723-012	Access Road Repaving	(419)	(690)	(20)	(5,254)	-	(335)	(6,718)
2223-016		1,256	2,052	68	15,624	-	1,004	20,004
2724-012	Safety Equipment	(660)	(1,077)	(34)	(8,218)	-	(526)	(10,516)
	Access Road Repaving	1,410	2,310	75	17,577	-	1,128	22,500
	Utility Vehicle (between 3 PC's)	(1,044)	(1,710)	(54)	(13,012)	-	(835)	(16,655)
	Replacement Doors - Building #50 WIFI Expansion Project 2023	2,115 (753)	3,462 (1,232)	111 (40)	26,370 (9,378)	-	1,692 (601)	33,750 (12,003)
	Potable Water Backflow Preventer Replacement	(1,410)	(2,307)	(40)	(17,571)	-	(1,127)	(12,003)
2724-033		(394)	(644)	(21)	(4,907)	-	(315)	(6,280)
2724-034	Laboratory Walkway Widening	(854)	(1,398)	(45)	(10,645)	-	(683)	(13,625)
2724-035	y - 1	(760)	(1,244)	(40)	(9,476)	-	(608)	(12,128)
2724-032		(392)	(641)	(21)	(4,879)	-	(313)	(6,245)
	Total PC 17 Common	(1,905)	(3,119)	(94)	(23,769)	-	(1,519)	(30,406)
	Solids							
2723-027		(24)	(44)	(1)	(127)	-	(19)	(216)
2723-029	0	(1,042)	(1,896)	(55)	(5,464)	-	(832)	(9,290)
2724-016	Solids Area Buildings Replacement Doors	7,575	13,776	399	39,702	-	6,048	67,500
2724-017		3,366	6,123	177	17,646	-	2,688	30,000
2724-018		1,683	3,063 6,888	90 198	8,820 19,854	-	1,344 3,024	15,000 33,750
	Replacement Condensate Trap ORT Fan Replacement/Overhaul	3,786 1,515	2,754	81	7.941	-	1,209	13,500
2724-020		(257)	(468)	(14)	(1,349)	-	(205)	(2,293)
	Replacement Valves	2,610	4,746	138	13,674	-	2,082	23,250
2724-024	Replacement YMCA Pump	(788)	(1,434)	(41)	(4,133)	-	(630)	(7,026)
2724-025		(4,299)	(7,820)	(226)	(22,535)	-	(3,433)	(38,312)
2724-029	5 5	(5,857)	(10,654)	(308)	(30,704)	-	(4,677)	(52,200)
2724-028	0	(1,488)	(2,707)	(78)	(7,802)	-	(1,188)	(13,264)
2724-036 2724-040	,	(1,874) (1,456)	(3,409) (2,648)	(99) (77)	(9,823) (7,633)	-	(1,496) (1,163)	(16,700) (12,976)
	Primary Clarifier Repair Parts	(1,790)	(3,256)	(94)	(9,382)	-	(1,429)	(12,970)
	Total PC 17 Solids	1,660	3,014	90	8,685	-	1,322	14,771
	Total DC 17 Joint Perional Wastewater Perlamation	(245)	(104)	(4)	18,072	-	(197)	17,521
	Total PC 17 Joint Regional Wastewater Reclamation							
	Total Small Capital Cash	91,081	(104)	7,180	108,763	65,601	95,848	368,369

South Orange County Wastewater Authority Total Non-Capital Cash Roll Forward Q3 FY 2023-24

	No	on-Capital	Cash Bala	ance After	FY 22-23	Use Audi	t as of Ma	rch 31, 202	24
	16	17	19	20	21	22	23	24	
	CLB	CSC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 02 J B Latham									
Liquids									
42245L-000 - Safety Improvements	-	-	-	-	-	155	323	194	672
Total Liquids	-	-	-	-	-	155	323	194	672
Common									
42243C-000 - Fall Protection Assessment Update	-			_		513	1,222	561	2,296
42244C-000 - Engineering Team Staff Augmentation	-	-	-	-		2,850	6,787	3,113	12,750
42245C-000 - Safety Improvements	-	-		-	-	298	707	326	1,332
42246C-000 - Asset Management Improvements	-	-	-	-	-	2,794	6,654	3,052	12,500
Total Common	-	-	-	-	-	6,455	15,371	7,052	28,878
Solids									
42241S-000 - Safety Improvements Total Solids	-	-	-	-	-	1,082	2,918	1,000 1,000	1,895
l otal Solids	-	-	-	-	-	1,082	2,918	1,000	1,895
Total PC2 JB Latham	-		_	_	_	7,692	18,612	8,245	31,445
Total 1 Of 05 Editalit	-	-	-	-	-	7,002	10,012	0,240	51,445
PC 05 San Juan Creek Ocean Outfall									
46244O-000 - Engineering Team Staff Augmentation	-	3,117	-	-	-	2,907	10,389	2,337	18,750
Total PC5 SJC00	-	3,117	-	-	-	2,907	10,389	2,337	18,750
PC 15 Coastal Treatment Plant									
Liquids									
45240L-000 - Export Sludge System Environmental Mitigation	37,910	-	-	2,986	-	29,254	-	29,850	100,000
452410L-000 - Funding Strategy and Implementation Plan	17,210	-	-	1,354	-	13,283	-	13,553	45,400
45246L-000 - Safety Improvements	1,896	-	-	150 374	-	1,462	-	1,492	5,000
45247L-000 - Asset Management Improvements 45248L-000 - Fall Protection Assessment Update	4,738 4,266	-	-	374 336	-	3,656 3,291	-	3,732 3,357	12,500
45249L-000 - Engineering Team Staff Augmentation	4,200			88	-	3,291 850	-	3,357 870	11,250 2,910
Total Liquids	67,122	-	-	5,288	-	51,796	-	52,853	177,060
	,			-,		,		,	,000
Total PC 15 Coastal Treatment Plant	67,122	-	-	5,288	-	51,796	-	52,853	177,060
PC 17 Joint Regional Wastewater Reclamation									
Liquids 47241L-000 - Safety Improvements						4 000			4 000
Total Liquids	-	-	-	-	-	1,286 1,286	-	-	1,286 1,286
i otar Elquidos	-	-	-	-	-	1,200	-	-	1,200
Common									
472410C-000 - Engineering Team Staff Augmentation	2,302	-	3,767	120	-	28,673	-	1,838	36,700
47245C-000 - Arc Flash 5-year Update	470	-	770	24	-	5,860	-	376	7,500
47246C-000 - Laboratory Upgrade Study	6,268	-	10,260	330	-	78,132	-	5,010	100,000
47247C-000 - Safety Improvements	33	-	53	1	-	399	-	25	511
47248C-000 - Asset Management Improvements	784	-	1,282	42	-	9,766	-	626	12,500
47249C-000 - Fall Protection Assessment Update	521	-	850	29	-	6,471	-	417	8,288
Total Common	10,378	-	16,983	546	-	129,301	-	8,292	165,499
Solids									
	179		324	10		934		142	1,590
			324	10	-	934	-	142	1,590
47242S-000 - Safety Improvements Total Solids	179	-	324						
4/242S-000 - Safety Improvements Total Solids	179	-	324	10					
	179 10,557	-	17,307	556	-	131,521	-	8,434	168,375
Total Solids Total PC 17 Joint Regional Wastewater Reclamation		-			-		-	8,434	168,375
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main		-	17,307		-	131,521	-	8,434	
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main 412440-000 - Engineering Team Staff Augmentation			17,307 4,368		- 4,368	131,521 10,014	-	8,434	18,750
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main			17,307		- 4,368 4,368	131,521	-	8,434 - -	
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main 412440-000 - Engineering Team Staff Augmentation Total PC 21 Effluent Transmission Main			17,307 4,368			131,521 10,014	-	8,434	18,750
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main 412440-000 - Engineering Team Staff Augmentation Total PC 21 Effluent Transmission Main PC 24 Aliso Creek Ocean Outfall	10,557 - -	- - - -	17,307 4,368 4,368		4,368	131,521 10,014 10,014		-	18,750 18,750
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main 412440-000 - Engineering Team Staff Augmentation Total PC 21 Effluent Transmission Main PC 24 Aliso Creek Ocean Outfall 442440-000 - Engineering Team Staff Augmentation	10,557 - - 2,064	- - - - - -	17,307 4,368 4,368 3,057	- - - 147	4,368 2,955	131,521 10,014 10,014 8,220			18,750 18,750 18,750
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main 412440-000 - Engineering Team Staff Augmentation Total PC 21 Effluent Transmission Main PC 24 Aliso Creek Ocean Outfall	10,557 - -	- - - - - -	17,307 4,368 4,368		4,368	131,521 10,014 10,014	- - - - -	-	18,750 18,750
Total Solids Total PC 17 Joint Regional Wastewater Reclamation PC 21 Effluent Transmission Main 412440-000 - Engineering Team Staff Augmentation Total PC 21 Effluent Transmission Main PC 24 Aliso Creek Ocean Outfall 442440-000 - Engineering Team Staff Augmentation	10,557 - - 2,064	- - - - - - - - - - - - - - - - - - 	17,307 4,368 4,368 3,057	- - - 147	4,368 2,955	131,521 10,014 10,014 8,220	- - - - - 29,001		18,750 18,750 18,750

Agenda Item



Board of Directors Meeting

Meeting Date: August 8, 2024

TO:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
SUBJECT:	May 2024 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 eight (8) 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

Fiscal Impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report May, 2024

	••••••••••••••••••••••••••••••••••••••			
Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0

0

Excursion, Complaint, and Violation Events

Plant Wastewater Billing Characteristics

0

0

0

Key Parameters	СТР	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.99	7.04	7.45	0.98	18.45
Effluent (mgd)	2.84	3.72	7.45	2.80	16.81
Peak Flow (mgd)	6.88	14.38	11.05	5.69	38.00
Influent BOD (mg/l)	216	324	283	596	
Influent TSS (mg/l)	237	392	416	579	
Effluent BOD (mg/l)	4.4	4.9	9.0	8.4	
Effluent TSS (mg/l)	4.5	6.1	9.3	8.2	
Effluent Turbidity (NTU)	4.6	3.1	5.1	3.8	

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

Recycled Water (AWT) Operations

Key Parameters	СТР	RTP	JBL	Totals
Average Flow (mgd)	0.53	3.32		3.84
Days of Operation (days)	31	31		
Total Flow (million gallons)	16.4	102.8		119.2
Plant Irrigation (million gallons)	0.10	0.04	0.18	
AWT Time Online (%)	100.0			

Wastewater Unit Definitions

Others

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report May, 2024 (cont'd)

Biosolids Management

Biosolids Management S	СТР	RTP	JBL	Totals	
Synagro Compost (tons)		758.5	0.0	758.5	
Nursery Products (tons)		328.6	567.6	896.1	
Prima Deshecha (tons)			75.1	184.2	259.3
Other: (t	ons)		0.0	0.0	0.0
Total Processed (tons)		1,162.1	751.8	1,913.9	

Summary of Maintenance Activities

Task Type	СТР	RTP	JBL	Totals
Preventative Maintenance	230	318	315	863
Corrective Maintenance	40	29	46	115

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	2	1	0	3
Member Agency	1	4	2	7
Residents	5	0	1	6
Others	5	16	25	46
Tours #/Visitors	1	0	1	2

Grit Disposal Management

Grit & Screenings	СТР	RTP	JBL	Totals	
Simi Valley Landfill (tons)	7.0	27.9	33.2	68.2	

Chemical and Energy Utilization

Chemical/Utility	СТР	RTP	JBL	Totals
Ferric Chloride (tons)	8.9	45.9	18.8	73.7
Utility Power Purchase (kWh)	206,218	928	215,219	422,365
Cogen Power (kWh)		616,363	499,259	1,115,622
Natural Gas (Dth)	2	2,009	1,181	3,191
Digester Gas to Engine (scfm)		9,670,987	7,125,596	16,796,583
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		644	0	644
Digester Gas Power Savings		\$ 94,320		

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 May, 2024 (cont'd)

Agency Wastewater Flows to SOCWA by Facility (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.941	63.07%				1.94
EBSD	0.080	2.60%				0.08
SCWD	1.057	34.33%		1.692	20.10%	2.75
MNWD	0.000	0.00%	7.04	1.400	16.62%	8.44
CSJC				2.070	24.58%	2.07
SMWD				3.259	38.70%	3.26
Total	3.078	100.00%	7.04	8.421	100.00%	18.54

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.94	15.81%	1.94	
EBSD				0.08	0.65%	0.08	
SCWD	1.86	15.60%		0.71	5.74%	2.56	Includes Desalters
MNWD	1.55	13.02%		3.72	30.30%	5.27	
ETWD				2.09	17.05%	2.09	Direct Outfall Only
CSJC	2.54	21.33%				2.54	Incudes Desalter
SMWD	3.31	27.80%				3.31	Includes Chiquita
CSC	2.65	22.25%				2.65	Direct Outfall Only
IRWD				3.74	30.44%	3.74	Direct Outfall Only
Total	11.90	100.00%	10.83	12.28	100.00%	24.18	

SOCWA Operational Report May, 2024 (cont'd) FY Flow/Solids Summary-Billing

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	2.108	27.50%	2.070	24.58%	2.24	28.04%
MNWD	3.00	23.08%	1.400	18.26%	1.400	16.62%	1.40	17.56%
SCWD	3.75	28.85%	1.598	20.85%	1.692	20.10%	1.82	22.80%
SMWD	2.25	17.31%	2.559	33.39%	3.259	38.70%	2.52	31.60%
Total	13.00	100.00%	7.665	100.00%	8.421	100.00%	7.97	100.00%
			Project C	ommittee	No. 2 Soli	ds (JBL)		
Agency	Own (Ibs/d)	Own (%)	Budget (Ibs/d)	Budget (%)	Month (Ibs/d)	Month (%)	36 Month Rol. Avg. (Ibs/d) (2)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	6,202	20.48%	6,411	25.45%	6,535	27.10%
MNWD	8,340	21.62%	5,183	17.12%	4,414	17.52%	5,055	20.96%
SCWD	7,715	20.00%	5,693	18.80%	4,088	16.23%	4,549	18.86%
SMWD	10,946	28.38%	13,200	43.60%	10,277	40.80%	7,977	33.08%
Total	38,573	100.00%	30,278	100.00%	25,191	100.00%	24,117	100.00%

Project Committee No. 2 Liquids (JBL)

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%	2.647	22.25%	2.953	23.52%
CSJC	11.08%	8.860	11.08%	2.538	21.33%	2.680	21.35%
MNWD(3)	15.51%	12.410	15.51%	1.549	13.02%	2.377	18.93%
SCWD	12.46%	9.970	12.46%	1.857	15.60%	1.958	15.60%
SMWD	44.32%	35.460	44.33%	3.308	27.80%	2.586	20.60%
Total	100.00%	80.000	100.00%	11.898	100.00%	12.553	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 is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- d. The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

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

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

SOCWA Operational Report May, 2024 (cont'd) FY Flow/Solids Summary-Billing (cont'd)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)		
CLB	2.54	37.91%	1.430	53.56%	1.941	63.07%	1.639	57.52%		
EBSD	0.20	2.99%	0.060	2.25%	0.080	2.60%	0.075	2.62%		
SCWD	2.00	29.85%	1.180	44.19%	1.057	34.33%	1.136	39.86%		
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%		
Total	6.70	100.00%	2.670	100.00%	3.078	100.00%	2.849	100.00%		
	Project Committee No. 17 Liquids (RTP)									
Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)		
Agency CLB	Liquids	-	Plant Influent	Centrate	Total		Date	FT AVG to		
	Liquids (mgd)	Liquids (%)	Plant Influent (mgd)	Centrate (mgd)	Total (mgd)(1)	Total (%)	Date (mgd)	Date (%)		
CLB	Liquids (mgd) 0.01480	Liquids (%)	Plant Influent (mgd) 0.0000	Centrate (mgd) 0.0185	Total (mgd)(1) 0.0185	Total (%) 0.2592%	Date (mgd) 0.0158	Date (%)		
CLB EBSD	Liquids (mgd) 0.01480 0.00060	Liquids (%) 0.2040% 0.0083%	Plant Influent (mgd) 0.0000 0.0000	Centrate (mgd) 0.0185 0.0008	Total (mgd)(1) 0.0185 0.0008	Total (%) 0.2592% 0.0107%	Date (mgd) 0.0158 0.0007	Date (%) 0.2067% 0.0095%		
CLB EBSD SCWD	Liquids (mgd) 0.01480 0.00060 0.01210	Liquids (%) 0.2040% 0.0083% 0.1668%	Plant Influent (mgd) 0.0000 0.0000 0.0000	Centrate (mgd) 0.0185 0.0008 0.0101	Total (mgd)(1) 0.0185 0.0008 0.0101	Total (%) 0.2592% 0.0107% 0.1411%	Date (mgd) 0.0158 0.0007 0.0109	Date (%) 0.2067% 0.0095% 0.1421%		

Project Committee No. 15 (CTP)

(1) Month total does not double count MNWD centrate. It is included in the Monthly Plant Influent too.

SOCWA Operational Report May, 2024 (cont'd) FY Flow/Solids Summary (cont'd) Project Committee No. 17 Solids (RTP)

Agency	Own (Ibs/d)	Own (%)	Budget (Ibs/d)	Budget (%)	Total Month (Ibs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,509	13.13%	199,278	16.88%	171,135	14.66%
EBSD	295	0.59%	194	0.56%	8,217	0.70%	7,844	0.67%
SCWD	4,480	8.96%	3,691	10.75%	108,485	9.19%	117,397	10.06%
ETWD	10,200	20.41%	5,207	15.16%	163,607	13.86%	160,384	13.74%
MNWD	29,395	58.82%	20,747	60.40%	700,795	59.37%	710,637	60.87%
Total	49,975	100.00%	34,348	100.00%	1,180,382	100.00%	1,167,397	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%	1.941	15.81%	1.639	13.02%
EBSD	0.78%	0.390	0.78%	0.080	0.65%	0.075	0.59%
ETWD	16.30%	8.151	16.30%	2.094	17.05%	2.589	20.57%
IRWD	15.76%	7.880	15.76%	3.737	30.44%	3.100	24.63%
MNWD	43.85%	21.924	43.85%	3.721	30.30%	4.404	34.99%
SCWD	12.31%	6.155	12.31%	0.705	5.74%	0.780	6.19%
Total	100.00%	50.000	100.00%	12.278	100.00%	12.586	100.00%

SOCWA Operational Report May, 2024 (cont'd)

Select Critical Equipment Repairs

<u> JBL - PC2</u>

Troubleshot failing primary Digester #2 sludge valves Rehabilitated RSP#3 and motor Overhauled Tank#7 drive and flights Troubleshot failed diverter gate on Centrifuge #1 Troubleshot failed failing sump pump on Primary Tank #5 Continued demolition of DAFT Pump #5 that was removed from service Troubleshot failed RAS Bleach system for Plant #1 Replaced two (2) failed scum system valves Repaired failed Outfall Vault sump pump Replaced failed Grid #3 failed modulating valves Troubleshot failing Primary Tank #9 Skimmer Drive Rebuilt failing Polymer Transfer Pump Troubleshot failing Bleach Pump #1 Conducted RWQCB inspection

<u>CTP - PC15</u>

Overhauled North DAFT equipment Repaired failed cover for Rotoscreen #1 Repaired leaking Building #13 roof penetrations and removed unused equipment Replaced sand in AWT Cell Nos. 1 and 2 Trouble failed drain valve for West Primary Sludge Collector #2 Replaced several failed valves on Primary Tank Nos. 3 and 4 Repaired Plant Air Compressor #3 Replaced Rotoscreen #2 Replaced several deteriorated manhole lids around the Plant Replaced failed gate operator at the Aliso and Wood Canyons entrance Replaced failed AWT Bleach Pump and piping for Pump #7 Repaired buried leaking water line under the Secondary Tank stairwell Replaced failed sample line for the ACOO sampler system Conducted RWQCB inspection

<u>RTP - PC17</u>

Repaired failed SET Sump Pump and supporting electrical equipment Replaced failing safety lick plate around the Plant Troubleshot failing Centrifuge Conveyer #2 and Cross Conveyor Replaced corroded and failed brackets for the Headworks Washpress Motor Troubleshot the motor for the Sludge Hopper #1

SOCWA Operational Report May, 2024 (cont'd)

Select Critical Equipment Repairs (cont'd)

RTP - PC17 (cont'd)

Troubleshot failed Emergency Godwin #3 check valve Troubleshot failing Secondary Scum Pump Conducted RWQCB inspection

Support Services - ALL PC'S

Replaced failed pH probe controlling Scrubber No. 1 Recric Pump No. 2 at JBL Repaired failed Scrubber No. 2 Pump - Caustic Stage #1 pump at JBL Troubleshot failing Blower #2 at CTP Troubleshot failed Plant Sump Pump at CTP Replaced failed PLC UPS's at CTP Repaired failed conduit due to corrosion near West Primary #1 at CTP Repaired failed conduit due to corrosion near East RAS Bleach Pump at CTP Replaced failed limit switch for the East Grit Tank Control Valve at CTP Replaced failed GFI for the AWT final effluent turbidity system at CTP Replaced failed WAS Pump Nos. 1, 3, and 4 hour-meters at RTP Troubleshot WAS Pump #3 failed flow meter at RTP

Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

May 2024

	IRWD						SOCV	NA			SOC	WA		IRWD	IRWD	SCWD					
	LOS	S ALISO	DS WR	Р	E	LTOR) WRP		REG	GIONAL	. PLAN	Т	CO	ASTAL	PLAN	Г	IDP	SGU	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
05/01/24	3.413	21.0	7.7	0.4	2.070	17.0	8.0	0.1	3.700	6.3	19.0	<0.1	2.578	2.1	3.0	<0.1	0.391	0.000	0.127	12.279	0.00
05/02/24	3.296	16.0	7.1	<0.1	1.600	23.3	10.4	0.1	3.01	6.7	4.0	<0.1	2.528	3.9	3.0	<0.1	0.391	0.000	0.150	10.975	0.00
05/03/24	3.320	15.0	7.8	<0.1	2.091	28.8	15.3	0.2	3.480	6.2	3.0	0.2	2.862	4.3	4.0	<0.1	0.391	0.000	0.127	12.271	0.00
05/04/24	3.320	14.0		<0.1	2.973	28.4		0.2	4.730	5.2			2.887				0.391	0.000	0.135	14.436	0.01
05/05/24	3.320	15.0	8.2	<0.1	3.137	20.6	8.3	<0.1	5.130	7.8	5.0	<0.1	2.969	5.0	4.0	<0.1	0.391	0.000	0.124	15.071	0.16
05/06/24	3.362	12.0	7.1	<0.1	1.992	11.7		0.1	4.600	5.1	5.0	<0.1	3.019	6.2	5.0	<0.1	0.391	0.000	0.131	13.495	0.00
05/07/24	4.066	19.0	9.0	0.5	1.992	15.3		0.1	4.500	4.5		0.1	2.376			0.1	0.392	0.000	0.143	13.469	0.00
05/08/24	3.312	64.0	9.3	0.2	1.654	12.0	8.5	0.1	3.970	5.7	5.0	<0.1	2.716	1.3	7.0	<0.1	0.391	0.000	0.152	12.195	0.00
05/09/24	3.189	18.0	7.1	0.1	1.552	16.0	9.8	0.1	2.680	5.1	4.0	0.1	2.844	5.4	5.0	<0.1	0.391	0.000	0.219	10.875	0.00
05/10/24	3.295	12.0	7.6	0.1	1.582	22.8	9.1	<0.1	3.610	6.1	4.0	0.1	2.903	4.2	3.0	<0.1	0.391	0.000	0.021	11.802	0.00
05/11/24	3.318	15.0		<0.1	2.105	14.4	9.6	0.1	3.280	4.8			2.317	1.3			0.391	0.000	0.000	11.411	0.00
05/12/24	3.377	16.0	7.1	<0.1	3.312	29.4	6.8	<0.1	4.500	5.9	5.0	<0.1	2.600			<0.1	0.391	0.000	0.000	14.180	0.00
05/13/24	3.709	14.0	8.3	0.3	2.199	9.0		<0.1	4.250	5.9	4.0	<0.1	2.766	15.1	10.0	<0.1	0.391	0.000	0.000	13.315	0.00
05/14/24	3.229	18.0	10.0	0.2	1.583	10.3	5.8	<0.1	3.080	5.8	4.0	0.1	2.772	5.9	5.0	<0.1	0.391	0.000	0.075	11.130	0.00
05/15/24	3.247	8.8	8.8	0.1	1.678	14.3		0.1	2.670	6.5		0.2	3.009	0.9		<0.1	0.000	0.000	0.109	10.713	0.00
05/16/24	3.628	17.0	9.0	0.2	1.520	15.0	7.0	0.1	3.140	5.9	3.0	<0.1	3.095	5.8	5.0	<0.1	0.207	0.000	0.085	11.675	0.00
05/17/24	3.512	20.0	9.8	0.1	2.262	15.4	8.3	0.2	3.850	5.5	5.0	0.1	1.866	2.6	4.0	<0.1	0.205	0.000	0.131	11.826	0.00
05/18/24	3.292	14.0		0.2	2.376	25.6	14.0	0.1	2.310	6.7	5.0		2.747	5.3	3.0		0.392	0.000	0.153	11.270	0.00
05/19/24	3.283	21.0	8.6	0.1	3.350	11.1	6.5	<0.1	4.760	6.5	4.0	<0.1	2.850	6.5	4.9	<0.1	0.391	0.000	0.129	14.763	0.00
05/20/24	3.380	17.0	9.1	0.1	2.290	12.0		0.1	5.250	7.9	3.0	<0.1	2.798	4.3	5.0	<0.1	0.392	0.000	0.130	14.240	0.00
05/21/24	3.388	19.0	15.0	0.1	1.527	16.3	9.5	0.1	4.200	5.7	4.0	<0.1	2.771	4.8	4.0	0.1	0.392	0.000	0.130	12.408	0.00
05/22/24	3.459	18.0	8.7	0.3	1.644	13.0	9.0	<0.1	3.440	6.0	10.0	<0.1	2.342	2.9	5.0	<0.1	0.391	0.000	0.142	11.418	0.00
05/23/24	3.456	24.0	9.5	0.5	1.984	18.0	9.0	<0.1	3.820	5.9	4.0	<0.1	2.752	4.6	5.0	<0.1	0.392	0.000	0.154	12.558	0.00
05/24/24	3.419	18.0	8.0	0.2	1.466	17.6	5.9	0.1	3.230	5.2	5.0	0.1	2.800	2.8	3.0	<0.1	0.391	0.000	0.116	11.422	0.00
05/25/24	3.389	19.0		0.2	2.941	14.4	10.0	0.1	2.970	5.4	3.0		2.578	2.4	3.0		0.392	0.000	0.089	12.359	0.00
05/26/24	3.386	14.0	8.4	0.3	3.230	14.9	7.3	<0.1	4.120	5.3	4.0	<0.1	2.822	3.8	3.1	<0.1	0.392	0.000	0.136	14.086	0.00
05/27/24	3.318	22.0	8.4	0.2	1.858	9.8		0.2	4.820	5.9	3.0	0.1	2.913	1.8	2.0	<0.1	0.391	0.000	0.097	13.397	0.00
05/28/24	3.179	27.0	10.0	0.1	1.947	13.2	6.0	<0.1	4.360	7.0	4.0	<0.1	3.036	6.5	6.0	<0.1	0.392	0.000	0.133	13.047	0.00
05/29/24	3.211	20.0	7.9	0.2	1.625	9.0		0.2	2.670	8.0		0.1	2.843	6.4		<0.1	0.360	0.000	0.110	10.819	0.00
05/30/24	3.240	24.0	8.7	0.2	1.968	22.0	7.6	<0.1	2.660	6.8	5.0	<0.1	2.310	4.4	4.0	<0.1	0.359	0.000	0.123	10.660	0.00
05/31/24	3.247	23.0	8.5	0.3	1.404	21.0	7.9	0.2	2.550	6.9	4.0	0.2	2.845	6.2	4.0	<0.1	0.386	0.000	0.131	10.563	0.00
AVG	3.373	19.2	8.7	<0.2	2.094	16.8	8.7	<0.1	3.721	6.1	4.9	<0.1	2.726	4.5	4.4	<0.1	0.365	0.000	0.113	12.391	
TOTAL	104.56				64.91				115.34				84.51				11.30	0.00	3.502	384.13	0.17

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:	May 2024
REPORT DUE:	July 1 2024
SAMPLE SOURCE:	Surf zone
	<u> </u>

TYPE OF SAMPLE: Grab

Tidal Condition: Low Tide 10:42 Weather: Partly Cloudy COMMENTS: REPORT FREQUENCY:MonthlyEXACT SAMPLE POINTS:As specified in Unified Monitoring PlanSAMPLES COLLECTED BY: SOCWA LabSAMPLES ANALYZED BY:SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	05/01/24	07:51	<10	<10	<2	None	None	None	None	Blue	60	Clear		
S4	05/01/24	10:01	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	05/01/24	09:47	<10	<10	4	None	None	None	None	Blue		Clear		
S6	05/01/24	09:32	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	05/01/24	09:25	<10	<10	<2	None	None	None	None	Blue		Clear		
S7	05/01/24	09:18	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	05/01/24	09:06	100	100	<2	None	None	None	None	Blue		Clear		
S9	05/01/24	09:00	100	20	20	None	None	None	None	Blue		Clear		
ACM1	05/01/24	08:50	100	80	22	None	None	None	None	Brown		Clear	Flowing	
S10	05/01/24	08:33	60	20	<2	None	None	None	None	Blue		Clear		
S11	05/01/24	08:27	40	40	10	None	None	None	None	Blue		Clear		
S12	05/01/24	08:22	20	20	<2	None	None	None	None	Blue		Clear		

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:May 2024REPORT DUE:July 1, 2024SAMPLE SOURCE:Receiving water surf zoneTYPE OF SAMPLE:Grab

Tidal Condition: High Tide 10:32 Weather: Clear COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	l Origin		Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	05/08/24	07:50	10	<10	2	None	None	None	None	Green		Slightly Turbid		
S4	05/08/24	10:10	20	<10	4	None	None	None	None	Green		Slightly Turbid		
S5	05/08/24	09:48	<10	<10	10	None	None	None	None	Green	62	Slightly Turbid		
S6	05/08/24	09:25	10	<10	2	None	None	None	None	Green		Slightly Turbid		
WEST	05/08/24	09:21	10	<10	4	None	None	None	None	Green		Slightly Turbid		
S7	05/08/24	09:15	100	<10	2	None	None	None	None	Green		Slightly Turbid		
S8	05/08/24	08:50	<10	<10	10	None	None	None	None	Green		Slightly Turbid		
S9	05/08/24	08:47	10	<10	2	None	None	None	None	Green		Slightly Turbid		
ACM1	05/08/24	08:14	10	<10	10	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	05/08/24	08:15	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S11	05/08/24	08:10	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S12	05/08/24	08:01	<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

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South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:	May 2024
REPORT DUE:	July 1, 2024
SAMPLE SOURCE:	Receiving water surf zone
TYPE OF SAMPLE:	Grab

Tidal Condition: Low Tide 09:45 Weather: Overcast COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY: SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	05/14/24	07:48	10	<10	<2	None	None	None	None	Blue	62	Clear		
S4	05/14/24	09:52	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	05/14/24	09:40	10	<10	<2	None	None	None	None	Blue		Clear		
S6	05/14/24	09:31	<10	<10	10	None	None	None	None	Blue		Clear		
WEST	05/14/24	09:27	10	<10	<2	None	None	None	None	Blue		Clear		
S7	05/14/24	09:20	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	05/14/24	09:18	10	10	<2	None	None	None	None	Blue		Clear		
S9	05/14/24	09:15	<10	<10	<2	None	None	None	None	Blue		Clear		
ACM1	05/14/24	09:11	500	160	46	None	None	None	None	Blue		Slightly Turbid	Flowing	
S10	05/14/24	08:40	<10	<10	2	None	None	None	None	Blue		Clear		
S11	05/14/24	08:31	<10	<10	<2	None	None	None	None	Blue		Clear		
S12	05/14/24	08:22	<10	20	<2	None	None	None	None	Blue		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:May 2024REPORT DUE:July 1, 2024SAMPLE SOURCE:Receiving water surf zoneTYPE OF SAMPLE:Grab

Tidal Condition: High Tide 09:32 Weather: Overcast COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY:SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Origin		Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	05/22/24	07:58	10	20	4	None	None	None	None	Blue		Clear		
S4	05/22/24	10:24	<10	<10	2	None	None	None	None	Blue	62	Clear		
S5	05/22/24	10:09	20	<10	<2	None	None	None	None	Blue		Clear		
S6	05/22/24	09:56	30	<10	<2	None	None	None	None	Green		Clear		
WEST	05/22/24	09:49	10	<10	<2	None	None	None	None	Green		Clear		
S7	05/22/24	09:42	200	20	<2	None	None	None	None	Green		Clear		
S8	05/22/24	09:28	50	100	2	None	None	None	None	Brown		Clear		
S9	05/22/24	09:23	80	20	10	None	None	None	None	Brown		Slightly Turbid		
ACM1	05/22/24	09:15	200	40	10	None	None	None	None	Brown		Slightly Turbid	Flowing	
S10	05/22/24	08:51	<10	10	4	None	None	None	None	Green		Clear		
S11	05/22/24	08:45	20	30	4	None	None	None	None	Green		Clear		
S12	05/22/24	08:37	70	<10	2	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:May 2024REPORT DUE:July 1, 2024SAMPLE SOURCE:Receiving water surf zoneTYPE OF SAMPLE:Grab

Tidal Condition: Low Tide 08:52 Weather: Overcast COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY:SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Or	gin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	05/29/24	07:45	10	<10	<10	None	None	None	None	Green	59	Clear		
S4	05/29/24	10:05	<10	20	<10	None	None	None	None	Green		Slightly Turbid		
S5	05/29/24	09:45	<10	<10	<10	None	None	None	None	Green		Clear		
S6	05/29/24	09:25	<10	10	<10	None	None	None	None	Green		Clear		
WEST	05/29/24	09:20	<10	<10	<10	None	None	None	None	Green		Clear		
S7	05/29/24	09:10	<10	<10	<10	None	None	None	None	Green		Clear		
S8	05/29/24	09:00	<10	10	<10	None	None	None	None	Green		Clear		
S9	05/29/24	08:50	10	<10	<10	None	None	None	None	Green		Clear		
ACM1	05/29/24	08:45	100	20	100	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	05/29/24	08:20	20	10	<10	None	None	None	None	Green		Clear		
S11	05/29/24	08:10	<10	10	<10	None	None	None	None	Green		Clear		
S12	05/29/24	08:05	10	10	<10	None	None	None	None	Green		Clear		

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



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

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean OutfallReport For:May 2024Report Due:July 1, 2024Sample Source:Receiving water, nearshore and offshoreExact Sample Points:As specified in permitSamples Collected By:Seaventures/SOCWA staffSamples Analyzed By:SOCWA Lab

Report Frequency: Monthly

Sampling Frequency: Monthly Type of Sample: Grab

Comments:

High tide @ 09:22

			Total Coliform	Fecal Coliform	Entero- coccus		01.0		0 - None 1 - Mild
Sta No.	Sample Depth	Sample Date	CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	2 - Moderate 3 - Severe
A-1	Surface	05/07/24	<2	2	<2	08:17	0	0	
A-1	Mid depth	05/07/24	40	10	<10				
A-2	Surface	05/07/24	2	4	<2	08:05	0	0	
A-2	Mid depth	05/07/24	20	<10	<10				
A-3	Surface	05/07/24	<2	<2	<2	08:35	0	0	
A-3	Mid depth	05/07/24	<10	<10	<10				
A-4	Surface	05/07/24	<2	4	<2	08:44	0	0	
A-4	Mid depth	05/07/24	50	30	<10				
A-5	Surface	05/07/24	<2	<2	<2	08:28	0	0	
A-5	Mid depth	05/07/24	210	60	<10				
B-1	Surface	05/07/24	2	12	2	07:42	0	0	
B-1	Mid depth	05/07/24	120	<10	<10				
B-2	Surface	05/07/24	<2	<2	<2	08:57	0	0	
B-2	Mid depth	05/07/24	10	<10	<10				
N1	Surface	05/07/24	<2	<2	<2	09:52	0	0	
N2	Surface	05/07/24	<2	<2	<2	09:44	0	0	
N3	Surface	05/07/24	<2	<2	<2	09:39	0	0	
N4	Surface	05/07/24	<2	<2	<2	09:34	0	0	
N5	Surface	05/07/24	<2	2	<2	09:28	0	0	
N6	Surface	05/07/24	<2	<2	<2	09:22	0	0	
N7	Surface	05/07/24	<2	<2	<2	09:15	0	0	

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

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

May 2024

																CSJC	SCWD			
	-		M FACIL			CLEME			SMWD		-			3-A PL				Desalter		
	FLOW	TSS	cBOD	SS	FLOW		cBOD	SS	FLOW		cBOD		FLOW		cBOD		FLOW	FLOW	FLOW	Fall
DATE	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD		mg/L		MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	inches
05/01/24	7.240	7.0	5.7	<0.1	3.064	9.7	10.0	0.1	0.225	6.7	7.4	<0.1	0.152	8.0	5.4	<0.1	0.500	0.171	13.440	0.00
05/02/24	7.360	8.0	6.6	<0.1	2.398	9.4	11.0	0.1	0.194	5.2	5.0	0.1	0.029	6.2	5.0	<0.1	0.500	0.010	12.000	0.00
05/03/24	7.630	9.2	5.0	<0.1	2.151	9.0	7.0	0.1	0.091	4.5	4.8	<0.1	0.025	7.2	5.6	<0.1	0.500	0.178	11.580	0.00
05/04/24	7.630	7.8			2.835		8.0		0.206	2.5	4.0	<0.1	0.024				0.480	0.177	11.900	0.01
05/05/24	7.840	7.9	7.7	<0.1	3.262				0.403	4.8	5.3	<0.1	0.022				0.510	0.173	12.590	0.16
05/06/24	7.930	9.1	8.6	<0.1	3.365	8.6	7.0	<0.1	0.262	6.9	4.9	<0.1	0.013	9.0	5.4	<0.1	0.510	0.178	13.440	0.00
05/07/24	7.690	8.6		<0.1	3.041	7.6	8.0	<0.1	0.019	8.4	4.7	0.5	0.008	9.0	6.3	<0.1	0.510	0.173	13.010	0.00
05/08/24	7.950	8.9	8.0	<0.1	3.073	7.5	6.0	0.1	0.014	4.0	5.1	<0.1	0.009	9.6	6.8	<0.1	0.550	0.177	12.600	0.00
05/09/24	7.980	6.8	8.6	0.1	2.683	7.5	6.0	<0.1	0.001	4.7	7.2	<0.1	0.014	6.2	4.8	<0.1	0.490	0.178	12.620	0.00
05/10/24	7.800	6.1	6.6	<0.1	2.672	9.6	7.0	<0.1	0.001	3.6	3.0	<0.1	0.008	6.2	5.0	<0.1	0.550	0.173	12.100	0.00
05/11/24	7.760	7.9			2.138				0.000				0.009				0.550	0.178	11.790	0.00
05/12/24	8.230	11.1	8.5	<0.1	2.851				0.000				0.003				0.510	0.178	12.300	0.00
05/13/24	8.160	10.1	9.2	0.1	2.740	9.6	11.0	<0.1	0.004	4.5	4.7	<0.1	0.010	6.4	4.7	<0.1	0.500	0.172	12.180	0.00
05/14/24	8.050	10.4	8.3	<0.1	2.532	9.2	10.0	<0.1	0.000				0.019	8.6	6.4	<0.1	0.500	0.178	12.130	0.00
05/15/24	7.850	9.4		<0.1	3.125	9.2	7.0	<0.1	0.018	3.9	4.3	<0.1	0.019	6.4	4.9	<0.1	0.500	0.172	11.950	0.00
05/16/24	7.890	10.0	9.9	<0.1	2.331	8.6	6.0	<0.1	0.000				0.710	6.0	4.7	<0.1	0.500	0.177	11.800	0.00
05/17/24	7.900	8.8	13.0	0.1	2.244	5.4	5.0	<0.1	0.000				0.888	6.6	5.1	<0.1	0.500	0.177	12.300	0.00
05/18/24	7.910	8.7	6.9		3.332		8.0		0.000				0.905				0.500	0.172	12.930	0.00
05/19/24	8.050	9.7	9.6	<0.1	2.700				0.000				0.031				0.500	0.177	12.770	0.00
05/20/24	8.090	13.0	13.6	<0.1	2.768	7.7	8.0	<0.1	0.000				0.011	8.6	5.8	<0.1	0.270	0.027	12.350	0.00
05/21/24	8.070	10.3	10.6	0.1	3.329	7.6	9.0	<0.1	0.000				0.006	6.2	4.8	<0.1	0.000	0.157	11.860	0.00
05/22/24	7.910	9.7	9.4	<0.1	1.898	7.9	7.0	<0.1	0.019	3.9	4.1	<0.1	0.083	7.2	5.6	<0.1	0.140	0.177	10.920	0.00
05/23/24	8.300	8.1	9.1	<0.1	2.629	7.5	7.0	0.1	0.000				0.014	6.8	5.3	<0.1	0.530	0.178	12.250	0.00
05/24/24	7.820	7.6	7.4	<0.1	2.527	7.6	6.0	<0.1	0.000				0.008	9.0	5.9	<0.1	0.540	0.155	11.870	0.00
05/25/24	7.780	7.8	9.0		2.206		9.0		0.000				0.006				0.540	0.174	11.800	0.00
05/26/24	7.840	9.8	9.2	<0.1	2.740				0.000				0.013				0.530	0.178	11.960	0.00
05/27/24	7.750	6.8	7.2	<0.1	2.221	8.4	10.0	<0.1	0.017	2.7	5.0	<0.1	0.010	9.2	6.0	<0.1	0.490	0.176	11.850	0.00
05/28/24	8.230	10.6	12.2	<0.1	2.273	8.8	8.0	<0.1	0.001	4.0	4.5	<0.1	0.020	11.6	8.0	<0.1	0.470	0.175	12.380	0.00
05/29/24	7.750	8.3		<0.1	2.286	7.6	8.0	<0.1	0.025	5.2	4.7	0.1	0.011	7.0	5.0	<0.1	0.450	0.177	11.560	0.00
05/30/24	7.840	10.5	11.0	<0.1	2.653	6.4	6.0	<0.1	0.000				0.706	11.2	7.6	<0.1	0.450	0.177	11.740	0.00
05/31/24	7.690	7.9	7.7	0.1	1.990	7.2	6.0	<0.1	0.000				0.822	9.0	6.0	<0.1	0.450	0.173	11.850	0.00
AVG	7.868	8.9	8.8	<0.1	2.647	8.2	7.7	<0.1	0.048	4.7	4.9	<0.1	0.149	7.9	5.7	<0.1	0.468	0.164	12.188	
TOTAL	243.920				82.057				1.500				4.608				14.520	5.093	377.820	0.17

#1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: May 2024
- REPORT DUE: July 1, 2024

SAMPLE SOURCE: Receiving water surf zone

Grab

TYPE OF SAMPLE:

Tidal Condition: Low Tide 11:45 Weather: Overcast COMMENTS:

Total

Fecal

Entero-

REPORT FREQUENCY:MonthlyEXACT SAMPLE POINTS:As specified in Unified Monitoring PlanSAMPLES COLLECTED BY:SOCWA LabSAMPLES ANALYZED BY:SOCWA Lab

			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	igin	Oil &		Water	H20	Water	Water	
STATION							0							
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	05/02/24	09:15	1000	940	380	None	None	None	None	Green		Turbid		
S1	05/02/24	09:25	40	20	10	None	None	None	None	Green		Turbid		
S2	05/02/24	10:15	20	<20	2	None	None	None	None	Green		Turbid		
DSB5	05/02/24	10:25	100	20	4	None	None	None	None	Green		Turbid		
S3	05/02/24	09:30	<20	40	34	None	None	None	None	Green		Turbid		
DSB4	05/02/24	09:30	100	60	40	None	None	None	None	Green		Turbid		
S5	05/02/24	09:45	20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	05/02/24	09:50	<20	20	6	None	None	None	None	Green		Turbid		
SJC1	05/02/24	09:17	4700	2950	730	None	None	None	None	Green	63	Turbid	Flowing	

#2

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: May 2024
- REPORT DUE: July 1, 2024

SAMPLE SOURCE: Receiving water surf zone

Grab

TYPE OF SAMPLE:

Tidal Condition: High Tide 09:39 Weather: ^{Clear}

T-4-1

F = = = 1

E. . t. . . .

COMMENTS:

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

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	05/07/24	09:03	100	20	40	None	None	None	None	Green		Slightly Turbid		
S1	05/07/24	09:07	80	40	26	None	None	None	None	Green		Slightly Turbid		
S2	05/07/24	08:33	60	<20	20	None	None	None	None	Green		Slightly Turbid		
DSB5	05/07/24	08:27	20000	1300	88	None	None	None	None	Green		Slightly Turbid	Flowing	
S3	05/07/24	09:17	200	<20	8	None	None	None	None	Green		Slightly Turbid		
DSB4	05/07/24	09:21	60	40	20	None	None	None	None	Green		Slightly Turbid		
S5	05/07/24	09:30	<20	20	20	None	None	None	None	Green	62	Slightly Turbid		
DSB1	05/07/24	09:27	<20	<20	40	None	None	None	None	Green		Slightly Turbid		
SJC1	05/07/24	08:57	200	300	10	None	None	None	None	Green		Slightly Turbid	Flowing	

#3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: May 2024
- REPORT DUE: July 1, 2024

SAMPLE SOURCE: Receiving water surf zone

Grab

TYPE OF SAMPLE:

Tidal Condition: Low Tide 10:44 Weather: Overcast

T-4-1

Essel Esters

COMMENTS:

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

			Iotal	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	f Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	05/15/24	09:15	240	80	10	None	None	None	None	Green		Clear		
S1	05/15/24	08:55	60	60	10	None	None	None	None	Green		Clear		
S2	05/15/24	09:50	240	260	320	None	None	None	None	Green	57	Slightly Turbid		
DSB5	05/15/24	10:05	40	100	96	None	None	None	None	Green		Slightly Turbid		
S3	05/15/24	09:05	40	40	4	None	None	None	None	Green		Clear		
DSB4	05/15/24	08:50	60	60	26	None	None	None	None	Green		Slightly Turbid		
S5	05/15/24	08:45	40	40	10	None	None	None	None	Green		Slightly Turbid		
DSB1	05/15/24	08:40	<20	20	2	None	None	None	None	Green		Slightly Turbid		
SJC1	05/15/24	09:25	650	500	120	None	None	None	None	Brown		Turbid	Flowing	

#4

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- May 2024 REPORT FOR:
- July 1, 2024 REPORT DUE:

SAMPLE SOURCE: Receiving water surf zone

TYPE OF SAMPLE:

Tidal Condition: High Tide 09:10 Weather: Fog

Total

Fecal

Entero-

Grab

COMMENTS:

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

			rotar	reedi	Entero									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Or	gin	Oil &		Water	H20	Water	Water	
STATION							•							
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	05/21/24	08:53	120	20	6	None	None	None	None	Brown		Turbid		
S1	05/21/24	09:15	20	40	8	None	None	None	None	Brown		Turbid		
S2	05/21/24	09:52	20	<20	<2	None	None	None	None	Green		Turbid		
DSB5	05/21/24	10:00	<20	<20	20	None	None	None	None	Green		Turbid		
S3	05/21/24	09:17	20	20	10	None	None	None	None	Brown		Turbid		
DSB4	05/21/24	09:17	60	20	4	None	None	None	None	Brown		Turbid		
S5	05/21/24	09:25	20	20	8	None	None	None	None	Brown		Turbid		
DSB1	05/21/24	09:30	<20	<20	2	None	None	None	None	Brown		Turbid		
SJC1	05/21/24	08:55	<=100	40	30	None	None	None	None	Brown	60	Turbid	Flowing	50

#5

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR:	May 2024
REPORT DUE:	July 1, 2024
SAMPLE SOURCE:	Receiving water surf zone
TYPE OF SAMPLE:	Grab

Tidal Condition: Low Tide 09:58 Weather: Overcast COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY:SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	05/30/24	09:06	60	60	20	None	None	None	None	Green		Clear		
S1	05/30/24	09:10	80	<20	10	None	None	None	None	Green		Slightly Turbid		
S2	05/30/24	08:29	20	20	4	None	None	None	None	Green		Clear		
DSB5	05/30/24	08:24	60	<20	<2	None	None	None	None	Green		Clear		
S3	05/30/24	09:27	20	20	2	None	None	None	None	Green		Clear		
DSB4	05/30/24	09:30	20	<20	<2	None	None	None	None	Green		Clear		
S5	05/30/24	09:40	<20	<20	2	None	None	None	None	Green	63	Clear		
DSB1	05/30/24	09:44	<20	<20	<2	None	None	None	None	Green		Clear		
SJC1	05/30/24	08:59	>=4400	4700	250	None	None	None	None	Green		Slightly Turbid	Flowing	



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 DSB 5	Location 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

South Orange County Wastewater Authority

 DISCHARGE: San Juan Creek Ocean Outfal
 May 2024
 Report For:

 Report For:
 July 1, 2024
 Report Frequencies

 Sample Source:
 Receiving water, nearshore and offshore
 Sampling Frequencies

 Exact Sample Points:
 As specified in permit
 Type of Sam

 Samples Collected By:
 Seaventures/SOCWA staff
 Samples

Report Frequency: Monthly

Sampling Frequency: Monthly Type of Sample: Grab

Comments:

High Tide 10:18

Samples Analyzed By: SOCWA Lab

						•			_
			Total	Fecal	Entero-				0 - None
			Coliform	Coliform	coccus				1 - Mild
Station	Sample	Sample	CFU/100ml	CFU/100ml	CFU/100ml	Sample	Oil &	Sewage	2 - Moderate
No.	Depth	Date	SM9222B	SM9222D	EPA 1600	Time	Grease	Debris	3 - Severe
A-1	Sunace	05/08/24	4	<2	<2	08:31	0	0	
A-1	Mid depth	05/08/24	<10	<10	<10				
A-2	Surface	05/08/24	<2	<2	<2	08:22	0	0	
A-2	Mid depth	05/08/24	<10	<10	<10				
A-3	Surface	05/08/24	<2	<2	<2	09:17	0	0	
A-3	Mid depth	05/08/24	<10	<10	<10				
A-4	Surface	05/08/24	<2	<2	<2	09:25	0	0	
A-4	Mid depth	05/08/24	<10	<10	<10				
A-5	Surface	05/08/24	<2	<2	<2	09:12	0	0	
A-5	Mid depth	05/08/24	<10	<10	<10				
B-1	Surface	05/08/24	2	<2	<2	07:59	0	0	
B-1	Mid depth	05/08/24	140	40	10				
B-2		05/08/24	<2	<2	<2	09:36	0	0	
B-2	Mid depth	05/08/24	<10	<10	<10				
N1	Surface	05/08/24	<2	<2	<2	07:55	0	0	
N2		05/08/24	<2	<2	<2	07:50	0	0	
N3		05/08/24	<2	<2	<2	07:42	0	0	
N4		05/08/24	10	2	<2	07:36	0	0	
	Surface	05/08/24	>=320	20	2	07:30	0	0	
N5	Sunace	05/08/24	46	20	20	07:20	0	0	
N6	Surface					-			

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

Agenda Item



Board of Directors Meeting

Meeting Date: August 8, 2024

TO: Board of Directors

FROM: Jim Burror, Acting General Manager/Director of Operations

SUBJECT: June 2024 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 – Fiscal Year 2023-24

An eight (8) 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. Fiscal Year Report on Key Operational Expenses

These charts include tracking of monthly expenses for key operational expenses with estimated projections for the Fiscal Year. The key parameters that are being tracked are Electricity, Odor Control, Polymer, Biosolids, Maintenance expenses (not including SOCWA staff labor), small capital purchases, and safety.

- 4. Beach Ocean Monitoring Report
- 5. Recycled Water Report
- 6. Pretreatment Report

Fiscal Impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report June, 2024

Excursion, Complaint	, and	Violation	Events
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Events	СТР	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

Plant Wastewater Billing Characteristics

Key Parameters	СТР	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.98	6.86	7.32	0.98	18.14
Effluent (mgd)	2.75	2.73	7.32	2.66	15.46
Peak Flow (mgd)	8.96	14.22	10.46	5.83	39.47
Influent BOD (mg/l)	234	324	235	375	
Influent TSS (mg/l)	245	370	419	475	
Effluent BOD (mg/l)	5.0	5.7	7.5	9.3	
Effluent TSS (mg/l)	5.3	5.8	9.1	9.6	
Effluent Turbidity (NTU)	1.9	2.8	4.3	4.9	

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

Recycled Water (AWT) Operations

Key Parameters	СТР	RTP	JBL	Totals
Average Flow (mgd)	1.10	4.13		5.23
Days of Operation (days)	30	30		
Total Flow (million gallons)	32.9	124.0		157.0
Plant Irrigation (million gallons)	0.10	0.20	0.15	
AWT Time Online (%)	90%			

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 June, 2024 (cont'd)

Biosolids Management

Biosolids Management	Site	СТР	RTP	JBL	Totals
Synagro Compost (tons)			747.3	0.0	747.3
Nursery Products (tons)			300.7	605.2	905.9
Prima Deshecha (tons)			70.4	131.3	201.7
Other:	(tons)		0.0	0.0	0.0
Total Processed (tons)			1,118.3	736.5	1,854.8

Summary of Maintenance Activities

Task Type	СТР	RTP	JBL	Totals
Preventative Maintenance	215	258	249	722
Corrective Maintenance	12	33	28	73

Site Visitors

Visitor Types	СТР	RTP	JBL	Totals
Regulatory	2	0	1	3
Member Agency	0	11	0	11
Residents	0	0	0	0
Others	8	11	11	30
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	СТР	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	13.0	9.2	28.2

Chemical and Energy Utilization

Chemical/Utility	СТР	RTP	JBL	Totals
Ferric Chloride (tons)	NA	8.7	18.8	27.5
Utility Power Purchase (kWh)	230,113	(1)	269,152	499,265
Cogen Power (kWh)		109,114	350,270	459,384
Natural Gas (Dth)	NA	NA	NA	0
Digester Gas to Engine (scfm)		1,721,163	4,828,243	6,549,406
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		5,273,864	1,313,692	6,587,556
Digester Gas Power Savings		(1)		

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

(1) A SCE billing error has delayed the June 2024 and future billings until further notice.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report June, 2024 (cont'd)

Agency Wastewater Flows to SOCWA by Facility (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.897	61.53%				1.90
EBSD	0.054	1.76%				0.05
SCWD	1.132	36.71%		1.460	17.59%	2.59
MNWD	0.000	0.00%	6.86	1.400	16.87%	8.26
CSJC				2.174	26.20%	2.17
SMWD				3.265	39.34%	3.26
Total	3.083	100.00%	6.86	8.299	100.00%	18.25

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.90	18.28%	1.90	
EBSD				0.05	0.52%	0.05	
SCWD	1.62	14.16%		0.67	6.43%	2.29	Includes Desalters
MNWD	1.48	12.92%		2.73	26.31%	4.21	
ETWD				1.46	14.05%	1.46	Direct Outfall Only
CSJC	2.61	22.86%				2.61	Incudes Desalter
SMWD	3.28	28.69%				3.28	Includes Chiquita
CSC	2.44	21.38%				2.44	Direct Outfall Only
IRWD				3.57	34.39%	3.57	Direct Outfall Only
Total	11.43	100.00%	9.59	10.38	100.00%	21.81	

SOCWA Operational Report June, 2024 (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 (%)					
CSJC	4.00	30.77%	2.108	27.50%	2.174	26.20%	2.23	27.88%					
MNWD	3.00	23.08%	1.400	18.26%	1.400	16.87%	1.40	17.50%					
SCWD	3.75	28.85%	1.598	20.85%	1.460	17.59%	1.79	22.35%					
SMWD	2.25	17.31%	2.559	33.39%	3.265	39.34%	2.58	32.27%					
Total	13.00	100.00%	7.665	100.00%	8.299	100.00%	8.00	100.00%					

Project Committee No. 2 Liquids (JBL)

Project Committee No. 2 Solids (JBL)

Agency	Own (Ibs/d)	Own (%)	Budget (Ibs/d)	Budget (%)	Month (Ibs/d)	Month (%)	36 Month Rol. Avg. (Ibs/d) (2)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	6,202	20.48%	5,881	27.13%	6,499	27.21%
MNWD	8,340	21.62%	5,183	17.12%	3,872	17.87%	4,961	20.77%
SCWD	7,715	20.00%	5,693	18.80%	2,893	13.35%	4,434	18.57%
SMWD	10,946	28.38%	13,200	43.60%	9,030	41.66%	7,988	33.45%
Total	38,573	100.00%	30,278	100.00%	21,676	100.00%	23,882	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%	2.444	21.38%	2.911	23.36%
CSJC	11.08%	8.860	11.08%	2.613	22.86%	2.674	21.46%
MNWD(3)	15.51%	12.410	15.51%	1.477	12.92%	2.303	18.48%
SCWD	12.46%	9.970	12.46%	1.618	14.16%	1.930	15.48%
SMWD	44.32%	35.460	44.33%	3.280	28.69%	2.644	21.22%
Total	100.00%	80.000	100.00%	11.432	100.00%	12.462	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 is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.

- c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- d. The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

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

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

SOCWA Operational Report June, 2024 (cont'd) FY Flow/Solids Summary-Billing (cont'd)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)			
CLB	2.54	37.91%	1.430	53.56%	1.897	61.53%	1.660	57.87%			
EBSD	0.20	2.99%	0.060	2.25%	0.054	1.76%	0.073	2.54%			
SCWD	2.00	29.85%	1.180	44.19%	1.132	36.71%	1.136	39.59%			
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%			
Total	6.70	100.00%	2.670	100.00%	3.083	100.00%	2.868	100.00%			
	Project Committee No. 17 Liquids (RTP)										
Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)			
CLB	0.01480	0.2040%	0.0000	0.0196	0.0196	0.2811%	0.0161	0.2123%			
EBSD	0.00060	0.0083%	0.0000	0.0006	0.0006	0.0080%	0.0007	0.0093%			
SCWD	0.01210	0.1668%	0.0000	0.0117	0.0117	0.1678%	0.0109	0.1440%			
ETWD	0.01810	0.2495%	0.0000	0.0149	0.0149	0.2144%	0.0150	0.1978%			
MNWD	7.20960	99.3715%	6.8637	0.0591	6.9228	99.3287%	7.5547	99.4365%			
Total	7.25520	100.0000%	6.8637	0.1059	6.9696	100.0000%	7.5975	100.0000%			

Project Committee No. 15 (CTP)

(1) Month total does not double count MNWD centrate. It is included in the Monthly Plant Influent too.

SOCWA Operational Report June, 2024 (cont'd) FY Flow/Solids Summary (cont'd) Project Committee No. 17 Solids (RTP)

Agency	Own (Ibs/d)	Own (%)	Budget (Ibs/d)	Budget (%)	Total Month (Ibs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,509	13.13%	208,750	18.50%	174,269	14.97%
EBSD	295	0.59%	194	0.56%	5,964	0.53%	7,687	0.66%
SCWD	4,480	8.96%	3,691	10.75%	124,565	11.04%	117,995	10.13%
ETWD	10,200	20.41%	5,207	15.16%	159,224	14.11%	160,635	13.79%
MNWD	29,395	58.82%	20,747	60.40%	629,828	55.82%	703,903	60.45%
Total	49,975	100.00%	34,348	100.00%	1,128,331	100.00%	1,164,489	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%	1.897	18.28%	1.660	13.38%
EBSD	0.78%	0.390	0.78%	0.054	0.52%	0.073	0.59%
ETWD	16.30%	8.151	16.30%	1.458	14.05%	2.496	20.12%
IRWD	15.76%	7.880	15.76%	3.569	34.39%	3.139	25.30%
MNWD	43.85%	21.924	43.85%	2.730	26.31%	4.267	34.40%
SCWD	12.31%	6.155	12.31%	0.668	6.43%	0.771	6.21%
Total	100.00%	50.000	100.00%	10.376	100.00%	12.405	100.00%

SOCWA Operational Report June, 2024 (cont'd)

Select Critical Equipment Repairs

<u> JBL - PC2</u>

Overhauled Digester 2 Mix Pump Repaired digester piping supports around Digester 2 Replaced failed sludge valve on Digester 2 Replaced failed natural gas Blower #3 Replaced failed scum decant pump Jetted a blockage on the scumline Repaired a leak on the Sludge Feed Pump CFP #1 feed line Repaired failed heater block on emergency Godwin Pump #2 Replaced failed motor for process water Strainer #2 Troubleshot failed 9-Side screenings compactor and auger Troubleshot failed 9-Side grit pump

<u>CTP - PC15</u>

Removed unused conduit and conductors in Building #9 Replaced failed conduit for fresh air fan in Building #41 Repaired failed chain and flight on Secondary #2 Replaced primary sludge grinder system and corroded concrete pad Troubleshot Blower #2 that failed cooling water system Replaced failed Secondary West #1 Collector Drive

<u>RTP - PC17</u>

Replaced failed plant drain overflow bypass line Replaced several corroded vault covers Troubleshot failed lab fume hood Repaired leaking DAF recirculation piping for DAFT #1 Troubleshot failing DAFT #2 skimmer wipers Repaired leaking pipes for the East RAS Bleach system Replaced failed piping for Odor Scrubber 1 Bleach Pump Troubleshot failing SET Pump 4 Replaced failing pressure gauges on Digester #2 Replaced corroded safety kick plate around the plant Troubleshot blocked plant drainage system inspect it. Bar Screen 2 Troubleshot failing Barscreen #2

SOCWA Operational Report June, 2024 (cont'd)

Select Critical Equipment Repairs (cont'd)

Support Services - ALL PC'S

Troubleshot the 9-side Blower PLC and the touchscreen that failed at JBL Requested new SCR blocks due to progressive deterioration of the NOx emissions at JBL and RTP Troubleshot failed 4-Side RAS TSS meter at JBL Troubleshot failed DO Probe Caps for West Basin #2A probe at CTP Replaced failed East Bleach Residual Analyzer at CTP Troubleshot East Primary Sludge alarm system that failed at CTP Tested and repaired failing gas detector equipment at RTP Troubleshot failing flow meters on Digester #2 at RTP Replaced failed calibration column on East RAS Bleach Pump at RTP Replaced failed UPS Battery for solids area PLC at RTP

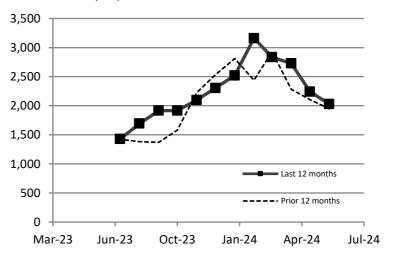
SOCWA Ocean Outfall Discharges by Agency

SOCWA	Operational	Report June,	2024	(cont'd)	
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Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.90	18.28%	1.90
EBSD			0.05	0.52%	0.05
SCWD	1.62	14.16%	0.67	6.43%	2.29
MNWD	1.48	12.92%	2.73	26.31%	4.21
ETWD			1.46	14.05%	1.46
CSJC	2.61	22.86%			2.61
SMWD	3.28	28.69%			3.28
CSC	2.44	21.38%			2.44
IRWD			3.57	34.39%	3.57
Total	11.43	100.00%	10.38	100.00%	21.81
	or Acre-Feet per year equivalent 24,425			24,425	

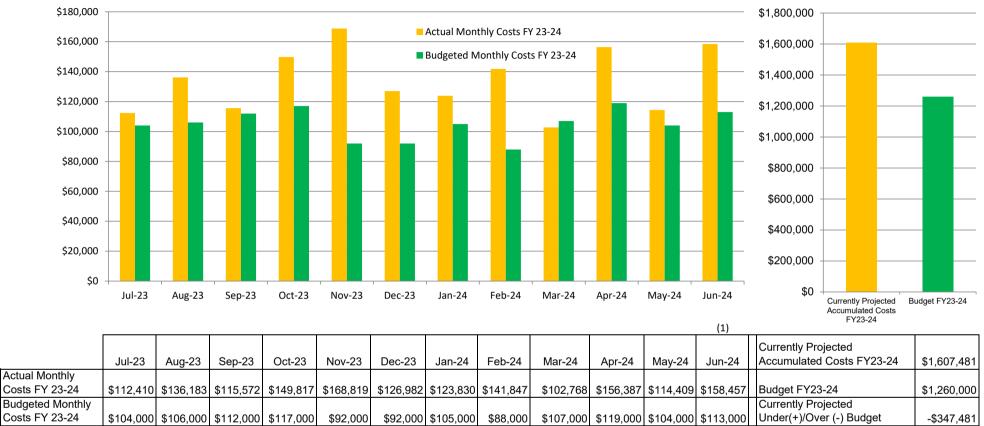
12-Month Running Total Discharge to Ocean Outfalls (AF)

Jun-24	2,028
May-24	2,243
Apr-24	2,727
Mar-24	2,837
Feb-24	3,161
Jan-24	2,519
Dec-23	2,305
Nov-23	2,097
Oct-23	1,916
Sep-23	1,917
Aug-23	1,693
Jul-23	1,429
Total	26,872



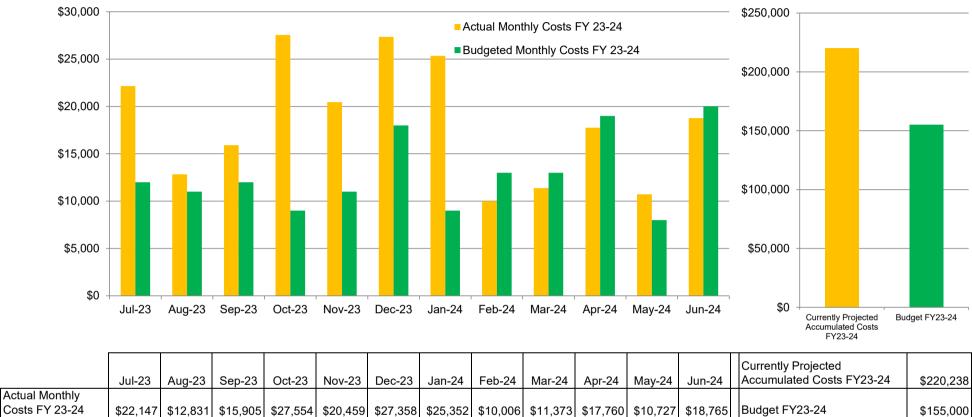
Quarterly Report on Key Operational Expenses

Electricity (5002) Costs



(1) SCE included a \$46k correction for RTP billing errors dating back to 2021 and the SCE billing error(s) has delayed the June 2024 and future billings until further notice.

Odor Control (5009) Costs



\$9,000 \$13,000 \$13,000 \$19,000

Currently Projected

Under(+)/Over (-) Budget(1)

-\$65,238

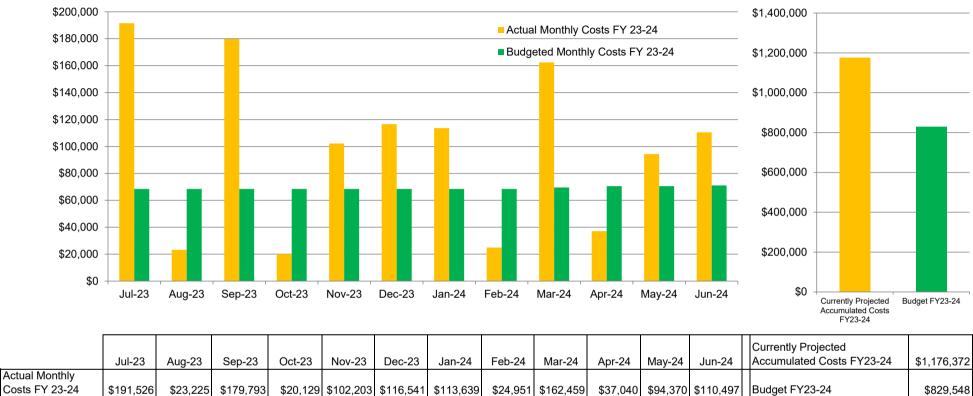
\$8,000 \$20,000

Note: As discussed is being discussed with the SOCWA Engineering Committee, sewage septicity is increasing odor control costs with lower flows from water conservation.

\$12,000 \$11,000 \$12,000 \$9,000 \$11,000 \$18,000

Budgeted Monthly Costs FY 23-24

Polymer (5007) Costs



\$68,500

\$69,500

\$70,500 \$70,500 \$71,048

Currently Projected

Under(+)/Over (-) Budget(1)

-\$346,824

Note: As discussed is being discussed with the SOCWA Engineering Committee, sewage septicity is increasing solids management costs with lower flows from water conservation.

\$68,500

\$68,500

Budgeted Monthly

\$68,500

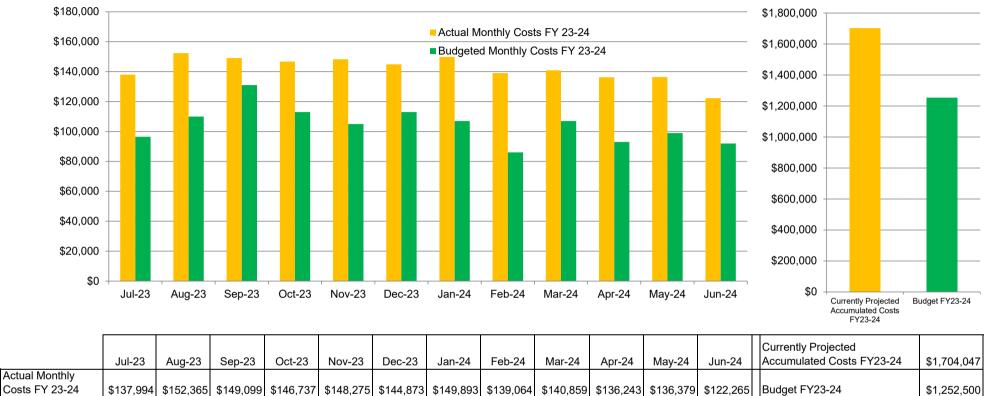
\$68,500

\$68,500

\$68,500 \$68,500

Costs FY 23-24

Biosolids (5049) Costs

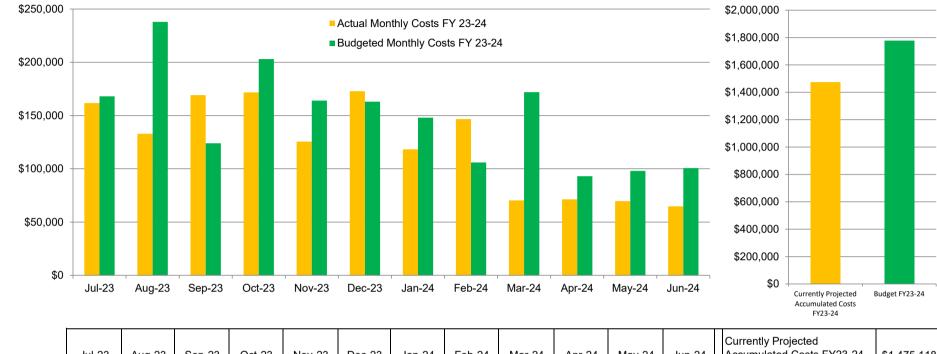


-\$451,547

 Budgeted Monthly Costs FY 23-24
 \$96,500
 \$110,000
 \$113,000
 \$105,000
 \$107,000
 \$86,000
 \$107,000
 \$93,000
 \$99,000
 \$92,000
 Currently Projected Under(+)/Over (-) Budget(1)

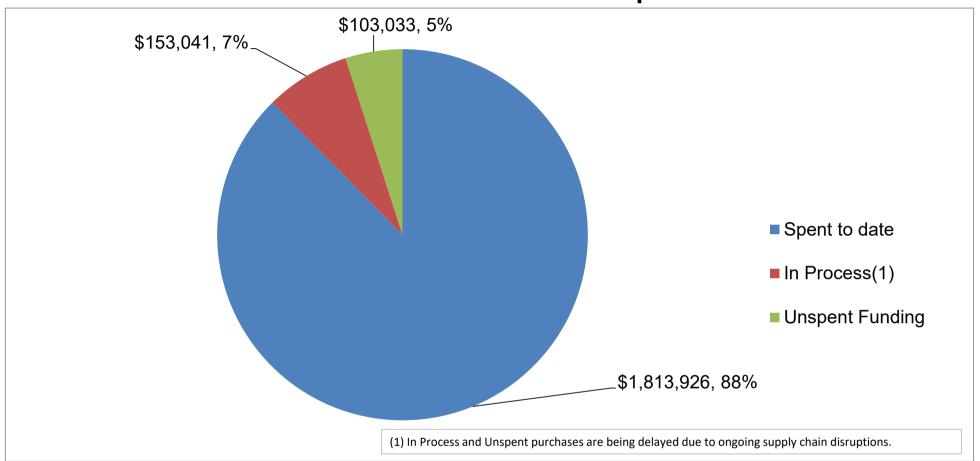
 Note: Biosolids costs are increased due to landfill closures on hotter days in May 2023 at the landfill to help mitigate odor complaints at the landfill. Also, usually heavy rains have limited use of the landfill this winter.
 Currently Projected
 Currently Projected

Maintenance Repair (5056 to 5060) Costs



	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Currently Projected Accumulated Costs FY23-24	\$1,475,118
Actual Monthly														
Costs FY 23-24	\$161,757	\$132,869	\$169,193	\$171,768	\$125,567	\$172,819	\$118,331	\$146,698	\$70,332	\$71,332	\$69,631	\$64,822	Budget FY23-24	\$1,777,708
Budgeted Monthly													Currently Projected	
Costs FY 23-24	\$168,000	\$238,000	\$124,000	\$203,000	\$164,000	\$163,000	\$148,000	\$106,000	\$172,000	\$93,000	\$98,000	\$100,708	Under(+)/Over (-) Budget(1)	\$302,590

FY23-24 Small Internal Capital Costs

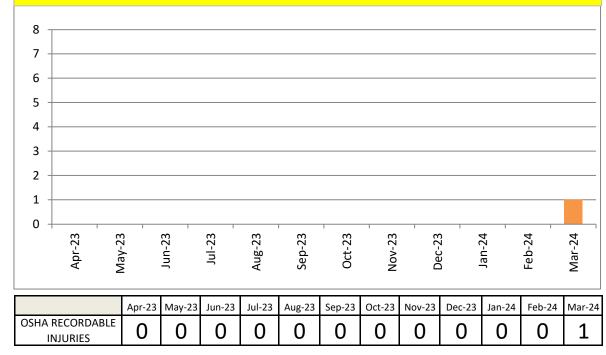


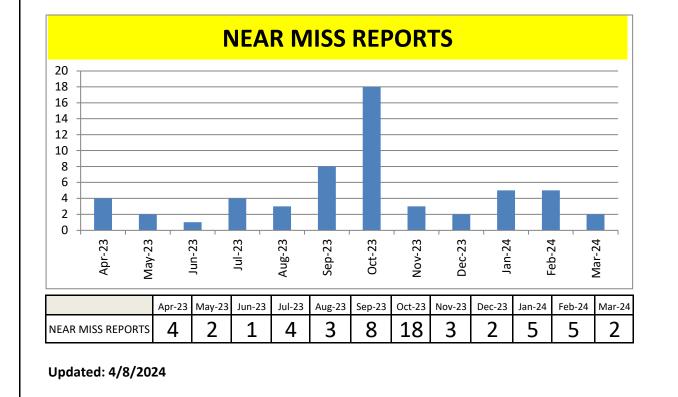
SOCWA SAFETY UPDATE - MARCH 2024

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
Mar '24 - Annual Cal OSHA Heat Illness Training	95%
Feb '24 - Annual Bloodborne Pathogens Training	95%
Dec '23 - Defensive and Distracted Driver Training w/ CHP	90%
Nov '23 - Annual Audiometric Hearing Testing	100%
Oct '23 - Annual SPCCP Spill Response and Prevention Tranining	100%
Sept '23 - Annual Respirator Fit Testing and INITIAL Confined Space Entry Rescue Refresher Training	100%
August '23 - Confined Space Entry Rescue Refresher Training	95%
July '23 - Forklift Refresher Training	100%
June '23 - Annual 8-HR HAZWOPER Refresher Training	100%
May '23 - Emergency Tabletop Training Exercises and Fire Extinguisher Use Training	90% (of all SOCWA Employees
Mar '23 - Annual Cal OSHA Heat Illness Training	100%
Mar '23 - Emergency PA System Use Training / Additional ICS Training	90%
Nov '22 - Hearing Testing/Confined Space Entry Rescue Training/Supervisor Safety Training	95%
September '22 - CPR/First Aid/AED Training (Initial and Refresher)	90% (of all SOCWA Employees
June '22 - Active Shooter/Workplace Violence Training and SPCCP Spill Training	95% (of all SOCWA Employees
Oct '21 - Annual Hearing Testing, Wildfire Safety/Smoke Training, Respirator Fit Testing	100%
Sept '21 - Annual BBP Training and Lifting Safety Training (with CSRMA, remotely)	90%
Aug '21 - Confined Space Rescue Refresher and Electrical Safety in the Workplace	100%
Oct/Nov '20 - Forklift Training and Additional ICS Training	95%
Oct '19 - Fall Protection Training, Additonal ICS Training, and Spill Training	90%
Sept '19 - Wildland Fire Training and CPR/First Aid/AED Training	90%
Aug '19 - Initial Confined Space Entry Rescue and Additional Active Shooter Training	95%
March '19 - Annual Respirator Fit Testing and PPE Use Training	95%
September '18 - Silica Safety Training / October '18 - Crane Safety	100%
Aug '18 - Fire Awareness Safety for Field Personnel and Lockout/Tagout Training	100% (all SOCWA employees
Jan '18 - Respiratory PPE Training/Fit Testing and Additional ICS Training	90%
Sept '17 - Active Shooter/Workplace Violence Training	100%
May '17 - Safety Culture Training & July/Aug '17 - Spill Response Training (hands on)	100%
Mar '17 - Fall Protection Training and CPR/First Aid/AED Training	100%
Jan '17 - Lockout/Tagout Training and Confined Space Rescue Practice/Training	100%
Oct '16 - Confined Space Awareness/Entry Rescue Training and Forklift Training	100%
May '16 - Entry Level NIMS/ICS Training at SOCWA and Heat Illness Training	
	100%
Feb '16 - Biomechanics/Ergonomics Training (CSRMA) and Bloodborne Pathogens Training	100%
Oct '15 and Jan '16 - Initial Confined Space Entry Rescue Training (3-day trainings)	100%
Sept '15 - Pre-Storm Workshop, Arc Flash Training, and Forklift Training	100%
Aug '15 - Fire Prevention for Water Utility Field Staff & Disaster Cost Recovery Training	100%
July '15 - Additional NIMS/ICS Training, Attend Water and Power Resiliency Workshop	Ongoing
June '15 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%

OSHA RECORDABLE INJURIES





Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

June 2024

	IRWD						SOC	NA			SOC	NA		IRWD	IRWD	SCWD					
	LOS		S WR	Р	F	LTOR) WRP		REG	SIONAL		Т	СО	ASTAL		Г	IDP	SGU	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
06/01/24	3.200	21.0		0.1	0.996	26.0	14.0	0.1	2.470	6.7	6.0		2.832	3.7	4.0		0.392	0.000	0.135	10.025	0.00
06/02/24	3.176	22.0	7.0	0.2	2.752	17.0	8.3	<0.1	3.49	5.8	5.0	<0.1	2.878	4.5	5.0	<0.1	0.391	0.000	0.125	12.812	0.02
06/03/24	3.244	21.0	6.4	0.1	1.850	10.4		<0.1	3.300	7.3	5.0	<0.1	2.762	7.9	8.0	<0.1	0.392	0.000	0.135	11.683	0.00
06/04/24	3.247	18.0	8.1	0.1	1.338	12.4	11.6	0.1	3.430	5.4	4.0	0.1	2.253	6.7	8.0	<0.1	0.391	0.000	0.130	10.789	0.00
06/05/24	3.250	34.0	8.0	0.1	1.787	10.0	9.0	<0.1	2.690	7.3	11.0	0.1	2.251	1.5	5.0	<0.1	0.391	0.000	0.129	10.498	0.00
06/06/24	3.317	18.0	8.3	0.2	1.715	12.4	4.7	0.1	4.000	5.5	6.0	0.1	2.586	1.6	2.0	0.1	0.392	0.000	0.124	12.134	0.00
06/07/24	3.321	21.0	9.6	0.3	1.051	5.0	3.9	<0.1	3.780	5.6	7.0	<0.1	2.584	7.9	3.0	<0.1	0.391	0.000	0.155	11.282	0.00
06/08/24	3.391	22.0		0.3	1.978	3.2	4.0	0.1	3.730	5.7	5.0		2.580	5.7	5.0		0.391	0.000	0.136	12.206	0.00
06/09/24	3.329	23.0	9.3	0.3	2.393	9.0	5.8	<0.1	3.500	5.5	4.0	<0.1	2.707	5.2	5.0	<0.1	0.227	0.000	0.120	12.276	0.01
06/10/24	3.320	15.0	6.9	0.3	1.771	9.1		0.5	2.830	6.3	5.0	1.0	2.849	7.2	10.0	<0.1	0.310	0.000	0.146	11.226	0.00
06/11/24	3.320	25.0	8.5	0.3	1.829	4.0	2.4	0.1	3.040	6.4	5.0	0.1	2.846	2.8	4.0	<0.1	0.392	0.000	0.118	11.545	0.00
06/12/24	3.322	24.0	9.0	0.3	1.443	16.8	6.9	0.1	3.160	5.2	22.0	0.1	2.365	2.0	3.0	<0.1	0.392	0.000	0.129	10.811	0.00
06/13/24	3.315	26.0	9.6	0.4	1.518	11.4	6.6	0.2	2.660	6.4	8.0	0.1	2.866	5.8	6.0	0.1	0.391	0.000	0.140	10.890	0.00
06/14/24	3.177	33.0	7.9	0.4	0.938	9.4	4.3	0.1	3.230	5.3	5.0	0.1	2.918	1.3	2.0	0.1	0.113	0.000	0.129	10.505	0.00
06/15/24	3.182	28.0		0.2	1.550	12.4	2.5	0.1	3.470	4.8	3.0		2.832	7.0	6.0		0.000	0.000	0.144	11.178	0.00
06/16/24	3.180	16.0	7.6	0.3	1.749	9.6	5.0	<0.1	3.130	6.1	9.0	<0.1	2.968	1.2	3.0	<0.1	0.000	0.000	0.117	11.144	0.00
06/17/24	3.181	20.0	7.0	0.3	1.846	8.1		0.2	3.250	5.3	5.0	<0.1	2.977	6.8	6.0	0.1	0.000	0.000	0.126	11.380	0.00
06/18/24	3.206	23.0	8.0	0.2	1.538	10.5	5.6	<0.1	3.150	5.4	4.0	0.1	2.963	8.0	6.0	<0.1	0.000	0.000	0.138	10.995	0.00
06/19/24	3.173	22.0	7.6	0.4	0.823	10.8	7.0	<0.1	2.760	7.0	5.0	0.1	2.325	9.1	7.0	<0.1	0.000	0.000	0.135	9.216	0.00
06/20/24	3.262	22.0	8.1	0.2	0.574	11.5	7.0	0.1	2.440	4.6	3.0	0.1	2.355	1.5	4.0	<0.1	0.000	0.000	0.136	8.767	0.00
06/21/24	3.609	22.0	9.1	0.4	0.645	13.0	6.2	0.1	1.920	6.5	5.0	0.2	3.307	6.2	4.0	<0.1	0.243	0.000	0.137	9.861	0.00
06/22/24	3.371	24.0		0.2	1.771	11.8	6.0	0.3	1.220	7.2	6.0		2.328	6.2	4.0		0.232	0.000	0.130	9.052	0.00
06/23/24	3.317	18.0	8.3	0.2	2.182	8.1	5.0	<0.1	2.110	4.9	5.0	< 0.1	2.224	5.1	6.0	<0.1	0.364	0.000	0.154	10.351	0.00
06/24/24	3.320	23.0	8.7	0.2	1.551	10.0		<0.1	3.060	5.4	4.0	< 0.1	2.190	9.4	9.0	<0.1	0.392	0.000	0.110	10.623	0.00
06/25/24	3.317	19.0	8.7	0.3	1.076	12.0	6.0	< 0.1	2.590		4.0	< 0.1	2.728		8.0	< 0.1	0.391	0.000	0.135	10.237	0.00
06/26/24	3.312	25.0	8.7	0.3	0.569	10.5	11.7	< 0.1	1.230	6.1	4.0	0.1	2.442	5.9	5.0	< 0.1	0.392	0.000	0.123	8.068	0.00
06/27/24	3.320	26.0	8.3	0.3	2.159	16.6	7.0	< 0.1	1.280	5.5	4.0	< 0.1	2.150	6.8	2.0	< 0.1	0.391	0.000	0.153	9.453	0.00
06/28/24	3.375	26.0	11.0	0.4	1.509	26.0	11.7	<0.1	1.220	4.4	3.0	<0.1	2.306	8.9	4.0	<0.1	0.392	0.000	0.131	8.933	0.00
06/29/24	3.325	26.0	40.0	0.3	0.160	76.0	32.0	0.1	1.300	5.2	4.0		2.564	5.4	3.0		0.392	0.000	0.107	7.848	0.00
06/30/24	3.316	30.0	10.0	0.3	0.690	9.2	5.0	<0.1	2.460	4.6	4.0	<0.1	2.633	2.5	3.0	<0.1	0.225	0.000	0.155	9.479	0.00
AVG	3.290	23.1	8.4	0.3	1.458	13.7	7.7	<0.1	2.730	5.8	5.7	<0.1	2.619	5.3	5.0	<0.1	0.279	0.000	0.133	10.509	
TOTAL	98.70				43.75		_		81.90				78.57				8.37	0.00	3.982	315.27	0.03

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:June 2024REPORT DUE:August 1 2024SAMPLE SOURCE:Surf zoneTYPE OF SAMPLE:Grab

Tidal Condition: High Tide 07:41 Weather: Overcast COMMENTS: REPORT FREQUENCY:MonthlyEXACT SAMPLE POINTS:As specified in Unified Monitoring PlanSAMPLES COLLECTED BY: SOCWA LabSAMPLES ANALYZED BY:SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Or	igin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	06/03/24	08:15	<10	<10	2	None	None	None	None	Blue	64	Clear		
S4	06/03/24	10:38	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	06/03/24	10:22	10	<10	2	None	None	None	None	Blue		Clear		
S6	06/03/24	09:51	140	40	6	None	None	None	None	Blue		Clear		
WEST	06/03/24	09:44	30	<10	2	None	None	None	None	Blue		Clear		
S7	06/03/24	09:38	30	<10	<2	None	None	None	None	Blue		Clear		
S8	06/03/24	09:20	100	<10	<2	None	None	None	None	Green		Clear		
S9	06/03/24	09:16	100	<10	<2	None	None	None	None	Green		Clear		
ACM1	06/03/24	09:10	<10	<10	2	None	None	None	None	Green		Clear		
S10	06/03/24	08:54	<10	10	<2	None	None	None	None	Green		Clear		
S11	06/03/24	08:48	10	20	<2	None	None	None	None	Green		Clear		
S12	06/03/24	08:42	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.

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:June 2024REPORT DUE:August 1, 2024SAMPLE SOURCE:Receiving water surf zoneTYPE OF SAMPLE:Grab

Tidal Condition: Low Tide 08:32 Weather: Drizzle COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY:SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	06/12/24	07:59	60	<10	<2	None	None	None	None	Blue	63	Clear		
S4	06/12/24	10:11	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	06/12/24	09:57	20	<10	4	None	None	None	None	Blue		Clear		
S6	06/12/24	09:42	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	06/12/24	09:35	80	10	<2	None	None	None	None	Blue		Clear		
S7	06/12/24	09:28	<10	10	<2	None	None	None	None	Blue		Clear		
S8	06/12/24	09:17	120	<10	2	None	None	None	None	Blue		Clear		
S9	06/12/24	09:10	80	<10	<2	None	None	None	None	Blue		Clear		
ACM1	06/12/24	09:04	>8000	120	46	None	None	None	None	Blue		Clear	Flowing	
S10	06/12/24	08:46	10	<10	<2	None	None	None	None	Blue		Clear		
S11	06/12/24	08:40	10	10	2	None	None	None	None	Blue		Clear		
S12	06/12/24	08:33	<10	10	<2	None	None	None	None	Blue		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:June 2024REPORT DUE:August 1, 2024SAMPLE SOURCE:Receiving water surf zoneTYPE OF SAMPLE:Grab

Tidal Conditions H

Tidal Condition: High Tide 08:53 Weather: Overcast COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY: SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

0.0

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	06/19/24	08:15	<10	<10	<2	None	None	None	None	Green	64	Clear		
S4	06/19/24	10:40	<10	10	<2	None	None	None	None	Green		Clear		
S5	06/19/24	10:25	<10	20	<2	None	None	None	None	Green		Clear		
S6	06/19/24	10:05	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	06/19/24	10:00	<10	<10	<2	None	None	None	None	Green		Clear		
S7	06/19/24	09:55	<10	<10	<2	None	None	None	None	Green		Clear		
S8	06/19/24	09:45	<10	<10	<2	None	None	None	None	Green		Clear		
S9	06/19/24	09:20	30	10	6	None	None	None	None	Green		Clear		
ACM1	06/19/24	09:15	20	20	<2	None	None	None	None	Green		Clear		
S10	06/19/24	08:55	<10	<10	<2	None	None	None	None	Green		Clear		
S11	06/19/24	08:45	<10	<10	<2	None	None	None	None	Green		Clear		
S12	06/19/24	08:35	<100	10	<2	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR:June 2024REPORT DUE:August 1, 2024SAMPLE SOURCE:Receiving water surf zoneTYPE OF SAMPLE:Grab

Tidal Condition: Low Tide 06:35 Weather: Clear COMMENTS: REPORT FREQUENCY: Monthly EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan SAMPLES COLLECTED BY: SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material o	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	06/25/24	08:02	<10	10	<2	None	None	None	None	Blue	64	Clear		
S4	06/25/24	09:57	10	10	<3	None	None	None	None	Blue		Clear		
S5	06/25/24	09:49	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	06/25/24	09:35	100	10	<2	None	None	None	None	Blue		Clear		
WEST	06/25/24	09:29	10	10	2	None	None	None	None	Blue		Clear		
S7	06/25/24	09:22	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	06/25/24	09:10	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	06/25/24	09:06	<10	10	<2	None	None	None	None	Blue		Clear		
ACM1	06/25/24	08:55	200	40	<2	None	None	None	None	Blue		Clear	Flowing	
S10	06/25/24	08:33	10	<10	2	None	None	None	None	Blue		Clear	-	
S11	06/25/24	08:26	<10	<10	<2	None	None	None	None	Blue		Clear		
S12	06/25/24	08:21	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.



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

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean OutfallReport For:June 2024Report Due:August 1, 2024Sample Source:Receiving water, nearshore and offshoreExact Sample Points:As specified in permitSamples Collected By:Seaventures/SOCWA staffSamples Analyzed By:SOCWA Lab

Report Frequency: Monthly

Sampling Frequency: Monthly Type of Sample: Grab

Comments:

Low Tide 07:46

0.1	0 and 1	0 and 1	Total Coliform	Fecal Coliform	Entero- coccus	0		0	0 - None 1 - Mild
Sta No.	Sample Depth	Sample Date	CFU/100ml SM9222B	CFU/100ml SM9222D	EPA 1600	Sample Time	Oil & Grease		2 - Moderate 3 - Severe
A-1	Surface	06/11/24	<2	<2	<2	08:09	0	0	
A-1	Mid depth	06/11/24	<10	<10	<10				
A-2	Surface	06/11/24	2	<2	<2	08:02	0	0	
A-2	Mid depth	06/11/24	<10	<10	<10				
A-3	Surface	06/11/24	<2	<2	<2	08:12	0	0	
A-3	Mid depth	06/11/24	40	20	<10				
A-4	Surface	06/11/24	<2	<2	<2	08:22	0	0	
A-4	Mid depth	06/11/24	<10	<10	<10				
A-5	Surface	06/11/24	<2	<2	<2	08:08	0	0	
A-5	Mid depth	06/11/24	<10	<10	<10				
B-1	Surface	06/11/24	<2	<2	<2	07:48	0	0	
B-1	Mid depth	06/11/24	10	<10	<10				
B-2	Surface	06/11/24	<2	<2	<2	08:32	0	0	
B-2	Mid depth	06/11/24	10	<10	<10				
N1	Surface	06/11/24	4	<2	<2	08:51	0	0	
N2	Surface	06/11/24	2	<2	<2	08:50	0	0	
N3	Surface	06/11/24	4	<2	<2	08:48	0	0	
N4	Surface	06/11/24	4	<2	<2	08:47	0	0	
N5	Surface	06/11/24	<2	2	<2	08:45	0	0	
N6	Surface	06/11/24	4	<2	<2	08:44	0	0	
N7	Surface	06/11/24	<2	<2	<2	08:41	0	0	

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 2024

		ACOO F	Permit Order No. R9-202	2-0006			
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
		No violatio	ns during this monitorir	ng period.			

Scewa

SOCWA and MEMBER AGENCY FACILITIES ACOO Spill / Overflow Report Log - 2024 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

June 2024

	J.B. LATHAM FACILITY																CSJC	SCWD	0.000	Dein
	-		-								-			3-A PL		00		Desalter FLOW		Rain Fall
	FLOW	TSS	cBOD	SS	FLOW		cBOD		FLOW		cBOD		FLOW		cBOD		FLOW		FLOW	
DATE 06/01/24	MGD 7.630	mg/L 8.5		ml/L	MGD 2.623	mg/L		ml/L	MGD 0.000	mg/L	mg/L	mi/L	MGD 0.792	mg/L	mg/L	ml/L	MGD 0.450	MGD 0.177	MGD 12.370	inches 0.00
				-0.1			8.0		1									-		
06/02/24	7.650	10.6	10.0	< 0.1	2.752	7.0	5.0	-0.1	0.000				0.247	0.0	5.0	-0.1	0.460	0.176	12.490	0.02
06/03/24	7.700	8.7	10.7	<0.1	2.873	7.6 6.2	5.0	< 0.1	0.000				0.019	8.0	5.0	< 0.1	0.480	0.175	12.490	0.00
06/04/24	7.690	8.3	10.5	<0.1	2.855		4.0	< 0.1	0.000		4 5	0.4	0.005	11.2	8.0	< 0.1	0.480	0.177	12.100	0.00
06/05/24	7.490	9.8	8.6	<0.1	2.823	6.3	4.0	< 0.1	0.015	4.4	4.5	0.1	0.018	12.6	8.5	< 0.1	0.480	0.039	12.060	0.00
06/06/24	7.560	8.5	7.3	0.1	2.706	6.6	6.0	< 0.1	0.000				0.010	10.2	7.4	< 0.1	0.420	0.145	12.060	0.00
06/07/24	7.580	8.9	5.9	<0.1	2.567	8.4	7.0	0.1	0.000				0.010	8.4	6.0	<0.1	0.520	0.176	12.060	0.00
06/08/24	7.530	9.8	9.0	.0.1	2.600		9.0		0.000				0.015				0.520	0.172	12.050	0.00
06/09/24	7.550	9.1	10.7	<0.1	2.732				0.000				0.108				0.490	0.179	12.210	0.01
06/10/24	7.640	9.8	9.7	<0.1	3.255	7.5	11.0	0.1	0.000				0.003	3.6	3.0	< 0.1	0.460	0.173	12.370	0.00
06/11/24	7.660	9.7	8.3	<0.1	2.849	7.0	6.0	< 0.1	0.000	0.0	4.0	-0.4	0.009	3.6	3.0	< 0.1	0.460	0.177	12.000	0.00
06/12/24	7.630	8.8	7.6	<0.1	2.934	6.7	5.0	< 0.1	0.021	3.3	4.9	< 0.1	0.018	4.4	3.7	< 0.1	0.420	0.176	11.630	0.00
06/13/24	7.670	8.3	8.0	0.1	2.028	6.2	8.0	< 0.1	0.001	2.8	3.8	<0.1	0.020	12.4	8.7	0.1	0.440	0.179	11.140	0.00
06/14/24	7.880	8.2	8.6	0.1	2.908	8.0	6.0	<0.1	0.000	4.0	0.5	.0.4	0.011	3.6	2.9	<0.1	0.440	0.007	11.860	0.00
06/15/24	7.740	7.7	8.3	-0.4	2.275		4.0		0.001	1.6	2.5	<0.1	0.022				0.440	0.160	11.380	0.00
06/16/24	7.860	8.2	13.5	<0.1	2.755	7.0	~ ~	-0.4	0.000				0.018	0.0	<u>с</u> г	-0.4	0.450	0.180	11.700	0.00
06/17/24 06/18/24	7.930 7.940	8.9 12.7	7.0 8.0	<0.1 <0.1	3.051 2.251	7.9 8.4	6.0 8.0	<0.1 0.1	0.000 0.000				0.015	8.0 8.6	6.5 5.9	<0.1 <0.1	0.440 0.130	0.176	12.040	0.00 0.00
06/19/24	7.680	7.9	6.0	<0.1 <0.1	1.817	0.4 8.3	8.0 8.0	< 0.1	0.389	1.8	2.3	<0.1	0.010	8.6	5.9 6.0	<0.1 0.1	0.130	0.172	10.730	0.00
06/20/24	8.150	7.9 7.9	5.0	<0.1 <0.1	2.463	0.3 10.2	8.0 7.0	< 0.1	0.389	1.0	2.3	~ 0.1	0.014	8.4	0.0 5.6	<0.1	0.000	0.179	12.160	0.00
	8.000	7.9 7.4	5.0 5.8	<0.1 <0.1	2.403	10.2 8.4	7.0 6.0	< 0.1	0.000	2.2	3.3	<0.1	0.012	0.4 6.6	5.0 5.0	< 0.1	0.160	0.176	12.160	0.00
06/21/24 06/22/24	7.920	7.4 8.2	5.o 6.0	<0.1	2.416	0.4	6.0 6.0	<0.1	0.001	2.2 1.8	3.3 3.9	< 0.1	0.012	0.0	5.0	<0. I	0.490	0.174	11.430	0.00
06/23/24	8.060	7.8	5.6	<0.1	1.686		0.0		0.003	1.0	3.9 4.0	< 0.1	0.013				0.490	0.177	11.430	0.00
06/23/24	8.000	16.3	5.0 7.9	<0.1 <0.1	2.152	8.8	6.0	<0.1	0.000	1.7	4.0	~ 0.1	0.060	7.8	6.0	<0.1	0.500	0.025	11.910	0.00
06/25/24	8.110	10.5	7.9 5.7	<0.1 <0.1	2.132	9.3	0.0 7.0	< 0.1	0.000				0.000	7.8	5.6	< 0.1	0.510	0.023	12.200	0.00
06/26/24	8.020	9.3	5.7 7.4	<0.1 <0.1	2.258	9.3 7.9	7.0	< 0.1	0.000	1.3	4.1	<0.1	0.007	7.0 9.0	6.1	< 0.1	0.520	0.143	12.200	0.00
06/27/24	7.880	9.3 11.6	7.4	<0.1	1.620	7.6	7.0 6.0	< 0.1	0.003	1.3	3.7	< 0.1	0.018	9.0 4.6	4.0	< 0.1	0.520	0.173	11.200	0.00
06/28/24	7.880	7.0	6.4	<0.1	1.721	6.6	6.0	< 0.1	0.000	1.0	5.7	SO. 1	0.019	4.0 8.8	4.0 5.5	< 0.1	0.520	0.173	10.900	0.00
06/29/24	7.900	7.0 8.9	0.4 8.3	~0.1	1.971	0.0	6.0	∽ 0.1	0.000				0.013	0.0	5.5	~ 0.1	0.310	0.177	11.430	0.00
06/30/24	8.040	11.2	0.5 10.9	<0.1	1.930		0.0		0.000	2.0	4.1	<0.1	0.043				0.480	0.177	11.320	0.00
00/30/24	0.040	11.2	10.9	~ 0.1	1.930				0.001	2.0	4.1	~ 0.1	0.731				0.400	0.174	11.320	0.00
AVG	7.800	9.2	8.1	<0.1	2.444	7.7	6.5	<0.1	0.015	2.2	3.7	<0.1	0.077	7.8	5.6	<0.1	0.439	0.158	11.805	
TOTAL	233.990				73.315				0.460				2.305				13.160	4.746	354.160	0.03

#1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: June 2024
- REPORT DUE: August 1, 2024

SAMPLE SOURCE: Receiving water surf zone

Grab

TYPE OF SAMPLE:

Tidal Condition: High Tide 10:28 Weather: Overcast COMMENTS:

Total

Fecal

Entero-

REPORT FREQUENCY:MonthlyEXACT SAMPLE POINTS:As specified in Unified Monitoring PlanSAMPLES COLLECTED BY: SOCWA LabSAMPLES ANALYZED BY:SOCWA Lab

			Coliform	Coliform	coccus	Material of	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Or	gin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	06/06/24	09:50	600	60	240	None	None	None	None	Green	66	Clear		
S1	06/06/24	09:42	500	400	620	None	None	None	None	Green		Clear		
S2	06/06/24	10:24	100	60	8	None	None	None	None	Green		Clear		
DSB5	06/06/24	10:15	300	20	10	None	None	None	None	Green		Slightly Turbid		
S3	06/06/24	09:30	300	200	260	None	None	None	None	Green		Clear		
DSB4	06/06/24	09:02	300	300	180	None	None	None	None	Blue		Clear		
S5	06/06/24	08:42	40	20	10	None	None	None	None	Green		Clear		
DSB1	06/06/24	08:50	20	<20	20	None	None	None	None	Green		Clear		
SJC1	06/06/24	09:14	100	20	50	None	None	None	None	Blue		Clear	Flowing	

#2

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: June 2024
- REPORT DUE: August 1, 2024

SAMPLE SOURCE: Receiving water surf zone

Grab

TYPE OF SAMPLE:

Tidal Condition: Low Tide 07:11 Weather: Overcast

COMMENTS:

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

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	gin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	06/10/24	09:13	80	100	20	None	None	None	None	Green		Slightly Turbid		
S1	06/10/24	09:10	20	20	8	None	None	None	None	Green		Slightly Turbid		
S2	06/10/24	08:37	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	06/10/24	08:35	140	60	22	None	None	None	None	Green		Slightly Turbid		
S3	06/10/24	09:30	80	100	4	None	None	None	None	Green		Slightly Turbid		
DSB4	06/10/24	09:33	20	<20	20	None	None	None	None	Green		Slightly Turbid		
S5	06/10/24	09:40	<20	<20	4	None	None	None	None	Green	65	Slightly Turbid		
DSB1	06/10/24	09:43	20	<20	2	None	None	None	None	Green		Slightly Turbid		
SJC1	06/10/24	09:04	>=1200	200	100	None	None	None	None	Green		Slightly Turbid	Flowing	

#3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: June 2024
- REPORT DUE: August 1, 2024
- SAMPLE SOURCE: Receiving water surf zone

Grab

- TYPE OF SAMPLE:
 - Tidal Condition: High Tide 07:10 Weather: Overcast

COMMENTS:

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

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	igin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	06/17/24	09:40	80	20	<2	None	None	None	None	Green		Slightly Turbid		
S1	06/17/24	09:25	40	20	2	None	None	None	None	Green		Slightly Turbid		
S2	06/17/24	10:05	20	<20	<2	None	None	None	None	Green	62	Slightly Turbid		
DSB5	06/17/24	10:20	100	40	<2	None	None	None	None	Green		Slightly Turbid		
S3	06/17/24	09:15	40	<20	2	None	None	None	None	Green		Slightly Turbid		
DSB4	06/17/24	09:10	20	20	4	None	None	None	None	Green		Slightly Turbid		
S5	06/17/24	09:00	100	<20	4	None	None	None	None	Green		Slightly Turbid		
DSB1	06/17/24	08:50	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	06/17/24	09:50	200	<100	20	None	None	None	None	Brown		Turbid		

#4

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

- REPORT FOR: June 2024
- REPORT DUE: August 1, 2024

SAMPLE SOURCE: Receiving water surf zone

Grab

TYPE OF SAMPLE:

Tidal Condition: Low Tide 05:51 Weather: Clear COMMENTS:

Total

Fecal

Entero-

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

			TOLAT	recai	Entero-									
			Coliform	Coliform	coccus	Material c	of Sewage							
			CFU/100ml	CFU/100ml	CFU/100ml	Ori	igin	Oil &		Water	H20	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S0	06/24/24	09:20	80	60	6	None	None	None	None	Green	66	Slightly Turbid		
S1	06/24/24	09:10	40	60	2	None	None	None	None	Green		Slightly Turbid		
S2	06/24/24	09:55	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	06/24/24	10:05	<20	20	2	None	None	None	None	Green		Slightly Turbid		
S3	06/24/24	09:00	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
DSB4	06/24/24	08:50	<20	40	<2	None	None	None	None	Green		Slightly Turbid		
S5	06/24/24	08:35	<20	20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	06/24/24	08:20	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	06/24/24	09:30	70	40	20	None	None	None	None	Green		Slightly Turbid	Flowing	



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 DSB 5	Location 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

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfal Report For: June 2024

Report Due: August 1, 2024

Sample Source: Receiving water, nearshore and offshore

Exact Sample Points: As specified in permit

Samples Collected By: Seaventures/SOCWA staff

Report Frequency: Monthly

Sampling Frequency: Monthly Type of Sample: Grab

Comments:

Low Tide 07:46

Samples Analyzed By: SOCWA Lab

	I	-							1
			Total	Fecal	Entero-				0 - None
			Coliform	Coliform	coccus				1 - Mild
Station	Sample	Sample	CFU/100ml	CFU/100ml	CFU/100ml	Sample	Oil &	Sewage	2 - Moderate
No.	Depth	Date	SM9222B	SM9222D	EPA 1600	Time	Grease	Debris	3 - Severe
A-1	Surface	06/11/24	4	<2	<2	10:05	0	0	
A-1	Mid depth	06/11/24	<10	<10	<10				
A-2	Surface	06/11/24	<2	<2	<2	10:00	0	0	
A-2	Mid depth	06/11/24	10	<10	<10				
A-3	Surface	06/11/24	<2	<2	<2	10:14	0	0	
A-3	Mid depth	06/11/24	130	60	20				
A-4	Surface	06/11/24	8	<2	<2	10:20	0	0	
A-4	Mid depth	06/11/24	<10	20	<10				
A-5	Surface	06/11/24	<2	2	<2	10:09	0	0	
A-5	Mid depth	06/11/24	30	<10	<10				
B-1	Surface	06/11/24	<2	<2	<2	09:52	0	0	
B-1	Mid depth	06/11/24	<10	<10	<10				
B-2	Surface	06/11/24	<2	<2	<2	10:29	0	0	
B-2	Mid depth	06/11/24	<10	<10	<10				
N1	Surface	06/11/24	<2	<2	<2	09:39	0	0	
N2	Surface	06/11/24	<2	<2	<2	09:36	0	0	
N3	Surface	06/11/24	<2	<2	<2	09:30	0	0	
N4		06/11/24	4	2	<2	09:26	0	0	
N5		06/11/24	6	2	2	09:23	0	0	
N6	Surface	06/11/24	<2	2	<2	09:20	0	0	

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

Offshore

Compliance Summary Report San Juan Creek Ocean Outfall 2024

	SJCOO Permit Order No. R9-2024-0005													
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine							
SOCWA	5/14/2024	Chronic Toxicity	Quarterly	TUc	>=101	101	\$3,000							
SMWD	5/31/2024	Oil & Grease	Deficient Monitoring	mg/L	Weekly	N/A	\$3,000							



SOCWA and MEMBER AGENCY FACILITIES SJCOO Spill / Overflow Report Log - 2024 Order No. R9-2024-0005 ~ 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.			

			harge Require				
Agency - Facility	Violation	Constituent	Effluent Limit	Units	Permit	Reported Value	Remarks
	Date		Violation		Limit		
MNWD - RTP	1/5/2024	TDS	12 month	mg/L	1000	1198	
MNWD - RTP	1/5/2024	Manganese	12-Month	mg/L	0.05	0.130	
SOCWA - CTP	1/9/2024	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	10/2/2023	TDS	12-Month	mg/L	1000	1064	Offline
MNWD - 3A	10/2/2023	Manganese	12-Month	mg/L	0.05	0.09	Offline
MNWD - RTP	2/13/2024	TDS	12 month	mg/L	1000	1245	
MNWD - RTP	2/13/2024	TDS	Daily Maximum	mg/L	1100	1520	
MNWD - RTP	2/13/2024	Manganese	12-Month	mg/L	0.05	0.140	
SOCWA - CTP	3/2/2024	TDS	Daily Maximum	mg/L	1200	1240.00	
SOCWA - CTP	3/2/2024	Manganese	12-Month	mg/L	0.05	0.14	
MNWD - 3A	10/2/2023	TDS	12-Month	mg/L	1000	1064	Offline
MNWD - 3A	10/2/2023	Manganese	12-Month	mg/L	0.05	0.09	Offline
MNWD - RTP	3/12/2024	TDS	12 month	mg/L	1000	1251	
MNWD - RTP	3/12/2024	TDS	Daily Maximum	mg/L	1100	1430	
MNWD - RTP	3/12/2024	Manganese	12-Month	mg/L	0.05	0.130	
SOCWA - CTP	3/2/2024	TDS	Daily Maximum	mg/L	1200	1241	
SOCWA - CTP	3/2/2024	Manganese	12-Month	mg/L	0.05	0.08	
MNWD - 3A	10/2/2023	TDS	12-Month	mg/L	1000	1064	Offline
MNWD - 3A	10/2/2023	Manganese	12-Month	mg/L	0.05	0.09	Offline
MNWD - RTP	4/10/2024	TDS	12 month	mg/L	1000	1257	
MNWD - RTP	4/10/2024	TDS	Daily Maximum	mg/L	1100	1440	1
MNWD - RTP	4/10/2024	Manganese	12-Month	mg/L	0.05	0.130	
SOCWA - CTP	4/3/2024	TDS	Daily Maximum	mg/L	1200	1500	
SOCWA - CTP	4/3/2024	Manganese	12-Month	mg/L	0.05	0.09	1
MNWD - 3A	10/2/2023	TDS	12-Month	mg/L	1000	1055	Offline
MNWD - 3A	10/2/2023	Manganese	12-Month	mg/L	0.05	0.09	Offline
MNWD - RTP	6/3/2024	TDS	12 month	mg/L	1000	1285	1
MNWD - RTP	6/3/2024	TDS	Daily Maximum	mg/L	1100	1310	l
MNWD - RTP	6/3/2024	Manganese	12-Month	mg/L	0.05	0.130	1
SOCWA - CTP	6/3/2024	Manganese	12-Month	mg/L	0.05	0.09	
MNWD - 3A	6/3/2024	TDS	12-Month	mg/L	1000	1117	1
MNWD - 3A	6/3/2024	Manganese	12-Month	mg/L	0.05	0.10	1

Recycled Water Report

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending:

Jun 30, 2024

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

TDS	mg/L	1000	938.00		862.00	878.00	1117.00	1285.00	1113.00
Chloride	mg/L	375	212.00		217.00	244.00	244.00	254.00	249.00
Sulfate	mg/L	400	314.00		231.00	203.00	283.00	349.00	328.00
Sodium	mg/L	None	53.00		150.00	178.00		150.00	180.00
Alkalinity	mg/L	None	-	-	-	-		261.00	206.00
Adjusted SAR	Ratio	None	3.75		4.42	5.60	3.37	3.55	4.25
Iron	mg/L	0.3	.04		.10	.04	.16	.19	.15
Manganese	mg/L	0.05	.00		.03	.01	0.10	.13	.09
MBAS	mg/L	0.5	ND		ND	ND	<0.03	<0.10	<0.10
Boron	mg/L	0.75	.32		.25	.24	.32	.33	.31
Fluoride	mg/L	None	.68		.80	.85	.78	.78	.82
Total Organic Carbon	mg/L	None	6.20		9.40	6.10	2.90	8.90	7.80

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

TDS1200 mg/LChloride400 mg/LSulfate500 mg/L

SOCWA Service Area Recycled Water Production (ac-ft) 2024

	Facility or													Annua
Agency	Region	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24	Totals
CSJC 1	3-A Plant/MNWD	.00	.00	.16	.00	.00	36.93							37.0
CSJC 2	Chiquita/SMWD	8.32	4.19	3.20	2.87	20.47	38.18							77.2
CSJC 3	Non-Domestic Well	4.26	.00	13.67	28.43	40.12	39.27							125.7
ETWD	Region 8	17.23	9.21	19.77	44.84	141.28	184.07							416.4
IRWD														
4	IRWD - 8	26.18	7.83	13.06	35.61	161.66								244.3
4	IRWD - 9	9.80	2.87	7.17	17.10	60.71								97.6
SCWD	SOCWA CTP	30.54	.08	23.56	40.84	50.19	101.12							246.3
MNWD	JRP	210.93	154.61	24.95	95.72	315.57	380.57							1182.3
	3-A Plant	.00	.00	.00	.00	143.15	148.12							291.2
5	CTP	3.04	-1.49	-3.55	-10.31	-12.70	-7.68							-32.6
SMWD	Oso Creek													
	Chiquita	535.21	513.58	536.29		494.67	485.16							3059.4
	Nichols	1.61	1.68	1.46	1.39	1.43	1.66							9.2
TCWD	RRWRP	39.21	39.85	43.29	41.57	41.62	39.15							244.6
TOTALS		886 30	732 41	683.04	792 57	1458 17	1446.56							5999.04

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

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

1

5

Pretreatment Report

Agenda Item

5.G.

Legal Counsel Review: No

Meeting Date: August 8, 2024

TO:Board of DirectorsFROM:Jim Burror, Acting General Manager/Director of OperationsSTAFF CONTACT:Katie Greenwood, Source Control ManagerSUBJECT:Monthly Pretreatment Report – May through July 2024
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

RWQCB-SD Staff conducted a Pretreatment Compliance Audit (PCA) of SOCWA's Pretreatment Program in-person on June 18, 2024, and by electronic correspondence over the proceeding weeks. Staff received the PCA Report by email on July 15, 2024. The following two categorical industrial users (CIU) facility files were reviewed: Glaukos (WD Permit #CSC-NS1-003) and Applied Medical (WD Permit #SMWD-1-003). Both facilities were also inspected on June 18, 2024, as part of the audit process:

- The PCA Report includes zero required actions for resolution and two recommendations for program improvement: 1.) Update all pretreatment interagency agreements to include language in the agreements for the member agencies' sewer use ordinances (SUO) to be no less stringent than SOCWA's ordinance, to update the information (e.g. agency name from AWMA to SOCWA), and to review/update SOCWA's and the member agencies' services and responsibility and ensure member agencies' SUO is consistent with and at least as stringent as SOCWA's SUO. 2.) SOCWA and/or its member agencies hire additional staff to ensure the remaining dental facilities comply with the Dental Rule requirement per 40 CFR Part 441.
- Staff is preparing a PCA Response letter to address the recommendations and to correct inconsistencies within the Report related to SOCWA's pretreatment program and SOCWA's operations and is aiming to submit the Response to the RWQCB-SD before October 13, 2024. Both the PCA Report and Response will be distributed to key MA Staff.

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:

SCWD – <u>NSWD Permit No. SCWD-N4-010 for Three Arch Bay (TAB)</u> – TAB finalized construction of two new dry weather diversion sewer connections to replace the existing connection. SOCWA Staff received a permit modification request and application from TAB Staff on April 15th. SCWD finalized a fourth Amendment to the Agreement between the two agencies on June 13, 2024, and the current permit was modified to reflect the new Amendment on June 17, 2024.

CSC – <u>Renewal WD Permit No. CSC-1-002 for Glaukos at 229 Avenida Fabricante</u> – Non-Significant Categorical Industrial User (NSCIU) WD Permit to allow Glaukos to continue to discharge no more than 100 gpd of wastewater subject to metal finishing rules under 40 CFR Part 433. Staff issued a renewal permit on June 19, 2024.

CSC – <u>Renewal NSWD Permit No. CSC-N4-001 – Multiple Dry Weather Diversions</u> – NSWD Permit to continue to allow dry weather diversion flows to be discharged to the sewer. A renewal application was received on May 6, 2024, and a new renewal permit was issued on June 24, 2024.

SOCWA (SMWD/MNWD) – <u>SWD Permit No. SOCWA-4-005 –Lake Mission Viejo Advanced</u> <u>Purified Water Treatment Facility (APWTF)</u> – SMWD Staff provided a renewal permit application on June 14, 2024. SOCWA issued a renewal permit on July 19, 2024. The site has been discharging to the sewer since 2017 with no known impacts to sewerage facilities. The permit term continues to remain at one year and the permit renewed annually.

Trainings and Committee Meetings Attended

SOCWA Staff continue to attend monthly OC Strike Force Meetings to receive and share legal information related to environmental cases and incidents throughout the county.

On June 6, 2024, Staff participated in the Clean Water So Cal Board Meeting.

On June 12, 2024, Staff completed the annual 8-hr HAZWOPER refresher training in-house.

On June 20th and July 23, 2024, Staff participated in the monthly CWEA SARBS BOD meetings.

Inspections

SOCWA Staff will soon start 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.

SMWD – On June 13, 2024, Staff inspected the Mission Riding Park in response to a request to apply for direct connection to the sewer. Inspection deficiencies were noted, and Staff confirmed in person on July1, 2024, that all findings were sufficiently addressed.

SOCWA – On July 16, 2024, Staff conducted a pre-permit renewal inspection and sampling event of the Advanced Purified Water Treatment Facility at Lake Mission Viejo. The inspection yielded no findings, and sampling results are pending.

SCWD – On August 8, 2024, Staff conducted a pre-permit renewal inspection of the Dana Point Shipyard. Findings are pending.

Enforcement

SCWD – On May 29, 2024, Staff issued a WNON to Montage for late reporting of their April SMR.

										<u>Total</u>
MA IUs	Events	Permits	NIWD	BMPs	FSEs	<u>OSEs</u>	DSEs	Closed	Enforcement	IUs
CLB (S)	0	2	2	5	8	110	15	0	0	143
CSC (S)	20	11	35	18	188	1263	38	4	0	1550
CSJC (S)	6	0	27	59	143	1690	30	1	0	1949
ETWD (M)	0	0	88	0	262	131	50	0	0	487
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	0	5	51	21	63	915	18	0	0	1073
MNWD (S)	66	6	120	38	655	2141	150	15	2	3109
SMWD (S)	23	9	19	20	215	841	52	4	1	1157
SCWD (S)	0	7	33	7	148	186	15	0	1	397
TCWD (S)	0	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	5	1	0	0	0		0	1	6
Totals	115	46	387	168	1689	7310	370	24	5	9923

(S) = SOCWA conducts PT program

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

NIWD = Non-industrial Waste Discharger YTD = Year to Date

BMP = Best Management Practices FSE = Food Service Establishment

OSE = Other Surveyed Establishment

DSE = Dental Surveyed Establishment

Agenda Item

5.H.

Board of Directors Meeting

Meeting Date: August 8, 2024

TO:Board of DirectorsFROM:Jim Burror, Acting General Manager/Director of OperationsSTAFF CONTACT:Roni Grant, Associate EngineerSUBJECT:Capital Improvement Program Status Report (June/July)

The status of the SOCWA Capital Improvement Program is 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.

Engineering On-call Services Contract

Supplemental in-house staffing service contract

An RFP is posted to PlantBids. Staff anticipates requesting a contract award at the October Engineering Committee meeting.

SCADA Server Replacement Projects

Replacement of SCADA Servers at the three (3) plants.

SOCWA staff is evaluating proposal(s) received on July 8th. Staff will request a contract award at the August 15th Engineering Committee meeting.

J.B. Latham Energy Building Upgrades

Perform seismic structural building improvements and install a jib crane.

The Engineering Committee reviewed the proposals in January. In May, the PC2 members toured the project. The Committee is recommending a contract award that will be presented at the August Board meeting.

J.B. Latham MCC M and G Repalcement

Replacement of two motor control centers.

SOCWA staff is evaluating the prepurchase proposal(s) received on July 18th. Staff anticipates requesting a prepurchase contract award at the August 15th Engineering Committee meeting.

J.B. Latham Centrate Line Upgrades

Replacement of valves and piping in the centrate system located in the Dewatering Building.

The contractor mobilized onsite in mid-May and started the work associated with the first two centrifuges. The work has been substantially completed; staff is working with SS Mechanical to close out the project.

J.B. Latham Effluent Pumping Station Upgrades

Replacement of piping and effluent meter.

The Engineering Committee reviewed the proposals in January. In May, the PC2 members toured the project. The Committee is recommending a contract award that will be presented at the August Board meeting.

J.B. Latham Scum Line Replacement

Replacement of a 200 feet section of corroded pipe.

An NIB is posted to PlantBids. Staff anticipates requesting a contract award at the August Engineering Committee meeting.

J.B. Latham Headworks Rehabilitation

Rehabilitate the roof and influent channel for 4-Side Headworks.

Design effort is underway.

Coastal Treatment Export Sludge Environmental Mitigation

Restoration and mitigation of impacts from the export sludge line.

SOCWA is entering the third year of mitigation monitoring for the areas directly impacted by the construction project. The contract for the third year will be presented at the August Board meeting and will include quarterly reviews. The Coastal Commission staff is reviewing the larger mitigation project.

Coastal Treatment Plant Diffusers Upgrades

Replacement of diffusers and air headers in the aeration basins.

The contractor completed the installation of fine-bubble diffusers in the first two basins.

Coastal Treatment Plant Personnel Building Reconstruction

Rehabilitation of the building.

Bidding documents are being finalized.

Coastal Treatment Plant Auxilary Blower Building Roof

Rehabilitation of the Auxilary Blower Building Roof.

An NIB is posted to PlantBids. Staff anticipates requesting a contract award at the October Engineering Committee meeting.

Coastal Treatment Plant Drainage Pumping Station

Rehabilitation of the Plant Drainage Pumping Station.

SOCWA staff is evaluating the proposal(s) received on July 9th. Staff anticipates reviewing the proposals with the Engineering Committee at the August 15th meeting.

Coastal Treatment Plant Odor Control Scrubber Improvements

Rehabilitation of the foul air treatment system.

The RFP is being finalized for posting on PlanetBids.

Coastal Treatment Plant Aeration Deck Grating Replacement

Rehabilitation of the Aeration Deck Grating Replacement.

SOCWA staff is evaluating the bids received on July 29th. Staff anticipates requesting a contract award at the August 15th Engineering Committee meeting.

Coastal Treatment Plant Skimmers and Launders/Weirs

Replacement of skimmers and launders/weirs for the West Primary and Secondary Basins.

The Engineering Committee reviewed the quotes at the June meeting. The Engineering Committee recommends a prepurchase contract be awarded at the August 8th Board meeting.

Coastal Treatment Plant Aeration Blower System Upgrades

Rehabilitation of the Aeration Blower System

SOCWA staff is evaluating the design proposal(s) received on June 19th. Staff anticipates requesting a contract award at the August 15th Engineering Committee meeting.

RTP Gate and Grates Projects

Rehabilitation of the various gates and walkway grating around the plant.

Design effort is underway.

RTP MCC Replacements Improvements

Rehabilitation of the various motor control centers around the plant.

The Engineering Committee reviewed the design proposals at the June meeting and recommended that a contract be awarded at the August 8th Board meeting.

RTP Digester 1 Piping Project

Rehabilitation of the Digester 1 gas collection and mixing system.

Staff is waiting for the final condition assessment report to be issued.

RTP Digester Gas System Improvements

Rehabilitation of various elements of the digester collection gas system.

Notice to proceed was issued for the construction of the flare ignitor improvements.

ETM Air Valve Replacements

Rehabilitation of nine (9) air valves on the ETM.

Staff is waiting for an amended coastal permit to be approved. Construction bidding will proceed when the amended coastal permit is received.

ETM Trail Bridge Crossing

Mitigate creek erosion over the ETM at the Trail Bridge Crossing.

Updated environmental biological survey underway. ETWD is applying for FEMA funding.

Recommended Action: Information Item.

· · · · · · · · · · · · · · · · · · ·						FY 202	3/202	4	FY 2024/2025				
Project Number	Project Name	Pro	oject Budget Status		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	PC 2 - J.B. L	t Plant											
3220/3231/3287	Facility Improvements B			Construction complete									
32234L	Chlorine Contact Basin Isolation Gates and Structural Rehab	\$	165,736						D	D	B&A	С	
32231C	Process Water Repiping	\$	50,000						Р	Ρ	D	D	
3216/32225S	Energy Building Upgrades	\$	2,037,000	Design proposal under review				Р	D	D	D	B&A	
3252	MCC M and G Replacement	\$	1,882,988	Design underway	D	D	D	D	B&A	С	С	С	
3234	Centrate Piping Reconstruction	\$	648,794	Construction underway	D	B&A	С	С	С	С			
32226L	Effluent Pump Station Upgrades	\$	950,000	Design proposal under review				Р	D	D	D	B&A	
322335	Scum Line Replacement	\$	150,000	Design underway			D	D	B&A	С			
322445	Digester Gas and Flare Piping Improvements	\$	75,000				Ρ	Р	D	D	D	D	
32243L	Plant 2 Headworks Rehabilitation	\$	200,000	Design proposal under review			Ρ	D	D	D	B&A	С	
32244L	Plant 2 Primary Clarifier Condition Assessment	\$	50,000	Complete			Р	CA					
32243C	SCADA Server Replacement	\$	200,000	Bidding underway			B&A	B&A	С	С			
	PC 5 - San Ju	uan (Creek Ocean	Outfall									
362410	SJCOO Outfall Ballast Repairs	\$	250,000	Complete		D	B&A	С					
	PC 15 - Co	asta	l Treatment I	Plant									
3541	Export Sludge Environmental Mitigation	\$	1,392,100	Mitigation work/permitting ongoing	EN∖	ENV	ENV	ENV	ENV	ENV	ENV	ENV	
35228L	Aeration Diffuser Replacement	\$	1,250,000	Construction underway	D	B&A	С	С	С	С			
3525	Personnel Building Reconstruction	\$	471,586	Design underway	D	D	D	D	B&A	С	С	С	
35221L	Auxiliary Blower Building Roof	\$	250,000	Bidding underway					B&A	С	С	С	
3522AL	Drainage Pump Station	\$	500,000	Conceptual design underway	D	D	D	D	D	D	B&A	С	
35235L	Odor Control Scrubber Improvements	\$	1,447,600	Planning underway			Ρ	Ρ	D	D	D	B&A	
35245L	Aeration Deck Grating Replacement	\$	50,000	Design underway		D	D	B&A	С	С			
35246L	West Primary Sludge Skimmers and Launders/Weirs	\$	150,000	Design underway		D	D		B&A	С	С	С	
35247L	Aeration Blower System Upgrades	\$	75,000	Planning underway		Ρ	Р	Р	Р	Ρ	D	D	
35249L	SCADA Server Replacement	\$	200,000	Bidding underway			B&A	B&A	С	С			

SOCWA CIP Workplan

	SOC	NA C	IP Workplan									
						3/202	4	FY 2024/2025				
Project Number	Project Name	Project Budget		Status	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 17 - Regional Treatment Plant										1		
3742	Aeration System Upgrades	\$	3,531,085							Р	Ρ	D
37241L	Grit/Primary Grating/Gate Replacement	\$	150,000	RFP issued					D	D	D	B&A
37242L	Aeration Influent/Effluent Gate Replacement	\$	100,000	RFP issued					D	D	D	B&A
3722AL/37236S /3779/37244C	MCC Replacement/Power System Improvements	\$	2,337,197	RFP issued		Р	Ρ	Р	D	D	D	D
372455	Digester Gas System Improvements	\$	200,000	PO issued for Flare Upgrades				D	D	D	B&A	С
372465	Digester 1 Piping Replacement	\$	250,000	Condition assessemnt complete				CA	D	D	D	B&A
37247S	Odor Scrubber 1 Replacement	\$	15,000						Р	Р	D	D
37243C	SCADA Server Replacement	\$	200,000	Bidding underway			B&A	B&A	С	С		
	PC 21 - Effluent Transmission Main											
3105/3106/ 3107/3108	Air Valve Replacement	\$	2,226,210	Design underway	D	D	D	D	ENV	B&A	B&A	С
3101/31221B	Trail Bridge Crossing	\$	1,859,987	Planning/design underway	Р	Р	Р	Р	ENV	ENV	ENV	ENV
	PC 24 - Alis	so Cr	eek Ocean O	utfall								
342410	ACOO Outfall Ballast Repairs	\$	280,000	Complete		D	B&A	С				

Note: Projects with zero budget had funds collected in a prior fiscal year.

P Planning

CA Condition Assessment

ENV Environmental/Permitting

D Design

B&A Bidding and Award

C Construction

Agenda Item

5.I.

Board of Directors Meeting Meeting Date: August 8, 2024

то:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	Capital Improvement Construction Projects Progress and Change Order Report (June/July) [Project Committee Nos. 2 and 15]

Overview

This agenda item provides an update on projects in construction, including any change orders. Attached are the updated CIP reports.

Project Updates

JBL Centrate Line Upgrades

The notice to proceed (NTP) has been issued to SS Mechanical. The contractor mobilized onsite in mid-May and started the work associated with the first two centrifuges since then. The work has been substantially completed; staff is working with the contractor to closeout the project.

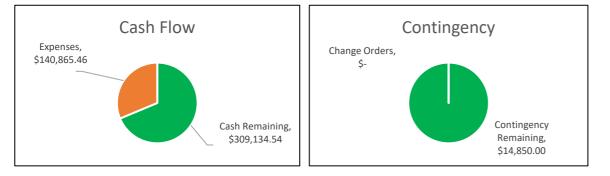
CTP Diffusers Replacement

The contractor completed the installation of fine-bubble diffusers in the first two basin.

Recommended Action: Information Item.

Project Financial Status

Project Committee	2
Project Name	Centrate Line Upgrades - 3234
	Removal and replacement of centrate drain piping, non-potable water piping in the Solids Dewatering Building



Cash Flow

Collected	\$ 450,000.00
Expenses	\$ 140,865.46

Schedule	90%
Budget	64%

Contracts

Company	PO No.	Original		Change Orders*		Total	Costs to Date		
S&S Mechanical	19635	\$ 148,455.00			\$	148,455.00	\$	110,910.00	
Kleinfelder	14234	\$ 71,374.00	\$	-	\$	71,374.00	\$	6,625.25	
SOCWA Staff Time	3234	\$ -	\$	-	\$	-	\$	23,330.21	
		\$ 219,829.00	\$	-	\$	219,829.00	\$	140,865.46	

*Values include change orders to be reviewed by Engineering Committee

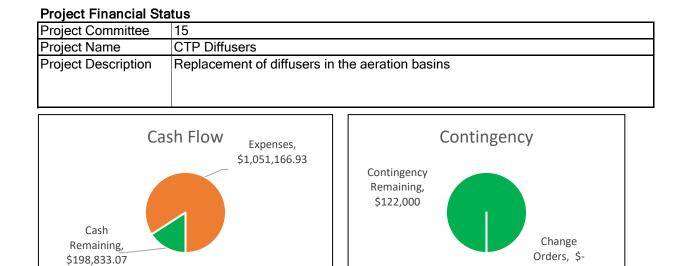
Contingency

Area	Project Code	Amount	Change Orders*	T	otal Remaining	Percent Used
Solids	3234	\$ 14,850.00		\$	14,850.00	0.0%
		\$ 14,850.00	\$-	\$	14,850.00	0.0%

*Values include change orders to be reviewed by Engineering Committee

Change Orders						An	nount
Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	\$	-

Data Last Updated	
July 25, 2024	



Cash Flow

Collected	\$ 1,250,000.00
Expenses	\$ 1,051,166.93

Schedule	60%
Budget	90%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Filanc	19640	\$ 1,022,250.00			\$ 1,022,250.00	\$ 512,724.78
EDI	16620	\$ 250,490.00			\$ 110,910.00	\$ 250,490.00
Hazen	17256/19641	\$ 93,578.00			\$ 6,625.25	\$ 251,320.50
SOCWA Staff Time	35228L				\$ 23,330.21	\$ 36,631.65
		\$ 1,366,318.00	\$-	\$-	\$ 1,163,115.46	\$ 1,051,166.93

*Values include change orders to be reviewed by Engineering Committee and deductive change orders

Construction Contingency

Area	Project Code	Amount	Change Orders	To	tal Remaining	Percent Used
Liquids	35228L	\$ 122,000.00		\$	122,000.00	0.0%
		\$ 122,000.00	\$-	\$	122,000.00	0.0%

Change Order No.	Vendor Name	Project ID	Description	Status Date	<u>Days</u>	Amount	
1	Filanc	35228L	Contract Extension	4/4/2024	273	\$	-
						\$	-

Data Last Updated

July 25, 2024

Agenda Item



Board of Directors Meeting Meeting Date: August 8, 2024

то:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	Regional Treatment Plant (RTP) Motor Control Centers (MCC) A, C, G, and H Replacement Design [Project Committee 17]

Overview

Five (5) motor control centers (MCCs) were installed within the Energy Building during the original construction of the Regional Treatment Plant (RTP) in 1984. One (1) MCC was replaced as part of the Switchgear and Co-Generation System Upgrade in 2017. The remaining four (4) MCCs are original to the plant. The MCC's power the primary treatment equipment and a large portion of the solids processing treatment equipment.

Lee & Ro performed various assessments of MCCs A, C, G, and H, including a condition assessment, a safety assessment, and a cost analysis of buckets. Lee & Ro recommended the replacement of the MCC's due to safety concerns related to the following:

- a) Inadequate short circuit capacity of the bus bars.
- b) Lack of internal protective barriers to stop arc flash from occurring or propagating.

Lee & Ro reached the 35% design level. However, the project was put on hold pending an analysis to install standby generation at the plant due to increasing power outages. Carollo Engineers completed the standby study in July 2023. The recommendation for this project was to install permanent connect points for temporary generators around the RTP. Unfortunately, Lee & Ro's project manager passed away during that time, and Lee & Ro was unable to complete the design with existing staffing.

The project elements include the following:

- MCCs A, C, G, and H replacement
- Determine portable generator connections to support the desired MCCs, including, but not limited to: Sizes, spatial requirements, and feasibility.
- Portable generator connections to support the existing blower system.

Proposals

SOCWA solicited proposals through PlanetBids on April 5, 2024. Six firms were contacted during this process:

- Black and Veatch
- CDM Smith
- Carollo Engineers
- Hazen and Sawyer
- Tetra Tech
- Lee & Ro

Only Carollo and Hazen submitted proposals. Staff reached out to the firms that did not propose. The firms indicated that this work did not fit into their current workloads.

A summary of proposals and SOCWA's staff ratings are in Table 1.

Firm	Carollo	Hazen
Project Manager	Jeff Weishaar	Alan Mlakar
Total Labor Hours	2,093	3,318
Total Fee	\$492,503	\$793,470
SOCWA Staff Rating	77	62
(80 max)		

Table 1 – Summary of Proposals

Staff recommends Carollo due to the following:

- The Project Manager is the most familiar with the RTP facilities and its electrical systems.
- The project team is the most familiar with the RTP electrical facilities.
- The firm has the most realistic project understanding and approach.
- The project team and manager have recently completed similar work.

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed by the Engineering Committee on June 13, 2024. The Engineering Committee agreed with staff's recommendation to recommend to the PC 17 Board to award the contract to Carollo Engineers.

Cost Allocation

For cost allocation, MCC A is associated with Liquids, MCC's C and G are associated with Solids, and MCC H is associated with Common.

Table 2 shows the allocation of costs by member agency.

Agency	MCCs Liquids 3722AL (25%)	MCCs Solids 37236S (50%)	MCCs Common 3746 (25%)	Total
City of Laguna Beach		\$27,629.42	\$7,719.98	\$35,349.40
Emerald Bay Service District		\$1,452.88	\$406.31	\$1,859.20
El Toro Water District		\$50,259.93	\$12,632.70	\$62,892.63
Moulton Niguel Water District	\$123,125.75	\$144,845.13	\$96,197.08	\$364,167.96
South Coast Water District			\$6,169.67	\$28,233.80
Total	\$123,125.75	\$246,251.50	\$123,125.75	\$492,503.00

Staff also requests a contingency of \$20,000 for unknown issues discovered during design.

Budget

The MCCs Liquids (3722AL) has a project budget of \$1,747,631; The MCCs Solid (37236S) has a project budget of \$921,369; The MCCs Common (3746) has a project budget of \$401,830.

Recommended Action: The Engineering Committee recommends that the PC 17 Board of Directors i) approve a contract with Carollo Engineers for a total of \$492,503 for the RTP MCC A, C, G, and H Replacement Design, and ii) approve a contract contingency of \$20,000 for unknown issues discovered during design.

EVALUATION COMMITTEE SCORE

P	ro	n	റ	ς	ല	r	•
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Overall Qualifications and Experience of Firm: (20 Points)		Notes:	
Record of like projects: (10 points)		Notes:	
Realistic level of effort: (20 points)		Notes:	
Ability to Deliver Timely: (10 points)		Notes:	
Responsibility & Responsiveness:	Yes	Notes:	
Cost Competitive: (20 Points)		Notes:	
Total: (80 possible)		Notes:	

Other Notes:

Committee Member:	Member Agency Staff:	

Pricing

Task Description	Principal-in-Charge	Tech Advisor / QA/QC	Project Manager	Lead Engineer	Staff Engineer	Senior Technician	Technician	Doc Processing / Clerical	Total Hours	Labor Fee	PECE	oDCs	Total Project Fee
Hourly Rates	\$310	\$310	\$310	\$274	\$180	\$205	\$172	\$149			\$15.00		
Task 1 - Project Management & Progress Meetings	2	0	29	14	28	0	0	0	73	\$18,486	\$1,095	\$1,200	\$20,781
Task 2 - Data Collection and Document Review	0	0	4	24	24	0	0	0	52	\$12,136	\$780	\$0	\$12,916
Task 3 - Preliminary Design	4	12	20	56	104	40	24	8	268	\$58,744	\$4,020	\$4,800	\$67,564
Task 4 - 30% Submittal	2	24	14	80	124	48	70	4	366	\$79,116	\$5,490	\$0	\$84,606
Task 5 - 75% Submittal	2	24	16	72	124	48	70	4	360	\$77,544	\$5,400	\$0	\$82,944
Task 6 - 100% Submittal	2	60	24	120	220	90	160	2	684	\$145,408	\$10,260	\$0	\$155,668
Task 7 - Bid Set	2	0	4	20	24	24	16	2	92	\$19,630	\$1,380	\$0	\$21,010
Task 8 - Technical Specifications	2	0	8	48	56	0	0	32	146	\$31,100	\$2,190	\$0	\$33,290
Task 9 - Construction Sequencing	2	10	4	16	20	0	0	0	52	\$12,944	\$780	\$0	\$13,724
TOTAL	18	130	123	450	724	250	340	52	2,093	\$455,108	\$31,395	\$6,000	\$492,503
Task 10 - Detailed Data Collection (OPTIONAL TASK)	0	0	20	60	120	0	0	0	200	\$44,240	\$1,600	\$3,600	\$49,440

Notes:

1. P&IDs and control descriptions for MCC-A PLC are not included.

2. Existing shop drawing schematics are available for MCC-A, MCC-C, MCC-H, MCC-G, MCC-A PLC, and Load Shedding Relays.

3. Assumes new conduit will be required for all MCC loads.



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

May 30, 2024

Ms. Jeanette Cotinola, Procurement/Contracts Manager South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92629

Subject: Proposal for Regional Treatment Plant MCCs and Generator Upgrades

Dear Ms. Cotinola:

The South Orange County Wastewater Authority (SOCWA) has carefully planned replacement of aging electrical equipment and is committed to improving reliability through generator connections. Carollo will partner with SOCWA to lead field investigations and workshops to develop options. Through these, we will combine what we learn from you with our expertise to develop the best value option to replace motor control centers (MCCs) and add generators and/or generator connections.

The design is only part of the project. To deliver, we need to strategically determine how the equipment will be procured and installed. Many of our team members have extensive experience replacing existing electrical equipment. Combined with our treatment process expertise we know how to develop sequencing approaches to install equipment with minimal process downtime.

IDENTIFICATION OF RESPONDER Firm Overview

Throughout our 91-year history, Carollo has earned a reputation for applying sound, proven engineering principles to advance the application of drinking water, wastewater, recycled water, and stormwater technologies and engineering excellence. For SOCWA, this means expertise and experience that deliver enhanced performance, increased reliability, minimized risk, and value-added improvements—helping you stay ahead of potential issues.

As a result, we are known to provide outstanding "nuts and bolts" designs that deliver robust, cost-effective, and easy to operate and maintain facilities. We currently maintain 50+ offices in North America and our staff numbers exceed 1,400 employees, which includes more than 850 registered engineers and specialists.

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 Corporation

PARENT COMPANIES

CONTACT PERSON

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

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The Right Experience to Deliver Your Project

Carollo has one of the largest El&C groups in the United States dedicated solely to the design of electrical and process control and instrumentation systems for water and wastewater facilities. Having designed El&C systems for hundreds of water and wastewater treatment plants—including upgrades to MCCs and generators,—Carollo will bring best-in-class solutions to support your staff on this project.

Leaders in El&C Services

We're an industry leader in the planning, design, and implementation of El&C and computerized SCADA/ telemetry systems for water and wastewater agencies. As a water-focused process treatment consulting firm we know how facilities operate and understand how to integrate the design of a new electrical system into treatment processes. Our clients range from small municipalities to some of the largest utilities in the country with treatment plants that range in size from under 1 mgd to more than 600 mgd. Carollo offers a full suite of design services focused on electrical engineering, including planning and analysis, design, and implementation.

When it comes to electrical system safety, planning, design, replacement, constructibility, and start up services for electrical distribution systems, experience matters. Our team of experts, in conjunction with our systematic process and collaborative approach, will help you achieve your goals for this project.



Carollo has delivered electrical-related projects for multiple clients throughout California. **Our electrical, programming, instrumentation, and control services (EPIC®) engineers** work with these clients to provide planning, studies, designs, and construction services on their water-related projects.



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APPROACH TO THE WORK

Project Understanding

As identified in the request for proposals (RFP), this project has two main goals:

- Replace MCCs A, C, G, and H, which are reaching end of useful life.
- Provide the ability to connect all plant priority loads, including the blowers to standby generators.

Replacement of the MCCs is particularly challenging given the limited space in the existing electrical room and the inability to take loads out of service for extended shutdowns. Similarly, there is very little room on-site for generators and a large amount of options, which includes choosing between portable and permanent generators, as well as figuring out where to connect and finding the space to locate the generators. The following discusses our approach to working with SOCWA via workshops to achieve a work sequence that fits the facilities shutdown constraints for the MCC replacement and the best value option for providing connection to standby generators for priority loads.

Project Approach

Given the complexities of the issues, Carollo recommends four workshops:

- 1. Initial MCC Workshop.
- 2. Final MCC Workshop.
- 3. Initial Generator Workshop.
- 4. Final Generator Workshop.

The initial workshops will be focused on brainstorming and option development. This will allow SOCWA and Carollo to collaboratively build the best options. Carollo will then take the options and provide associated costs, as well as advantages/disadvantages. The the final workshops will be held to make the best value selection.

MCC Replacements

Due to existing conditions and the limited space available in the Electrical Room of the Energy Building, replacement of the existing MCCs A, C, G, and H proposes various challenges. A process needs to be developed to select the most feasible sequencing. An initial workshop with SOCWA will help develop feasible sequencing for the MCC Replacements. The initial workshop will be conducted in the energy building with the MCCs where data will be collected and potential options will be developed. Each MCC will need to be evaluated to determine whether it should be replaced in kind or in a new location. The following challenges will be evaluated to determine the best replacement option for each MCC:

1. Understanding Operational Constraints

Carollo will leverage our project manager's process knowledge to work with the SOCWA staff to determine durations on how long each load or type of load can be taken out of service. These constraints will then be included in the Construction Sequencing and Implementation Plan. As identified in the RFP, the Construction Sequencing and Implementation Plan will serve as the basis for developing the plans and specifications. Carollo's Master Electrician, Brian Ream, will be integral in developing a plan that minimizes constructability issues.

2. Temporary Power

Minimizing temporary power, especially as renting/ installing/removing significant amounts of temporary equipment and conduit/wire is very costly.

Replacement in-kind: This method is recommended when the existing conduit can be re-used. Carollo will coordinate with SOCWA to determine the existing conduit type and experience with re-using existing conduits at the facility to determine if the conduits can be re-used. Significant conduit replacement will result in increased construction cost. When replacing in-kind, it is recommended that only a few sections be replaced at a time. Loads can be temporarily repowered from either other spares or have their buckets relocated to other in service sections and the wire be temporarily spliced to the new locations while the section of the MCC is being replaced.

Replacement in new location: Where the conduits cannot be re-used, then installing the new MCCs in a new location while keeping the existing MCC operational will allow for the loads to be easily transferred from one MCC to another with minimal downtime. With minimal downtime and the ability to transfer each load individually, temporary power will likely not be needed. This will simplify the Construction Sequencing and Implementation Plan and reduce temporary power costs.

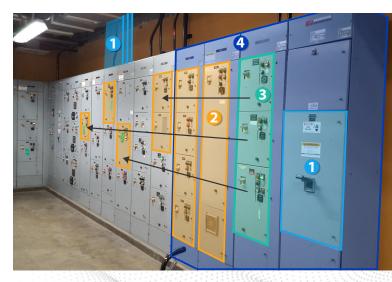
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3. Development of Schematics

In older MCC installations, existing shop drawings are either unavailable or the wiring has been field modified without documentation. This can make developing accurate schematics difficult. Where these situations exists at SOCWA, Carollo recommends a detailed data collection be performed in conjunction with the SOCWA staff for each MCC bucket utilizing Carollo data collection templates in Microsoft OneNote[™]. Carollo will set up the application to collect the following for each MCC bucket:

- Existing conduit condition.
- Existing conduit type.
- Existing conduit sizes.
- Quantity of control wires.
- Quantity of control relays.
- Pilot devices (either on the MCC bucket or in the field).
- Associated instrumentation.
- Equipment nameplates.
- Detailed MCC elevation photos.

The Microsoft OneNote[™] provides the ability to quickly take and store complete equipment photos and easily enter equipment cable/conduit information. In Microsoft OneNote[™] all equipment will have its own tab that links to a dedicated page. This tool easily organizes, stores, references, and shares collected data, creating a living document of the actual field conditions for each piece of electrical equipment. Since we use non-proprietary software, this information can be shared with SOCWA and ultimately the contractor. This method of data collection will allow the existing schematics to be verified with the actual field conditions. It will also eliminate the need for



the contractor to conduct additional field verification, saving time and cost during construction.

As part of the detailed data collection, Carollo will also review the operation of each piece of equipment with the SOCWA staff in the field to ensure the new schematics provides the desired functionality.

4. MCC-A PLC and Load Shedding Relays

Carollo also recommends the OneNote[™] data collection approach be utilized for documenting the existing MCC-A PLC and load shedding relays. Additionally, an I/O extraction from the existing MCC-A PLC will need to be completed to to make sure all I/O is accounted for.

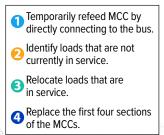
Once the initial workshop and data collection is complete, Carollo will develop a feasible sequencing approach based on the data collection and discussions with plant staff. A final workshop will then be conducted to review the sequencing to confirm the sequencing and finalize the shutdown constraints.

Standby Power and Portable Generator Connection to Blowers

The number of options available for standby power at the RTP is significant and similar to the MCC Replacement Approach, a two workshop approach will be utilized to select the best value option. Carollo will build on the Standby Generation Study Technical Memorandum completed by Carollo in July 2023 to help develop feasible options and selection criteria for standby power during an initial workshop. The initial workshop will consider the following challenges:

• Space for generators – There is very little room available around the facility to locate generators

Based on the amount of spares and loads out of service, MCC-C will be able to have up to four sections replaced at a time with minimal temporary power and downtime. Temporary power can be provided by relocating buckets and splicing the wire to the new location. Downtime will be one piece of equipment at a time with short duration to swap power source locations.



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therefore minimizing the number of generators needed will be essential to developing feasible options.

- Portable generators Portable generators will require more space than permanent generators, as not only do they need parking space, they also need room to be maneuvered. Limiting the size of the portable generators is also important to avoid the need for a semi-truck to move the generators. Multiple small generators will also require more space than a single large generator.
- Portable generator connection for blowers There isn't a feasibly sized portable generator available.

Once the initial workshop is complete, Carollo will develop cost estimates for the feasible options and score them based on the selection criteria. A final workshop will then be conducted to review the cost and scoring criteria of each feasible option to allow SOCWA to select the best value option. Carollo views the portable generator connection for the blowers as an integral part of the standby power system and recommends the developed options take this provision into consideration rather than treating this connection as a separate project element.

Based on the challenges identified, Carollo has developed three initial options for providing standby power:

Option 1: Centralized Permanent Generators

In this approach, one or two generators would be permanently located near MSG-1 or SSG-1. From backup perspective, tying into switchgear MSG-1 or SSG-1 does not make any difference. However, if we take into account the length of new cable required for the generator and the new construction feasibility, installing a new generator close to the existing MSG-1 electrical building and tying into MSG-1 appears to be the most viable option.

This would require a new breaker in MSG-1 and the addition of an automatic transfer system to control the breakers in MSG-1 and SSG-1 to automatically transfer to generator. Design of interlocks between the utility, generator, and existing cogen breakers will be included so that either proper open transition or closed transition is performed.

Option 2: Centralized Portable Generators

Similar to Option 1, a centralized portable generator connection and parking area will be located near MSG-1. Modern generators provide on-board paralleling controls that will allow multiple portable generators to be used in parallel or even a large portable rental generator could be utilized.

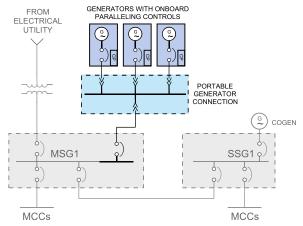
This would also require a new breaker in MSG-1 and the design of a portable generator connection that could support the portable generator(s). The transfer controls could either be automatic (similar to Option 1) or manual via kirk keys.

Option 3: Distributed Portable Generators

Three to four locations within the electrical distribution system will be identified to locate small portable generators that will serve groups of MCCs to allow these 3-4 connections to serve all the loads that require standby power. The feasibility of this option is contingent on the upgrades to the blowers as it will allow for 350-kW generators or smaller to be utilized.

Portable Generator Connections

If Option 1 or Option 2 is selected, then portable generator connections at each MCC can still be provided. Portable generator connections provide flexibility, especially during partial failure of the facility's main distribution gear or in the feeder cables, portable generators can be located at the downstream equipment to provide temporary power while the partial failure is resolved. If portable generators are desired in addition to the permanent generator in Option 1, SOCWA may want to consider purchasing a 350-kW portable generator, as it can support any of the individual generator connections (contingent on the upgrades to the blowers). For



For Options 1 and 2, a centralized generation could be accomplished by adding a breaker to MSG-1 and providing either a portable generator connection (as shown) or permanent generators at this location. The portable generator connection could use either rental generators or SOCWA-owned generators, which could be designed to connect to one large portable or multiple smaller portable generators.

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Option 2, the generators can either be centrally located or utilized at individual MCCs during partial failures.

The initial workshop will allow Carollo to partner with SOCWA to refine these options and eliminate, add, or expand the options into additional options as needed.

Plan for Organizing the Work

The key feature of our approach is to involve all the stakeholders in the decision-making process. We recommend that the stakeholders include O&M staff. They are the actual "client" in the process, and the success of the project will be judged with respect to ease of O&M during and after the work. We can build on past and current communications with staff to add this work with the most efficient use of your time.

The goal of each meeting is a list of decisions and action items to guide our team's work in preparation of the final design. Decisions and action items will be recorded in conference memoranda and issued within one week of the meeting.



Stakeholder Meetings

We will conduct stakeholder meetings to facilitate efficient and effective stakeholder input and involvement. Each meeting will be held at crucial milestones:

- Meeting No. 1 Kickoff Meeting
- Meeting No. 2 Initial MCC Workshop
- Meeting No. 3 Initial Generator Workshop
- Meeting No. 4 Final MCC Workshop
- Meeting No. 5 Final Generator Workshop
- Meeting No. 6 Review of 30% design
- Meeting No. 7 Review of 75% design
- Meeting No. 8 Review of 100% design

Schedule			2024	2025								
TASK NAME	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
Notice of Award and Signed Contract	8/12											
Final Design												
Project Management												
Kickoff Meeting	3 -	8/19										
Progress Meeting		9/15	10/15	11/15	12/15		2/15	3/15	4/15	9 5/15	6/15	
Data Collection and Document Review												
Preliminary Design												
Tech Memo Draft									LEGE	ND		
SOCWA Review									Task			
Initial MCC Workshop	3 🔵	8/19							Summary			
Initial Generator Workshop		8/20							SOCWA Review			
Final MCC Workshop			1	0/22					Meeting			
Final Generator Workshop			•1	0/23					🗌 🔵 Wo	orkshop		
Tech Memo Final									Γ			
30% Design												
Produce 30% Design and Cost Estimate												
SOCWA Review (4 Weeks)												
30% Design Workshop						1/6						
75% Design												
Produce 75% Design and Cost Estimate												
SOCWA Review (4 Weeks)												
75% Design and Constructibility Workshop									3/31			
100% Design												
Produce 100% Design and Cost Estimate												
SOCWA Review (2 weeks)												
100% Design Workshop											6	
Bid Set	2. N. 201	18 1. 1995).										
Produce Bid Set Drawings, Specifications and Cost Estimate												

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EXPERIENCE AND TECHNICAL COMPETENCE



CONTACT INFORMATION Roni Young Grant P: 949-234-5410

PROJECT DATES 2017 - 2023



CONTACT INFORMATION Andrea Long P: 720-859-4346

PROJECT DATES 2020 - 2024



CONTACT INFORMATION Janice Gainey P: 916-223-7860

PROJECT DATES 2020 - 2023

J.B. Latham Facility Plan Improvements, Phase 2 Biosolids Upgrade

South Orange County Wastewater Authority, California

Carollo provided planning, design, and ESDC for Package "B" of SOCWA's J.B. Latham Treatment Plant (JBLTP) Facilities Improvements project. Carollo worked with SOCWA to assess and improve the digestion and biogas utilization systems at the JBLTP. Improvements included rehabilitation of primary and secondary sedimentation basins, dissolved air flotation thickeners, thickened sludge pumping, digester mixing, digester heating, effluent pump station and valves, and associated electrical and controls systems. The electrical upgrades included improvements to the existing motor control centers, replacing/upgrading new motor control centers, and new distribution systems to accommodate process upgrade needs.

Sand Creek WRF (SCWRF) Rehabilitation and Improvements

City of Aurora, Colorado

The project included the design improvements to the facility's existing aeration blowers, secondary clarifiers, and mixed liquor recycle (MLR) pump in the east biological nutrient removal (BNR) reactor. The project also included the design and relocation of an unused 500-kW generator from the Wemlinger Water Purification Facility (WPF) and connection to the SCWRF electrical system to provide emergency backup power. The relocated 500-kW generator is connected to the main switchgear at SCWRF with breaker-based transfer control provided by CUMMINS on board transfer controller.

Aquifer Storage and Recovery (ASR) Well and Pump Station

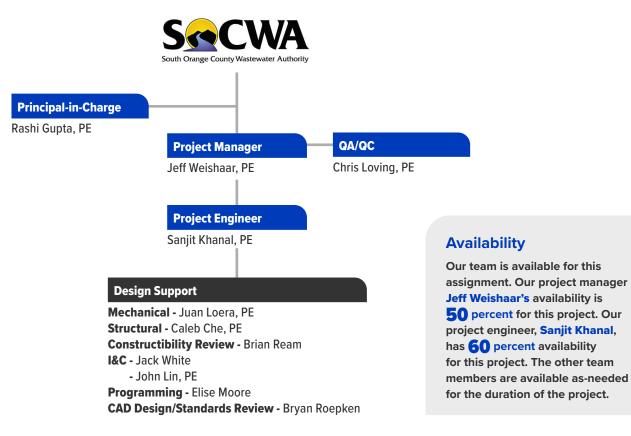
City of Roseville, California

The City of Roseville's Aquifer Storage and Recover (ASR) Well and Pump Station project involves preliminary design of six new ASR wells injecting treated water from Folsom Lake, as well as final design and engineering services during construction for two of the ASR wells. Key components at each site include construction of new service entrance switchboards, motor control centers, variable frequency drives, instrumentation and controls, and PLC cabinet. The sites also included portable generator connections with manual transfer switches.

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KEY PERSONNEL AND SUBCONSULTANTS

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.



Proposed Key Team Members

Jeff Weishaar, PE

PROJECT MANAGER



Jeff is a proven project manager and a senior wastewater treatment planning and design engineer with 20 years of experience. He has held a leadership role in projects involving nearly all aspects of wastewater treatment processes and

facilities. Jeff is very familiar with SOCWA having worked on the JBL Facility Plan Improvements, the JBL Digester 3 Repairs, and the Regional Treatment Plant Headworks Upgrade projects. As project manager, he will be responsible for resourcing, supporting the activities of the team, will be available to assist with meetings and any scope/budget discussions, and will serve as your primary point of contact throughout the project.

Rashi Gupta, PE PRINCIPAL-IN-CHARGE



Rashi has dedicated her career to finding and implementing solutions that address the specific goals of each client—from reducing operating costs through system optimization to reducing capital expenditure by tailoring processes to

fully leverage existing infrastructure. She has more than 20 years of experience specializing in the delivery of sustainable solutions and serves as Carollo's Wastewater Practice Director. Rashi has worked closely with SOCWA on a variety of wastewater treatment projects. Rashi will provide project oversight, continuity with other SOCWA projects, and commit the necessary resources for a successful project.

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Chris Loving, PE

QA/QC



Chris is a lead electrical engineer and is Carollo's Community of Practice leader for electrical system studies. He has 17 years of experience in electrical and instrumentation design and construction management for both water and wastewater treatment

facilities. His experience includes high, medium, and low voltage power distribution and generation system design, process and motor controls, and SCADA and PLC network design. His projects typically involve extensive coordination with other disciplines, understanding and incorporating plant operator input, and wide-ranging integration with existing facilities.

Sanjit Khanal, PE PROJECT ENGINEER



Sanjit is an electrical engineer with seven years of experience in the electrical engineering field. His previous experience includes designing industrial induction heating systems. At Carollo, he has worked on multiple projects designing electrical

systems for water and wastewater treatment plants. Sanjit has worked on similar MCC replacement projects with both Jeff and Chris, including SOCWA's JBL Facility Plan Improvements. Sanjit will be responsible for maintaining the overall schedule of the project.

Constructibility Reviews



We understand the constructibility challenges of replacing existing electrical equipment. We have worked with multiple manufacturer's to develop equipment layouts that fit existing locations and allow existing equipment, such as conduit and wire, to be reused. Our **Master Electrician**, **Brian Ream**, has worked with multiple teams to help determine the constructibility of designs and to inspect the work when it is installed. He carefully reviews each deliverable to identify constructibility issues during design to avoid costly conflicts or delays during construction.



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 this 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 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. 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.

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PRICING

We have provided a table of estimated hours below. Although not indicated in the RFP, the PlanetBids site requires a separate cost attachment to be uploaded. As such, we have provided our pricing information separately.

Task Description	Principal-in-Charge	Tech Advisor / QA/QC	Project Manager	Lead Engineer	Staff Engineer	Senior Technician	Technician	Doc Processing / Clerical	Total Hours
Task 1 - Project Management & Progress Meetings	2	0	29	14	28	0	0	0	73
Task 2 - Data Collection and Document Review	0	0	4	24	24	0	0	0	52
Task 3 - Preliminary Design	4	12	20	56	104	40	24	8	268
Task 4 - 30% Submittal	2	24	14	80	124	48	70	4	366
Task 5 - 75% Submittal	2	24	16	72	124	48	70	4	360
Task 6 - 100% Submittal	2	60	24	120	220	90	160	2	684
Task 7 - Bid Set	2	0	4	20	24	24	16	2	92
Task 8 - Technical Specifications	2	0	8	48	56	0	0	32	146
Task 9 - Construction Sequencing	2	10	4	16	20	0	0	0	52
TOTAL	18	130	123	450	724	250	340	52	2,093
Task 10 - Detailed Data Collection (OPTIONAL TASK)	0	0	20	60	120	0	0	0	200

Notes:

1. P&IDs and control descriptions for MCC-A PLC are not included.

2. Existing shop drawing schematics are available for MCC-A, MCC-C, MCC-H, MCC-G, MCC-A PLC, and Load Shedding Relays.

3. Assumes new conduit will be required for all MCC loads.

Closing

As your project manager for this MCC and Generator Upgrade project at the Regional Treatment Plant, please contact me at any time at 858-245-6081 or jweishaar@carollo.com if you have any questions regarding this proposal or if you need any additional information. This proposal will remain valid for 120 days after the date submitted.

Sincerely,

CAROLLO ENGINEERS, INC.

in A. Westran

Jeffrey A. Weishaar, PE Project Manager/Vice President

JAW:alh

Enclosures: Resumes Forms (Attachments B and D; Signed Addenda) Contract Comments





Education

MS Environmental Engineering, University of Missouri, Rolla, 2006

BS Civil Engineering, University of Missouri, Rolla, 2004

Licenses

Civil Engineer, California

Professional Affiliations

American Society of Civil Engineers

Society of American Military Engineers

Water Environment Federation

Jeffrey A. Weishaar, PE

Jeff Weishaar is a senior wastewater treatment planning and design engineer with 20 years of experience encompassing all phases of wastewater design for upgrade and expansion projects. He has had a leadership role in the design of projects involving nearly all aspects of wastewater treatment processes and facilities.

Relevant Experience

→ Project engineer for the Regional Treatment Plant Headworks Upgrade for the South Orange County Wastewater Authority (SOCWA), 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 engineer for the Digester Gas Alternative Uses Evaluation for SOCWA, California. Two treatment plants currently use engine generators to provide beneficial use of digester gas. This project evaluated existing and new technologies that would allow the plants to continue to utilize biogas under new, more stringent air quality emissions standards. The project recommended installation of new low emissions engine generators.

→ Project manager for the Coastal Treatment Plant Export Sludge Equalization Basin Design-Build Project for SOCWA, California. The project included preliminary design of a sludge holding tank, export pumping station, and electrical building for storage and pumping of the Coastal Plant's primary and thickened sludges. The sludges are pumped approximately 4 miles to a nearby facility for processing. Preparation of the design-build procurement package included development of plans and specifications to a 60-percent completion level, preparation of the design-build agreement, agreement forms,

and the request for proposals. Bids were received and evaluated from multiple designbuild teams. Carollo is currently operating as the Owner's representative in overseeing the final design and construction and providing inspection services.

 \rightarrow 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 Coastal Treatment Plant Return Activated Sludge Flow Control Analysis for SOCWA, California. The plant operates two sets of aeration basins, with different depths and no automatic control for adjusting the flow split and flow rate of return activated sludge (RAS). The analysis evaluated methods of improving the existing RAS system. The project also included recommendations for six improvement projects with various degrees of cost and difficulty. The client approved three of these for design.

→ Project engineer for the Coastal Treatment Plant Return Activated Sludge (RAS) System and Headworks Upgrades for SOCWA, California. Preliminary design included identification of reliable rotary drum screen manufacturers for raw wastewater screening including customer surveys, site



Jeffrey A. Weishaar, PE

visits, cost estimating, and detailed review of manufacturer specifications. Plans and specifications were prepared for replacement of the existing drum screens, replacement of the headworks influent force main knife gate valves, and other minor modifications to the headworks building. The plans and specifications also included design improvements to the return activated sludge system as previously identified in the RAS Flow Control Analysis. He provided construction management services, submittal review, and responses to contractor requests for information.

→ Project engineer for the Coastal Treatment Plant Aeration Blower Capacity Analysis for SOCWA, California. The plant operates two sets of aeration basins with different depths, air demands, and blower discharge pressures. The study involved analysis of the existing blowers, plant flows, aeration basin loading, and dissolved oxygen levels to determine the air demands for the various configurations of aeration basin operation. Blower upgrade alternatives were developed and analyzed for life-cycle costs based on capital and annual costs for power and cooling water consumption. Installation of turbine blowers was recommended to allow better control of air delivery to the aeration basins.

→ Project engineer for the J.B. Latham Wastewater Treatment Plant Digester 3 Repairs for SOCWA, California. The project included delivery of a preliminary design report analyzing the necessary repairs to the digester's mechanical appurtenances and instrumentation to improve safety and operations reliability. Drawings and specifications were prepared for concrete repair and recoating, piping and valve modifications, and instrumentation upgrades.

→ Project engineer for the J.B. Latham Wastewater Treatment Plant Digester Capacity Evaluation for SOCWA, California. The project included analysis of digester performance and operations to determine digester capacity for select goals. These included Class B biosolids, gas production for cogeneration, process stability, and emergency storage. → Project engineer for the J.B. Latham Treatment Plant Facility Plan for SOCWA, California. The Facility Plan provided a 20year 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.

→ Condition assessment task leader for the City of Oceanside, California, 2013 Integrated Master Plan update. The task entailed condition assessment of the City's 32 sewer lift stations. Replacement and rehabilitation projects were identified and prioritized for use in the City's CIP.

→ Staff engineer for the Wastewater Treatment Plant Upgrade for the City of Santa Maria, California. Detailed cost estimates were updated for the addition and replacement of multiple processes within the treatment plant. Construction of a new digester and trickling filter were estimated along with replacement of the existing sludge drying beds. An estimate for new percolation ponds was developed including size and location of the ponds and grading of the existing land.

→ 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.





Education

MS Environmental and Water Resources Engineering, University of Texas, Austin, 2001

BS Civil and Environmental Engineering, University of California, Davis, 1999

Licenses

Civil Engineer, California Professional Engineer, Kentucky

Professional Affiliations

California Water Environment Association (CWEA)

Santa Ana River Basin Section of CWEA (SARBS):

- Past-President, Board of Directors

Southern California Alliance of Publicly Owned Treatment Works

Water Environment Federation

- Member, Residuals and Biosolids Committee
- Past Chair, Solids Separation Sub-Committee
- Member, Bioenergy Sub-Committee

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. Ms. Gupta 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, Ms. Gupta 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

→ Project manager for the South Orange County Wastewater Authority (SOCWA), California, JB Latham Facility Improvements Package "B". Planning, design, and engineering services during construction (ESDC) for various plant upgrades and basin rehabilitation. The planning of this project used process and hydraulic modeling to assess the plant's capacity under a variety of operating scenarios, assessed various effluent management options, evaluated the condition of existing infrastructure onsite, and made recommendations for facility improvements to address capacity and condition-related constraints. Those recommended improvements were then designed and implemented in the design and ESDC project phases. Improvements included rehabilitation of primary and secondary sedimentation basins, dissolved air flotation thickeners, thickened sludge pumping, digester mixing, digester heating, effluent pump station and valves, and associated electrical and controls systems.

→ Project manager for the Blower Building Condition Assessment at the JB Latham Treatment Plant for SOCWA, California. This project included condition assessment of the building, mechanical, and electrical systems, and performance assessments of the plant's existing blowers, primary influent pumps, RAS pumps, WAS pumps, and primary sludge pumps.

→ Principal-in-charge for the TDS Study at the JB Latham Treatment Plant for SOCWA, California. This project included an evaluation of expected impact of increased TDS in the plant influent on the plants' liquid and solids treatment systems. The plant's processes were modeled and calibrated against bench scale bioreactors to assess treatment impacts. Impacts to solids digestion and dewatering were also considered to allow the agency to relay increased operating costs to a developer seeking to send high-TDS groundwater dewatering flows to the plant.

→ Project manager for the Flare Study at the JB Latham Treatment Plant for SOCWA, California. This project included an evaluation of expected SCAQMD permitting requirements and recent code requirements on new flares and digester gas storage systems that SOCWA may need to install at the JBLTP.

→ Technical advisor for the Innovative Biosolids Technologies project for SOCWA, California. The project included identification of promising innovations in biosolids management, development of an RFP for related solutions providers, and evaluation of proposals received relative to criteria important to SOCWA.

→ Project manager for the Dewatering and Digester System Assessment Project at the JB Latham Treatment Plant for SOCWA, California. This project includes capacity and condition assessment of the existing digester heating and dewatering processes.

→ Project manager for the JB Latham Treatment Plant Blower Building 1 Crack Repair Design project for SOCWA, California. Managed project which included inspection of structural cracks and deficiencies within



Awards

Induction into Select Society of Sanitary Sludge Shovelers (5S) by the California Water Environment Association

Spotlight Volunteer Award from the Santa Ana River Basin Section of CWEA

Other Accomplishments

National Science Foundation Fellow -University of Texas, Austin

Regents Scholar -University of California, Davis

Recipient of University of California, Davis M.S. Ghausi Medal for the College of Engineering

Rashi Gupta, PE

existing building and fast-tracked repair details, drawings, and specifications necessary for emergency repairs.

→ Project manager for the Hydraulic Study at the JB Latham Treatment Plant for SOCWA, California. This project includes the development and calibration of a full plant hydraulic model, and hydraulic modeling to assess plant capacity under varying hydraulic scenarios.

→ Project manager for the JB Latham Treatment Plant Consolidated Headworks Feasibility Study project for SOCWA, California. Managed project which included preliminary sizing, layouts, and cost estimates for a new headworks facility at the plant to assess the feasibility of such a system at this very constrained site.

 \rightarrow Design engineer and construction support for the Perris Valley Regional Water Reclamation Facility Plant 3 Facilities Expansion to 22 mgd for the Eastern Municipal Water District, California. This project included the addition of a new liquid treatment train and completely new anaerobic digestion systems to handle solids from both liquid trains. A new centrifuge, associated polymer, and electrical systems were installed in the existing dewatering facility to increase dewatering capacity and improve performance. Ms. Gupta was a lead engineer for the solids processes and set the design criteria for those systems. Her design responsibilities also included new primary sludge and scum pump stations, a waste activated sludge thickening facility with rotary drum thickeners, two return activated sludge/waste activated sludge pump stations, a digested sludge transfer pump station, and tertiary filter backwash and centrate return water pump stations. She also provided construction support services through submittal review and responses to contractor requests for information.

→ Technical advisor for the Sludge Thickening and Dewatering Building projects at the 285 mgd Central District WWTP and 112.5 mgd South District WWTP operated by the Miami-Dade Water and Sewer Department, Florida. She worked with the team to develop facility layouts/design concepts and continued through project duration, provided technical reviews and checks for the design of the thickening and dewatering facilities polymer, cake conveyance and truck loading for both treatment plants. Each treatment plant will get new thickening and dewatering buildings with four 30-inch bowl dewatering centrifuges, dry polymer makedown, cake pumping systems and truck loading silos. The Central District WWTP will include thickening with eight gravity belt thickeners whereas the South District WWTP will include six 30-inch bowl thickening centrifuges. Each facility will also include new odor control, centrate management, electrical and controls systems.

→ Project manager for the Union Sanitary District's WAS Thickener Replacement Project at the Alvarado Wastewater Treatment Plant in Union City, California. The project includes evaluation of thickening technologies, and preliminary and final design for a retrofitted thickening facility with new polymer, thickened sludge conveyance, HVAC, electrical and other ancillary systems.

→ Process specialist for the City of Burlingame, California, Digester Equipment Building and Digester No. 2 preliminary design. The preliminary design includes a new 55-ft diameter digester, rehabilitation of an existing pump mixing systems for both digesters, and a new digester equipment building to house new sludge recirculation and heating systems and a new electrical room.

→ Process specialist for the Solids Handling Improvement Project at the Bend Water Reclamation Facility for the City of Bend, Oregon. The project includes the rehabilitation of existing thickening and dewatering facilities to install new equipment for increased capacity and reliability. Preliminary design included an assessment of dewaterability through external sludge testing, investigation of potential optimization measures to improve process efficiency, and an evaluation of screw presses, centrifuges, and belt filter presses for installation in an existing solids handling building. Final design was based on the results of that evaluation and includes centrifuges and upgrades to the polymer, ventilation, cake load-out, automation, and electrical facilities.





Education

MS Electrical Engineering, Colorado School of Mines, 2011

BS Electrical Engineering, Colorado School of Mines, 2007

Licenses

Professional Engineer, Colorado, Mississippi, Illinois, Virginia, Maryland

Electrical Engineer, Arizona, California, Nevada

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 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.

→ 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. → 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.

→ 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. Design included a detailed construction sequence plan to minimize disruptions to plant operation as existing electrical equipment was taken out of service and ensures that all plant loads are supported by at least two sources of power derived from the utility service and either the plant standby diesel engine generator or a temporary standby engine generator provided by the contractor. Project involved understanding the Owner's needs and including a variety of process, HVAC, SCADA, fiber, and other upgrades.

→ 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



Christopher L. Loving, PE

system. Design included one-lines, motor control center elevations, standby power generation studies, conduit routing, and switchgear.

→ 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.

→ Electrical engineer for the City of Prescott, Arizona, Airport Water Reclamation Facility Expansion. Carollo assisted in approximately 65% 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.

→ 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.

→ Various electrical system studies for the City of Aurora, Colorado, including the Binney Water Treatment Plant and a multi-site electrical system study for the rest of their over 30 pump stations, water treatment plants, and wastewater plant. Study included all field investigation, model construction, arc flash philosophy meetings, and training of City personnel. 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.

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→ 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.

→ 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.

→ Project manager for the Denver Water, Colorado, Green Mountain PS Electrical System project.

→ Electrical design for Helix Water District, California, Fletcher Hills Pump Station replacement project.





Education

MS Electrical Engineering, Youngstown State University, 2017

BS Electrical Engineering, Tribhuvan University, Nepal, 2013

Licenses

Professional Engineer, California

Certification

Engineer Electrical A Category, Nepal Engineering Council, 2015

Sanjit Khanal, PE

Sanjit Khanal is an electrical engineer with experience in electrical manufacturing. His previous experience includes designing industrial induction heating systems. At Carollo, he has worked on multiple projects designing electrical systems for water and wastewater treatment plants.

Relevant Experience

→ Electrical staff professional providing construction support for the South Orange County Wastewater Authority, California, JB Latham Facility Plan Improvements – Phase 2 Biosolids Upgrades. Project included upgrading existing DAF thickeners and improvements to the existing digesters and energy recovery building. Electrical upgrades included improvements to the existing motor control centers, adding new motor control centers, and new distribution systems to accommodate process upgrade needs.

→ Electrical design and ESDC engineer for the Aquifer Storage and Recovery (ASR) Well and Pump Station project for the City of Roseville, California. Carollo is providing design and CM of six new ASR wells injecting treated water from Folsom Lake. Key components at each site include construction of new service entrance switchboards, motor control centers, variable frequency drives, instrumentation and controls, and PLC cabinet. The sites also included portable generator connections with manual transfer switches.

→ Electrical design engineer for the 2023 Motor Control Center Replacements for South Platte Renew, Colorado. This project involves replacing four MCCs (two in the DAFT and 2 in the digester). Carollo is also conducting an electrical system study for the areas associated with the project.

→ Electrical design engineer for the City of Aurora, Colorado, Sand Creek Water Reuse Facility (SCWRF) Rehabilitation and Improvements. Project includes the design improvements to the facility's existing aeration blowers, secondary clarifiers, and mixed liquor recycle (MLR) pump in the east biological nutrient removal (BNR) reactor. Additionally on the Electrical side, the project also includes the design of relocation of an unused generator from the Wemlinger Water Purification Facility (WPF) and connection to the SCWRF electrical system to provide emergency backup power.

→ Electrical design engineer for the City of Greeley, Colorado, Nitrification Phase II Project. This CMAR project included addition of two new selector basins and one new aeration basin to increase plant capacity. The existing RAS pump station was upgraded from 70 to 115HP and the addition of a new MLR pumping station, 200HP was included. Other project elements included designing a new centrate treatment facility and upgrading the chemical storage facility. For the electrical distribution system for added load to the plant, a new electrical building was designed to be powered from a new 750KVA transformer.

→ Electrical staff professional providing construction support for the Denver Water, Colorado, 75-mgd North Water Treatment Plant. This greenfield project involves electrical, instrumentation and controls, security, and communications preliminary design for the new advanced water filtration facility in Denver, Colorado. The plant will initially treat 10-150 mgd with expansion capabilities of up to 250 mgd. The design includes integration of new technologies and design approaches to streamline future design projects for Denver Water and has accommodation for future unit processes such as ozonation, ultraviolet (UV) disinfection, and granular activated carbon (GAC) absorption.

→ Electrical design engineer for the Pasco County, Florida, Southeast WWTP Expansion. Project includes upgrading the entire facility, increasing the plant treatment capacity from 3 mgd to 6 mgd. Work includes extensive utility coordination to upgrade the existing service entrance transformer to incorporate added loads in the plant, adding new main switchgear, adding new backup generator 1000KW size, upgrading and adding new load distribution systems over entire plant as per new process upgrades.



Sanjit Khanal, PE

→ Electrical staff professional providing construction support for South Platte Renew, Colorado, Electrical Improvements Design and Construction. The scope of the electrical portion of the project included two low-voltage switchgear upgrades and replacements, and switchboards in Headworks Building, power and communication centrate valve vault, and a new pump station control panel.

→ Electrical engineer for the East Canyon Water Reclamation Facility Expansion Design Phase 1 for Snyderville Basin Water Reclamation District, Utah. Carollo provided planning and design for the expansion of the East Canyon Water Reclamation Facility. The project included a new bioreactor for biological nitrogen removal and chemical phosphorus removal facilities, including flash mix, two-stage flocculation and cloth disk filters, followed by UV disinfection. This upgrade will continue to help the Facility meet an effluent TP concentration of less than 0.10 mg/L but at higher flow capacities.

→ Electrical engineer for electrical upgrades at the City of Aurora, Colorado, Griswold Water Purification Facility. The project included the design of a new service entrance medium-voltage switchgear, replacement of the existing faulty Automatic Transfer Controller, and generator breaker trip unit modification to reduce arc flash incident energy.





Education

IECRM Electrical Trade Career College, 1998

Trimble Accubid Estimating Software Training

OSHA 30

Licenses

Master Electrician, Colorado

Certification

International Code Council Certification, Colorado

Professional Affiliations

International Association of Electrical Inspectors

Brian J. Ream

Brian Ream has 29 years of experience in the electrical industry for water and wastewater facilities. His recent experience includes project site inspections, constructability review, engineer cost estimates, and electrical, instrumentation and control designs. Prior to joining Carollo, Mr. Ream managed the field operations for an electrical contractor. His experience includes business planning, staff development, master planning, design reviews, estimating, proposals, contracts, budgeting, schedules, electrical/ instrumentation, SCADA procurement and installations, commissioning, start-ups and client trainings.

Relevant Experience

→ Electrical constructability reviewer, field advisor and inspector for the construction of new medium voltage underground electrical distribution infrastructure for the City of Tacoma, Washington, Central Treatment Plant (CTP). This project included construction of a new switchgear building and replacement of CTP's main 15 kilovolt service entrance switchgear. It also involved the replacement of other aging electrical assets at the plant

→ Electrical constructability review and electrical cost estimator Denver Water, Colorado, North System Renewal WTP Design Package 3. The project entailed preliminary design development for the electrical and instrumentation design of a greenfield 150mgd advanced water filtration plant. The design included integration of new technologies and design approaches to streamline future design projects for Denver Water.

→ Electrical constructability reviewer for the City of Bend, Oregon, Solids Handling Improvements Dewatering Project.

→ Electrical constructability review for the Albuquerque Bernalillo County Water Utility, New Mexico, Southwest Water Reclamation Plant (SWRP) Electrical System Priority Planning.

→ Electrical designer for the City of Oceanside's Major Plant Automation Upgrades, Oceanside, California. Provided design assistance, software standards template development, control strategy review, and cost estimating assistance.

→ Electrical designer for the City of Aurora, Colorado, Arc Flash Reduction Design. Project included electrical system study and design of new service entrance equipment at eleven remote sites.

 \rightarrow Electrical engineer cost estimator for the City of Tacoma, Washington, Owner's Representative Treatment Plant System Upgrade. Services included upgrade/replacement of control system for the City's Central Treatment Plant (CTP) and North End Treatment Plant (NETP). The core of the existing control system comprises an ABB System Six distributed control system (DCS) with six Distributed Control Units (DCUs) located at the CTP and a single DCU located at the NETP. Auxiliary control systems included twelve PLCs that are interconnected to the DCUs, eleven PLC's that are stand-alone systems, and approximately nineteen remote IO cabinets.

→ Electrical designer for the City of Aurora, Colorado, System Wide UPS Replacement project. Tasks included field investigations, workshops with client, and design of 43 remote pump station site UPS systems.

→ Electrical designer for the City of Aurora, Colorado, Sand Creek Water Reclamation Facility (WRF) Arc Flash Design. Project included electrical system study and design of new electrical distribution equipment at four locations at the Sand Creek WRF.

→ Instrumentation and controls designer and on-site inspector for the Metro Water Recovery, Colorado, PAR 1225 South Headworks and Grease Process Improvements. This work involved extensive modifications to the existing screening, grit removal, and grease processing facilities for the 100-mgd South plant.

→ Instrumentation designer for the City of Aurora, Colorado, Second Creek Interceptor Segment 1E Design. Project included a new wastewater vault with flow metering and communication equipment.



Brian J. Ream

→ Electrical designer, cost estimator, and engineer field inspector for the City of Aurora, Colorado, Griswold Flow Control Center. Provided design assistance for work stations and a SCADA event monitoring center.

→ Electrical engineer cost estimator for the City of Fort Collins, Colorado, Electrical Master Plan.

→ Electrical engineer cost estimator for the City of Fresno, California, Water Treatment Design.

→ Electrical engineer cost estimator for the City of San Mateo, California, Wastewater Treatment Plant PCS Design.

→ Electrical engineer cost estimator for the City of Salem's Willow Lake Water Pollution Control Facility Gravity Thickeners/Sludge Degritting Improvements, Salem, Oregon.

→ Electrical engineer cost estimator for the City of Longmont, Colorado, Sludge Control Building Modifications.

→ Electrical engineer cost estimator for the Albuquerque Bernalillo County Water Utility, New Mexico, SWRP MCC and Switchgear Replacement.

→ Electrical engineer cost estimator for the City of Yuma, Arizona, Figueroa Ave WPCF Electrical Upgrade.

→ Electrical engineer cost estimator for the City of Oak Harbor's Wastewater Treatment Plant Preliminary and Final Design, Oak Harbor, Washington.

→ Electrical, instrumentation and controls inspector for the Metro Water Recovery, Colorado, PAR 1247 Electrical Transformer Replacement Project and PAR 1259 Digester Complex Rehabilitation Project. Project included replacement of two 4.16 kV to 13.2 kV substation transformers with low resistance and zig-zag transformer grounding, two 13.2 kV to 480 V substation transformers with high resistance grounding, and a 480 V load center.

→ Electrical, instrumentation and controls inspector for the City of Aurora, Colorado, Wemlinger Water Purification Facility (WPF) CT Chamber. The project consists of construction of a new buried concrete water disinfection contact chamber.

→ I&C quality management reviewer for the City of Omaha, Nebraska, Riverview Lift Station Final Design.

→ Electrical, instrumentation and controls construction coordinator for the City of Aurora, Colorado, Cherry Creek Well Field Controls Rehabilitation.

→ Electrical, instrumentation and controls inspector for Metro Water Recovery, Colorado, PAR 1085 South Secondary Improvements Construction Services. Project included modifying and upgrading the South Secondary Treatment Facilities to treat 114 million gallons of wastewater per day. Project included design of electrical, instrumentation, and control elements for successful integration into facility SCADA system.

→ Electrical, instrumentation and controls inspector for the City of Longmont, Colorado, Gravity Thickening & Digester Gas Modifications Construction Services. Project included preliminary and final design documents for replacement of two thickened sludge pump stations and siting of a new waste gas burner.

 \rightarrow Electrical, instrumentation, and controls auditor for the Metro Water Recovery, Colorado, Owner's Advisor PAR 1088 Northern Treatment Plant Program Construction Services. The Owner's Advisor assisted the District in the management of the 7-year Program for all planning, procurement, construction, and start-up services for the implementation of a 24-mgd advanced treatment facility, a 7-mile interceptor, and the 11-mile effluent pump back system. The Owner's Advisor was co-located with District staff for the delivery of the \$475-million Program. The Program includes the largest, constructed PDB project to date in the U.S. water/wastewater industry, and has been referenced by the Water Design-Build Council and Design-Build Institute of America as an example for best value, gualifications-based procurement.





Education

BS Mechanical Engineering, University of California, Irvine, 1998

Licenses

Mechanical Engineer, California

Professional Affiliations

American Society of Mechanical Engineers

Juan R. Loera, PE

Juan Loera is a principal mechanical engineer with Carollo with more than 24 years of experience designing mechanical systems for municipal wastewater treatment facilities. He has worked on a number of different wastewater projects in various aspects of analysis, design, and construction of digester gas system projects. Juan has extensive knowledge in the design of large blowers, compressors, and pumping systems associated with water and wastewater treatment facilities and the HVAC systems necessary for process and electrical buildings. He has evaluated, analyzed, and developed approaches for combining existing digester gas systems with new plant expansions; combined multiple blower facilities to operate as a common system; and designed new digester gas piping systems to replace old poorly performing corroded piping systems. A summary of his relevant experience follows:

Relevant Experience

→ Mechanical engineer for the 15-mgd RP-5 project for the Inland Empire Utilities Agency, California. The design included a complete 15-mgd Title 22 facility that was designed to treat wastewater using a mixed liquor suspended solids (MLSS) concentration of 5,000 mg/L and a solids retention time (SRT) of 45 days. The design also included retrofit of the solids handling facilities at the RP-2 facility. Solids handling included gravity thickening, anaerobic digestion, and belt press dewatering for primary sludge, and dissolved air flotation (DAF) thickening, aerobic digestion, and belt press dewatering for secondary sludge. His responsibilities included designing the piping for the aeration air distribution system and blower size selection.

→ Mechanical engineer for design of the Temecula Valley Regional Water Reclamation Facility Expansion to 12 mgd for the Eastern Municipal Water District, California. The expansion included construction of a new 32-mgd headworks, 4-mgd primary/secondary treatment, and increased tertiary facility and solids handling (thickening and anaerobic digestion) capacity. His responsibilities included designing piping for the aeration air distribution system.

→ Mechanical discipline lead for design of the Central Plant South Secondary Treatment Facilities Phase 2 for the Clark County Water Reclamation District, Nevada. The project included design for a 40-mgd advanced secondary treatment expansion designed for biological nutrient removal. Facilities included aeration basins, secondary clarifiers, return-activated sludge/wasteactivated sludge (RAS/WAS) pump station, blower building, electrical building, chemical feed facilities, yard facilities, miscellaneous piping, and HVAC systems.

→ Design engineer for a high-speed turboblower system design engineer for the Post Point Wastewater Treatment Plant Expansion project for the City of Bellingham, Washington. The project increased the plant capacity from 25,000 pounds per day influent biochemical oxygen demand (BOD) to 40,000 pounds per day and 22 mgd. The project included the addition of chemically enhanced primary treatment, primary effluent pump station modifications, an anaerobic selector basin, new aeration basins, and rehabilitation and conversion of existing aeration basins from high-purity oxygen to diffused air, new blower building with standby generator, secondary clarifier, return activated sludge (RAS)/waste activated sludge (WAS) pump station and plant water pump station modifications. His responsibilities included evaluating various high-speed single-stage turbo blowers and designing a mixed-sized high-speed turbo blower system; automated blower controls; an intake air system; and a heating, ventilation, and air conditioning (HVAC) system.

→ Design engineer for the final design of the South Secondary Improvements project for the Metro Wastewater Reclamation District, Colorado. The project incorporated a two-year effort in design of a new 110-mgd biological nutrient removal (BNR) activated sludge secondary complex with an anticipated construction cost of \$225 million. The facility included complete nitrification and denitrification and phosphorus removal. The



Awards

OCSD Plant No. 2 Headworks Replacement Project, P2-66

- Engineering Research Achievement Award, California Water Environment Association, 2005
- Engineering Research Achievement Award, Santa Ana River Basin Section of the California Water Environment Association, 2005

Juan R. Loera, PE

design featured six parallel-activated sludge aeration basins, each with a capacity of nearly 20 mgd. The treatment complex included a common mechanical building featuring a 269-mgd primary effluent pump station and an aeration blower building housing five 2,000-hp blowers. The plant will be constructed on a new area of the existing site and incorporate centrate treatment facilities using a unique Centrate and Return Activated Sludge Re-aeration Basin (CaRRB) process. The new facility featured an extensive network of piping and equipment galleries surrounding the complex to contain all piping pumping equipment and electrical cabling inside and protected from inclement weather. The project included planning to maintain plant operations while approximately \$90 million of rehabilitation occurs in and adjacent to the operating facilities. The project incorporated over 2,500 drawing sheets and 10 volumes of bid documents. His responsibilities included design of the Blower Building. The blower system design included five single-stage centrifugal blowers with 2,000-hp motors and 29,260-scfm capacity, a completely automated blower and dissolved oxygen (DO) control system, an intake air filtration system, suction and discharge silencers, a 10-ton overhead bridge crane system, an HVAC system, and acoustical treatment.

→ Project engineer for the \$138 million Orange County Sanitation District, Headworks Rehabilitation and Expansion at Plant 1 (P1-105). This project will expand the capacity at Plant 1 from 280 mgd to 320-mgd. The project includes comprehensive rehabilitation and expansion of influent flow metering and diversion; bar screens; screenings handling; influent pumping; grit handling; primary flow splitting and metering; odor scrubbers; and electrical buildings. Construction sequencing to maintain headworks in service during construction.

→ Construction management services during construction of the \$35 million Secondary Treatment Expansion at Plant No. 1 for the Orange County Sanitation District, California. The project included new high-efficiency blowers, retrofit of 10 existing aeration basins, 10 new secondary clarifiers, 3 new dissolved air flotation (DAF) units, rehabilitation of existing DAF units, and rehabilitation of the return activated sludge/waste activated sludge (RAS/WAS) pumping plants. The project also included programmable logic controllers (PLCs) and monitoring of the above treatment processes.

→ Project engineer for the Orange County Sanitation District, California, 2017 Facilities Master Plan. This Master Plan develops a 20-year capital improvement plan for OC San's treatment plant and collection system sewers and pump stations. Over the 20-year planning period, numerous OC San treatment facilities and collection system sewers and pumping facilities will need rehabilitation or replacement, with a total capital expenditure of approximately \$5 billion. This Master Plan identifies the rehabilitation/replacement needs and develops a preliminary Scope of Work and planning level cost estimate for each project.

Design engineer for design of the San Jacinto Valley Regional Water Reclamation Facility Plant 2 Facilities and Title 22 Tertiary Treatment Upgrade for the Eastern Municipal Water District, California. The project included planning, preliminary design, final design, and construction services for a comprehensive plant expansion to 14 mgd. In addition to solids handling facilities, the project included a new headworks; primary, secondary, and tertiary treatment; and effluent pumping. Solids processes included a new waste-activated sludge (WAS) thickening building, two new anaerobic digesters with provisions for two-phase digestion, a sludge storage tank, digester gas storage and compression facilities, evaluation of cogeneration, and dewatered sludge truck loading hopper. Responsibilities included designing the new 18-mgd headworks facility, aeration blowers, digester gas handling system, and utility water and effluent pump stations; designing the HVAC and odor control systems and leading the design of the tertiary effluent storage ponds; and designing a new aeration air system with highspeed single-stage turbo blowers and incorporating the existing engine-driven multistage blowers into one common system.





Education

BS Civil Engineering, University of California, Berkeley, 2002

Licenses

Civil Engineer, California

Hipom (Caleb) Che, PE

Caleb Che is a structural engineer with 22 years of experience in civil engineering. He has been responsible for designing water and wastewater treatment facility structures in accordance with current standards of building codes and responsible for providing structural specifications for the project. He has reviewed structural shop drawings and responded to requests for information (RFIs) in regard to construction issues. His experience includes:

Relevant Experience

→ Project engineer (structural) for the AWT No. 2 Filter Assessment Project at the Regional Treatment Plant for the South Orange County Wastewater Authority, California. This project includes capacity and condition assessment of the existing AWT filter process.

→ Project engineer (structural) for the Package B Improvements Planning project at the JB Latham Treatment Plant for the South Orange County Wastewater Authority, California. This project included capacity and condition assessment of the existing liquid treatment trains, evaluation of effluent management options, cost modeling, process modeling, hydraulic modeling, and capacity analyses of solids thickening and digestion processes.

→ Project engineer (structural) for the Blower Building 1 Crack Repair Project at the JB Latham Treatment Plant for the South Orange County Wastewater Authority, California. This project includes emergency concrete crack repair of the existing blower building.

→ Project engineer (structural) for the Dewatering and Digester System Assessment Project at the JB Latham Treatment Plant for the South Orange County Wastewater Authority, California. This project includes capacity and condition assessment of the existing digester heating and dewatering processes.

→ Structural engineer for the Clean Water Services Rock Creek Wastewater Treatment Plant, Oregon. Tasks include performance of an ASCE 41-13, Tier 1 and Tier 2 seismic evaluations for the existing dewatering building for the development of seismic retrofit.

 $\rightarrow\,$ Structural engineer for the PS15-06 Seismic Study at Plant No. 1 and 2 for the

Orange County Sanitation District, California. Tasks include performance of an ASCE 41-13, Tier 1 and Tier 2 seismic evaluations for the various existing structures.

→ Structural engineer for the P1-105 Headworks Rehabilitation and Expansion at Plant No. 1 Project for the Orange County Sanitation District, California. Tasks include performance of an ASCE 41-13, Tier 1 and Tier 2 seismic evaluations for the various existing structures for future long-range facility planning and the development of seismic retrofit strategies.

→ Project engineer for the Post Point Resource Recovery Plant's Primary Sludge Tank Replacement Design for the City of Bellingham, Washington. The existing primary sludge tank plays an important role in the solids handling process. However, this tank is reaching the end of its useful life and needs to be replaced. Carollo is leading the design to replace this individual tank with a pair of 40,000- to 50,000-gallon tanks for a total minimum sludge storage capacity of 80,000 gallons. Installation of the new tanks at the proposed location will require piping and pumping transport revisions for sludge handling to and from the new tanks. The design responsibilities include preparation of structural calculations, plans and details, and specifications for new reinforced concrete sludge tanks and modifications of existing scrubber building.

→ Project engineer for the Hilo Wastewater Treatment Plant Rehabilitation and Replacement Project Phase 1 for the City of Hilo, Hawaii. The project includes septage receiving facility, headworks facility, headworks electrical building, sludge blending system with odor control, solids handling building, digester tanks and associated digester control buildings, and modifications of existing influent channel, primary gallery, and primary sedimentation tanks. The



Awards

Outstanding Private Sector Civil Engineering Project - Honorable Mention, American Society of Civil Engineers, Los Angeles Section, 2013, City of Santa Barbara El Estero Wastewater Treatment Plant Headworks Screening Replacement

Project of the Year, American Society of Civil Engineers, Santa Barbara/Ventura Branch, 2012, City of Santa Barbara El Estero Wastewater Treatment Plant Head-works Screening Replacement Project

Hipom (Caleb) Che, PE

responsibilities include preparation of calculations, plans and details, and specification for structural design of multi-story concrete shear wall buildings with flexible roof and rigid floor diaphragms, masonry shear wall buildings with concrete basement and flexible roof diaphragm, 50-ft diameter by 35-ft tall concrete digester tanks with steel dome cover, and outdoor concrete foundations for support of large heavy industrial size mechanical and process equipment tanks. The design also included extensive construction sequencing requirements to minimize disruption of existing plant operations.

→ Project engineer for the P1-105 Headworks Rehabilitation and Expansion at Plant No. 1 Project for the Orange County Sanitation District, California. The project includes rehabilitation and upgrade of the Plant No. 1 Headworks facilities with construction budget of \$223 million. Facilities to be rehabilitated include metering and diversion structure, bar screen building, bin loading building, influent pump station, grit basins, primary influent channels, grit handling building, headworks odor control scrubbers, and power buildings. The project also includes demolitions of the original Headworks No. 1 facilities and the unused chlorine building pumps. The design responsibilities include preparation of structural calculations, plans and details, and specification for modifications of existing facilities and added new structures. The new structures consist of steel roofs, reinforcing concrete walls, reinforced masonry walls, reinforced concrete slabs, steel moment frames, steel framed canopies, and precast deep foundation driven piles.

→ Project engineer for the Southeast Water Pollution Control Plant SEP 020 Headworks Replacement Project for the City of San Francisco, California. The replacement headworks design has a capacity of 250mgd. The headworks facility is about 375 feet long, supported on deep foundation comprised of 3-ft diameter by 125-ft long drilled concrete piers, and includes influent junction, headworks electrical, fine screen, screening handling, grit tanks, primary influent, and multi-story grit handling building. The design responsibilities include preparation of structural calculations, plans and details, and specification for a new multi-story headworks facility. The facility consists of steel and concrete roofs, elevated concrete slabs, and concrete shear walls.

→ Project engineer for engineering services during construction in association with the Plant No. 2 Headworks Replacement (P2-66) for the Orange County Sanitation District, California. The replacement headworks design has a capacity of 340 mgd and includes influent flow metering and diversion, bar screens, screenings handling, influent pumping, grit basins, grit handling, primary influent flow splitting and metering, odor control scrubbers, chemical facilities, and an electrical building. The four chemical facilities include computational fluid dynamic (CFD) and physical modeling of various hydraulic structures was performed for improved hydraulics. The process and equipment selection process included staff workshops, site visits to other plants, and equipment pilot testing. The design included a control system, which provides full automation of equipment for unattended operation and integration with the existing plant-wide Process Control System. The design also included extensive construction sequencing requirements/constraints and a detailed testing, start-up, and commissioning plan. The construction sequence and commissioning process was started early in the design phase to identify and address impacts on the project. This project received the Engineering Research of the Year - 2005 award from the California Water Environment Association.

→ Project engineer for the Southeast Surface Water Treatment Facility for the City of Fresno, California. The project included a new 80-mgd surface water treatment plant. The design responsibilities include a singlestory chemical building, single-story electrical building, filters, single-story maintenance building, two-story operations and control building, ozone contact basins with a generator building on the roof level, pretreatment basins with inclined plate settlers, and pump stations.





BS, Electrical Engineering, California State University, Fresno, 2022

Licenses

Engineer-in-Training, California

Certification

Certified, OSHA 30-hour Construction Safety and Health Program

Professional Affiliations

Member of IEEE-HKN Awards: 2022 Undergraduate Deans' Medalist Nominee at CSU Fresno

Jack White, EIT

Jack White has been with Carollo since 2021, specializing in instrumentation and controls (I&C). He develops P&IDs, control narratives, control panel elevations, and schematics. He is proficient in Python 3, MATLAB, and C++ and has delivered multiple projects involving SCADA systems and industrial automation. He also has experience simulating circuits and systems in Multisim and Simulink.

Relevant Experience

→ I&C support for the Goleta Water District, California, PDB SCADA Upgrade. Carollo is currently leading the design of this progressive design build project. The District's current SCADA system monitors and controls the operation of three different systems: Goleta West Conduit (treated but not filtered), the recycled water system, and the potable water system. The project encompasses the water treatment plant, reclaimed water system, booster pump stations, chlorination facilities, reservoirs, and wells. The objective is to unify operations across the District's multiple current and planned facilities with a single, operator-friendly system. The SCADA system includes all new servers, software, networks, fiber optic ring, telemetry, and cybersecurity. Each site will receive new control panels, new control programming, and adequate backup power. Additional upgrades include programming standard, high performance graphics, process improvements, new control room, rounds management, and automated reporting.

→ I&C support for the Leo Vander Lans Advanced Water Treatment Facility SCADA Upgrade project for the Water Replenishment District of Southern California. Carollo provided design services to replace aging PLCs, improve reliability of the PLC communications, improve the UPS backup power for the control system during power outages, improve cooling and temperature monitoring of all critical control panels, implement retagging of all assets and field equipment, and coordinate with propriety Trojan UV and Pall MF systems to upgrade their control panels in parallel with plant improvements.

→ I&C support for the Cogeneration Equipment Replacement project (PAR 1395) for the Metro Water Recovery, Colorado. Carollo was selected to be the design engineer for this project. The project replaces aged cogeneration infrastructure with biogas processing equipment to remove hydrogen sulfide, separate methane from other constituents, and compress the biogas into Xcel Energy's natural gas pipeline. The scope involves technology evaluations for both hydrogen sulfide removal and biogas upgrading equipment, construction sequencing to minimize impacts to the operating cogeneration facility, as well as significant hot water system modifications, El&C upgrades, and integration work.

→ I&C support for the Milwaukee Metropolitan Sewerage District, Wisconsin, SCADA and I&C Systems Master Plan. Jack developed the Long-Term Visioning Survey for operations and management input and feedback. He also developed technical memoranda outlines and preliminary content and workshop presentation outlines and agendas. He was also responsible for recording and documenting workshop action items and decisions.

→ I&C support for the Polk County, Florida, SCADA Master Plan Upgrade. The project updated the County's existing SCADA master plan by reviewing the current SCADA system against new technologies to provide new recommendations and assess the SCADA system's risk to cybersecurity threats. Jack developed the Long-Term Visioning Survey for operations and management input and feedback. He was also responsible for recording and documenting workshop action items and decisions.

→ I&C support for the City of Burlingame, California, Digester Improvements. This project included preliminary design of a new digester with pump mixing, a new sludge storage tank, and a new digester equipment building that included an electrical room to house new MCCs and PLCs, and a mechanical room to house new sludge circulating pumps and heat exchangers. Jack worked



Jack White, EIT

with the I&C lead to develop P&IDs for digesters, mixing and recirculation pumps, and hot water loop; control strategies for new process loops; control panel elevations for new control panel; and control schematics for new pumps and existing equipment. He also assisted in network change design to add the new control panel to the plant network.

→ Electrical, Instrumentation, and control (EI&C) support for the City of San Diego, California, North City Pure Water Facility and Pump Station Engineering Services During Construction. The Carollo-designed 34-mgd North City Pure Water Facility treats and purifies wastewater to supplement the City's drinking water supply. This potable water reuse advanced water treatment plant (AWTP) uses a proven five-step water purification process of ozonation, BAC filters, membrane filtration, RO, and UV disinfection with sodium hypochlorite advanced oxidation. The design of the facility included multiple layers of physical and operational security tied into the City's access control and video management systems. Jack was responsible for the review of technical submittals related to electrical, instrumentation, and control equipment and systems. He also collaborated with EI&C Leads to respond to Requests for Information (RFIs) from the contractor and incorporate design changes. Jack regularly performed site walks to observe construction progress in the field and participated in witness factory acceptance tests for electrical and instrumentation equipment.

→ I&C support for the Portland Water Bureau, Oregon, Bull Run Filtration Facility Design. The new greenfield 145-mgd filtration facility includes design of conventional treatment process facilities and the instrumentation and controls. Jack worked with the I&C lead engineer to develop control strategies for all process loops in the filtration facility including the filtration system and backwash; incorporate client comments on I&C deliverables at every stage of the design; and create presentation slides for internal design workshops and workshops with the client. → I&C support for the East Bay Municipal Utility District (EBMUD), California, Orinda Water Treatment Plant Disinfection Improvements Project Engineering Services During Construction. The design for this 200-mgd inline facility includes new UV and a chlorine contact basin processes. During construction, Jack was responsible for the review of technical submittals related to instrumentation and control equipment and systems. He also collaborated with I&C Lead to respond to Requests for Information (RFIs) from the contractor.

→ I&C support for the Wastewater Treatment Plan Upgrade for the City of King City, California. Carollo has provided the City with engineering services dating back to the original pond plant construction, with numerous upgrades and expansion projects over the past five decades. Design elements include new operations/administration and maintenance buildings; preliminary treatment; secondary treatment including oxidation ditch bioreactors with anoxic zones, mixed liquor splitter box, secondary clarifiers, a new RAS/WAS pump station and electrical building; tertiary treatment utilizing cloth disc filters and UV disinfection; recycled water distribution facilities; solids storage facilities and a screw press dewatering building; and site improvements including a new 1.3 mile all weather access road, conversion of existing treatment lagoons to percolation basins, rehabilitation of an existing irrigation pump station, and reconfiguration/expansion of solar facilities.

→ Project engineer intern for Helix Electric in Elk Grove, California. While employed by Helix, Jack worked on the Sacramento Regional County Sanitation District, California, EchoWater Tertiary Treatment Facilities Project. Jack examined drawings for discrepancies and submitted requests for design clarifications; prepared material submittals and performed quantity takeoffs with Bluebeam Revu; participated in worksite safety inspections and daily activity reports; and drafted a submittal log for the Joseph Jensen Water Treatment Plant Stage 2 Electrical Upgrades Project based on the project's design specifications.





BS Electrical Engineering, University of California Irvine, 1989

Licenses

Control System Engineer, California

Professional Affiliations

International Society of Automation (ISA)

John Lin, PE

John Lin has more than 30 years of experience in the field of instrumentation and control systems. He has expertise in preparing designs and specifications in instrumentation and control systems, coordinating design and construction activities, and monitoring consultant designs for compliance with engineering standards. John also has skills in Taylor ProWorx Plus, Schneider Electric Control Expert, Modicon Quantum PLC, Unity M580 PLC, and Wonderware InTouch.

Relevant Experience

→ I&C reviewer for the Valencia Water Reclamation Plant Programming Services project for the County Sanitation Districts of Los Angeles, California. The Carollo team provided programming and integration services that included software coordination, SCADA hardware and software integration, PLC programming, SCADA configuration, trending creation, factory and field-testing, startup, training, and warranty period services. Carollo also provided programming services during the construction phase. The services included PLC and SCADA configuration services, various coordination meetings during construction, factory testing, field-testing, start-up services, commissioning, and O&M training.

→ I&C reviewer for the Goleta Water District, California, PDB SCADA Upgrade. Carollo is currently leading the design of this progressive design build project. The project encompasses the water treatment plant, reclaimed water system, booster pump stations, chlorination facilities, reservoirs, and wells. The objective is to unify operations across the District's multiple current and planned facilities with a single, operatorfriendly system. The SCADA system includes all new servers, software, networks, fiber optic ring, telemetry, and cybersecurity. Each site will receive new control panels, new control programming, and adequate backup power. Additional upgrades include programming standard, high performance graphics, process improvements, new control room, rounds management, and automated reporting.

→ Instrumentation and control systems for the San Elijo JPA NdN Conversion & CCB Upgrades Final Design. Carollo will evaluate the electrical service needs within the context of current SEWC's electrical service capacity, equipment and configuration. The team will recommend electrical system upgrades and local MCC replacement suitable for the Project. Findings and recommendations will be summarized and incorporated into the Basis of Design Report (BODR).

 \rightarrow I&C engineer for the North City Pure Water Facility Phase 1 project for the City of San Diego, California. Carollo provided EI&C and programming design services for the new facility. Designed a control system that included complex communication networks with extensive coordination among multiple vendor package control systems and the facility's Emerson Ovation distributed control system (DCS). Designed device level networks to incorporate field equipment, such as flow meters, water quality analyzers, valve actuators, and motor control center devices into the facility control system network. This will provide the owner with advanced diagnostics and performance data for field devices. Developed detailed process control strategies to describe complex individual process and overall plant control sequences for the DCS programmers.

→ Instrumentation and control systems for the El Dorado Irrigation District, California, Wastewater Collection System Radio Path Design. The project involved integration of 69 wastewater remote sites using licensed radio communication links back to the central wastewater SCADA/HMI system.

→ I&C engineer for the Sonoma Water, California SCADA Support Services project. The project included development of P&IDs and specific control descriptions for all water and wastewater facilities operated by Sonoma Water.

→ Instrumentation and control systems for the Comprehensive Energy and Sustainability Upgrades Project, West County Wastewater District, Richmond, California. District is undergoing an energy services



John Lin, PE

contract to design and construct new solids handling facilities. The facilities include two new digesters, solids thickening, thermal drying, digester gas treatment, cogeneration with a reciprocating engine, heat loop revisions, and a waste gas burner.

→ Instrumentation and controls engineer for the Phase 2 of the Hilo Wastewater Treatment Plant Secondary Process Upgrades and UV Disinfection, County of Hawaii, Hawaii. This project includes influent flow monitoring and sampling, two influent screens and one bypass channel, screenings handling system, two grit removal basins, grit pumping system, two duty and one standby grit washers/classifiers, grit loading system, flow conveyance to the existing sedimentation basins and primary influent splitter structure, two-stage biological/carbon odor control system, electrical/control building, two sludge blending tanks, two fixedcover anaerobic digesters, demolition of existing facilities, and plant-wide instrumentation and controls (new PLCs and SCADA).

→ Instrumentation and control systems engineer for various wastewater and water treatment plant projects, Santa Ana, California, including the City of San Diego Point Loma Wastewater Treatment Plant Digester Upgrades and the Orange County Sanitation District's Plant 1 PL-36 PLC/HMI Programming Project. Responsibilities included programming wastewater treatment plant control operations using Modicon Quantum PLC. The systems being programmed included DAF, recycle pumps, TWAS pumps, and DAF polymer batching systems. John also programmed PLC I/O simulation software from SS technologies to test PLC programs. Performed point-to-point and functional testing of HMI/PLC programs and prepared design, specifications, P&ID, and cost estimates of instruments and data acquisition systems needed for the construction of wastewater treatment plants. Other tasks included oversight of contractor compliance to specifications, reviewing contractor's shop drawings, developing control strategies for operation of the wastewater treatment plant, and performing field equipment start-up and operator training.

→ Senior engineer for the Orange County Sanitation District, California. Projects included the P1-105 Headworks Rehab at Plant 1, P2-66 Plant 2 Headworks Replacement, P2-92 Sludge Dewatering and Odor Control at Plant 2, J-117B Ocean Outfall System Rehabilitation, P1-36-2 Secondary Treatment Improvement, and P1-76 Trickling Filter Rehabilitation. John's responsibilities on these projects included:

• Assisted in the pre-design phase by reviewing project proposals and consultant's technical memorandums and control philosophy. Also developed scope of work, staffing requirements, preliminary budget.

• Reviewed I/C design submittals, P&ID's, SCADA block diagrams, control strategies, PLC I/O lists, PLC I/O points loading, control panels and electrical schematics. John also attended project meetings and workshops and worked closely with consultants to ensure the design complied with District's Engineering Standards and met the need of operation.

• Assisted with construction by developing PLC/HMI programming according to control strategy, managing other programmer's progress to ensure quality work was completed on schedule, and providing technical advice to help resolve problems with the control strategy. In addition, he attended construction meetings and reviewed submittals for compliance with contract document.

• Reviewed/developed commissioning testing procedures and ensured a seamless transition between the new and existing SCADA system. John also conducted loop checks (ORT – Operational Readiness Test), Functional Acceptance Tests, and operator training.

• Responded to operation requests by adding an MSP restart button on HMI, adding/deleting equipment interlocks, evaluating alarms, and revising programming based on process changes.





Coursework

- Sierra College
- Sacramento City College

Training

- Wonderware Intouch SCADA Part 1
- Wonderware System Platform 2020
- Rockwell Studio 5000
- Rockwell PlantPAx
- Ignition Core Components
- Schneider CitectSCADAGE iFIX, Fundamentals and Advanced

Certifications

Wonderware Intouch Certified Developer

Wonderware Historian Certified Developer

Trihedral VT SCADA Certified Programmer

Ignition Core Certified Developer

Elise N. Moore

Elise Moore is a dedicated and results-driven Project Manager with a diverse background in construction management and supervisory control and data acquisition (SCADA) programming. Over her 18-year career with Carollo, she has demonstrated exceptional skills in overseeing projects, managing resources, and ensuring successful project delivery. Her unique blend of field and technical experience makes her a valuable asset in leading and delivering complex initiatives.

Relevant Experience

→ Lead programmer for the County Sanitation Districts of Los Angeles County, California, Valencia Advanced Water Treatment Facility (AWTF). The \$90 million, 6.5-mgd Valencia AWTF utilizes an innovative, allmembrane based process that targets chloride removal from tertiary effluent prior to discharge to the Santa Clara River. Key components of the project included development of drawings and process control strategies for the nanofiltration and microfiltration systems; process control system network design and integration with the existing plant network; factory acceptance testing and integration of two vendor systems; and PLC programming for two fully redundant ControlLogix PLCs and HMI graphics using the Districts' existing programming standards. Project software included FactoryTalk View SE/ME, Plant PAx, and RS Logix Studio Designer.

→ HMI Programmer for the City of Reedley, California, SCADA Master Plan and Wastewater Treatment Plant Expansion Programming. Carollo evaluated these facilities and prepared a SCADA Master Plan that provided the necessary information to design a functional and consolidated control system for the City's various utilities departments. The goal was to develop a control system master plan that would reduce current operating costs by replacing obsolete equipment, improving operational efficiency through utilization of innovative technologies, improving current operations staff efficiency, reducing total chemical use, and reducing total electrical power consumption. The wastewater treatment plant was expanded to include a new SCADA system, which serves as the central consolidation point as well as a foundation for the new city-wide SCADA system project. Carollo programmed the new wastewater treatment plant SCADA system, which uses a Wonderware InTouch HMI and Modicon Quantum PLCs.

→ HMI programmer for the Contra Costa Water District, California, Bollman Water Treatment Plant DCS Replacement Design-Build. The project replaced the plant's obsolete, proprietary Bailey Infi-90 DCS with a modern, open standards-based distributed PC/PLC system.

 \rightarrow HMI programmer for the City of Oak Harbor, Washington, SCADA Integration and Programming. Elements of the project included development of PLC and SCADA standards in coordination with the client. Responsible for developing SCADA/HMI graphics, operator training, Historian configuration, operations and maintenance manual, and startup and testing activities. Project Manager for the South Placer Municipal Utility District, California, SCADA System Improvements Design. The project involved the design of replacing the existing radio hardware and proprietary Data Flow Systems RTUs and SCADA system with a new industry standard open platform SCADA system comprising of Ignition SCADA, GE Orbit MDS radios, and Flygt MultiSmart pump controllers. In addition to managing the project, Elise also served as the SCADA specialist to make recommendations and facilitate hardware and software selections made during the design.

→ Assistant project manager and project engineer for the North of River Sanitary District, California, SCADA Master Plan. The project involved developing a standard approach to optimize the SCADA system and take advantage of new technologies while identifying ways to minimize the overall cost of ownership, maintenance, and security risks to the project. Project goals included establishing the current condition of the SCADA system's components, identifying



Elise N. Moore

operational requirements and information/control needs, defining communication standards, recommending SCADA system upgrades, and identifying system-wide hardware, software, and communication networks for future expansion of the treatment facility and conveyance systems.

 \rightarrow Assistant project manager and project engineer for the El Dorado Irrigation District, California, Wastewater Collection System Radio Path Design. The project involved integration of 69 wastewater remote sites using licensed radio communication links back to the central wastewater SCADA/HMI system. Project manager for the Sonoma Water, California SCADA Support Services project. The project included development of P&IDs and specific control descriptions for all water and wastewater facilities operated by Sonoma Water. Elise managed all aspects of the preliminary and final design packages and facilitated review workshops with Sonoma Water.

→ Project manager the City of Turlock, California, SCADA Replacement Projects. This involved a series of projects scheduled to take place over the course of several years to replace the city-wide HSQ system with Trihedral VTScada and Allen-Bradley Control and Compact-Logix PLCs while also improving the City's telemetry network with new Ethernet-based radios and adding the use of cellular for redundancy. Responsible for overseeing the concurrent project schedules, coordinating with vendors and subconsultants, and facilitating the cutover from HSQ to the new non-proprietary SCADA system. In addition, served as the lead programmer on the projects and oversaw the HMI and PLC programming.

→ Programming quality manager for the Zone 7 Water Agency, California, Stoneridge PFAS Treatment Facility. This project involved programming of the PLC to support the PFAS treatment system and pump station.

→ Lead programmer for the City of Palm Springs, California, Palm Springs/Veolia Wastewater Treatment Plant Upgrade. Carollo provided design and engineering services during construction for a design-build

project managed by Veolia Water for the City of Palm Springs. The project involved construction of several new replacement facilities at the wastewater treatment plant, including influent sewer, headworks, septage receiving station, influent pump station, primary clarifiers, scum pump station, primary sludge pump station, primary sludge degritting, gravity thickener cover, foul air treatment facility, and new electrical building. Responsible for converting the plant SCADA application from RSView32 to FactoryTalk View SE and adding new HMI screens for the headworks upgrades. Also provided operator training, startup and testing, and operations and maintenance manual/standards development.

→ Lead HMI programmer for the City of Aurora, Colorado, Wemlinger Water Purification Facility (WPF) PLC Upgrades. The project included design, procurement, and construction services to replace and consolidate the WPF's existing PLCs with new Allen Bradley ControlLogix PLCs. Responsible for managing the tag database and creating and implementing new SCADA graphics for the City using a hybrid approach to the high-performance HMI standard

→ Project manager and lead programmer for the City of Modesto, California, Ripon Power Generation Plant iFix Upgrade. The project involved replacing three redundant server/client nodes with a single redundant pair, upgrading from Fix32 to iFix 5.8, replacing a legacy Woodward input/output server with GE's IGS server, and migrating historical data. The upgrade was done in tandem with the City's existing SCADA system with zero interruption to the plant's operation. Carollo has maintained an ongoing support services contract since completing the upgrades in 2017.

→ SCADA software systems expert for the City of Manteca, California, SCADA Master Plan. Identified and planned improvements for the SCADA system at the Water Quality Control Facility, including hardware/software systems and application programming.





AS Computer Drafting and Design, ITT Technical Institute, Colorado, 2008

Study of Fire Science, Fort Morgan Community College

Bryan P. Roepken

Bryan Roepken is a Senior BIM Designer as well as Carollo's EPIC[®] CAD Service Manager with 16 years of drafting experience working for data infrastructure and engineering firms in the development of drawings, schematics, and typical details. He is proficient in the use of AutoCAD, AutoCAD P&ID, Revit, Microstation, Bentley AECO-sim Building Designer, AGi32 Lighting Analysis, Excel, and Access. He has assisted in the creation of company design standards and is well versed in adapting to client standards to ensure consistent completion of design work. He also manages the EPIC[®] CAD staff for the company, which includes more than 25 employees. Bryan oversees their daily activities helping to troubleshoot activates on several software programs. He is responsible for updates to the electrical and instrumentation CAD standards used within the company, as well as scheduling all of the El&C CAD projects to the CAD staff and meeting deliverables in a timely manner.

Relevant Experience

→ CAD for the South Orange County Wastewater Authority, California, JB Latham Facility Plan Improvements – Phase 2 Biosolids Upgrades. Project included upgrading existing DAF thickeners and improvements to the existing digesters and energy recovery building. Electrical upgrades included improvements to the existing motor control centers, adding new motor control centers, and new distribution systems to accommodate process upgrade needs.

→ CAD for the Goleta Water District, California, PDB SCADA Upgrade. Carollo is currently leading the design of this progressive design build project. The District's current SCADA system monitors and controls the operation of three different systems. The objective is to unify operations across the District's multiple current and planned facilities with a single, operator-friendly system. The SCADA system includes all new servers, software, networks, fiber optic ring, telemetry, and cybersecurity. Each site will receive new control panels, new control programming, and adequate backup power. Additional upgrades include programming standard, high performance graphics, process improvements, new control room, rounds management, and automated reporting.

→ CAD for the Aquifer Storage and Recovery (ASR) Well and Pump Station project for the City of Roseville, California. Carollo is providing design and CM of six new ASR wells injecting treated water from Folsom Lake. Key components at each site include

construction of new service entrance switchboards, motor control centers, variable frequency drives, instrumentation and controls, and PLC cabinet. The sites also included portable generator connections with manual transfer switches.

→ CAD Lead performing discipline oversight for the City of Oceanside's Major Plant Automation Upgrades project, Oceanside, California.

→ CAD Lead responsible for discipline oversight and applying specific standards to workflow for the Valencia Advanced Wastewater Treatment Facility in California. This project also consisted of designing LISP routines to convert Carollo standards into client standards.

→ CAD Lead for the City of San Mateo's PCS Upgrade project, California. Responsible for delivering design and instrumentation drawings. This project consisted of working directly with the client to produce the project drawings.

→ Assisted with the I&C design of the Salt River Fields Water Production Facility, Phoenix, Arizona. Tasks included developing P&IDs along with other I&C drawings. Also assisted in the developing of specifications for the project.

→ Developed and constructed P&IDs to client standards using AutoCAD P&ID for the Orange County Sanitation District in California.

→ CAD for the Cogeneration Equipment Replacement project (PAR 1395) for the Metro Water Recovery, Colorado. Carollo



Bryan P. Roepken

was selected to be the design engineer for this project. The project replaces aged cogeneration infrastructure with biogas processing equipment to remove hydrogen sulfide, separate methane from other constituents, and compress the biogas into Xcel Energy's natural gas pipeline. The scope involves technology evaluations for both hydrogen sulfide removal and biogas upgrading equipment, construction sequencing to minimize impacts to the operating cogeneration facility, as well as significant hot water system modifications, El&C upgrades, and integration work.

→ CAD for the Dry Creek Wastewater Treatment Plant Motor Control Center and Switchgear Replacements for the City of Roseville, California. This design-build project includes replacement of five motor control centers and one switchboard at the City's Dry Creek WWTP. Carollo is a subconsultant to the lead design-builder, Auburn Constructors, and will provide design and engineering services during construction.

→ CAD for the Sonoma Water, California SCADA Support Services project. The project included development of P&IDs and specific control descriptions for all water and wastewater facilities operated by Sonoma Water.

→ CAD for the East Canyon Water Reclamation Facility Expansion Design Phase 1 for Snyderville Basin Water Reclamation District, Utah. Carollo provided planning and design for the expansion of the East Canyon Water Reclamation Facility. The project included a new bioreactor for biological nitrogen removal and chemical phosphorus removal facilities, including flash mix, two-stage flocculation and cloth disk filters, followed by UV disinfection. This upgrade will continue to help the Facility meet an effluent TP concentration of less than 0.10 mg/L but at higher flow capacities.

→ CAD for the Marsh Landing Electrical WRF Upgrade Design for St. Johns County, Florida. This project includes a new air conditioned MCC building, new electrical equipment, and new conduits and conductors. The existing primary transformer is expected to remain in service.

→ CAD for the Wemlinger Water Purification Facility Electrical and Communications Improvements for the City of Aurora, Colorado. Carollo was selected for this designbid-build project, which included \$21.3 million of improvements to the existing 80mgd Wemlinger WPF. A significant element of the project involved modifying structures to accommodate a new generator. This project included replacement of existing 12.47 kV service entrance gear with new 12.47 kV service entrance automatic transfer switchgear with standby diesel generators to provide back-up power to the entire facility. The Carollo team developed layouts and seguences to help transfer loads between the existing service entrance switchgear and the new service entrance switchgear, avoiding extended service interruptions and reliance on temporary diesel generators for extended periods of time.

→ CAD for the Water Treatment Plan Electrical, Switchgear, and Pump Motor Upgrade project for Bay County Utility Servies, Florida. The purpose of this project is to upgrade the existing electrical system, upgrade several existing transfer and high service pump motor sizes taking advantage of the fact that some of the existing gear is not being utilized to its full rating at present. Current overload conditions will be addressed by upgrading the incoming service from the power utility and redistributing selected loads across existing gear. Additionally, with the existing Transfer Pump upgrades, the existing transfer pump electrical building is expected to be expanded.

→ Prepared P&ID and electrical drawings using MicroStation and AGi32 for the City of Fresno Southeast Surface Water Treatment Facility, California. This project consisted of delivering lighting design for the entire facility and obtaining cost estimates from vendors as well as designing the lighting based on specific manufacturer data.

CAD for the 2023 Motor Control Center Replacements for South Platte Renew, Colorado. This project involves replacing four MCCs (two in the DAFT and 2 in the digester). Carollo is also conducting an electrical system study for the areas associated with the project.



EVALUATION COMMITTEE SCORE

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Overall Qualifications and Experience of Firm: (20 Points)		Notes:	
Record of like projects: (10 points)		Notes:	
Realistic level of effort: (20 points)		Notes:	
Ability to Deliver Timely: (10 points)		Notes:	
Responsibility & Responsiveness:	Yes	Notes:	
Cost Competitive: (20 Points)		Notes:	
Total: (80 possible)		Notes:	

Other Notes:

Committee Member:	Member Agency Staff:

SOCWA RTP MCC and Generator Upgrades Proposal - Fee Estimate

											1			
	VP	Α	SA	SA	Α	Α	A	Α	AEII	D				
	Principal in	Project	Technical					Cost						
Fee Estimate	Charge	Manager	Advisor	QA/QC	Electrical	I/C	Structural	Estimating	E&IC Support	CAD	Total	Labor	Expenses	Total
	Miller	Mlakar	Thunhorst	Yao	Gustafson	Mlakar	DuPuis	Portner			Hours		••••••	
	\$330	\$290	\$305	\$305	\$290	\$290	\$290	\$290	\$180	\$155	_			
									· · · · · ·		İ			
TASK 1 - Project Management and Progress Meetings											•	•		
1.1 Project Management		90									90	\$26,100		\$26,100
1.2 Kickoff Meetings (In-person)	3	6			6		6				21	\$6,210	\$500	\$6,710
1.3 Meetings (Assume 17 virtual progress meetings)		34			34						68	\$19,720		\$19,720
SUBTOTAL	TASK 1 3	130	0	0	40	0	6	0	0	0	179	\$52,030	\$500	\$52,530
TASK 2 - Data Collection and Document Review														
2.1 Record Drawing Review		12			20		12		40		84	\$19,960		\$19,960
2.2 Site Investigations (Assume 3 trips)		24		-	24				24		72	\$18,240	\$2,000	\$20,240
SUBTOTAL	TASK 2 0	36	0	0	44	0	12	0	64	0	156	\$38,200	\$2,000	\$40,200
TASK 3 - Preliminary Design														
3.1 Preliminary Design Report	2	12	2	2	40		12				70	\$20,440		\$20,440
3.2 Preliminary Design Workshops and Preparation (Qty: 3)		24			24		12				60	\$17,400		\$17,400
SUBTOTAL	TASK 3 2	36	2	2	64	0	24	0	0	0	130	\$37,840	\$0	\$37,840
TASK 4 - 30% Design		•	•		•		•		• •				· · · ·	
4.1 30% Design Drawings & List of Specifications		4		6	84	15		8	115	16	248	\$57,200		\$57,200
4.2 Preliminary MOPO Plan		4	8	2	12						26	\$7,690		\$7,690
SUBTOTAL	TASK 4 0	8	8	8	96	15	0	8	115	16	274	\$64,890	\$0	\$64,890
TASK 5 - 75% Design	-			-								<i>+-</i> .,		,
5.1 75% Design Drawings		20		20	602	15		6	699	120	1482	\$336,990		\$336.990
5.2 75% Technical Specifications		8		4	20	35			55		122	\$29,390		\$29,390
5.3 Construction Sequencing Plan		8	4	2	20		8				42	\$12,270		\$12,270
5.4 75% Design Review Workshop (In-Person)		8			8						16	\$4,640	\$500	\$5,140
SUBTOTAL	TASK 5 0	44	4	26	650	50	8	6	754	120	1662	\$383,290	\$500	\$383,790
TASK 6 - 100% Design				20				•	104	120	1002	<i>Q</i> OOOOOOOOOOOOO	****	,
6.1 100% Design Drawings				12	238	7	1	6	320	20	603	\$137.150		\$137,150
6.2 100% Technical Specifications				2	7	15		0	22	20	46	\$10,950		\$10,950
SUBTOTAL	TASK 6 0	0	0	14	245	22	0	6	342	20	649	\$148,100	\$0	\$148,100
TASK 7 - Bid Set		U U	U U	17	240		Ŭ	v	3 72	20	045	\$140,100	ΨŪ	ψ140,100
7.1 Bid Ready Drawings					60	6		6	80	12	164	\$37,140	I	\$37,140
7.2 Bid Ready Specifications		1			12	12		0	12	12	36	\$9,120		\$9,120
SUBTOTAL	TASK 7 0	0	0	0	72	12	0	6	92	12	200	\$46,260	\$0	\$46,260
TASK 8 - Front End Specifications		U	0	U	12	10		0	32	14	200	φ 4 0,200	\$U	φ40,200
8.1 Front End Specifications	2	20	1		1		1		<u> </u>		22	\$6,460	I	\$6,460
8.2 Spec Coordination Meeting (Virtual)	2	20			3						6	\$0,400		\$0,400
SUBTOTAL	TASK 8 2	23	0	0	3	0	0	0	0	0	28	\$8,200	\$0	\$1,740 \$8,200
	TAGN 0 Z	23	U	U	3	U	U	U	U	U	28	ა შ,∠00	\$0	⊅ 8,∠00
TASK 9 - Construction Sequencing and Implementation Plan		0	4		20		0		1 1		40	¢44.000		¢11.000
9.1 Construction Sequencing and Implementation Plan	TAOKO	8	4		20		8	•			40	\$11,660		\$11,660
SUBTOTAL		8	4	0	20	0	8	0	0	0	40	\$11,660	\$0	\$11,660
GRAND TOTAL TA	SKS 1-9 7	285	18	50	1234	105	58	26	1367	168	3318	\$790,470	\$3,000	\$793,470



May 30, 2024

South Orange County Wastewater Authority Attention: Jeanette Cotinola, Procurement/Contract Manager Administration Building 34156 Del Obispo Street Dana Point, CA 92629

Re: Regional Treatment Plant MCCs and Generator Upgrades

Dear Ms. Cotinola:

Hazen and Sawyer (Hazen) welcomes the opportunity to help SOCWA by providing engineering services to upgrade existing electrical equipment at the Regional Treatment Plant. It is noted that several MCC's within the Energy Building are from the original plant construction, 1982, have exceeded their rated useful life, and are no longer supported by the manufacturer, per the Condition Assessment prepared by Lee and Ro. Hazen understands the primary purpose of the Regional Treatment Plant MCC and Generator Upgrade Project is to:

- Improve reliability of the plant electrical distribution system
- Provide standby power capability
- Address inadequate equipment short circuit ratings
- Maintain plant operations during construction

Our proposal has been organized to provide the requested information and demonstrate the benefits our team offers to SOCWA in executing the requested actions.

A Proven Team with a Local, Committed, and Accessible Project Manager Who Produces Results. Our Team, led by Alan Mlakar, consists of the same core members who recently delivered on similar electrical improvement projects for Eastern Municipal Water District, Las Gallinas Valley Sanitation District, and past projects for SOCWA.

Integration of Operations & Maintenance. Hazen recognizes that the ultimate success of any engineered solution rests with the individuals who are responsible for the day-to-day operations and maintenance. That's why we inherently consider O&M concerns from the outset of a project. Our approach recognizes the need to work closely with engineering staff, while listening to and delivering on the needs of O&M staff.

A Team Familiar with the Regional Treatment Plant (RTP). Our Team is familiar with the MCC's located within the Energy Building through our experience with the RTP electrical system documentation project.

The local Hazen Team offers proven electrical engineering and design expertise, exceptional service, and attention to safety and operation that makes Hazen an outstanding choice for this assignment. We confirm that Hazen acknowledges the provided addenda in this RFP, can meet the required insurance levels, agree to the previously negotiated contract language, and that Cindy Miller has authority to negotiate and contractually bind Hazen. If you have any questions about this proposal, please do not hesitate to contact Alan Mlakar at <u>amlakar@hazenandsawyer.com</u> or 760-805-7989.

Sincerely,

Alan Mlakar, PE Project Manager

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Cindy Miller, PE Vice President

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Section No. 1

Project Approach and Work Plan

Project Understanding

The Regional Treatment Plant (RTP) is a conventional activated sludge treatment plant with a secondary treatment design for 12 MGD that was constructed in 1982. Four (4) of five (5) low voltage motor control centers (MCC's) installed within the Energy Building were part of the original plant construction. Hazen understands that MCC-A, C, G, and H have exceeded their rated useful lives and will be replaced as part of the project to improve overall electrical system reliability and personnel safety. A portable generator connection will be installed at MCC-30310 to provide standby power to the existing blower system. Hazen will also evaluate the feasibility of installing a portable generator connection at each of the new MCC's to further improve plant reliability. Hazen has assembled a strong technical team to work with SOCWA's engineering and operations staff to provide an efficient, fully operational facility that will minimize safety risks and plant distruptions during construction.

Key Objectives

- Replacing Aging Equipment to Improve Reliability
- Integrating with Existing Controls
- Maintaining Plant Operations During Constructions
- Provide Standby Power Capability
- Address Inadequate Equipment Short Circuit Ratings

Project Approach

Replacing Aging and Obsolete Equipment

The primary goal of this project is to replace aging electrical infrastructure, maintain process controls, and improve plant reliability and personnel safety. Our experience has shown that electrical failures often result in significant disruptions to the treatment process. Hazen will work with SOCWA to specify major electrical equipment from reputable manufacturers with well-established support networks. Where possible, Hazen will design electrical equipment with space and capacity for potential future expansion.

As part of the project, Hazen will evaluate the feasibility to install a portable generator connection at each new MCC to provide SOCWA the ability to provide as-needed standby power to the plant loads during power outage and scheduled maintenance. Hazen will consider any space constraints as identified in the preliminary design phase and provide possible implementation solutions.

A majority of the existing MCC feeders were installed during the original plant construction. When the MCC's are being replaced, it is prudent to also replace the aging feeder conductors to maximize electrical system reliability. When performing feeder replacement on this project, Hazen will evaluate the replacement conductors based on new equipment size and existing load requirements. Our experience is that when new conductors are installed using existing conduits, it may be possible that the existing conduits become overfilled due to new conductors being larger in diameter or the existing conductors or conduits were undersized in the original design. Hazen will evaluate conductor and conduit sizing to conform with NEC requirements.

Although Hazen does not anticipate any dimensional differences between the new MCC's and the replacement MCC's, we will evaluate any working space deficiencies of existing equipment being replaced and provide appropriate remediation recommendations. Hazen will also evaluate the alternative to install the new MCC at a different location if it provides constructability benefits.



Integration with Existing Controls

One of the existing MCC's (MCC-A) has a PLC cabinet installed as part of the equipment lineup. The intent is to replace the PLC cabinet and its internal components together with the MCC. A new PLC system will be provided to seamlessly integrate with the new MCC and to maintain existing process control functionality.

Integrating new motor control into an existing control system can be a challenge when replacing existing MCC's. To ensure the new MCC's will seamlessly integrate with existing hardwired and software control logic and permissives, Hazen will thoroughly examine available record drawings and O&M documents and work closely with SOCWA staff to leverage institutional knowledge to fully understand the existing process control system.

Each of the existing MCC's to be replaced is fitted with a relay-based load shed system, although the system is currently non-functional per SOCWA staff's feedback. Hazen will review the system's current configuration, discuss the desired function and operation sequences with SOCWA staff, and reinstate the system in the new MCC's, as required.

Maintaining Plant Operation During Construction

Maintenance of Plant Operation (MOPO) will need to be carefully and thoroughly planned, since many of the existing MCC's being replaced are providing power to critical process areas of the plant. It is essential to minimize plant outages during the replacement of the MCC's. Hazen will work closely with SOCWA staff to understand the acceptable plant outage durations at each impacted process area and evaluate the requirement for temporary power during construction to maximize plant operation uptime.

Provide Standby Power Capability

The existing treatment plant currently has limited standby power capability, with only the five (5) Interstage Pumps and associated miscellaneous loads currently being backed up by a 250kW standby generator. Hazen will perform a combination of tasks to provide meaningful upgrades to the existing facility and recommend future standby system improvement options.

During the preliminary design of this project, Hazen will provide assessment of the standby load requirements, evaluate multiple standby generation options (centralized vs. localized; permanent vs. portable), and provide suitable recommendations for SOCWA to consider and implement in future projects. As part of this project, Hazen will provide a suitably sized portable generator connection to provide as-needed standby power to the existing blower system and at each replacement MCC provided there are no technical or physical space limitations.

Work Plan

Task 1 – Project Management and Progress Meetings

Hazen will coordinate project design work, attend meetings and design review workshops, prepare agenda, action item list, and decision log for each meeting, manage quality assurance and quality control (QA/QC), prepare deliverables, and provide monthly invoices as necessary to effectively manage this project. The project kickoff meeting will be conducted in person at the RTP, and progress meetings will be limited to fourteen (14) virtual meetings for the duration of the project.

Task 2 - Data Collection and Document Review

Hazen will work with SOCWA staff to collect the most current relevant project information available for the existing equipment. Hazen had previously helped prepare a set of single line diagrams with an overview of the plant wide power distribution system at the RTP. We believe that proper preparation before making a site visit can reduce time in the field and make best use of plant staff's time.

After organizing and reviewing the available information, our team will perform a site visit to verify existing conditions and major equipment nameplate ratings to compare the installed equipment with the record drawings. Relevant project information to be provided by SOCWA will include, but is not limited to:



- Record drawings
- Control schematic diagrams for MCC's to be replaced
- Operations & Maintenance (O&M) Manual
- I/O list for MCC signals connecting to RTU/PLC
- Previous studies (including the Arc Flash Risk Assessment Study prepared by RJS Engineering)
- Previous preliminary design prepared by Lee & Ro

Task 3 – Preliminary Design

Hazen will prepare a Preliminary Design Report (PDR) to capture the project design approach and the following three (3) critical components of the project:

- 1. Evaluate MCC replacement-in-kind vs. new location and address constructability concerns.
- 2. Investigate plant standby power improvement options.
- 3. MCC sizing requirements to accommodate existing and future loads.

Hazen will conduct three (3) separate workshops to address each of these components, and the resulting design decisions will be captured in the final PDR. Viability of existing structural equipment pads will be evaluated during preliminary design.

Task 4 – 30% Design

Based on the discussions and decisions made after the completion of the preliminary design, Hazen will prepare the 30% design package to include plans, list of applicable specifications, preliminary MOPO plan, and a Class 4 cost estimate. It is assumed existing structural equipment pads will be re-used. No effort for structural is included in detailed design. It is assumed a portable generator connection installed at each new MCC and at MCC-30310 will be the basis of the standby power design.

Task 5 – 75% Design

Hazen will prepare the 75% design package incorporating SOCWA comments from the 30% design. This submittal package will include plans, specifications, construction sequencing plan, and a Class 3 cost estimate. Hazen will conduct a design review workshop to present the 75% design and constructability plan.

Task 6 – 100% Design

Hazen will prepare the 100% submittal package incorporating SOCWA comments from the 75% design and the design review workshop. This submittal package will include final plans, specifications, and a Class 2 cost estimate.

Task 7 – Bid Set

Hazen will incorporate SOCWA comments from the 100% design and prepare the bid set that will include final plans and specifications. The Class 2 cost estimate will also be revised to match the final design set.

Task 8 - Front End Specifications

Hazen will prepare applicable Division 1 specifications to supplement other standard specifications provided by SOCWA. Hazen will conduct a meeting with SOCWA to discuss coordination of specifications sections.

Task 9 - Construction Sequencing and Implementation Plan

Hazen will coordinate with SOCWA to prepare a detailed construction sequencing and implementation plan to demonstrate the methods during construction to maintain the plant in operation. The plan will address any temporary and standby power requirements during construction, and clearly define the construction sequencing requirements and equipment downtime constraints.



Section No. 2

Relevant Firm Experience

J.B. Latham Treatment Plant MCC-M Replacement

South Orange County Wastewater Authority (SOCWA)

Hazen conducted a site-wide electrical system evaluation which involved Preliminary Design of MCC-M and MCC-G as well as Standby Generator No. 1 Replacement. The project also included detailed design of replacement of MCC-M which feeds the non-potable water pump station and MCC-G, which feeds the Scum Pump station. Both motor control centers had exceeded their rated useful life and were located in corrosive atmospheres. A new motor control center, located in a climate-controlled electrical room, was provided to provide power to the existing facilities. This project also involved replacement of Standby Generator No. 1 and a portable generator connection enclosure connected at the top-end of the Plant 1 electrical distribution.



Reference Contact
(949)234-5410
rgrant@socwa.com

Date Initiated	Date Completed	Common Team Members	Reference Name
December 2019	Ongoing (Bid Set	Alan Mlakar	Roni Young Grant,
	Submitted)	Chris Thunhorst	PMP
		Jack Yao	Associate Engineer
		Sean Dupuis	

Moreno Valley RWRF - SH MCC Replacement

Eastern Municipal Water District (EMWD)

Several motor control centers in Plant 1 at EMWD's MVRWRF had reached the end of their useful life and required replacement in order to ensure reliability of the plant. Hazen designed the replacement of two motor control centers as well as one new 480V distribution panel.

Date Initiated
March 2019Date Completed
June 2022Common Team Members
Alan MlakarReference Name
Abdiel Picazo Jr.
Sr. Civil Engineer

Reference Contact (951)928-3777 ext.4567 picazoa@emwd.org

Digester Room MCC-2 Replacement

Las Gallinas Valley Sanitation District (LGVSD)

The scope of the project included replacing the 480V MCC-2 and relocating from the existing classified digester control room to an unclassified shop building. Power monitoring equipment and remote-control capabilities were also added to the new MCC. The existing digester control room was retrofitted with combustible gas detection system. All electrical equipment and installations were replaced suitable for a Class I Division 2 environment.



Reference Name Irene Huang Associate Engineer



Reference Contact (415)526-1529 ihuang@lgvsd.org



Section No. 3

Project Team

To ensure the optimal outcome for this project, we have assembled a team of technical experts who have been selected especially for skills and experience that relate directly to the needs and requirements of this project.



PRINCIPAL-IN-CHARGE	Alan Mlakar, PE	Chris Thunhorst, PE
		QA/QC
		Jack Yao, PE
Cost Estimating	Lead Electrical	Lead I&C
Chris Portner, PE	Brian Gustafson, PE	Alan Mlakar, PE
	Support Electrical	Structural
	Ivy He, EIT	Sean Dupuis, PE
r, PE		

Cindy Miller, PE

Principal-In-Charge

Ms. Miller serves as Hazen and Sawyer's Irvine Office Manager. She is an experienced Principal in Charge with a long resume of leading the most challenging projects to successful completion. This includes extensive experience in the planning, design and construction of water supply, treatment, storage and conveyance facilities. She has experience with different project delivery methods including design-bid-build, design-build and design-build-operate-finance.

Alan Mlakar, PE

Project Manager and Lead I&C

Mr. Mlakar has over 14 year in the Water/Wastewater industry specializing in electrical and instrumentation design with roles as project manager, project engineer, and lead E&IC engineer. Alan served as the Project Engineer and Lead Electrical for the J.B. Latham Treatment Plant MCC-M Replacement Project. This includes motor control center and programmable logic control (PLC) replacements and upgrades. In addition, he has extensive knowledge of electrical distribution systems and instrumentation and control systems related to water, wastewater and power projects.

Brian Gustafson, PE

Lead Electrical

Mr. Gustafson serves as Hazen and Sawyer's Los Angeles Office Electrical Lead. He has 20 years of experience in the field of electrical engineering and more recently became focused on projects in the water industry. He has experience working on all project phases from performing initial studies all the way through construction support and commissioning. Throughout his work experience he has gained a wide range of expertise in both power distribution, controls, and communication. He possesses knowledge of industry standards including NEC and IEEE.

hazenandsawyer.com

30% Availability



10% Availability



Chris Thunhorst, PE

Technical Advisor

Mr. Thunhorst has over 18 years of experience in electrical engineering for building systems, water and wastewater treatment facilities, and pumping stations associated with water distribution and wastewater collection systems. Chris served as the Project Manager for the J.B. Latham Treatment Plant MCC-M Replacemet project, Regional Treatment Plant (RTP) Site Lighting Study, RTP Power Distribution Documentation Project and Lead Electrical for the Coastal Treatment Plant Miscellaneous Improvements Project for SOCWA. His experience includes design of medium and low voltage power distribution systems that include switchgear, motor control centers, panel boards, motor soft starters, VFDs, and UPS systems.

Jack Yao, PE

Quality Assurance/Quality Control

Jack is a Senior Associate in the Electrical Department located at the Irvine, CA office, currently serving as the Electrical and Instrumentation/Controls Discipline Group Leader for the West Region overseeing all E&I design projects. He has over 19 years of electrical (industrial power) engineering and disciplined leadership experience and has successfully lead dozens of design projects in Water & Wastewater industry and Oil & Gas industry. He is experienced in MV & LV power distribution system design and optimization, hazardous area classification, motor & generator applications, aboveground and underground installation design, grounding system, lighting design, power system automation, and etc.

Ivy He, EIT

Support Electrical

Ms. He serves as Hazen and Sawyer's Los Angeles Office, Assistant Engineer II. She has a combined total of 6 years' experience in electrical design for healthcare projects and the water/wastewater industry. She has worked in collaborative settings to provide drawing sets and design through all project phases and construction support for Electrical and Instrumentation. She has gained a wide range of experience in power distribution design, lighting design, and knowledge of industry and city standards including Title24 and NEC.

Sean Dupuis, PE

Structural

Mr. DuPuis is a civil engineer with over 14 years of expertise in structural assessments, analysis, design, and construction of facilities for municipal, federal, and private clients. Leads structural discipline and multi-discipline engineering and drafting project teams in development of construction documents including reports, calculations, drawings, and specifications. Performs technical structural and constructability reviews for water and wastewater design projects and provides services during construction including review of shop drawings and product data, answering requests for information, structural observation, and quality control management.

Chris Portner, PE, CEP

Cost Estimator

Mr. Portner is a certified cost estimator and currently responsible for all of Hazen's cost estimating in California. He has extensive experience in construction management and providing cost estimations for numerous water and wastewater design and planning projects including providing On Call Cost Estimating Services for SOCWA.

10% Availability

10% Availability

10% Availability

50% Availability

10% Availability

Hazen

Drawing List

	Motor Control Center Replacement		Motor Control Center Replacement (Continued)
		E-37	MCC-C Single Line Diagram and Elevation (Proposed) - 2
G-01	Cover Sheet	E-38	MCC-G Single Line Diagram (Demo)
G-02	Sheet Index and Notes	E-39	MCC-G Single Line Diagram and Elevation (Proposed)
		E-42	MCC-30310 Single Line Diagram (Proposed)
E-01	Electrical Legend and Symbols	E-43	MCC-A Control One Line Diagram
E-02	Electrical General Notes and Abbreviations	E-44	MCC-C Control One Line Diagram
E-03	Overall Electrical Site Plan	E-45	MCC-G Control One Line Diagram
E-04	Partial Electrical Site Plan - 1	E-46	MCC-H Control One Line Diagram
E-05	Partial Electrical Site Plan - 2	E-47	Control Schematic Diagram - 1
E-06	Duct Bank Schedule - 1	E-48	Control Schematic Diagram - 2
E-07	Duct Bank Schedule - 2	E-49	Control Schematic Diagram - 3
E-08	Energy Building Electrical Room Plan (Demo)	E-50	Control Schematic Diagram - 4
E-09	Energy Building Electrical Room Detail (Demo) - 1	E-61	Conduit and Wire Schedule - 3
E-10	Energy Building Electrical Room Detail (Demo) - 2	E-62	Conduit and Wire Schedule - 4
E-11	Energy Building Electrical Room Plan (Proposed)	E-63	Conduit and Wire Schedule - 5
E-12	Energy Building Electrical Room Detail (Proposed) - 1	E-64	Conduit and Wire Schedule - 6
E-13	Energy Building Electrical Room Detail (Proposed) - 2	E-65	Conduit and Wire Schedule - 7
E-14	Energy Building Power Plan - 1	E-66	Conduit and Wire Schedule - 8
E-15	Energy Building Power Plan - 2	E-67	Conduit and Wire Schedule - 9
E-16	Energy Building Power Plan - 3	E-68	Conduit and Wire Schedule - 10
E-17	Energy Building Power Plan - 4	E-69	Electrical Photos - 1
E-18	Energy Building Power Plan - 5	E-09	Electrical Photos - 1
E-19	Energy Building Power Plan - 6	E-70	Electrical Photos - 2
E-20	Energy Building Power Plan - 7	E-71 E-72	Electrical Photos - 3
E-21	Energy Building Power Plan - 8		Electrical Photos - 4
E-22	Aeration Basin Power Plan - 1	E-73 E-74	Electrical Photos - 5
E-23	Aeration Basin Power Plan - 2	E-74 E-75	Electrical Photos - 6
E-24 E-25	Headworks Power Plan Primary Gallery Power Plan - 1		
E-25 E-26	, ,	E-76	Electrical Installation Details - 1 Electrical Installation Details - 2
E-20 E-27	Primary Gallery Power Plan - 2 Aeration Blower Building Electrical Plan	E-77	
E-27 E-28	SSG-1 Single Line Diagram (Demo)	E-78	Electrical Installation Details - 3
E-20 E-29	SSG-1 Single Line Diagram (Derno) SSG-1 Single Line Diagram (Proposed)	I-1	Legend and Symbols
E-29 E-30	MCC-A Single Line Diagram (Demo) - 1	I-1	Network Architecture Drawing (Partial)
E-30	MCC-A Single Line Diagram and Elevation (Proposed) - 1	I-2	P&ID - Power Monitoring
E-31 E-32	MCC-A Single Line Diagram (Demo) – 2	1-3	
E-34	MCC-C Single Line Diagram (Demo) - 1	Total	Number of Sheets = 83
E-34	MCC-C Single Line Diagram and Elevation (Proposed) - 1	Total	Number of Sheets = 65
E-36	MCC-C Single Line Diagram (Demo) - 2		
L-30	MOO-O Olligie Lille Diagraffi (Dellio) - 2		

Assumptions

- 1. Structural detailed design is excluded. MCC's are assumed to be replacement-in-kind utilizing the existing concrete pad. If a new concrete pad is required or any MCC is to be relocated to a new location, Structural drawings will need to be added.
- 2. Existing conduits are assumed to be in good condition and will be reused to install the new conductors from the new MCC to existing loads. If conduit replacement is required due to poor condition, as determined by visual assessment, or due to conduit being undersized, the impact will be assessed case-by case.
- 3. Standby generation capacity study was last completed in 2023 and is excluded from this project. Implementation of portable generator hookups at the new MCC's will be evaluated and implemented if viable.
- 4. Record drawing CAD files for the process areas that the replacement MCC's are feeding are assumed to be unavailable. Hazen will develop these CAD files based on record drawings to the level required for this project.
- 5. Existing I/O's from the replacement MCC's to the corresponding PLC will be replicated and no other I/O's will be included.
- 6. SOCWA will provide I/O list for the associated PLC that the MCC's are connected to.



Table of Effort

	VP	А	SA	SA	А	Α	Α	А	AEII
TASK	Principal in Charge	Project Manager	Technical Advisor	QA/QC	Electrical	I/C	Structural	Cost Estimating	E&IC Support
	Miller	Mlakar	Thunhorst	Yao	Gustafson	Mlakar	DuPuis	Portner	Не
TASK 1 - Project Management and Progress Meetings									
1.1 Project Management		90							
1.2 Kickoff Meetings (In-person)	3	6			6		6		
1.3 Meetings (Assume 17 virtual progress meetings)		34			34				
SUBTOTAL TASK 1	3	130	0	0	40	0	6	0	0
TASK 2 - Data Collection and Document Review									
2.1 Record Drawing Review		12			20		12		40
2.2 Site Investigations (Assume 3 trips)		24			24				24
SUBTOTAL TASK 2	0	36	0	0	44	0	12	0	64
TASK 3 - Preliminary Design									
3.1 Preliminary Design Report	2	12	2	2	40		12		
3.2 Preliminary Design Workshops and Preparation (Qty: 3)		24			24		12		
SUBTOTAL TASK 3	2	36	2	2	64	0	24	0	0
TASK 4 - 30% Design									
4.1 30% Design Drawings & List of Specifications		4		6	84	15		8	115
4.2 Preliminary MOPO Plan		4	8	2	12				
SUBTOTAL TASK 4	0	8	8	8	96	15	0	8	115
TASK 5 - 75% Design									
5.1 75% Design Drawings		20		20	602	15		6	699
5.2 75% Technical Specifications		8		4	20	35			55
5.3 Construction Sequencing Plan		8	4	2	20		8		
5.4 75% Design Review Workshop (In-Person)		8			8				
SUBTOTAL TASK 5	0	44	4	26	650	50	8	6	754
TASK 6 - 100% Design									
6.1 100% Design Drawings				12	238	7		6	320
6.2 100% Technical Specifications				2	7	15			22
SUBTOTAL TASK 6	0	0	0	14	245	22	0	6	342
TASK 7 - Bid Set									
7.1 Bid Ready Drawings					60	6		6	80
7.2 Bid Ready Specifications					12	12			12
SUBTOTAL TASK 7	0	0	0	0	72	18	0	6	92
TASK 8 - Front End Specifications									
8.1 Front End Specification Preparation	2	20							
8.2 Spec Coordination Meeting (Virtual)		3			3				
SUBTOTAL TASK 8	2	23	0	0	3	0	0	0	0
TASK 9 - Construction Sequencing and Implementation Plan									
9.1 Construction Sequencing and Implementation Plan		8	4		20		8		
SUBTOTAL TASK 9	0	8	4	0	20	0	8	0	0
GRAND TOTAL TASKS 1-9	7	285	18	50	1234	105	58	26	1367

Hazen and Sawyer Labor Classifications VP – Vice President SA – Senior Associate A – Associate AE – Assistant Engineer CAD – CAD Designer

Note: Hazen reserves the right to escalate hourly rates shown at a value not to exceed 5% annually, starting July 2026.

May 30, 2024

	D	
		Total
ort	CAD	Hours
		90
		21
	0	68 1 79
	U	179
		84
		72
	0	156
		70
	0	60 130
	U	130
	16	248
		26
	16	274
	120	1482
		122
		42
	120	16 1662
	120	1002
	20	603
		46
	20	649
	12	164
	10	36
	12	200
		22
		6
	0	28
		40
	0	40
	168	3318



Project Schedule

							2024																		20)25											
	Augus	st	Sej	otemb	ber	0)ctobe	r	N	ovem	ber		Decem	ber	J	anuar	y	Fe	bruary	N	larch	Ap	oril	М	ay		Ju	ne	J	uly	Au	igust	Sep	otembe	r	Octob	er
Notice to Proceed																																					
Task 1 - Project Management and Progress Meetings	7	$\frac{1}{3}$																																			
Task 2 - Data Collection and Document Review																																					
Task 3 - Preliminary Design												র্ম																									
Task 4 - 30% Design																																					
Task 5 - 75% Design																																					
Task 6 - 100% Design																																					
Task 7 - Bid Set																																					
Task 8 - Front End Specifications																																					
Task 9 - Construction Sequencing and Implementation Plan																																					



PDR Submittal

Work towards deliverable Client Review

May 30, 2024





Appendix A: Resumes



B.S., Civil Engineering, University of California, Irvine

Certification/License

Professional Engineer

Areas of Expertise

- Pipeline Planning and Design
- Project Management
- Program Management
- Project Delivery
- Groundwater Supply
- Well Equipping Planning and
 Design
- Pump Station Planning and Design
- Reservoir Storage Planning and Design
- Drinking Water

Professional Activities

AWWA, ASCE, AMTA CA-NV AWWA CA Water Reuse Association

Miller, Cindy



Cindy Miller, PE Vice President

Ms. Miller is an experienced Principal in Charge with a long resume of leading the most challenging projects to successful completion. Her experience extends from planning, design, construction, and owner's agent services.

Her assignments have included providing Program Management services for a \$150 million groundwater supply project, which includes wells, pipelines, pump stations, and an advanced treatment system for R.O. concentrate reduction; Project Manager for preliminary and final design of a 28 MGD microfiltration treatment facility, and Project Manager for a 10 MGD R.O./Ion Exchange groundwater treatment plant. Ms. Miller has also led numerous water storage and conveyance infrastructure projects, including design of over 100 miles of pipeline Ductile Iron, CML&C steel, PVC, and HDPE pipeline), design of steel, pre-stressed concrete, and cast-inplace concrete storage reservoirs, up to 10 million gallons, and numerous pump station facilities. She has led feasibility/planning studies, developed treatment process evaluations and life-cycle cost evaluations, participated in value engineering studies and operations evaluations. She has developed detailed designs of many systems and provided construction and startup services. She has experience with different project delivery methods including: design-bid-build, design-build and design-build-operate-finance.

Chino I Desalter VOC Treatment, Chino Basin Desalter Authority, CA

Project Manager. The project includes preliminary and final design of two (2) GAC treatment facilities (1.7 mgd and 3.4 mgd) at the Chino I Desalter Plant for the removal of TCE and 1,2,3-TCP, and evaluation of treatment requirements for 1,4-dioxanr, cis-1,2-DCE, 1,2-CDA, PFOA, and PFOS. The goal of this project is to provide groundwater treatment for all CDA bypass wells (CDA Wells I-1 through I-4), and several treated wells (CDA I-16 through 18), plus 10 new wells that will be installed by the County of San Bernardino as part of a Cleanup and Abatement Order issued by the Santa Ana Regional Water Quality Control Board (SARWQCB).

Chino Feasibility Study and Eastside Expansion for 1,2,3-TCP, Nitrate, and Perchlorate

Principal in charge for the City of Chino to identify a permanent solution to fully utilize all City groundwater wells by addressing water quality issues. Treatment and non-treatment options were evaluated for the City's twelve wells.

Monte Vista Water District Plant 30 Treatment for 1,2,3-TCP, Nitrate, and Perchlorate, Montclair, CA

Principal In Charge for engineering services to Monte Vista Water District (MVWD) for the design and construction of a 5.8 MGD water treatment facility (expandable to 8.7 MGD) for the removal of 1,2,3-TCP, nitrate, and perchlorate from the District's groundwater supply. The project includes raw water pipelines to convey multiple wells to the site, GAC+IX treatment facilities, and a waste brine pipeline all within a small site footprint. Hazen's engineering services include preparation of Basis of Design Report (BODR), field investigations, detailed design, CEQA, permitting, bidding services, and engineering services during construction.

Chino I Desalter Expansion and Chino II Desalter Projects, Inland Empire, CA

Provided engineering services to the Chino Basin Desalter Authority (CDA) for the multimillion-dollar Chino I De-salter Expansion and Chino II Desalter projects. The assignment involved design of a new desalter facility; expansion and upgrade of an existing desalter facility; design of water distribution facilities, including pump stations, pipelines, and well equipping. The project included expansion of an existing 9 MGD reverse-osmosis treatment plant to a 14 MGD plant by adding ion exchange treatment for nitrate removal and VOC treatment for removal of TCE. Other plant improvements included the upgrading of the existing disinfection system to 0.8 -percent solution sodium hy-pochlorite generated on site, expansion of the on-site product water pump station, and other miscellaneous up-grades to improve plant performance. In conjunction with increasing the Chino I Desalter's capacity, three new wells were added to increase the system's raw water supply. Delivery facilities from the Chino I Desalter were add-ed to enhance movement of treated water to the end-users. Delivery facilities included two new booster pump stations with capacities of 2,600 gpm and 1,400 gpm and approximately 14,000 linear feet of product water pipe-line, 12 inches to 24 inches in diameter. The project also included design of a new 10 MGD Chino II Desalter. This treatment plant was designed to target TDS and nitrate removal and using reverse-osmosis and ion exchange in parallel. The project included eight new groundwater wells; approximately 30,000 linear feet of raw water pipeline, 16 inches to 36 inches in diameter; approximately 24,000 linear feet of product water pipeline, 12 inches to 42 inches in diame-ter; and a new booster pump station with 3,000 gpm capacity. The new and expanded desalters, which include the Chino I Desalter and the Chino II Desalter, provide potable water to and strengthen the water supply reliability of cities and agencies in the southwesterly region of the Inland Empire, including Jurupa Community Services District, City of Chino, City of Chino Hills, City of Ontario, Santa Ana River Water Company, and the City of Norco.

La Brea Subarea Groundwater Supply Project – Wells, Transmission Main, and Treatment Facilities, City of Beverly Hills, CA

Ms. Miller is the Principal In Charge for the City of Beverly Hills La Brea Subarea Groundwater Supply Project. This is a \$50 M project the City is implementing to expand their local water supply by developing groundwater in the La Brea Subarea of the Central Groundwater Basin. The project includes three (3) groundwater wells to be drilled and equipped, 4-miles of raw water transmission main through the City of Los Angeles and Beverly Hills, and upgrade of the City's existing reverse osmosis treatment plant. The first phase of the project which Hazen is leading is the drilling and equipping of the first groundwater well, and construction of the 4-mile transmission main.

Chino Basin Desalter Authority (CDA) Phase 3 Expansion, Chino, CA

Ms. Miller is providing Program Management services to the Chino Basin Desalter Authority (CDA) for their Phase 3 Expansion Project. Once completed, the Phase 3 Expansion will increase production capacity of the CDA's ground-water desalter Facilities to over 35,000 acre-ft per year of potable water capacity. The project includes construc-tion of new groundwater wells, pipelines, treatment facility to recover desalter concentrate (i.e. concentrate reduc-tion facility), product water pump station expansion and new product water pump stations. The construction cost of the Phase 3 expansion is estimated at \$150 million and construction is expected to be completed early 2018.



B.S., Electrical Engineering, California Polytechnic State University, California, CA

Certification/License

Professional Engineer

Areas of Expertise

- Project Management
- Electrical/Instrumentation and Control Systems
- Water and Waste Water Facility design
- Engineering services during construction

Professional Activities

IEEE

Alan Mlakar, PE

Mr. Mlakar has over 13 years of experience in electrical and instrumentation design projects in the Water/Wastewater industry. This includes project management, MCC replacement, and PLC replacement projects.

J.B. Latham Treatment Plant Electrical System Study, South Orange County Wastewater Authority, Dana Point, CA

Project Engineer and Lead Electrical. This project included developing consolidated up-to-date single line diagrams of the plants entire electrical distribution system based on field data, performing load calculations to determine potential size of new standby generators, and detailed condition assessment of 3 motor control centers. In addition, this project included replacement of a motor control center and natural gas-driven generator.

Moreno Valley RWRF Solids Handling MCC Replacement, EMWD, Riverside County, CA

Project Engineer and Lead Electrical Engineer for the replacement of two motor control centers that have exceeded their rated useful life. In ad-dition, the project included a condition assessment of the existing motor control centers which required a shutdown of the plant equipment during non-peak hours and also a detailed maintenance of plant operations plan to minimize plant distributions during construction.

Leo J Vander Lans AWTF (LVLAWTF) and Torrance Desalter Facility Power System Studies, Water Replenishment District of Southern California, Long Beach, CA

Mr. Mlakar served as the project manager and lead electrical. This proj-ect included performing short circuit calculations, arc flash hazard analysis, protective device coordination, and arc flash mitigation at two water treatment plant facilities. In addition, arc flash labels were installed at each facility and arc flash awareness trainings were conducted.

Gatewood Hills Pump Rehabilitation Project, City of San Diego, CA

Lead Electrical and I&C Engineer involved in the design of a pump rehabilitation project. The project involves the replacement of the existing pumps and motors with new pumps driven by variable frequency drives. The design includes a new motor control center, service entrance switchboard, manual transfer switch, and PLC cabinet.



Perris Valley Regional Water Resource Recovery Facility Solids Handling MCC Replacement East Municipal Water District, Riverside County, CA

Lead Electrical and I&C for the Biosolids Loadout Facility Improvements Design which includes the replacement of the existing biosolids hoper with a new stainless steel hopper designed to suit the existing support frame, installation of a weighbridge beneath the hopper, and replacement of electrical and controls components associated with the operation of the new hopper. Gatewood Hills Pump Rehabilitation Project, City of San Diego, CA Lead Electrical and I&C Engineer involved in the design of a pump rehabilitation project. The project involves the replacement of the existing pumps and motors with new pumps driven by variable frequency drives. The design includes a new motor control center, service entrance switchboard, manual transfer switch, and PLC cabinet.

Perris Valley and Temecula Valley Water Reclamation Sidestream Treatment Facilities, Eastern Municipal Water District, Perris, CA

Lead I&C Engineer. The project includes a new sidestream treatment facility to treat the dewatered centrate at two separate wastewater treatment plants. The project also includes the design of new Plant PLC's and integration of vendor PLC's with the District's existing SCADA system.

Adele Pump Station Arc Flash Study for the Los Angeles Depart-ment of Water and Power, Los Angeles, CA

Lead Electrical for the Adele Pump Station Arc Flash project. Performed load flow, short-circuit, protective device coordination, and arc flash analyses using ETAP electrical modeling software. Additionally, updat-ed record single line drawings based on field conditions.

Engineering Consulting Services for Biosolids Treatment and Disposal, Town of Windsor, CA

I&C Lead. The project includes assessment of current trends to achieve Class A Material without using anaerobic digestion and sludge drying beds. Drying technologies, including thermal drying and biodrying, are shortlisted and coupling of biodrying with pyrolysis process is evaluated. The project aims to provide materials to support upcoming design phase.

Biosolids and Energy Phase I: Preliminary Design, Goleta Sanitary District (GSD), Goleta, CA

I&C Lead. This project involved design of a new digester as well associated digester loads, and a combined power and heat (CHP) facility allowing GSD to generate power from digester gas. This project also involved a digester gas treatment system and gas booster blower replacement.

Enhanced Treatment Upgrade Project, Union City, CA

I&C Engineer for the preliminary Design of the Phase 1A AB Modifications and Project Management Team for the ETSU Program. The Union Sanitary District (District) has embarked on the \$450M Enhanced Treatment and Site Upgrade (ETSU) Program which will result in increased plant capacity, replace aging infrastructure, future nutrient removal and provide flexibility for wet weather discharge to the San Francisco Bay. The project included extensive hardening of the electrical infrastructure to accommodate the future loads and provide electrical redundancy. In addition to design, Hazen is providing permitting, CEQA development, and financing application support for the multi-phase program.



B.S., Electrical Engineering, UC Irvine, CA

Certification/License

Professional Electrical Engineer:

CA (License # E24728 EXP: 09/30/25)

Areas of Expertise

- Power Distribution (Medium & Low Voltage)
- SCADA / Power System Automation
- Power System Studies (Arc Flash, Protective Device Coordination)

Brian Gustafson, PE

Mr. Gustafson serves as Hazen and Sawyer's Los Angeles Office Electrical Lead. He has 20 years of experience in the field of electrical engineering and more recently became focused on projects in the water industry.

He has experience working on all project phases from performing initial studies all the way through construction support and commissioning. Throughout his work experience he has gained a wide range of expertise in both power distribution, controls, and communication. He possesses knowledge of industry standards including NEC and IEEE.

Arc Flash Mitigation Study, Eastern Municipal Water District, Temecula CA

Mr. Gustafson performed Arc Flash studies for half of the treatment facility using SKM due to a recent reconfiguration at the 12KV level. Work involved field data gathering, Power system model creation in SKM, arc flash report, recommended relay settings from TCC studies, and recommendations to reduce arc flash Incident Energy levels throughout the facility.

Arc Flash Study, Union Sanitation District, Union City CA

Mr. Gustafson performed Arc Flash studies for the entire USD treatment facility using SKM. Work involved field data gathering, Power system model creation in SKM which included over 100 buses in size, arc flash report and analysis.

Arc Flash Mitigation Project, Marathon, Texas, New Mexico, Utah (25+ Locations)

Mr. Gustafson Performed load flow, short circuit, arc flash & protective device coordination studies using ETAP power system analysis software. Responsible for gathering electrical equipment data, building models in ETAP, running the studies, writing reports, identifying system deficiencies, and proposing mitigation measures to the owner

Water Well Project, Marathon, Carson, CA

Mr. Gustafson performed engineering for the installation of 2 new water wells. Modified existing medium voltage MCCs to feed new Variable Speed Drives (VFDs), developed control schematics & specified material. Supported all electrical aspects of project from feasibly till construction.



Biosolids Treatment Project, Town of Windsor, Windsor, CA

Mr. Gustafson is currently leading the electrical system design for a new biosolids treatment unit at an existing water treatment facility. The electrical work involves tie-in to existing electrical infrastructure, power system analysis, utility coordination, electrical room design, VFDs, and emergency backup power. Start Date: 08/2022: Completion Date: In Progress

Cooling Tower Upgrade Project, Marathon, Wilmington, CA

Responsible engineer for project which provided new outdoor medium voltage motor controllers, MV induction motors, oil filled power transformers and low voltage switch-racks. Created single line diagrams, datasheets, material take off and requisitions.

Field Gas Compression, Aramco, Saudi Arabia

Performed role as communications lead for two simultaneous Aramco projects. Responsible to oversee work of 10 electrical/communication engineers. Performed leadership duties such as man hour estimates, progress reporting, performance reviews and weekly meetings with the client. Majority of work pertained to engineering of large-scale SCADA system which spans 9 different gas compression locations. The SCADA system design provided centralized monitoring, control, fault recording, sequence of event, alarm annunciation, HMI display and historical data logging capability for power systems. Developed overall SCADA network architecture based on IEC 61850 standards, and specified components such as automation computers, Network Switches, Firewalls, protocol converters, Modular I/O racks, GPS receivers, Intelligent Electronic Devices, Fiber Optic Cables, and Operator Workstations. Developed diagrams and specifications for the facility IP telephone/Data Network, CCTV, and paging/intercom systems.

The New Venture, Refining New Zealand, New Zealand

Created specifications, datasheets & requisitions for hazardous area junction boxes, remote control stations, UPS distribution panels and closed-circuit television. Performed outdoor lighting calculations for process unit using AGi32 software. Performed heating calculations for underground raceway cables using ETAP software. Responsible for creating and keeping up to date the single line diagrams, schematics, wiring diagrams and cable schedule. Performed the duties of Deputy Job Leader.

SAMREF Clean Fuels Project, Exxon Mobil, Saudi Arabia

Created specifications, architecture drawings, I/O lists, and wiring diagrams for new SCADA system. This system was used for power system monitoring and alarming of medium/low voltage switchgear, transformers, motor control centers, and various substation/facility equipment. Responsible for integrating existing brown field electrical equipment with new SCADA system. Modbus and DNP3 protocols used. Wrote test procedure for SCADA Factory acceptance test and oversaw testing and troubleshooting activities. Created configuration files to program communication settings for GE Multilin relays. Created specifications, diagrams, and requisition for closed circuit television system.



BS, Elictrical Engineering, North Carolina State University

AAS, Asheville-Buncombe Technical Community College

Certification/License

Professional Engineer: CA, AZ OH, KY, TN, IN, PA, UT

Areas of Expertise

- Medium and low voltage power distribution
- Standby power systems
- Control systems
- Process instrumentation
- SCADA systems

Experience

- 24 total years
- 17 years with Hazen

Professional Activities

Instrumentation, Systems, and Automation Society

International Association of Electrical Inspectors

Institute of Electrical and Electronics Engineers

Water Environment Association of Utah (WEAU)

American Water Works Association (AWWA)

Christopher Thunhorst, PE

Senior Associate

Chris serves as Hazen's Electrical and Instrumentation Group Leader for the West Region. Chris has over 18 years of experience in electrical engineering for building systems, water and wastewater treatment facilities, and pumping stations associated with water distribution and wastewater collection systems.

Coastal Treatment Plant Facility Improvements, South Orange County Wastewater Authority, Dana Point, CA

Lead Electrical Engineer. The Coastal Treatment Plant facility improvements project includes replacement of the ferric chloride chemical storage and feed system, replacement of the secondary clarifier equipment (sludge and scum collection), new Drainage Pump Station, repair of damage to concrete structures throughout the plant and installation of fall protection (safety) features. The project also includes major upgrades to the electrical system: installation of a new electric utility service, new main distribution switchgear, new distribution system feeders and replacement of existing motor control centers.

J.B. Latham Treatment Plant Miscellaneous Improvements, South Orange County Wastewater Authority, Dana Point, CA *Project Manager/Lead Electrical Engineer*. Improvements project that included preliminary design for the replacement of the Plant 1 Standby Generator, replacement of the Effluent Flow Meters, and replacement of the Plant Effluent Valves. The project also included detailed design of the rehabilitation of the Plant 1 Grit Basins.

J. B. Lathem Treatment Plant Electrical System Evaluation and Improvements Project, South Orange County Wastewater Authority, Dana Point, CA

Project Manager. Oversaw the electrical system evaluation which includes condition assessment and documentation of the existing electrical distribution system, development of a utility rate modeling tool, evaluation of combining multiple electric utility services into a single primary metered utility service, evaluation of a new 12kV electrical distribution system, and evaluation of a new standby power system. The project also includes detailed design of the replacement of motor control centers at the treatment plant.



Regional Treatment Plant Site Lighting Study, South Orange County Wastewater Authority, Dana Point, CA

Project Manager/Electrical Engineer. The Regional Treatment Site Lighting Study included a lighting survey, illumination survey with plant operations staff, and a technical memorandum to document findings, recommendations for improvements, and an opinion of probable cost broken down by area.

Regional Treatment Plant Power Distribution Documentation, South Orange County Wastewater Authority, Dana Point, CA

Project Manager/Electrical Engineer. Responsible for compiling single line diagrams for all major power distribution equipment, field verifying equipment loads identified on the single line diagrams and developing a plant wide power distribution system single line diagram.

Joint Regional Biosolids Study, Green River and Rock Springs, WY

Project Manager/Lead Electrical Engineer. The Cities of Rock Springs and Green River are interested in developing a regional solution for their biosolids. Rock Springs generates Class B aerobically digested and partially air-dried biosolids. The landfill is no longer accepting these bio- solids and the City does not have beneficial use alternatives or disposal. Green River is in the process of constructing a similar mechanical waste- water treatment plant that is expected to generate aerobically digested biosolids as well. Hazen is currently in the process of evaluating options utilizing Hazen's Multi-Parameter Analysis tool which simultaneously evaluates multiple solutions for the joint system.

Payson City WWTP Upgrade and Expansion, Payson UT

Project Manager/Lead Electrical Engineer. Oversaw the upgrade and expansion of the Payson WWTP to address increased flows and tightening discharge limits. Hazen teamed with Forsgren and Associates to design and oversee construction of the following improvements: new headworks facility including screening and grit removal, new influent pump station, new BNR oxidation ditch utilizing the Orbal process, ad- dition of two secondary clarifiers, conversion of tertiary sand filters to disk filters, new UV disinfection system, new reuse storage and pumping system, conversion of the digesters to aerated sludge holding, and a new dewatering building utilizing screw presses. Electrical improvements at the plant also include a new electric utility service, new site wide stand- by power generator, and a new electrical distribution system. The project is currently in the final stages of design. After improvements are com- pleted the plant capacity will be increased to 4-mgd with provisions to expand to 6-mgd.

Boat Harbor Pump Station, Timpanogos Special Service District, Utah County, UT

Lead Electrical/Instrumentation and Controls Engineer. Project includ- ed a new 57-mgd pump station with provisions to expand to 83-mgd in the future. The pump station design includes full screening, grit removal, and odor control. Electrical and control system design includes re- dundant 1,500 kW standby generators, low voltage distribution switch- gear, variable frequency drives with full bypass, SCADA system with redundant fiber optic, radio, and cellular communications.

West Napa Pump Station Project, Napa Sanitation District, Napa, CA

Electrical QA/QC. This project included a new submersible wet well, piping modifications, abandoning the existing North and South Wet Wells, demolition of the existing building, a new CMU electrical building, a new generator enclosure, a new odor control system, new canopy mounted solar panels, and electrical upgrades that included replacement of switchboards and MCC.



BS, Electrical Engineering, University of California, Los Angeles

Certification/License

Professional Engineer

Areas of Expertise

- MV & LV power distribution system (up to 35kV)
- Power Distribution Center (PDC) design

Jack Yao, PE Senior Associate

Mr. Yao has extensive electrical (power) engineering and discipline leadership experience. He has successfully led dozens of design, bid, build projects nationally and internationally in water/wastewater and oil/gas industries.

He is experienced in MV & LV power distribution system design, hazardous area classification, motor & generator applications, aboveground and underground installation design, grounding system, lighting design, and power system automation.

12kV Service Entrance Power Center Upgrade, Union Sanitary District, Union City, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing a new 12kV pre-fabricated service entrance power center to replace an existing service entrance switchgear to expand the existing electrical capacity at the waste water treatment plant. The new power center includes a new 12kV secondary selective switchgear lineup, a new 480V switchboard, and other auxiliary equipment.

Enhanced Treatment & Site Upgrade (ETSU) Program - Phase 1B, Union Sanitary District, Union City, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing a new 480V electrical distribution facility to provide power to new RAS/ WAS Pump Station, Effluent Facility, and Reclaimed Water Pump Station. The new distribution facility includes new 480V switchboards, 480V MCC lineups, and other auxiliary equipment.

Design Services for Digester Room MCC-2 Upgrades, Las Gallinas Valley Sanitary District, San Rafael, CA

Mr. Yao served as Lead Electrical Engineer responsible for performing an NFPA 820 assessment to evaluate the existing electrical installation in the digester area and designing a new 480V MCC to replace an aging existing MCC feeding digester loads.

Engineering Consulting Services for Biosolids Treatment and Disposal, Town of Windsor, CA

Electrical QA/QC. The project includes assessment of current trends to achieve Class A Material without using anaerobic digestion and sludge drying beds. Drying technologies, including thermal drying and biodrying, are shortlisted and coupling of biodrying with pyrolysis process is evaluated. The project aims to provide materials to support upcoming design phase.



Well 7A, City of Fullerton, CA

Lead Electrical Engineer. Hazen is providing engineering services for design of the City of Fullerton's Well 7A, which will replace the City's recently abandoned Well 7. Hazen teamed with Tom Harder and Associates to provide design services for the well drilling, well construction observation, and prepared a Basis of Design Report (BODR) for the well equipping. The BODR will be the roadmap that Hazen will utilize for efficiently executing the final design of the project.

Palmdale Well 36 Drilling and Equipping, Palmdale, CA

Mr. Yao served as Electrical QA/QC. Responsible for preparing preliminary design report, site layout design, and equipping of Well 17 located within the City of Palmdale. The well is designed to produce 2,000 gallons per minute and is driven by a constant speed 600 HP motor. Design services include a motor control center, RVSS drive for the well pump, building with separate electrical room, chlorine generation room, rolling building section enclosing the pump room, interior and exterior lighting, HVAC, and a pump-to-waste infiltration basin.

1,2,3-TCP Removal Treatment Plant, City of Chino Hills, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing a new 480V electrical distribution system to feed the existing water booster pumps and a new water treatment plant. The new distribution system includes a new service entrance switchboard, a new 480V MCC lineup, and new 480V VFDs.

State Street Water Treatment Plant, City of Chino, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing new 480V electrical distribution systems to feed the existing pump stations and a new standalone water treatment plant. The new distribution systems includes new service entrance switchboards, new 480V MCC line, and new 480V VFDs.

Biosolids & Energy Phase 1, Goleta Sanitary District, Goleta, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing new Combined Heat & Power (CHP) unit to utilize digester gas to generate power to supplement plant power consumption, and a new 480V electrical distribution systems to feed new digester loads.

Substation 33/34 Switchrack Replacement Project, Chevron El Segundo Refinery, El Segundo, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing six new 480V switchracks to replace existing 50-year-old units. The project involved replacing existing main incoming cables to each switchrack, design new switchrack components (bus boxes, breakers, motor starters, and distribution panelboards), and refeed all existing loads.

F-720/731 SCR Retrofit Project, Chevron El Segundo Refinery, El Segundo, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing a new Power Distribution Center (PDC) to support new plant loads added to retrofit a new SCR system to the existing furnaces. The project involves adding new 15kV breakers sections at the refinery main substation and routing new 15kV feeders via pre-fabricated duct banks to new 15kV Load Interrupting Switches closed-coupled with 13.8-2.4kV and 13.8-0.48kV oil-filled transformers to provide power to the new PDC.

Refinery Wireless Project, Chevron El Segundo Refinery, El Segundo, CA

Mr. Yao served as Lead Electrical Engineer responsible for designing refinery-wide wireless system to allow plant operators to use mobile devices to communicate back to the main control room. The project involves collaborating with wireless equipment vendor, design wireless access points, and provide 120V UPS power to each access point enclosure.



B.S., Electrical Engineering, California State University, Long Beach, CA

Certification/License

Professional Engineer: EIT

Areas of Expertise

- Power Distribution (Medium and Low Voltage)
- AutoCAD, Plant 3D, Revit, Visual Lighting, and SQL

Experience

- 6 total years
- 2 years with Hazen

Ivy He, EIT Assistant Engineer II

Ivy has 6 years of experience in electrical design in both healthcare and water/wastewater industry projects.

She has worked in collaborative settings to provide drawing sets and design through all project phases and construction support for Electrical and Instrumentation. She has gained a wide range of experience in power distribution design, lighting design, and knowledge of industry and city standards including Title24 and NEC.

Enhanced Treatment & Site Upgrade (ETSU) Program - Phase 1B and 1C Project – Union City, CA

Project Assistant Engineer. The Union Sanitary District (District) has embarked on the \$450M Enhanced Treatment and Site Upgrade (ETSU) Program which will result in increased plant capacity, replace aging infrastructure, future nutrient removal and provide flexibility for wet weather discharge to the San Francisco Bay. Supported lead engineer on the electrical design of the EDF, Effluent Storage, and Lift Station areas and their support spaces. Created plan drawings and designed ductbank and conduit routes to provide power to new spaces.

Clearwell Effluent Meter Replacement at the Robert A. Perdue Water Treatment Plant – Chula Vista, CA

Project Assistant Engineer. Supported lead electrical engineer on replacement of venturi meter upstream of the existing meter vault to improve meter accuracy. Created site plan to show power from existing PAC building to be routed underground to new space and designed control one line diagram and panel schedule to show added load.

Sweetwater Reservoir Aeration/Destratification System - Chula Vista, CA

Project Assistant Engineer. Supported lead electrical engineer on the implementation of an aeration/destratification system to improve water quality and increase the yield of treatable water from the reservoir. This project involved demo and replacement of the existing substation main breaker to accommodate new loads added. This upgrade allowed installation of the new system to be fed from the existing unit substation to the new air compressor area.



Geohydrologic and Engineering Design Services for the City of Banning Well C-8 – Banning, CA

Project Assistant Engineer. Supported lead electrical engineer on new buildout for large well pump. This project requires new service entrance power to new 480V switchboard and backup generator. Created single line, power plan, lighting plan and control one line diagram.

Clearwell Effluent Meter Replacement at the Robert A. Perdue Water Treatment Plant – Chula Vista, CA

Project Assistant Engineer. Supported lead instrumentation engineer on replacement of venturi meter upstream of the existing meter vault to improve meter accuracy. Created site plans, P&IDS and instrumentation details to show control and signal connections from existing building to feed replacement.

Sweetwater Reservoir Aeration/Destratification System - Chula Vista, CA

Project Assistant Engineer. Supported lead instrumentation engineer on the implementation of an aeration/ destratification system to improve water quality and increase the yield of treatable water from the reservoir. Created site plans, P&IDs and instrumentation details.

Geohydrologic and Engineering Design Services for the City of Banning Well C-8 – Banning, CA *Project Assistant Engineer.* Supported lead instrumentation engineer on new buildout for large well pump and associated instruments. Provided drawings to show instrument connections to new PLC and overall network connection to new site.

State Street WTP Design – Chino, CA

Project Assistant Engineer. Supported lead instrumentation engineer on new treatment to Well 12 and Well 14. This includes processes such as granulated activated carbon vessels, ion exchange, cartridge filters, and disinfection and storage in Reservoir 5. Provided design support for instrumentation details and document review of P&ID functions and controls.



M.S., Civil Engineering, Arizona State University, Arizona

B.S., Civil Engineering, Arizona State University, Arizona

Certification/License

Professional Engineer

OSHA: 10-hour Construction; 8-hour Confined Space

Areas of Expertise

- Structural Assessment
- Structural Analysis
- Design and Construction
- Structural and Constructability Reviews of Water and Wastewater Design Projects
- Construction management and inspection
- Masonry
- Steel Tanks
- Structural and Environmental Concrete
- Structural Steel
- Seismic Assessment

Professional Activities

• American Society of Civil Engineers (ASCE)



Sean DuPuis, PE Structural

Sean is a civil engineer with over 18 years of expertise instructural assessment, analysis, design, and construction of facilities for municipal, federal, and private clients.

Lead structural discipline and multi-discipline engineering and drafting project teams in development of construction documents including reports, calculations, drawings, and specifications. Perform technical structural and contractibility reviews for water and wastewater design projects and provides services during construction including review of shop drawings and product data, answering requests for information, structural observation, and quality control management.

Resource Recovery Facility Master Plan, Delta Diablo, Antioch, CA

Structural. The District owns and operates the 31-mgd RRF, which includes a 13-mgd recycled water facility and sewer conveyance (including flow equalization and pumping stations). The RRF is at a point in its life-cycle when significant capital expenditures are required to rehabilitate and replace aging infrastructure. To allow these investments to be made ho-listically and in consideration of future loads and regulatory requirements, the District selected Hazen to prepare a master plan for the RRF.

Enhanced Treatment & Site Upgrade Program, Union Sanitary District, Union City, CA

Structural Lead. The project involves the preliminary Design of the Phase 1A AB Modifications and Project Management Team for the ETSU Pro-gram. The Union Sanitary District (District) has embarked on the \$450M Enhanced Treatment and Site Upgrade (ETSU) Program which will result in increased plant capacity, replace aging infrastructure, future nutrient removal and provide flexibility for wet weather discharge to the San Francisco Bay. The program includes aeration basin modifications to convert from carbon removal to biological nutrient removal, a new eighth aeration basin, new secondary clarifiers, new RAS/WAS pump station, new effluent facilities (chlorination, dechlorination, effluent pump station, wet weather discharge pump station, recycled water pump station and elutriation water pump station) new carbon odor scrubbers, new primary effluent equalization and a new administration building. The project included extensive hardening of the electrical infrastructure to accom-modate the future loads and provide electrical redundancy. In addition to design, Hazen is providing permitting, CEQA development, and fi-nancing application support for the multi-phase program.

NapaSan Master Plan, Napa Sanitation District, Napa, CA

Structural Engineer. The District selected Hazen to develop the Soscol Water Recycling Facility (SWRF) to provide NapaSan with strategic planning guidance and in-depth analysis of key focus areas. NapaSan intends to produce an actionable and strategic master plan that supports decision making over the next five-to-ten years while maintaining a 20-year planning horizon. The Master Plan included key areas such as condition assessment, nutrients, biosolids, recycled water, capacity analysis. The Master Plan also includes an evaluation of vulnerabilities as well as susceptibility to climate change factors such as flood, wildfire risk and public safe-ty power shutoffs.

GWTP Facility Master Plan Project, Long Beach Water Department, Long Beach, CA

Structural Lead. This project involves working on for ASCE 41 assessment includes assessment of water treatment concrete basins, steel canopies, masonry and concrete buildings. This project will be guide for planning, operating, maintaining, and renewing the GWTP's processes, systems, and infrastructure through year 2042.

Engineering Consulting Services for Biosolids Treatment and Disposal, Town of Windsor, CA

Structural Engineer. The project includes assessment of current trends to achieve Class A Material without using anaerobic digestion and sludge drying beds. Drying technologies, including thermal drying and biodrying, are shortlisted and coupling of biodrying with pyrsis process is evaluated. The project aims to provide materials to support upcoming design phase.

Biosolids Loadout Condition Assessment, Eastern Municipal Water District, Perris, CA

Structural Lead. The biosolids loadout facility at the PVRWRRF has experienced failure of several components including loadout gates and loadout measurement cells. These failures have necessitated greatly increased operator involvement to keep the facility functioning. Hazen was appointed to evaluate current condition of the facility to recommend improvements that would restore it to reliable operation. This project has conditioned through detailed design an is now under construction.

Biosolids and Energy Phase I: Preliminary Design, Goleta Sanitary District (GSD), Goleta, CA Structural Lead. This project is developing a Preliminary Design Report that includes preliminary design of a new digester and CHP facility, develop cost estimate for these facilities, conduct regulatory and environmental assessment, and provide conceptual layout of all expected facilities for construction. This project has conditioned through detailed design an is now under construction.

La Brea Subarea Groundwater Supply Project – Wells, Transmission Main, and Treatment Facilities, City of Beverly Hills, CA

Structural Calculation Reviewer. This is a \$50 M project the City is implementing to expand their local water supply by developing groundwater in the La Brea Subarea of the Central Groundwater Basin. The project in-cludes three (3) groundwater wells to be drilled and equipped, 4-miles of raw water transmission main through the City of Los Angeles and Beverly Hills, and upgrade of the City's existing reverse osmosis treatment plant. The first phase of the project which Hazen is leading is the drilling and equipping of the first groundwater well, and construction of the 4-mile transmission main. Structural tasks include design of a well building with special reinforced masonry shear walls supporting a flexible roof diaphragm. The building roof system consists of cold-formed steel trusses supporting metal decking with rigid insulation and metal tile roofing. The well building was designed with a section of removable roof and removable walls to facilitate removal of the well pump and piping for maintenance or replacement.



MS, Environmental Engineering, University of California at Berkeley, 2007

BS, Civil and Environmental Engineering, University of California at Berkeley, 2006

Certification/License

Professional Engineer: CA

Certified Estimating Professional (CEP)

Areas of Expertise

- Change order preparation and negotiation
- Cost estimating
- Construction management
- Scheduling
- Change order preparation and negotiation
- Design services during construction

Experience

- 17 total years
- 15 years with Hazen

Professional Activities

Water Environment Federation

American Association of Cost Engineers

California Water Environment Association

Christopher Portner, PE, CEP Principal Engineer

Mr. Portner has provided cost estimating services from planning level through construction for both water and wastewater projects, including conveyance and treatment facilities. Mr. Portner is in AACEi Certified Estimating Professional.

Moreno Valley RWRF TEPS MCC Replacement Project, Eastern Municipal Water District, CA

Cost Engineer for replacement of existing switchgears, motor control centers and ancillary equipment. Project included replacement of switchgear and motor control center hardwire as well as new ductbanks and conductors.

Moreno Valley RWRF Solids Handling MCC Replacement Project, Eastern Municipal Water District, CA

Cost Engineer for replacement of existing solids handling motor control centers and ancillary equipment. Project included replacement of switch-gear and motor control center hardwire as well as new HVAC and conductors.

Central Treatment Plant Miscellaneous Improvements, South Orange County Wastewater Authority, Dana Point, CA

Cost Engineer for design of miscellaneous improvements at the Central WWTP. Improvements included rehabilitation of processes from primary treatment through disinfection, including headworks, aeration basins, secondary clarifiers, and associated electrical infrastructure. Project also included fall protection and other safety enhancements based upon a plant audit.

JB Latham Miscellaneous Improvements, South Orange County Wastewater Authority, Dana Point, CA

Cost Engineer for design of the miscellaneous improvements at the JB Latham WWTP. Improvements included rehabilitation of existing grit basins, including replacement of existing piping, covers and valves as well as structural modifications. Additionally replacement of the existing emergency generator and effluent flow meters and isolation valves were designed.





Disinfection Improvements at the Laguna Treatment Plant, City of Santa Rosa, Santa Rosa, CA

Cost Engineer for the design of disinfection improvements at the 67-mgd Laguna Treatment Plant. The scope of work includes upgrade of the existing ultraviolet disinfection system to treat the entire 67-mgd plant flow, addition of a sodium hypochlorite system for disinfection of a side effluent stream, construction of a 35-mgd diversion pump station and pipeline to return off-spec water to the head of the plant, and a new load center to provide power to the new processes.

Enhanced Treatment and Site Upgrade, Union Sanitary District, CA

Cost Engineer for design of secondary improvements at the District's wastewater treatment plant. Scope included alternative analysis between MBR and conventional treatment trains, retrofitting of existing aeration basins, installation of additional process blowers, construction of clarifiers, new effluent pumping and disinfection facilities, replacement of existing operations, laboratory, and administration buildings, new electrical distribution facilities, and associated mechanical, HVAC, structural, electrical and instrumentation work.

Ridgeline Booster Pump Station, Trabuco Canyon Water District, CA

Cost Engineer for upgrade to an existing booster pump station. Project included replacement of existing pumps and associated electrical, mechanical, instrumentation and HVAC equipment and replacement. Project also included structural modifications to the existing building to accommodate the new pump configuration.

Perris Valley Regional Water Reclamation Facility Sidestream Treatment Facility, Eastern Municipal Water District, CA

Cost Engineer for construction of a sidestream deammonification facility. The project included construction of a new centrate pump station, equalization tanks, reactors, blower building, and electrical facility, along with associated piping, electrical, site work, and controls work.

Temecula Valley Regional Water Reclamation Facility Sidestream Treatment Facility, Eastern Municipal Water District, CA

Cost Engineer for construction of a sidestream deammonification facility. The project included construction of a new centrate pump station, equalization tanks, reactors, blower building, and electrical facility, along with associated piping, electrical, site work, and controls work.

Skyfarm 'A' and Hansford Court Lift Station Project, Santa Rosa, CA

Cost Engineer for the reconstruction of the Skyfarm 'A' and Hansford Court lift stations. The lift stations were damaged during the Tubbs wildfire and required replacement of the existing structures, pumps, electrical equipment, piping and ancillary electrical, mechanical and instrumentation systems. Project was performed with FEMA funding, requiring adherence to federal regulations for reimbursement. Project also included design services during construction.

Agenda Item

6.B.

Board of Directors Meeting

Meeting Date: August 8, 2024

TO:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	J. B. Latham Treatment Plant (JBL) Effluent Pump Station and Energy Building Design Contract [Project Committee 2]

Overview

SOCWA staff removed the Effluent Pump Station and Energy Building Improvements from the Package B Improvements scope of work. The work was primarily removed due to contractor difficulties complying with the construction requirement to maintain the treatment plant systems' operability during the Package B construction.

The proposed Scope of Services includes the revision and repackaging of drawings and specifications. Carollo Engineers provided a proposal for engineering services to repackage these two scope items into a new, updated construction package. The updates include additional construction details to address constructability issues and construction noise (day and night) impacts on the new residences adjacent to the project site. It should be noted that the residential units next to JBL were not constructed when the original Package B project was bid in 2018.

Specifically, the revised construction bidding materials will provide:

- Constructability details for isolating the ocean outfall system to allow for continued operations during the effluent pipe and valve replacement work.
- A Jib-crane instead of a monorail crane to avoid conflicts with existing ductwork.
- Constructability details for the existing foul air ductwork to allow for the seismic retrofit of the roof framing and wall anchorage connections.
- Constructability details for the proposed safety upgrades in the project to minimize disruption to existing operations and limiting noise impacts from operating equipment when roof hatches and skylights are removed for replacement.
- Noise reduction measures and mitigations for the outfall work near the plant perimeter.

Carollo's proposed a total fee of \$175,516. This includes \$66,710 for the Energy Building Roof improvements, \$44,471 for the Jib-crane, and \$64,335 for the Effluent Pump Station improvements.

Prior Related Project Committee or Board Action (s)

This item was discussed at the January 18, 2024, Engineering Committee Meeting and the February 1, 2024, Board of Directors Meeting. The PC 2 Board requested additional information, including a tour at JBL, to better understand the ongoing projects. The tour was conducted by SOCWA staff with the PC 2 Board members on May 15, 2024. The PC 2 Board members directed staff to bring this item back to the Engineering Committee for further direction and discussion. This Item was reviewed by the Engineering Committee on June 13, 2024.

Cost Allocation

The Effluent Pump Station Improvements are under Project 32226L, a Liquids allocation Project. Table 1 shows the allocation of costs by member agency.

Table 1 – Cost Allocation by Member Agency (52220		
Agency	Cost	
Moulton Niguel Water District	\$14,849	
Santa Margarita Water District	\$30,932	
South Coast Water District	\$18,554	
Total	\$64,335	

Table 1 – Cost Allocation by Member Agency (32226L)(Liquids)

The Energy Building Roof improvements are under Project 32225S, a Solids allocation project. Table 2 shows the allocation of costs by member agency.

Table 2 – Cost Allocation by Member Agency (32225S)(Solids)

Agency	Cost
Moulton Niguel Water District	\$14,423
Santa Margarita Water District	\$38,945
South Coast Water District	\$13,342
Total	\$66,710

The hoist system is under Project 3216, a Common allocation project. Table 3 shows the allocation of costs by member agency.

Table 3 – Cost Allocation by Member Agency (3216)(Common)

Agency	Cost
Moulton Niguel Water District	\$9,939
Santa Margarita Water District	\$23,671
South Coast Water District	\$10,861
Total	\$44,471

Table 4 shows the total by member agency.

Agency	Cost
Moulton Niguel Water District	\$39,211
Santa Margarita Water District	\$93,548
South Coast Water District	\$42,757
Total	\$175,516

Recommended Action: The Engineering Committee recommends that the PC 2 Board approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.

5355 Mira Sorrento Place, Suite 270 San Diego, California 92121 P 858-505-1020



carollo.com

December 6, 2023

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

Subject: J.B. Latham Treatment Plant (JBLTP) Facility Effluent Pump Station & Energy Recovery Building Repackage

Dear Ms. Young:

Pursuant to your request, Carollo Engineers, Inc. (Carollo) has prepared this letter proposal for the South Orange County Wastewater Authority (SOCWA) to provide engineering services associated with re-packaging of the Effluent Pump Station and Energy Recovery Building improvements that were removed from the Package B Improvements at the J.B. Latham Treatment Plant. The scope of services related to a re-package effort are outlined below.

Scope of Services

The proposed Scope of Services includes the revision and re-package of drawings and specifications. References to work in other areas from the previous Package B Improvements Project will be removed from the drawings and specifications, and only reflect the work to the Effluent Pump Station and the Energy Recovery Building. These documents will be re-packaged for SOCWA approval and become a new bid package for the work. Work at the Energy Recovery Building will include the following new work:

- Jib-crane addition at the 2nd floor of the Energy Recovery Building.
- Seismic retrofit of the roof framing and wall anchorage connections at the Energy Recovery Building.
- Safety Upgrades at Energy Recover Building roof including guardrail, skylights, and other items identified as part of Package B project.

Carollo will evaluate a proposed location for the jib-crane and develop strengthening details as required at the Energy Recovery Building 2nd floor and supporting elements to accommodate the installation. The 2019 California Building Code will be used as the basis for design of the structural support and strengthening. The crane hoist will be electric however the boom rotation will be manual. It is assumed the crane will not have any monitoring or alarm status to SCADA.

Carollo shall perform an update to the seismic retrofit design so that it complies with the 2019 California Building Code. Significant changes are not anticipated, but some adjustments may be necessary. An alternative attachment detail will be needed where the foul air ducting interferes with access to the roof/wall interface.

Carollo will update/adapt the Energy Recovery Building safety improvement details that were prepared for the Package B project. Significant changes are not anticipated but some adjustments may be necessary to address differing existing conditions identified during the Package B project.

Project No / JBLTP Effluent PS Energy Building Proposal.docx

Roni Young South Orange County Wastewater Authority December 6, 2023

Page 2

Carollo will prepare general and discipline drawings to support the design elements listed above. Carollo will prepare applicable administrative and technical specifications to support the design elements listed above. Carollo will develop a cost estimate at the draft submittal. The estimate will be updated at the final submittal milestone.

Carollo will also review the Contractor's "As-Built" drawings from the Package B Improvements Project construction for any design clarifications that may have occurred in the Effluent Pump Station area. These potential changes will be review with SOCWA to confirm the approach to the design documents.

Deliverables

Plans/Specifications packages in electronic format (PDF file of Plans and Microsoft® Word file of Specifications, with 11-inch by 17-inch pages and 8.5-inch by 11-inch pages, respectively) at the Draft and Final Submittal design stages.

Schedule

Assuming approval of this amendment by January 1, 2024, the schedule for the overall project will be revised as follows:

- Draft Submittal to SOCWA: 4/1/2024
- SOCWA Draft Review Time: 4/1/2024 4/16/2024
- Final Submittal to SOCWA: 6/1/2024

Roni Young South Orange County Wastewater Authority December 6, 2023

Page 3

Budget

A table with the estimated level of effort and fee is appended as Exhibit B. The exhibit also includes a list of drawings that are anticipated to be required as new or modified sheets.

Please let us know if you have any questions.

Sincerely, CAROLLO ENGINEERS, INC.

Jeff Weishaar, P.E. Vice President

JW:bg

Enclosures: Fee Table

CC:

South Orange County Wastewater Authority

JB Latham WWTP Effluent Pump Station Energy Recovery Building Design

Exhibit A - Proposed Fee

TASK	Project Manage	Project Enginee	Structural	Electrical	CAD	Admin	Total Hours	Total Labor	Other Direct Costs	Task Total
Energy Recovery Building										
Project Management & Meetings	8	16	8	6			38	\$ 8,140	\$ 532	\$ 8,672
Site Visit	4	4	8	8			24	\$ 5,020	\$ 1,086	\$ 6,106
Energy Recovery Building										
Draft Bid Documents	16	48	56	34	110	8	272	\$ 51,430	\$ 4,308	\$ 55,738
Final Bid Documents	12	28	20	20	54	6	140	\$ 26,840	\$ 2,460	\$ 29,300
Effluent Pump Station										
Draft Bid Documents	8	24	24	22	70	8	156	\$ 29,070	\$ 2,684	\$ 31,754
Final Bid Documents	4	20	16	16	42	6	104	\$ 19,260	\$ 1,956	\$ 21,216
Prebid Meeting	4	4	4				12	\$ 2,740	\$ 168	\$ 2,908
Addendum (1 Total)	4	36	24	8	20	6	98	\$ 18,450	\$ 1,372	\$ 19,822
HOURS TOTAL	60	180	160	114	296	34	844	\$ 160,950	\$ 14,566	\$ 175,516
RATE	\$305	\$190	\$190	\$190	\$175	\$135				
COST TOTAL	\$ 18,300	\$ 34,200	\$ 30,400	\$ 21,660	\$ 51,800	\$ 4,590		\$ 160,950	\$14,566	\$ 175,516

Agenda Item

6.C.

Board of Directors Meeting Meeting Date: August 8, 2024

то:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	Contract Amendment for the Coastal Treatment Plant (CTP) Export Sludge Forcemain Temporary Impact Area Restoration Monitoring and Maintenance [Project Committee 15]

Overview

For two years, Dudek and Habitat Restoration Science, Inc. (HRS) have been providing restoration monitoring and maintenance services for temporary impact areas associated with the Coastal Treatment Plant (CTP) Export Sludge Forcemain Replacement Project. An additional year of monitoring and maintenance is required to achieve project sign-off per the performance criteria defined by the Habitat Monitoring and Maintenance Plan (HMMP).

Background

As part of the permit requirements for the construction of the export sludge forcemain replacement, SOCWA is required to restore the vegetation that was disturbed during construction, known as the Temporary Impact Area. The permit requires that the restoration of this area meets certain performance criteria at the end of two years. If the performance criteria are not met after two years, then additional monitoring and maintenance efforts will continue until the criteria are finally met.

Starting in April 2022, when the area was hydroseeded, Dudek has been monitoring and maintaining the area. The original contract included periodic monitoring visits by a biologist, permit-required reporting, and periodic visits by a maintenance crew to control weeds.

At the end of the 2-year maintenance and monitoring period for the project, the native upland project areas were not meeting the performance criteria identified by the HMMP and the *Temporary Impact Vegetation Cover Data for the Coastal Treatment Plant Export Sludge Force Main Replacement Project* (Vegetation Memo; Dudek 2022). Dudek recommended remedial actions to address the non-compliant project areas and an additional year of monitoring and maintenance to ultimately achieve project sign-off. Remedial actions and additional maintenance aim to effectively control non-native species establishment that compete with the successful establishment of native cover. Obstacles to effectively controlling non-native species throughout the 2-year monitoring and maintenance period include heavy rains (almost twice as much as the normal rainfall), OC Parks regulations preventing herbicide use within 10 feet of public trails, and limited site access following the Coastal Fire.

Prior Related Project Committee or Board Action (s)

This item was reviewed by the Engineering Committee on June 13, 2024.

Amendment

Dudek submitted a proposal amendment for \$84,960. The amendment includes:

- Year Three biological monitoring
- Year Three restoration maintenance

Table 1 shows the original contract, Amendment 1 (Year 2 Monitoring and Maintenance), and Amendment 2 (Year 3 Monitoring and Maintenance).

Activity	Original Contract	Amendment 1	Amendment 2	Total
Monitoring	\$ 14,030	\$ 14,400	\$14,960	\$43,390
Maintenance	\$ 76,500	\$ 67,000	\$ 70,000	\$213,500
Total	\$ 90,530	\$ 81,400	\$ 84,960	\$256,890

Table 1 – Cost Allocation by Member Agency

Cost Allocation

Table 2 shows the allocation of the costs by agency. This contract is funded by project 3541-000. There is enough money collected for the project to cover Amendment 2.

Agency	Amendment 2
City of Laguna Beach	\$32,208.72
Emerald Bay Service District	\$2,536.12
Moulton Niguel Water District	\$24,853.97
South Coast Water District	\$25,361.19
Total	\$84,960.00

Table 2 – Cost Allocation by Member Agency

The Engineering Committee also recommends that the consultant review progress quarterly. This will allow this monitoring project to terminate early if the habitat meets the permit requirements. The project is approximately 20% under the habitat restoration requirements. The primary reasons for not meeting the permit requirements were the Coastal Fire, unusually heavy winter rains, and herbicide use prohibitions due to park trail proximity.

Recommended Action: The Engineering Committee recommends that the PC 15 Board of Directors approve Amendment 2 to Dudek for a total of \$84,960 for the Export Sludge Temporary Impact Area Restoration Monitoring and Maintenance with quarterly progress reports.

DUDEK

June 7, 2024

Roni Grant, P.E. South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92629

Subject: Change Order Proposal – Coastal Treatment Plant Export Sludge Force Main Replacement Project, Temporary Impact Area Restoration Year Three Monitoring and Maintenance

Dear Roni Grant:

Dudek appreciates the opportunity to submit this proposal to the South Orange County Wastewater Authority (SOCWA) to continue to provide post-construction habitat restoration monitoring and maintenance services for the temporary impact area associated with the Coastal Treatment Plant Export Sludge Force Main Replacement Project (project).

For two years, Dudek and Habitat Restoration Sciences, Inc. (HRS) has been providing restoration monitoring and maintenance services for temporary impact areas associated with the project. An additional year of monitoring visits and maintenance events are required to achieve project sign-off per the performance criteria defined by the Habitat Monitoring and Maintenance Plan (HMMP) dated November 2019.

Project Background

At the end of the 2-year maintenance and monitoring period for the project, the native upland project areas were not meeting the performance criteria identified by the HMMP and the *Temporary Impact Vegetation Cover Data for the Coastal Treatment Plant Export Sludge Force Main Replacement Project* (Vegetation Memo; Dudek 2022). Dudek recommended remedial actions to address the non-compliant project areas and an additional year of monitoring and maintenance to ultimately achieve project sign-off. Remedial actions and additional maintenance aim to effectively control non-native species establishment that compete with the successful establishment of native cover. Obstacles to effectively controlling non-native species throughout the 2-year monitoring and maintenance period include heavy rains (almost twice as much the normal rainfall), OC Parks regulations preventing herbicide use within 10 feet of public trails, and limited site access following the Coastal Fire.

Biological monitoring efforts will continue to oversee maintenance and provide recommendations based on site conditions. During Years 1 and 2, monitoring coordination was required on regular intervals to ensure maintenance was targeting specific treatment polygons based on performance criteria varying by vegetation community.

Scope of Services

TASK 1 YEAR THREE BIOLOGICAL MONITORING

Similar to Years 1 and 2, Dudek anticipates a need for coordination of the maintenance effort to target specific treatment polygons for performance criteria. Dudek's habitat restoration specialist will perform eight (8) monitoring visits in coordination with maintenance visits in Year 3 (see Task 2 below).

Each monitoring visit shall consist of a site walkthrough including a characterization restoration progress and assessment of maintenance conducted to date. Observations will be noted, such as native seedling germination, prevalence of weeds, and any general conditions that may require maintenance (e.g., temporary fence condition or erosion control). Site progress will be tracked through photo-documentation from permanent photo station established during the first monitoring visit. Maintenance recommendations will be provided in site observation reports with anecdotal photos and mark-up of field maps to document site progress or illustrate specific maintenance needed. In addition to observation and reporting, Dudek will work directly with the contractor during site visits to identify locations within the temporary impact footprint to target weed removal, particularly native habitats that did not meet the end-of-project success criteria at the end of Year Two.

The Dudek project manager will perform staff coordination, project setup and closure, budget and schedule maintenance, and invoicing tasks for project control.

Cost for Task 1.....\$14,960.00

TASK 2 YEAR THREE RESTORATION MAINTENANCE

Habitat Restoration Science, Inc. (HRS), a Dudek subsidiary, will continue to provide maintenance. An additional ten (10) visits of on-going maintenance through the native upland habitat areas and temporary fencing (t-post and rope) fencing repair and removal as defined in the Year Two Annual Report for the SOCWA Export Sludge Force Main (ESFM) Project. Each visit will consist of a 4-person crew working over 2 days. Maintenance visits will be timed under the direction of the Project Biologist to be seasonally appropriate for the needs of the project site.

Maintenance visits will be timed to be seasonally appropriate for the needs of the project site. Maintenance will be performed for \$7,000/visit.

Assumptions: HRS assumes State DIR maintenance prevailing wages apply.

Exclusions: This proposal does not include permit fees, water costs, water meter fees, traffic control, hazardous materials removal, coring, boring, or breaking. HRS excludes cost of development of SWPPP plan and any QSD/QSP services. This proposal does not include any remedial work efforts (planting, seeding, watering, etc.) beyond the maintenance tasks listed. This proposal does not include any repairs due to vandalism or incidents beyond the control of HRS.

Cost for Task 2.....\$70,000.00

Cost Estimate

Work pursuant to this change order will be billed on a time-and-materials basis based on the Dudek Schedule of Charges current at the time billing, not to exceed **\$84,960**.

Please contact me at (442) 997-5316 or **ecoltharp@dudek.com** if you have any questions regarding our scope of work and cost estimate.

Sincerely,

horrs

Erin Coltharp Restoration Ecologist

cc: Stuart Fraser, Dudek Jeff Bishop, HRS

Attachments: Figure 1, Temporary Impact Revegetation Area Status Mapbook 2024 2024 Dudek Schedule of Charges



SWS, Southern willow scrub



224

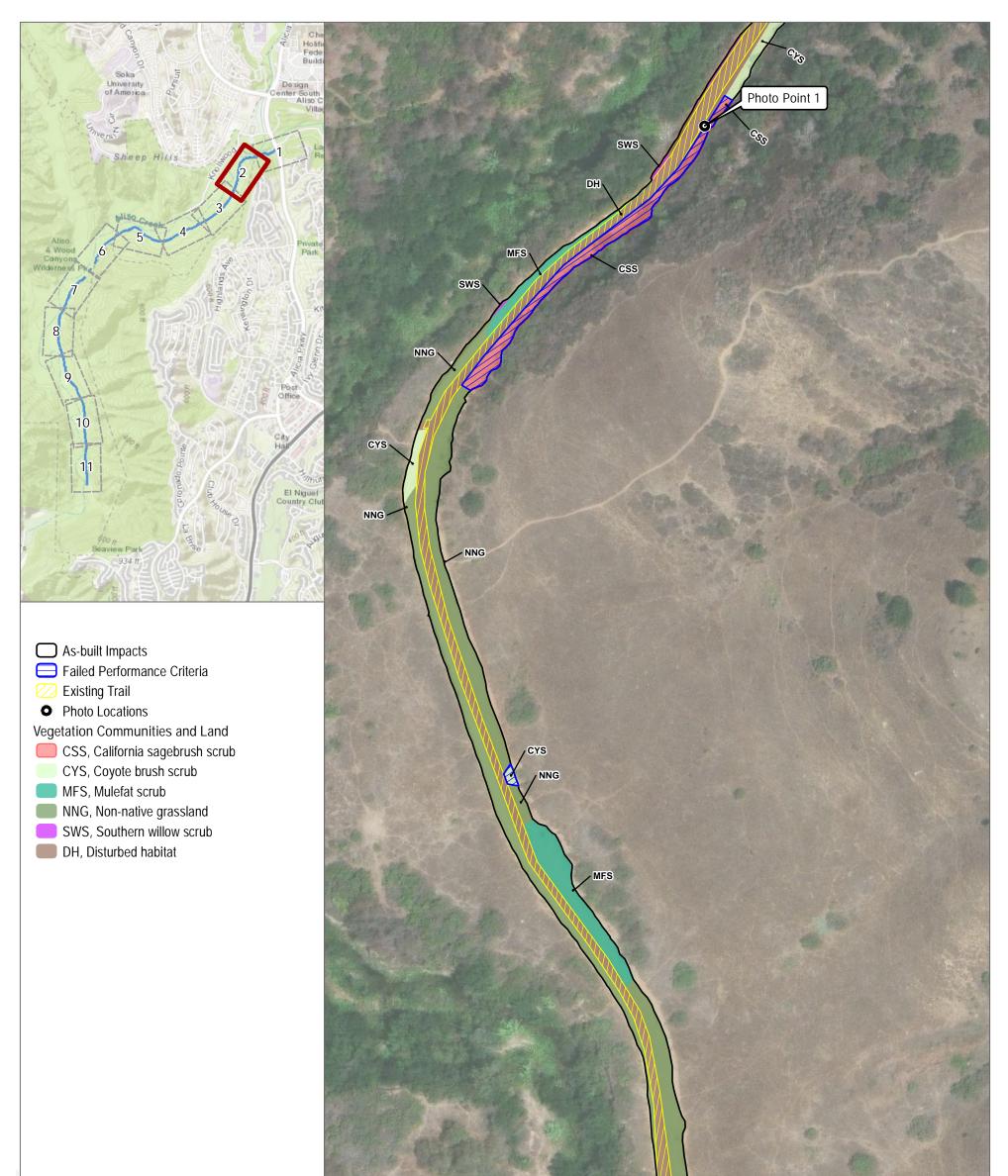
SOURCE: ESRI Aerial Imagrey (accessed 2023)

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FIGURE 1 - VIEW 1 Temporary Impact Revegetation Area Status





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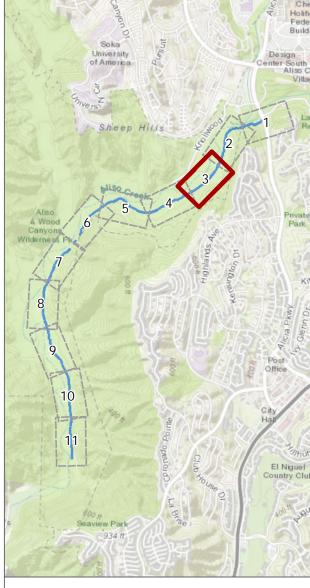
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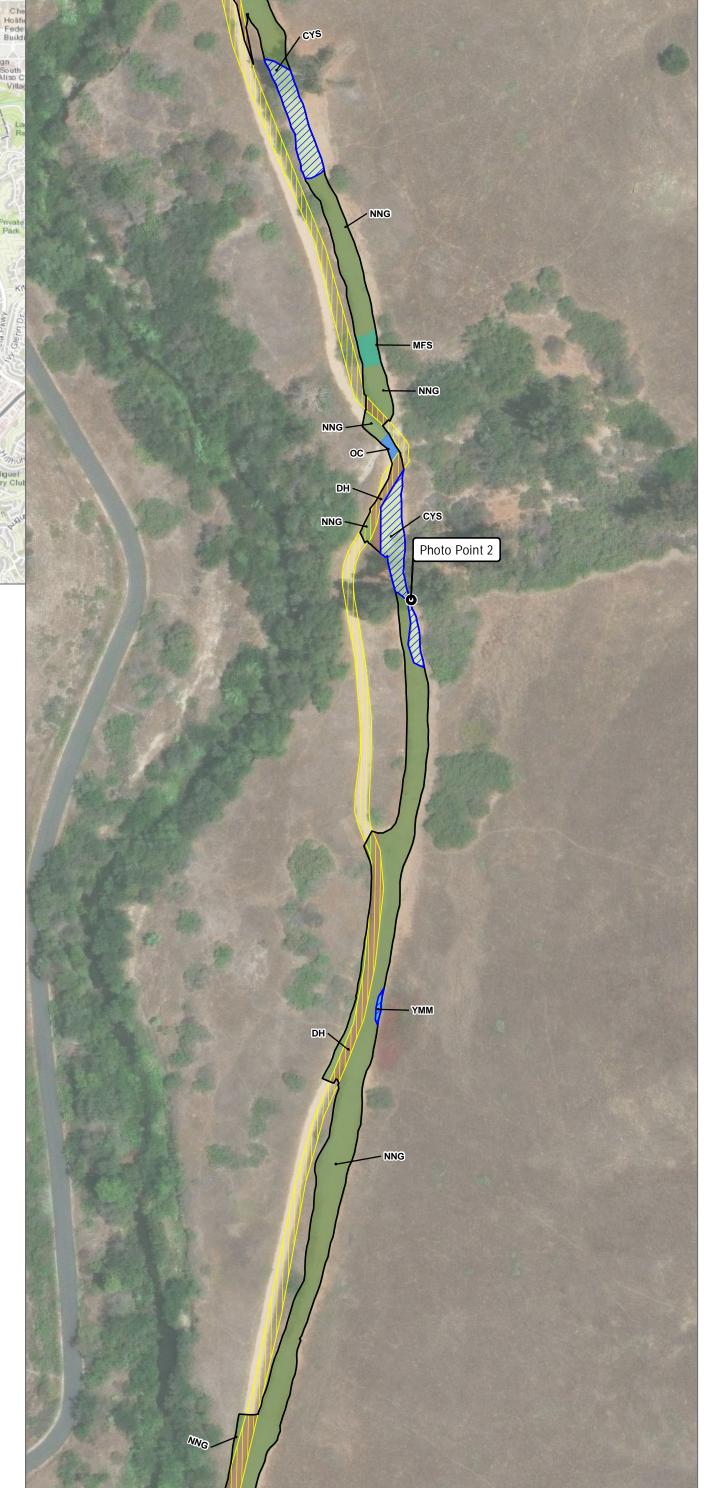
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FIGURE 1 - VIEW 2 Temporary Impact Revegetation Area Status



As-built Impacts
 Failed Performance Criteria
 Existing Trail
 Photo Locations
 Vegetation Communities and Land
 CYS, Coyote brush scrub
 MFS, Mulefat scrub
 NNG, Non-native grassland
 OC, Open channel
 YMM, Yerba mansa
 DH, Disturbed habitat



SOURCE: ESRI Aerial Imagrey (accessed 2023)

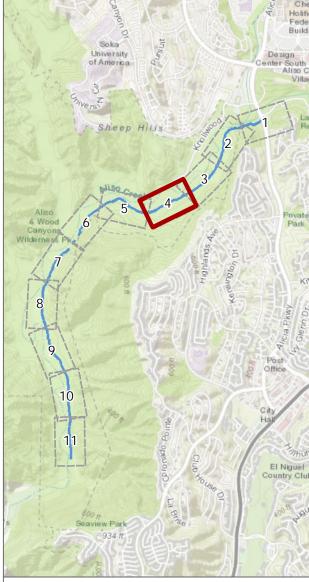
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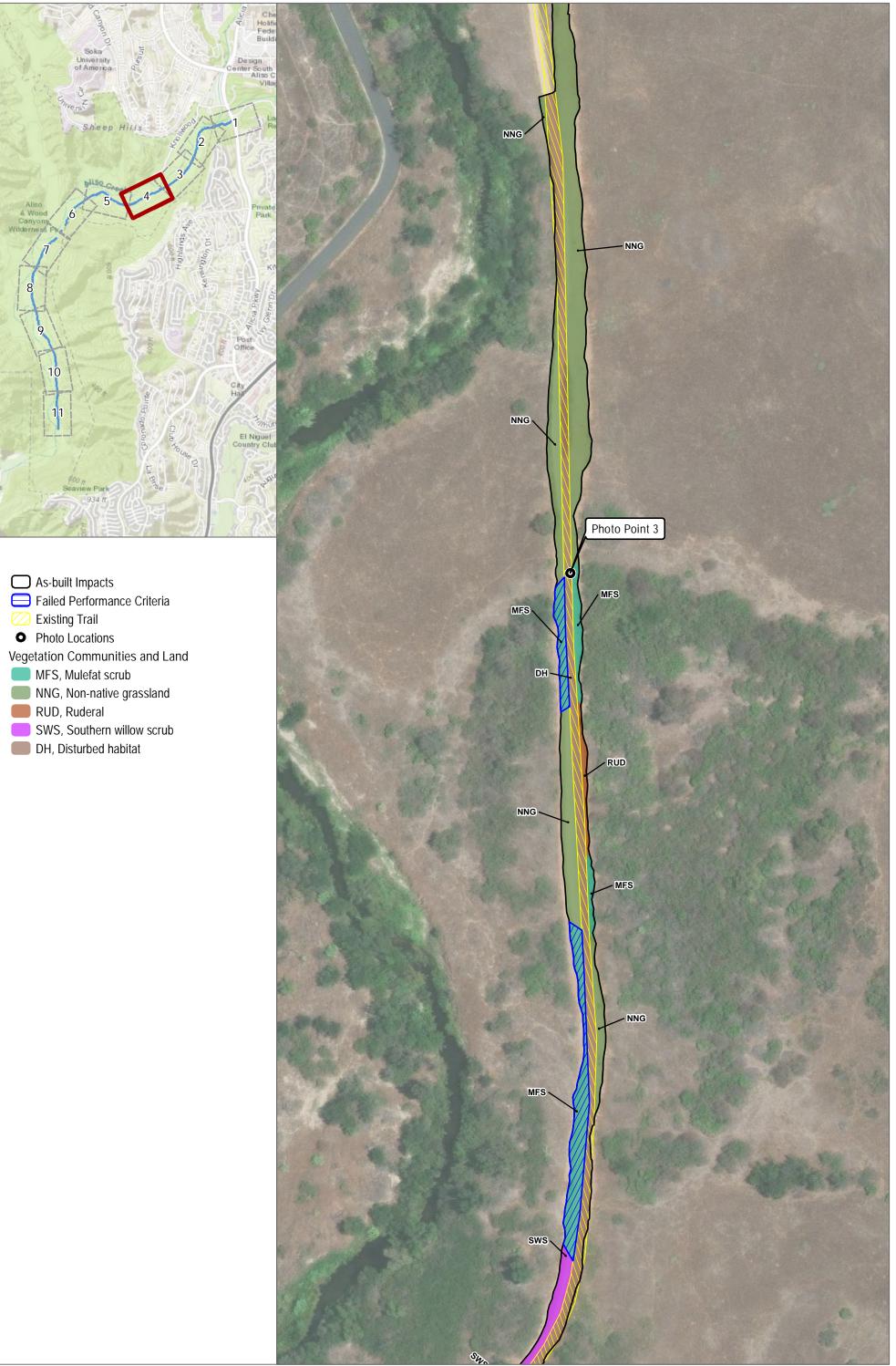
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FIGURE 1 - VIEW 3 Temporary Impact Revegetation Area Status



As-built Impacts Failed Performance Criteria Existing Trail • Photo Locations MFS, Mulefat scrub NNG, Non-native grassland RUD, Ruderal SWS, Southern willow scrub DH, Disturbed habitat



227

SOURCE: ESRI Aerial Imagrey (accessed 2023)

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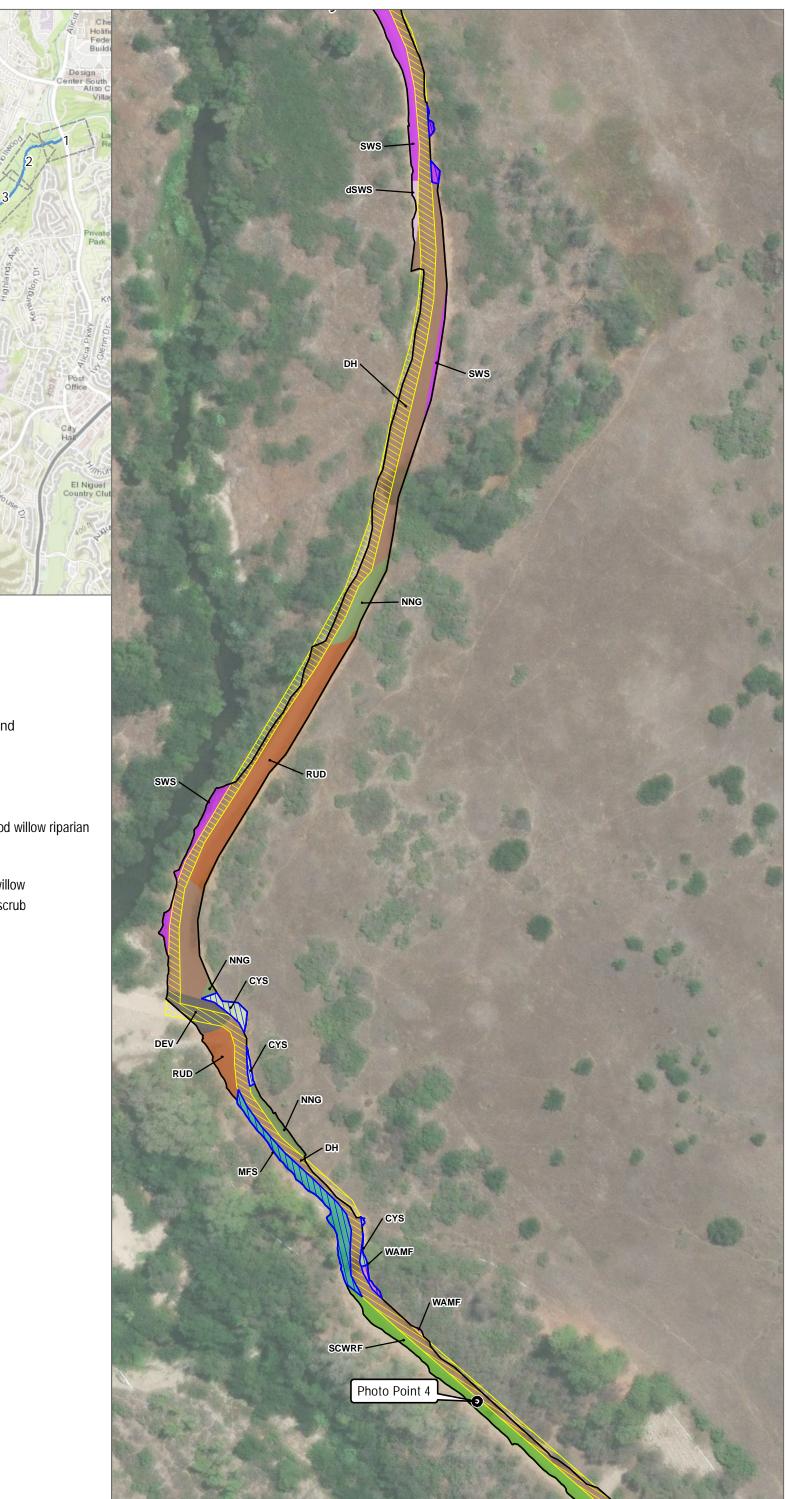
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FIGURE 1 - VIEW 4 Temporary Impact Revegetation Area Status



As-built Impacts E Failed Performance Criteria 🕖 Existing Trail • Photo Locations Vegetation Communities and Land CYS, Coyote brush scrub MFS, Mulefat scrub NNG, Non-native grassland RUD, Ruderal SCWRF, Southern cottonwood willow riparian forest SWS, Southern willow scrub dSWS, disturbed Southern willow WAMF, White alder-mulefat scrub DEV, Developed DH, Disturbed habitat



SOURCE: ESRI Aerial Imagrey (accessed 2023)

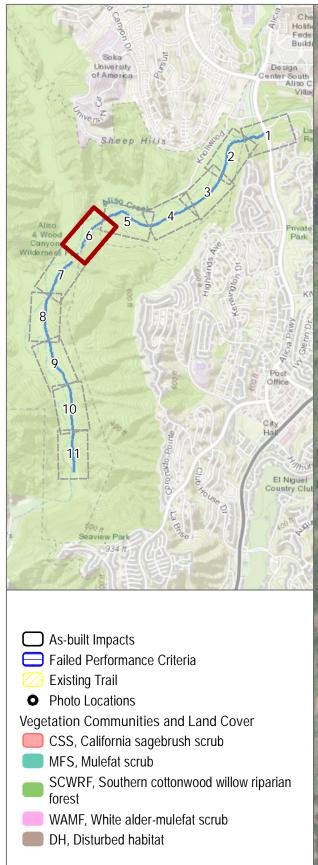
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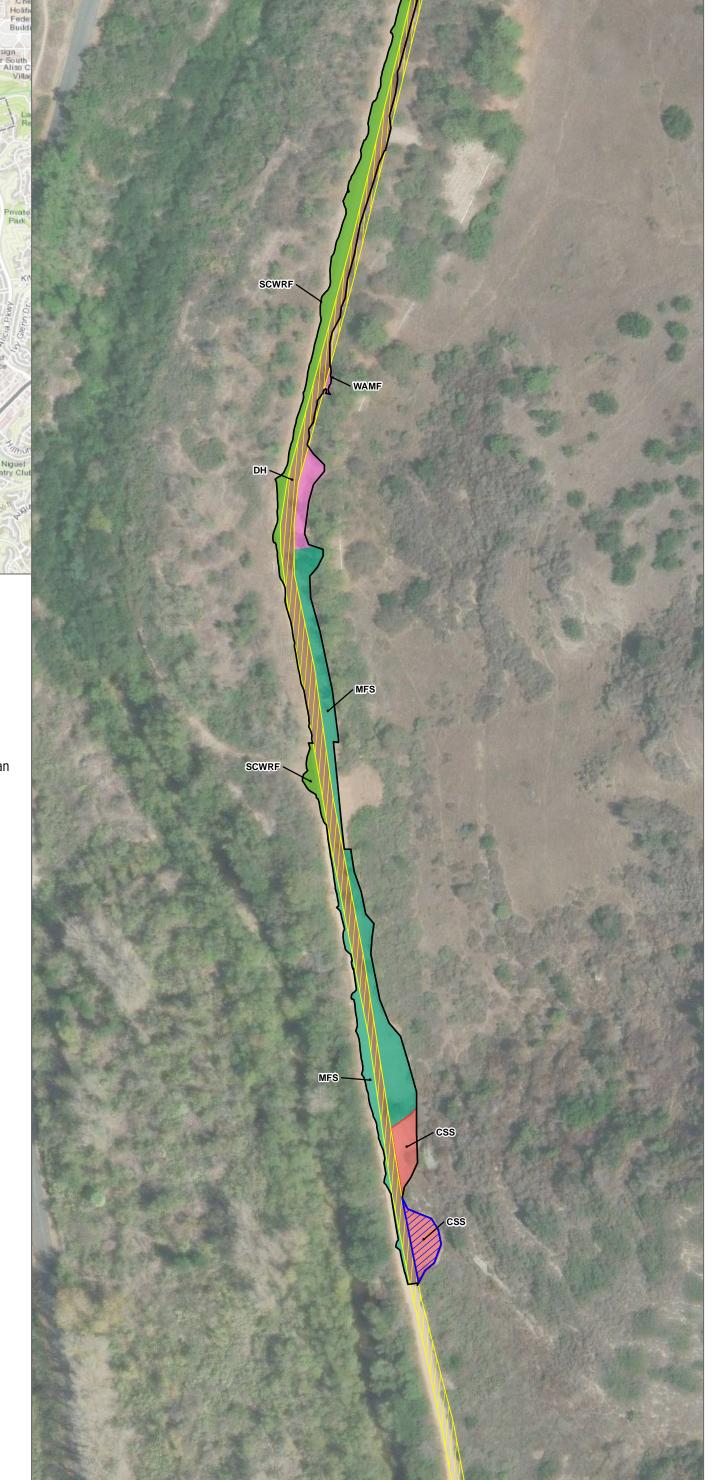
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FIGURE 1 - VIEW 5 Temporary Impact Revegetation Area Status





SOURCE: ESRI Aerial Imagrey (accessed 2023)

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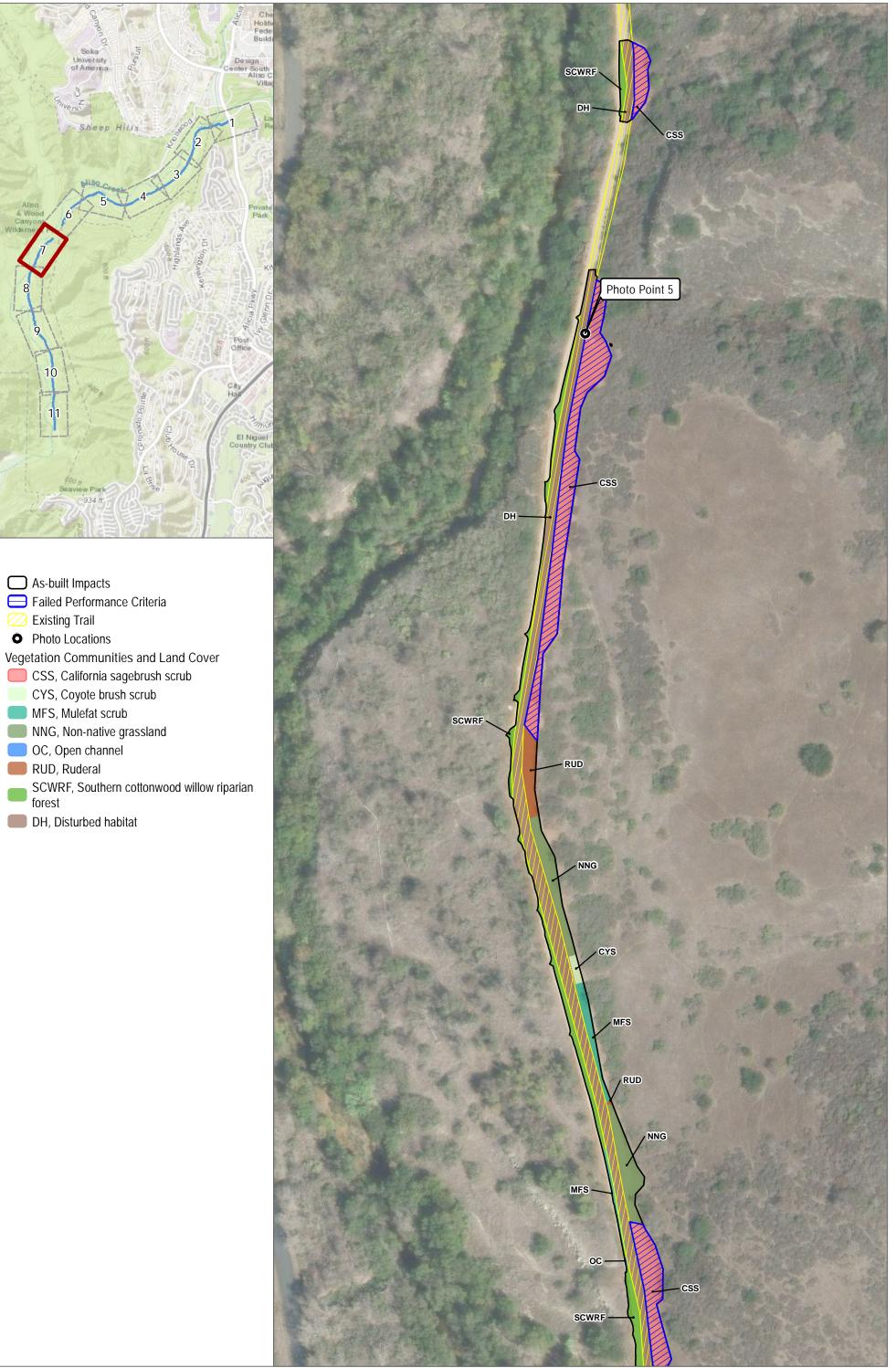
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FIGURE 1 - VIEW 6 Temporary Impact Revegetation Area Status







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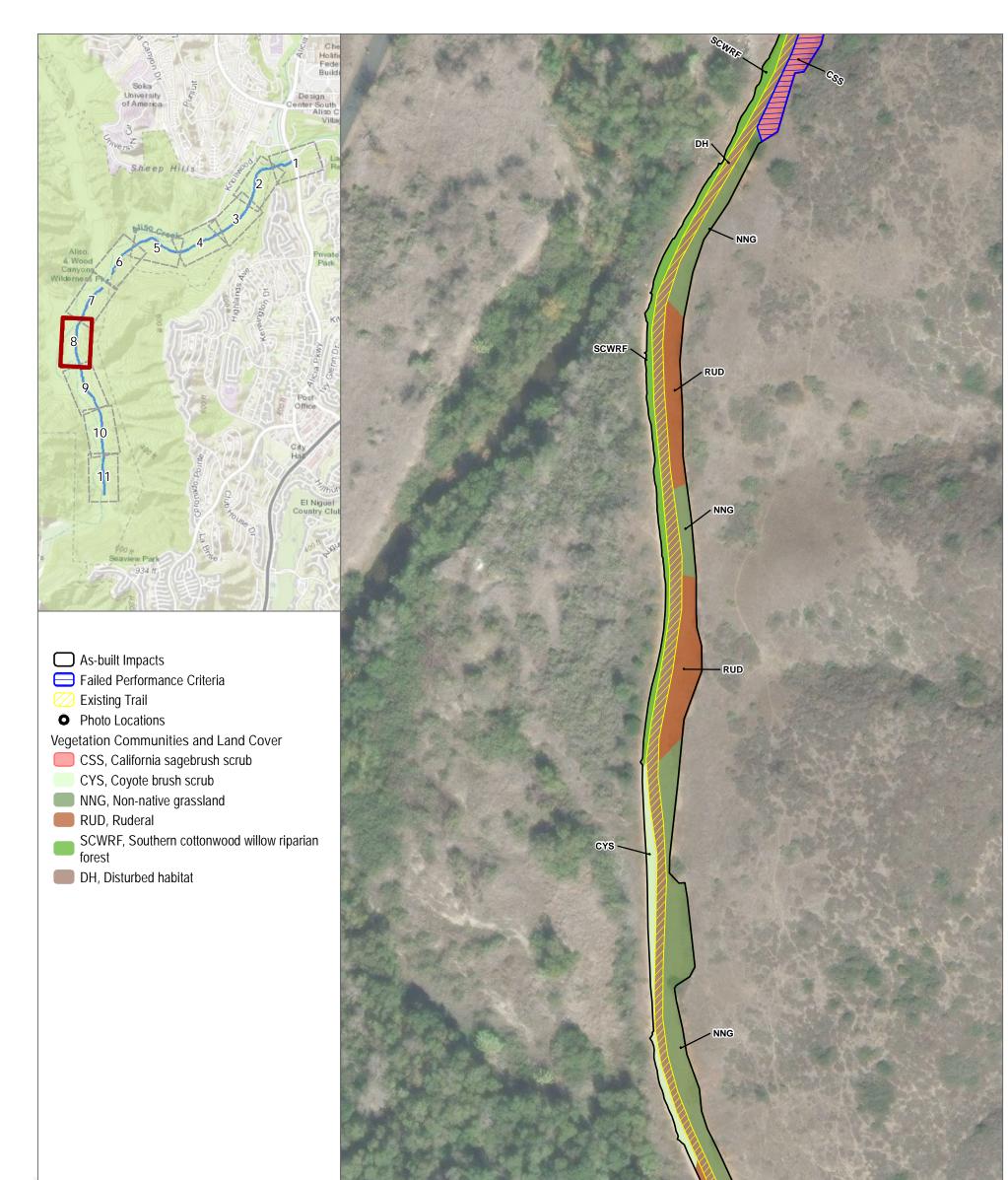
SOURCE: ESRI Aerial Imagrey (accessed 2023)

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FIGURE 1 - VIEW 7 Temporary Impact Revegetation Area Status





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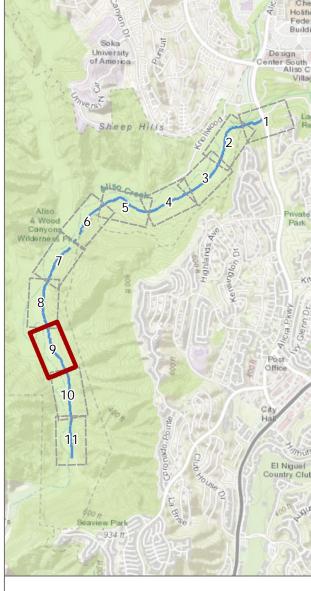
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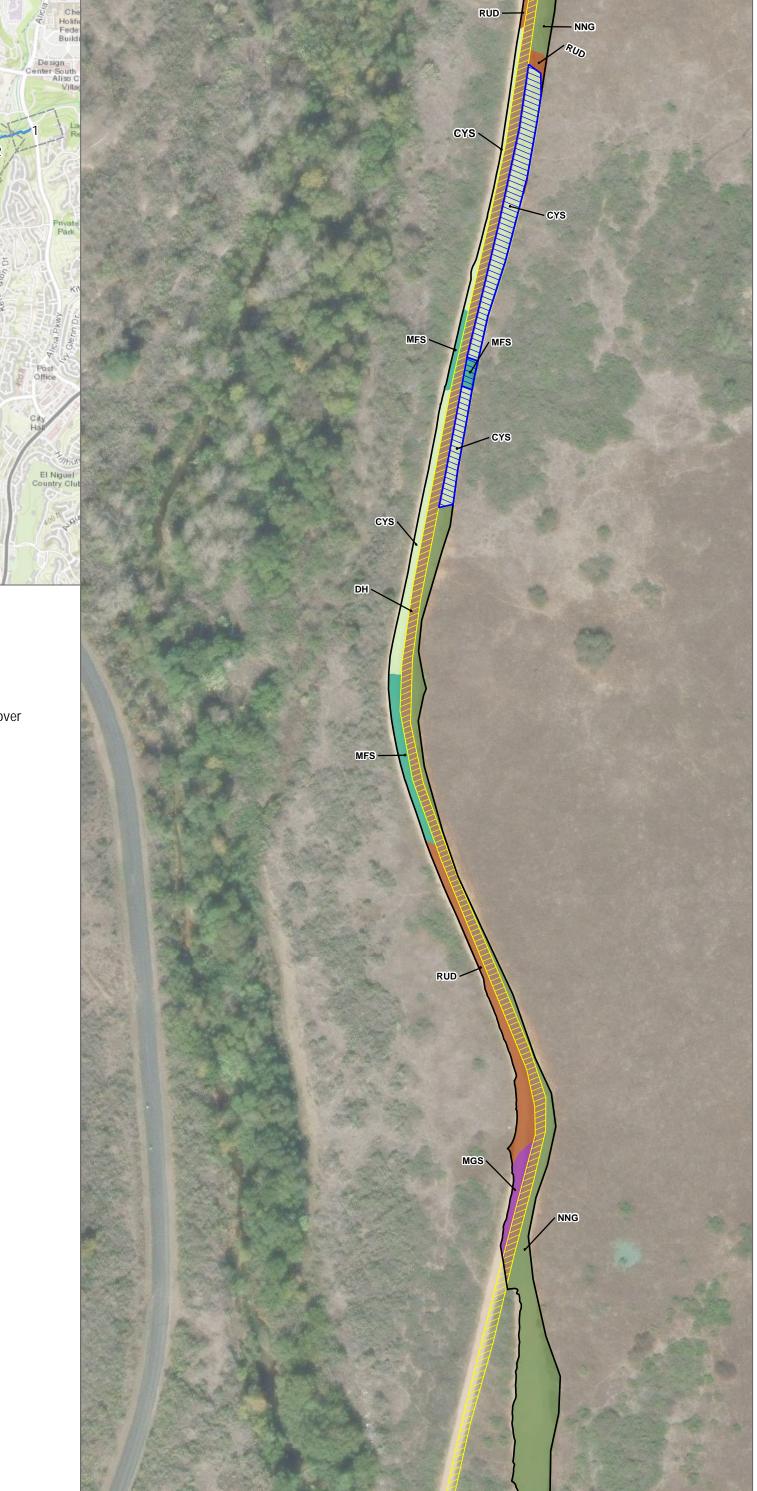
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FIGURE 1 - VIEW 8 Temporary Impact Revegetation Area Status



As-built Impacts
 Failed Performance Criteria
 Existing Trail
 Photo Locations
 Vegetation Communities and Land Cover
 CYS, Coyote brush scrub
 MFS, Mulefat scrub
 MGS, Menzies goldenbush scrub
 NNG, Non-native grassland
 RUD, Ruderal
 DH, Disturbed habitat



SOURCE: ESRI Aerial Imagrey (accessed 2023)

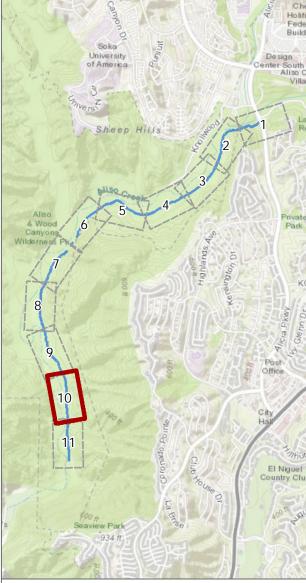
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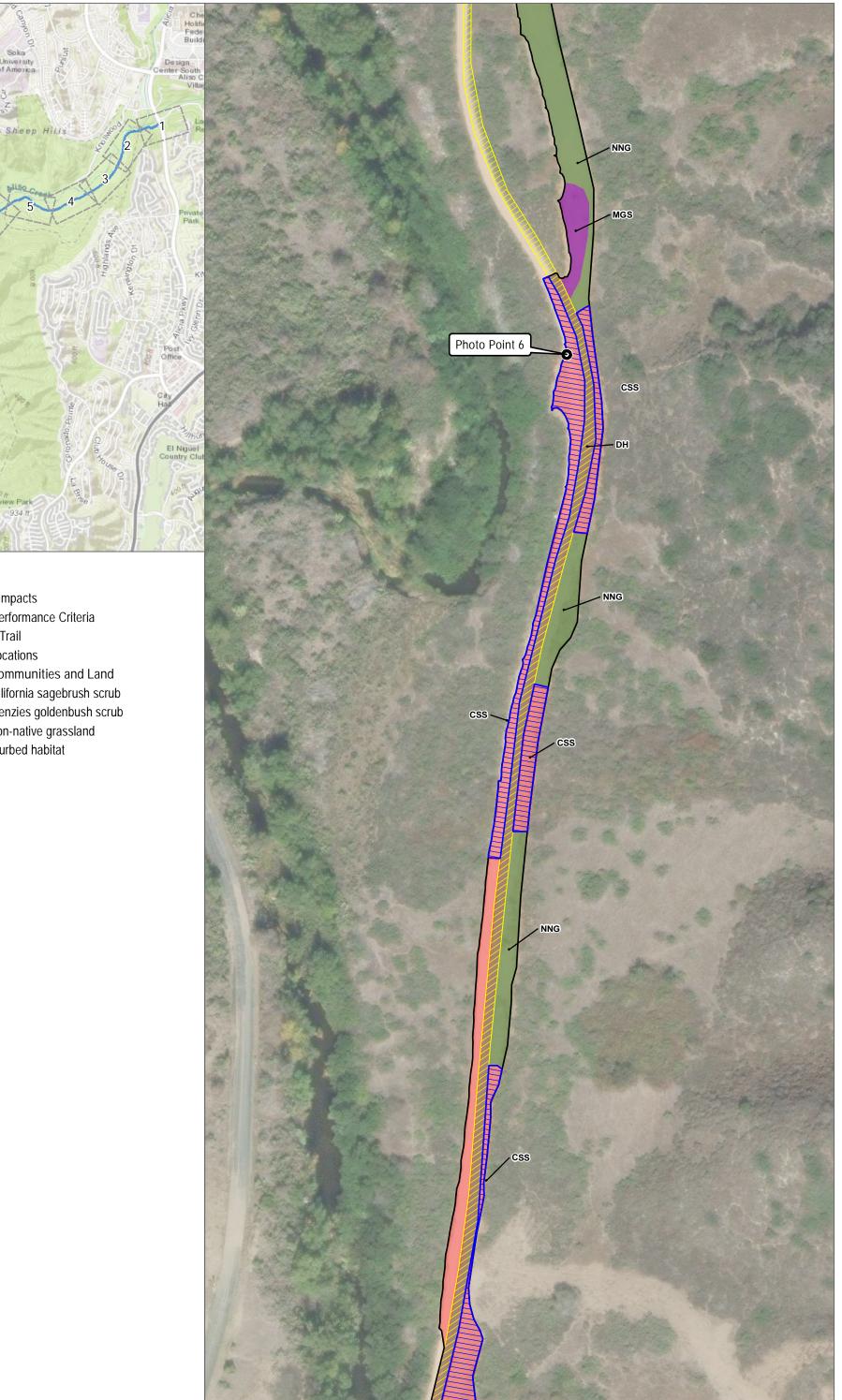
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FIGURE 1 - VIEW 9 Temporary Impact Revegetation Area Status



As-built Impacts Failed Performance Criteria • Photo Locations Vegetation Communities and Land CSS, California sagebrush scrub MGS, Menzies goldenbush scrub NNG, Non-native grassland DH, Disturbed habitat



233

SOURCE: ESRI Aerial Imagrey (accessed 2023)

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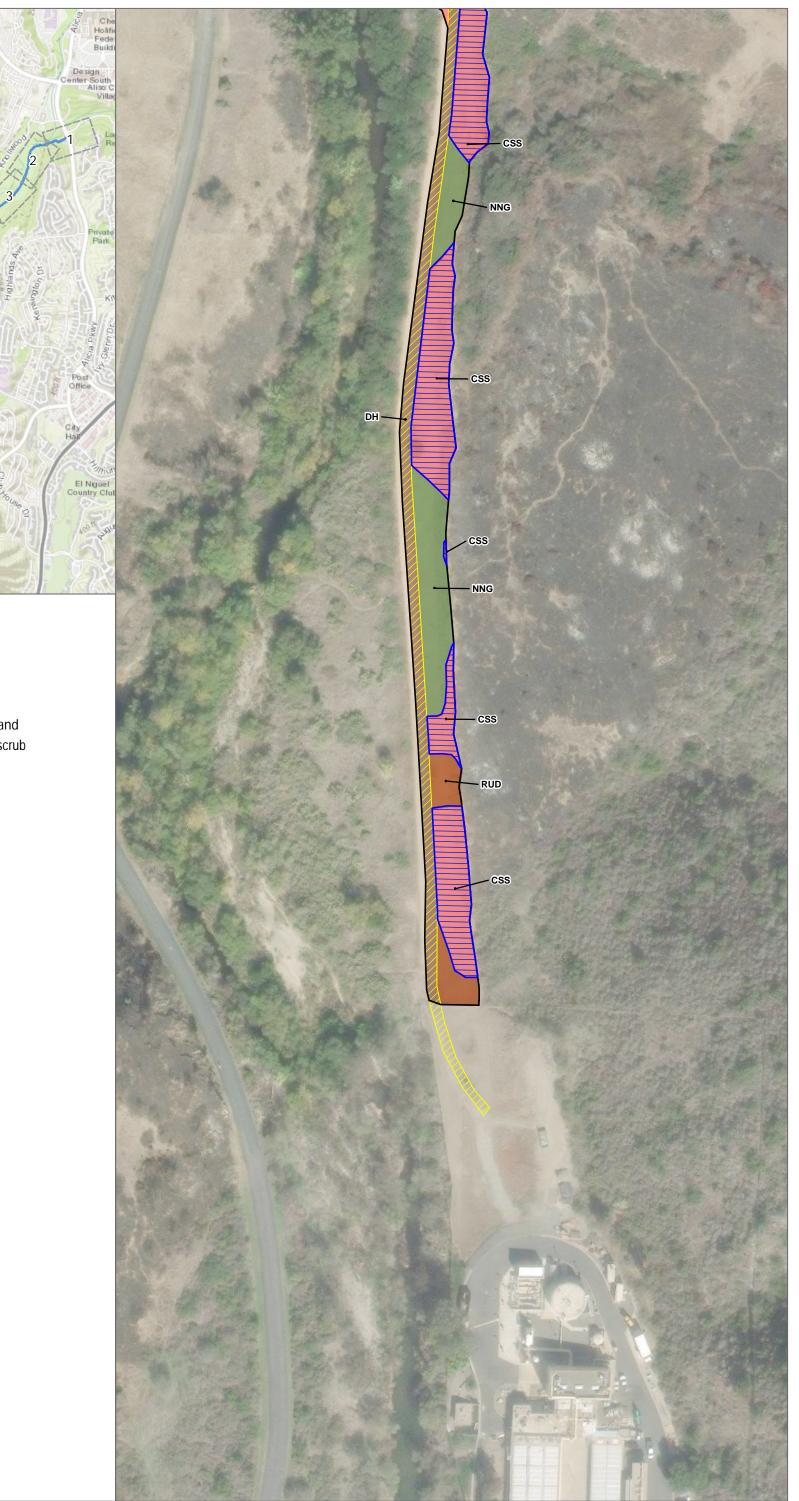
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FIGURE 1 - VIEW 10 Temporary Impact Revegetation Area Status



As-built Impacts
 Failed Performance Criteria
 Existing Trail
 Photo Locations
 Vegetation Communities and Land
 CSS, California sagebrush scrub
 NNG, Non-native grassland
 RUD, Ruderal
 DH, Disturbed habitat



SOURCE: ESRI Aerial Imagrey (accessed 2023)

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FIGURE 1 - VIEW 11 Temporary Impact Revegetation Area Status

DUDEK 2024 Standard Schedule of Charges

Engineering Services

Lingineering Services	
Project Director	\$335.00/hr
Principal Engineer III	\$310.00/hr
Principal Engineer II	\$290.00/hr
Principal Engineer I	\$280.00/hr
Program Manager	\$265.00/hr
Senior Project Manager	\$265.00/hr
Project Manager	\$255.00/hr
Senior Engineer III	\$250.00/hr
Senior Engineer II	\$240.00/hr
Senior Engineer I	\$230.00/hr
Project Engineer IV/Technician IV	\$220.00/hr
Project Engineer III/Technician III	\$210.00/hr
Project Engineer II/Technician II	\$200.00/hr
Project Engineer I/Technician I	\$180.00/hr
3D Production Manager	\$210.00/hr
Senior Designer II	\$200.00/hr
Senior Designer I	\$195.00/hr
Designer	\$185.00/hr
Assistant Designer	\$180.00/hr
CADD Operator III	\$175.00/hr
CADD Operator II	\$165.00/hr
CADD Operator I	\$145.00/hr
CADD Drafter	\$135.00/hr
CADD Technician	\$120.00/hr
Project Coordinator	\$155.00/hr
Engineering Assistant	\$125.00/hr

Environmental Services

Senior Project Director	\$330.00/hr
Project Director	\$285.00/hr
Senior Specialist V	\$260.00/hr
Senior Specialist IV	
Senior Specialist III	
Senior Specialist II	\$225.00/hr
Senior Specialist I	
Specialist V	
Specialist IV	. ,
Specialist III	,
Specialist II	. ,
Specialist I	
Analyst V	\$145.00/hr
Analyst IV	
Analyst III	. ,
Analyst II	. ,
Analyst I	\$105.00/hr
Technician III	
Technician II	\$90.00/11
Technician I	\$80.00/11
	φ70.00/Π

Mapping and Surveying Services

Application Developer II	\$220.00/hr
Application Developer I	\$155.00/hr
GIS Analyst V	
GIS Analyst IV	\$170.00/hr
GIS Analyst III	\$150.00/hr
GIS Analyst II	
GIS Analyst I	
UAS Pilot	\$145.00/hr
Survey Lead	\$235.00/hr
Survey Manager	\$210.00/hr
Survey Crew Chief	\$165.00/hr
Survey Rod Person	\$120.00/hr
Survey Mapping Technician	\$95.00/hr

Construction Management Services

Principal/Manager	\$195.00/hr
Senior Construction Manager	\$185.00/hr
Senior Project Manager	
Construction Manager	\$175.00/hr
Project Manager	
Resident Engineer	
Construction Engineer	
On-site Owner's Representative	
Prevailing Wage Inspector	
Construction Inspector	,
Administrator/Labor Compliance	

Hvdrogeology/HazWaste Services

ingalogeology/nazwaste bervices	
Project Director	\$335.00/hr
Principal Hydrogeologist/Engineer III	\$310.00/hr
Principal Hydrogeologist/Engineer II	\$300.00/hr
Principal Hydrogeologist/Engineer I	\$290.00/hr
Senior Hydrogeologist V/Engineer V	\$265.00/hr
Senior Hydrogeologist IV/Engineer IV	\$255.00/hr
Senior Hydrogeologist III/Engineer III	\$245.00/hr
Senior Hydrogeologist II/Engineer II	
Senior Hydrogeologist I/Engineer I	\$225.00/hr
Project Hydrogeologist V/Engineer V	\$215.00/hr
Project Hydrogeologist IV/Engineer IV	\$205.00/hr
Project Hydrogeologist III/Engineer III	\$195.00/hr
Project Hydrogeologist II/Engineer II	\$185.00/hr
Project Hydrogeologist I/Engineer I	\$175.00/hr
Hydrogeologist/Engineering Assistant	\$140.00/hr
HazMat Field Technician	\$125.00/hr

District Management & Operations

District General Manager	\$230.00/hr
District Engineer	\$215.00/hr
Operations Manager	\$165.00/hr
District Secretary/Accountant	\$145.00/hr
Collections System Manager	\$145.00/hr
Grade V Operator	\$135.00/hr
Grade IV Operator	\$115.00/hr
Grade III Operator	\$110.00/hr
Grade II Operator	\$90.00/hr
Grade I Operator	\$80.00/hr
Operator in Training	\$75.00/hr
Collection Maintenance Worker	\$80.00/hr

Creative Services

Creative Services IV	\$175.00/hr
Creative Services III	\$150.00/hr
Creative Services II	\$140.00/hr
Creative Services I	

Publications Services

Technical Editor IV	\$175.00/hr
Technical Editor III	\$150.00/hr
Technical Editor II	\$140.00/hr
Technical Editor I	\$125.00/hr
Publications Specialist IV	\$130.00/hr
Publications Specialist III	\$115.00/hr
Publications Specialist II	\$110.00/hr
Publications Specialist I	\$100.00/hr
Clerical Administration	\$90.00/hr

Expert Witness – Court appearances, depositions, and interrogatories as expert witness will be billed at 2.00 times normal rates. Emergency and Holidays – Minimum charge of two hours will be billed at 1.75 times the

Material and Outside Services – Subcontractors, rental of special equipment, special reproductions and blueprinting, outside data processing and computer services, etc.,

are charged at 1.15 times the direct cost. **Travel Expenses** – Mileage at current IRS allowable rates. Per diem where overnight stay is involved is charged at cost

Invoices, Late Charges – All fees will be billed to Client monthly and shall be due and payable upon receipt. Invoices are delinquent if not paid within 30 days from the date of the invoice. Client agrees to pay interest at a 10% annual rate for amounts unpaid

greater than 30 days after the date of the invoice. Annual Increases – Unless identified otherwise, these standard rates will increase in line with the CPI-U for the nearest urban area per the Department of Labor Statistics to where the work is being completed) or by 3% annually, whichever is higher. **Prevailing Wage –** The rates listed above assume prevailing wage rates do not apply. If

this assumption is incorrect Dudek reserves the right to adjust its rates accordingly.



Agenda Item

6.D.

Board of Directors Meeting Date: August 8, 2024

то:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	Coastal Treatment Plant (CTP) Funding Plan Implementation [Project Committee 15]

Overview

SOCWA has been working with Hazen to develop a CTP funding strategy and implementation plan. The final report and findings were presented at the February Engineering Committee Meeting and March Board Meeting. The Engineering Committee recommended obtaining a cost proposal from Hazen to identify specific funding sources and projects as the next step.

The Phase 2 Funding Strategy Plan implementation scope of work includes the following:

- Develop a funding implementation work plan.
- Develop and submit a US Bureau of Reclamation (Reclamation)WaterSmart Planning and Design Grant Application.
- Develop and submit a Water Infrastructure and Innovation Act (WIFIA) loan application.
- Develop and submit FEMA Building Resilient Infrastructure and Communities (BRIC) grant application.
- Develop and submit an Environmental Protection Agency (EPA) climate-resilient pollution reduction grant or Reclamation WaterSmart Grant.
- Funding Dashboard
- Project Management

Hazen's proposed fee for the implementation of the Phase 2 Funding Strategy Plan is \$150,000. For reference, the Phase 1 fee was \$30,140.

SOCWA staff obtained a list of agencies that have implemented similar programs, and those agencies have been successful in attaining grant funding. Table 1 shows a snapshot of the funding experience in the past year:

Table 1: Snapshot of Hazen's Funding Experience in the Past Year

Project Name and Location	Funding Amount
The Water Replenishment District, Brackish Groundwater Reclamation Program, Lakewood, CA	\$167,000,000
Union Sanitary District, Enhanced Treatment and Site Upgrades, Union City, CA	\$290,000,000
Town of Windsor, Regional Biosolids Handling Facility, Windsor, CA	\$150,000,000
Chino Basin Desalter Authority, Phase 3 Expansion, Chino, CA	\$80,000,000
San Gabriel Valley Municipal Water District, Non-Functional Turf Replacement and Well Improvements, Azusa, CA	\$10,000,000
San Francisco Public Utilities Commission, Ocean Beach Climate Resilience Program, San Francisco, CA	\$50,000,000
City/County of San Mateo Governments, San Mateo, CA	\$50,000,000

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed by the Engineering Committee on June 13, 2024.

Cost Allocation

The proposed fee from Hazen is \$150,000 for the CTP Funding Plan Implementation. Table 1 shows the allocation of costs by member agency.

Agency	Cost
City of Laguna Beach	\$56,865.67
Emerald Bay Service District	\$4,477.61
Moulton Niguel Water District	\$43,880.60
South Coast Water District	\$44,776.12
Total	\$150,000.00

Table 2 – Cost Allocation by Member Agency

Budget

The Fiscal Year 23/24 budget for 452410L is \$52,500, with an available fund of \$12,800. Staff is requesting an additional \$150,000 to the project budget for a revised total budget of \$202,500.

Recommended Action: The Engineering Committee recommends that the PC 15 Board i) approve the amended contract to Hazen for a total not to exceed \$150,000 and ii) Approve an additional \$150,000 to the project budget for the CTP Funding Plan Implementation.





Coastal Treatment Plant Resiliency and Water Quality Improvements

Phase 2 Funding Strategy Plan Implementation



Hazen and Sawyer 800 W. 6th Street, Suite 400 Los Angeles, CA 90017 • 213.234.1080

April 24, 2024 *revised July 15, 2024*

South Orange County Wastewater Authority Attn: Jim Burror 34156 Del Obispo Street Dana Point, CA 92629

South Orange County Wastewater Authority Coastal Treatment Plant Resiliency and Water Quality Improvements – Phase 2 Funding Strategy Plan Implementation

Dear Jim,

Hazen is pleased to submit this proposal as the implementation phase of the South Orange County Wastewater Authority (SOCWA) Coastal Treatment Plant – Resiliency and Water Quality Improvement Funding Strategy (CTP Strategy). The CTP Strategy was submitted to SOCWA's Board of Directors (Board) on January 29, 2024, and approved by the Board on April 4, 2024. This second phase of the project will involve developing and submitting funding applications that SOCWA has the greatest chance of funding success and leverage both loans and grants to meet the funding goals for the design and construction of the CTP Resiliency and Water Quality Improvement project(s).

Hazen offers an experienced multidisciplinary team with extensive grant and loan funding success from state, local, and federal sources. We understand funding priorities and have decades of relationships with the agencies distributing those funds. We also bring financial analysis, environmental compliance, and project design engineers—the technical support required to develop a competitive loan or grant application.

The project will build off the approved funding strategy, focusing on applying for WIFIA funding, maximizing available grant funding, and setting a feasible and tangible path to garner funding aligned with SOCWA's design and construction timeline.

Our team is organized to efficiently meet your specific technical, schedule, and budget constraints, and we are prepared to initiate funding work immediately. Below are some of the benefits our team brings to SOCWA. Funding Assistance Secured by Hazen over the Past 10 Years

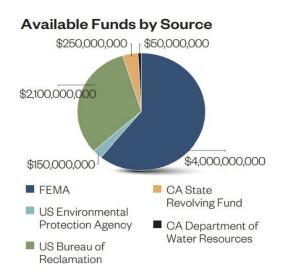


Total Funding Amount



Experienced Project Manager & Funding Expert:

Our Project Manager, Lisa Hulette, MBA, brings over 20 years of funding experience in the western United States. She has worked closely with state resource agencies to develop grant guidelines and has a remarkable success rate in securing grant awards. Lisa's expertise extends beyond her direct work, as she has been a key participant in federal public grant review committees for the past decade. Her deep understanding of funding, strategic grant insight, and full compliance knowledge make her a valuable asset to our team. President Joseph Biden announced one of her recent grant awards during a press conference, showcasing how an agency can creatively respond to a critical infrastructure issue following a natural disaster and then leverage federal funding to solve the problem.



Full-Service Team: Hazen's team includes Dave Jones, PE, who is widely recognized as an industry leader in water infrastructure planning design and familiarity with SOCWA; Mary Hambel, PE, brings additional local knowledge and funding expertise; and Trapa Barua, AICP, is fluent in all aspects of environmental compliance and permitting requirements that are part of all funding applications. Our team has a close working relationship with each other, which supports cohesive and responsive delivery. Depending on the complexity of the grant or loan application, Hazen may utilize the services of our inhouse GIS team for grant-specific maps, an economist for any water monetization requirements of the future cost of water, and our construction cost estimator.

Hazen previously entered into a contract utilizing SOCWA's standard professional services contract. We understand SOCWA's processes and are confident that we can secure funding for this project and provide the high level of service Hazen is known for.

Please call if you have any questions about our proposal. We look forward to working with you.

Very sincerely yours,

Dave Jones, PE

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Lisa Hulette



Scope of Work

This scope of work has been developed as the implementation component of the SOCWA CTP Coastal Resiliency Funding Strategy Plan (Funding Plan). Our focus is on balancing grants and loans to implement the CTP Program.

Hazen will provide template letters of support, board resolutions, standard funding forms, and registrations for submission to funding agencies.

Task 1: Develop a Funding Implementation Workplan. Hazen, in collaboration with SOCWA, will develop a funding workplan that establishes when information will be needed from SOCWA (e.g., Data, Board Resolutions, Letters of Support, etc.), the funding goal for each opportunity, the impact of funding on rates, the timing of each deliverable, and the anticipated date of award.

L- Submittal Deadline: Within 30 days of the Notice to Proceed

Task 2: Develop and submit a US Bureau of Reclamation (Reclamation) WaterSmart Drought Resiliency Project This task will run concurrently with task 1. The purpose of this grant opportunity is two-fold: to receive design funds and implementation funding and to have a Reclamation-approved design that will meet all Reclamation requirements for a construction application.

¹ Submittal Deadline to Reclamation: November 30, 2024¹

Task 3: Develop and Submit a Water Infrastructure and Innovation Act (WIFIA) Loan Application.

This task will begin on completion of the funding work plan. Hazen will work with SOCWA to develop a WIFIA loan application to bring money to launch the CTP Program and provide local costshare for state and federal grant applications. This task includes coordination with EPA WIFIA staff, writing the Letter of Intent (LOI), and developing the WIFIA application. The application submittal date is an estimate based on the typical time for the EPA to approve the LOI.

LOI Submittal to EPA: September 30, 2024

Application Submittal EPA: January 5, 2025

¹ If the contract is not signed within two weeks of the Reclamation Planning Grant 2024 deadline, then other design grants may be considered



Task 4. Develop and Submit FEMA Building Resilient Infrastructure and Communities (BRIC) Grant Application.

CalOES is the primary grantee to FEMA's BRIC grant program. SOCWA will apply as a subapplicant to CalOES. Hazen will work with SOCWA to develop a competitive two-phased BRIC grant Notice of Intent and subsequent application for submittal to CalOES. A two-phased grant allows SOCWA to utilize federal grant funding for design, environmental compliance, and construction. We will develop a strategic & competitive grant, which includes a benefit-cost analysis. The budget for the task consists of CalOES Requests for Information (RFI), a standard part of the application, but does not include any federal RFI's that may be required.

NOI Submittal: September 30, 2024

Application Submittal: December 31, 2024

Task 5. Develop and Submit Environmental Protection Agency (EPA) Climate Resilient Pollution Reduction Grant or US Bureau of Reclamation (Reclamation)

WaterSmart Grant Hazen will develop and submit either an EPA or USBR WaterSmart grant application. The decision on which application to submit will depend on the construction schedule, the timing of

the funding need, and the release of the grant Notice of Funding Opportunity (NOFO).

Application Submittal: Dependent on the timing of EPA or Reclamation NOFO release schedule and the construction timing established in Task 1.

Task 6. Funding Dashboard. The funding dashboard displays funding goals for the CTP Program identified in Task 1, including applications submitted from Tasks 2-5, new opportunities, and progress toward the goal.

Dashboard Completion: Within 60 days of Notice to Proceed and 30 days after Task 1 is complete. The dashboard will be updated every other month throughout the project.

Task 7. Project Management. This task includes refining the scope and schedule, managing the project, documenting quality assurance reviews, and conducting monthly update meetings. It will run for the duration of the project.



Potential Future Tasks

The following tasks are **not** included in this scope and fee but may be desired by SOCWA. If approved by SOCWA, Hazen will consist of the following additional tasks to the funding strategy.

- Environmental Compliance Documentation. Hazen has a full-service environmental compliance team and can prepare the required California Environmental Quality Act (CEQA) and/or a CEQA+ document that complies with both CEQA and the National Environmental Quality Act (NEPA) at SOCWA's request.
- Additional Grant Opportunities. New grant opportunities not in the Funding Plan will be shared with SOCWA at monthly update meetings. Grant opportunities that will be considered include a US Bureau of Reclamation WaterSmart WIIN Act Planning Grant (expected release date of NOFO is December 2024) and potential Department of Energy Investment Tax Credits (e.g., Grant to SOCWA).

Deliverables

Hazen will deliver the following items as part of this project:

- Funding work plan that aligns with the timing of the design and construction schedule
- Draft and Final version of the USBR WaterSmart Planning Grant
- Draft and Final version of FEMA BRIC Grant, including benefit-cost analysis
- Draft and Final version of EPA or USBR WaterSmart grant application, depending on the timing of construction and release of grant NOFO.
- Funding Dashboard



Proposed Fee

The rate schedule is attached.

The total fee will not exceed \$150,000 without further authorization. We will invoice each task on a lump sum basis based on the percent complete. Estimated fees for each task are summarized in Table 1. Due to the nature of competitive grants and the agency request for information process, costs for each task may fluctuate, but Hazen will confirm any changes with SOCWA before proceeding.

Estimated Fees

Table 1: SOCWA Funding Implementation

Task and Description	Estimated Fee
Task 1. Funding Workplan	\$ 5,000
Task 2. Reclamation WaterSmart Drought Resiliency Project Grant	\$20,000
Task 3. WIFIA Application	\$30,000
Task 4. FEMA BRIC Application	\$45,000
Task 5. EPA Climate Resiliency or Reclamation WaterSmart Grant	\$30,000
Task 6. Funding Dashboard	\$10,000
Task 7. Project Management and Quality Control	\$10,000

Schedule

We will begin this project within 30 days of authorization to proceed and estimate completion within 12 months. This schedule may change depending on unexpected funding agency changes or the timing of SOCWA's design and/or construction schedule.



Hazen and Sawyer July 2024 - June 2025 Rate Schedule

Classifications	Hourly Rates
Principal-in-Charge, Vice President, Associate Vice President	\$265-360
Senior Project Manager, Senior Construction Manager, Technical Advisor, QA/QC Manager	\$240 -345
Project Manager, CAD/BIM Manager	\$185-270
Construction Manager, Resident Engineer	\$155-290
Senior Associate, Associate	\$220-315
Senior Project Engineer, Senior Principal Engineer, Senior Project Architect/Landscape Architect, Senior Land Surveyor	\$165-275
Project Engineer, Principal Engineer, Project Architect/Landscape Architect, Project Land Surveyor	\$155-215
Professional Engineer, Engineer, Land Surveyor, Architect/Landscape Architect	\$145-205
Inspector	\$150-235
Engineer-in-Training, Civil Engineering Designer	\$130-180
CAD/BIM Designer/Technician, GIS Professional	\$100-220
Engineering Assistant	\$130-180
Administrative Assistant, Project Administrator/Coordinator	\$100-170
Two-man Survey Crew (per Hour/Day)	
Ground Penetrating Radar Utility Locating Crew (Per Hour/Day)	
Reimbursable Charges	Rates
Mileage	IRS Rate
Consumable Charge	\$6/hour
Prints, Plots, Messenger Services and other direct expenses markup	Cost + 10%
Outside Consultant Services Markup	10%
Traffic Control	
Other	Cost + 10%

Fiscal year billing rate increase is 3%.

Agenda Item

6.E.

Board of Directors Meeting Meeting Date: August 8, 2024

то:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	Contract Award for Effluent Transmission Reaches D and E Main Air Valves Bidding and Engineering Services During Construction [Project Committee 21]

Overview

SOCWA retained Tetra Tech, Inc. to perform a condition assessment on the Effluent Transmission Main (ETM) Reaches D and E air valves in 2020. This is because the ETM air valves were installed in 1978 and were showing signs of deterioration.

The outcome of the condition assessment was a recommendation to replace a number of the air valves and some of the associated piping that was in poor condition. Tetra Tech, Inc. was subsequently awarded the design project to rehabilitate the air valves and has completed the final design. The project includes the replacement of four (4) air valves and appurtenances within Reach D, as well as five (5) air valves and appurtenances within Reach E.

The project is now entering the bidding and construction phase. SOCWA requested that Tetra Tech, Inc. provide a fee proposal for the bidding and engineering services during construction (ESDC). The Engineer's cost estimate for the construction is \$520,000.

Tetra Tech submitted the attached proposal for bidding and ESDC services. The proposed fee is \$5,000 for the bidding support services and \$42,500 for the ESDC services, totaling \$47,500. The scope of work includes the following:

- Bidding Support Services: Respond to questions during bidding, attend pre-bid conference, and prepare addenda as needed.
- ESDC Services: Coordination, construction-related meetings, shop drawing reviews, Request for Information (RFI) responses, minor plan revisions, and record drawings preparation.

Prior Related Project Committee or Board Action (s)

This item was reviewed by the Engineering Committee on June 13, 2024.

Cost Allocation

The Reach D Air Valve Replacement Construction will be funded by 3107 and has available funds of \$213,000 for the 23/24 fiscal year. The Reach E Air Valve Replacement Construction will be funded by 3108 and has available funds of \$162,000 for the 23/24 fiscal year.

Table 1 shows the project allocation, and Table 2 shows the allocation by member agency.

Table 1 – Project Allocation

Project	Bidding and
	ESDC Services
PC 21, Task 3107, Reach D Air Valve Replacement	\$20,900
PC 21, Task 3108, Reach E Air Valve Replacement	\$26,600
Total	\$47,500

Table 2 – Allocation by Member Agency

Member Agency	PC 21, Task	PC 21, Task
	3107	3108
El Toro Water District	\$10,450	\$6,195
Irvine Ranch Water District	\$10,450	\$6,195
Moulton Niguel Water District		\$14,210
Total	\$20,900	\$26,600

Recommended Action: The Engineering Committee recommends that the PC 21 Board of Directors approve the contract to Tetra Tech in the amount of \$47,500 for the bidding and ESDC services for the ETM Reaches D and E Air Valve Replacement project.



May 22, 2024

Transmitted via E-mail: rgrant@socwa.com

Ms. Roni Young Grant, PMP Associate Engineer South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92629

Reference:ETM Reaches D & E Air Valve ReplacementBidding and Construction Support Services Proposal

Dear Ms. Grant:

Since December 2020, Tetra Tech has worked on SOCWA's Effluent Transmission Main (ETM) Reach D & Reach E Air Valve Condition Assessment project, including preparation of a detailed technical memorandum and construction plans/specifications. The project is now at a stage where the final bid set is imminent and SOCWA has asked Tetra Tech to prepare a proposal for the bidding and construction support services during construction.

BACKGROUND

The air valves and air service piping between the ETM and air valve are original to the ETM facility. Given their age and as confirmed during the condition assessment stage, Tetra Tech recommended replacing the air valve service line and isolation valve located at the top of the ETM pipe per a typical air valve detail. The main advantage of this replacement alternative is that the buried butterfly valve will be replaced, and the air valve could once again be used for isolation during the annual air valve maintenance cycle.

The construction package includes the replacement work for nine (9) locations. Six (6) of the locations are within the Aliso Creek Critical Coastal Area and require a permit from the California Coastal Commission (CCC), which SOCWA will obtain before the start of construction.

SCOPE OF WORK

The following is our proposed scope and fee for the work effort.

1.0 Bidding Support Services

- A. Tetra Tech will assist SOCWA in answering questions and providing clarifications to the plans and specifications during the bidding phase of the project. We have assumed eight (8) hours of engineering time for this task.
- B. Tetra Tech will attend the pre-bid conference and prepare a Draft of the required addendum along with summary of questions and answers. SOCWA will be responsible for preparing the final addendum and distributing to the bidders. For this proposal, we have assumed one (1) addendum will be required.

2.0 Construction Support Services

- A. Tetra Tech will provide construction support services to SOCWA for the construction phase of the work. Construction support services depend greatly on the Contractor's schedule, the adequacy of his submittals, and the amount of issues/conflicts that arise during the construction of the project. Tetra Tech does not control the amount of the submittals, RFIs or the issues that arise, or the adequacy of the submittals or the additional information requested by the Contractor. Tetra Tech will perform the construction support services on a time and material basis while not exceeding the approved budget for the anticipated level of service noted below.
 - 1. **SOCWA Coordination**: Tetra Tech will coordinate with SOCWA during the construction phase which includes responding to e-mails, phone correspondence, and overall project management. We have assumed a maximum on one hour per month for an eight (8) month construction duration.
 - 2. *Construction/Site Meetings*: Tetra Tech will attend the pre-construction meeting and two (2) other site/visits or meetings during the construction phase.
 - 3. *Shop Drawing Review:* Tetra Tech will review and respond to 20 shop drawings with half of them 10 requiring a second review.
 - 4. *RFI Responses:* Tetra Tech will respond to six (6) Requests for Information (RFI). We have assumed that two (2) of these responses will require a corresponding sketch or exhibit.
 - 5. *Minor Plan Revisions*: Tetra Tech will provide up to 12 hours of staff time for minor plan revisions to the construction drawings.
 - 6. **Record Drawings**: Tetra Tech will prepare record drawings based on the Contractor's and SOCWA's mark-up drawings. One reduced (11"x17") plan set will be submitted for review by SOCWA. After SOCWA's review and approval, the record drawing set will be submitted which will include signed mylars and a CD containing the electronic drawing files.

Exclusions:

• Inspection Services

FEE

Tetra Tech is pleased to submit this proposal to provide the above scope of services for the following not-to-exceed amount.

Task No.	Description of Task	Budget Fee
1.0	Bidding Assistance	\$ 5,000
2.0	Construction Support Services	\$ 42,500
	Total Not-to-Exceed Fee	\$ 47,500

We have also included the estimated person-hours and corresponding fee breakdown per subtask. Attached is our hourly rate schedule. If you have any questions or require additional information, please do not hesitate to call.

Ms. Roni Grant, PMP, Associate Engineer May 22, 2024

Sincerely,

10m Epn

Tom Epperson, P.E. Vice President

TLE/ng Attachment

M:\Marketing\Proposals\FY 2024\SOCWA_ETM CM Services Proposal

T- Drico Droposal			La	bor Pla	an		Price Sumr	nary / Totals	6
Te Price Proposal		5 Resource			Task Pricing Totals		47,500		
SOCWA ETM-Bidding and CM Services							Specify Add	'l Fees on Setup	0
							Techno	ology Use Fee	
			er 11	a , 11	o	a :		••	
SOCWA ETM Air Valves- Bid and Construction Phase Services	Proj Area >	Civil	Civil	Civil	Civil	Civil		Total Price	47,500
Submitted to: SOCWA (Attn: Roni Grant)									
			anager	2			Prici	Pricing by Resource	
Contract Type: T&M NTE		Project Manager (Tom Epperson)	Senior Project Manager (Neha Gajjar)	Project Engineer (Erica Jenkins)	Sr Engineer 2 (Cory Heggtveit)	er 2 Clark)			
	Total	Epp Epp	a Ga	ct E Jen	gine He	n Cl	ľ		Task Pricing
	Labor Hrs	roje Tom	enic Neh	Proje Erica	Sr Engineer 2 (Cory Heggtw	Engineer (Justin Cl	Labor	ODCs	Totals
Project Phases / Tasks	255	2	42	78	42	91	46,835	665	47,500
Task 1000: Bid & CM Support Services	255	2	42	78	42	91	46,835	665	47,500
1001- Bid Support Services	28	-	4	4	6	14	4,810	190	5,000
A. Respond to Questions/Provide Clarifications	8		2	2	2	2	1,620		1,620
B. Attend Pre-Bid/Prepare Addendum with Q&A Summary	20		2	2	4	12	3,190	190	3,380
1002- Construction Support Services	227	2	38	74	36	77	42,025	475	42,500
A. SOCWA Coordination (for 8 months total)	8		8				2,440		2,440
B. Construction/Site Meeting (3 total)	10		4	6			2,300	330	2,630
C. Shop Drawing Review (20/10 total)	75	2	8	20	30	15	14,765		14,765
D. RFI Responses (6 total)	18		2	4	6	6	3,280		3,280
E. Minor Plan Revisions (12 hours total)	12			4		8	1,640		1,640
F. Record Plans	104		16	40		48	17,600	145	17,745
Totals	255	2	42	78	42	91	46,835	665	47,500



Exhibit A

2024

HOURLY CHARGE RATE AND EXPENSE REIMBURSEMENT SCHEDULE

Project Management		Construction	
Project Manager 1	\$220.00	Construction Project Rep 1	\$80.00
Project Manager 2	\$260.00	Construction Project Rep 2	\$90.00
Sr Project Manager	\$305.00	Sr Constr Project Rep 1	\$110.00
Program Manager	\$340.00	Sr Constr Project Rep 2	\$120.00
Principal in Charge	\$340.00	Construction Manager 1	\$170.00
		Construction Manager 2	\$190.00
Engineers		Construction Director	\$235.00
Engineering Technician	\$65.00		
Engineer 1	\$105.00	General & Administrative	
Engineer 2	\$115.00	Project Assistant 1	\$67.00
Engineer 3	\$130.00	Project Assistant 2	\$75.00
Project Engineer 1	\$150.00	Project Administrator	\$95.00
Project Coordinator	\$175.00	Sr Project Administrator	\$120.00
Project Engineer 2	\$165.00	Graphic Artist	\$130.00
Sr Engineer 1	\$175.00	Technical Writer 1	\$97.00
Sr Engineer 2	\$185.00	Technical Writer 2	\$124.00
Sr Engineer 3	\$210.00	Sr Technical Writer	\$155.00
Principal Engineer	\$300.00		
Planners		Information Technology	
Planner 1	\$104.00	Systems Analyst / Programmer 1	\$77.00
Planner 2	\$115.00	Systems Analyst / Programmer 2	\$115.00
Sr Planner 1	\$125.00	Sr Sys Analyst / Programmer 1	\$130.00
Sr Planner 2	\$151.00	Sr Systems Analyst / Programmer 2	\$196.00
Sr Planner 3	\$175.00		7
	1	Project Accounting	
Designers & Technicians		Project Analyst 1	\$90.00
CAD Technician 1	\$65.00	Project Analyst 2	\$114.00
CAD Technician 2	\$75.00	Sr Project Analyst	\$155.00
CAD Technician 3	\$90.00		
CAD Designer	\$105.00	Reimbursable In-House Costs:	
Sr CAD Designer 1	\$125.00	Photo Copies (B&W 8.5"x11")	\$ 0.15/Each
Sr CAD Designer 2	\$150.00	Photo Copies (B&W 11"x17")	\$ 0.40/Each
CAD Director	\$155.00	Color Copies (up to 8.5"x11")	\$ 2.00/Each
Survey Tech 1	\$50.00	Color Copies (to 11"x17")	\$ 3.00/Each
		Compact Discs	\$10/each
		Large format copies	\$0.40 S.F.
Health & Safety		Mileage-Company Vehicle	\$0.80/mile
H&S Administrator	\$95.00	Mileage-POV	\$0.55/mile*
Sr H&S Administrator	\$115.00	*current GSA POV mileage rate subject to	change
H&S Manager	\$145.00		

All other direct costs, such as production, special photography, postage, delivery services, overnight mail, printing and any other services performed by subcontractor will be billed at cost plus 15%.

Agenda Item

6.F.

Board of Directors Meeting Meeting Date: August 8, 2024

TO:	Board of Directors
FROM:	Jim Burror, Acting General Manager/Director of Operations
STAFF CONTACT:	Roni Grant, Associate Engineer
SUBJECT:	Contract Award for Coastal Treatment Plant (CTP) West Primary and Secondary Scum Skimming System Pre-Procurement [Project Committee 15]

Overview

The Coastal Treatment Plant (CTP) consists of three west primary sedimentation basins and three west secondary sedimentation basins as part of the original 1982 construction. The scum skimming system, including scum skimmers, troughs, and beaches, is severely corroded and is at the end of its useful life and in need of replacement. The existing equipment is also no longer supported by GMI, and parts are not available for repairs.

SOCWA staff determined that two vendors have equipment that can be installed in the existing basins that match the specifications of the existing equipment. This includes Brentwood Polychem, represented by Coombs Hopkins, and Jim Myers & Sons, represented by Misco Water.

The approximate procurement time is 20 to 36 weeks. Thus, SOCWA staff recommends prepurchasing the scum skimming systems. Construction installation bidding to install the equipment would occur once the equipment is onsite to reduce the contractor's overhead costs associated with waiting for equipment delivery.

Table 1 shows the summary of the quotes staff requested from the two vendors.

Equipment	Brentwood Polychem	Jim Myers & Sons
West Primary Scum Skimming System	\$494,357	\$764,280
West Secondary Scum Skimming System	\$436,603	\$764,280
Total	\$930,960	\$1,528,560

Table 1 - Summary of Quotes

Prior Related Project Committee or Board Action (s)

This item was discussed at the June 14, 2024 Engineering Committee Meeting.

Cost Allocation

The lower-cost equipment is from Brentwood Polychem for \$930,960. These quotes include sales tax, installation support, and training. Staff is requesting a 10% contingency in the amount of \$93,096, totaling \$1,024,056, to cover delivery and unloading charges. Table 2 shows the allocation of costs by member agency.

Table 2 – Cost Allocation by Member Agency (including 10% contingency)

Agency	Cost
City of Laguna Beach	\$388,224
Emerald Bay Service District	\$30,569
Moulton Niguel Water District	\$299,575
South Coast Water District	\$305,688
Total	\$1,024,056

Budget

The FY 2024-25 budget for Project 35246L (West Primary Sludge Skimmers and Launders/Weirs) is \$500,000. FY 2024-25 budget for Project 35239L (West Secondary Scum Skimmers) is \$600,000. The current project budget of \$1,100,000 is intended for pre-purchasing equipment.

Recommended Action: The Engineering Committee recommends that the PC 15 Board of Directors i) approve a contract with Brentwood Polychem, represented by Coombs Hopkins, for a total of \$930,960 for the Coastal Treatment Plant West Primary and Secondary Scum Skimming Systems, and. ii) approve a contract contingency of 10% in the amount of \$93,096 to cover delivery and unloading charges.



LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

5/29/2024 1 of 13

May 29, 2024

ATTN: Roni Young Grant South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92011 USA Phone: (949) 632-5256 Fax: email: rgrant@socwa.com

Re: Laguna Niguel, CA - SOCWA Coastal TP - West Primary Helical Skimmers Polychem[™] Skimming System

BUDGETARY PROPOSAL

Brentwood Industries, Polychem Brand, proposes and offers to supply all materials and services as an Approved manufacturer and in general accordance with Brentwood's standard practices and specifications, clarifications, and information provided.

TECHNICAL SPECIFICATION(S):	N/A
SECTION(S):	N/A
ADDENDA RECEIVED:	N/A

BRENTWOOD PROPOSES TO FURNISH POLYCHEM SCUM SKIMMING EQUIPMENT AS FOLLOWS:

Three (3) 304 SS Helical Skimmers, with Beach and Trough, Approximately 18-inch Diameter x 16 FT Long

BRENTWOOD PROPOSES TO FURNISH POLYCHEM FRP TROUGH EQUIPMENT AS FOLLOWS:

(9) FRP troughs, (3) in each tank, 12" width x 20" height, 15' long Including Hardware



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

*ITEMS INCLUDED:

DESCRIPTION / MATERIAL
Description / Material
DESCRIPTION / MATERIAL
304 SS
EPDM Rubber
304 SS
Neoprene
304 SS
Cast Iron w/UHMW-PE Lining
Cast Nylon 6 w/set screw
NH78, Reinforced Nylon Resin w/ 303 SS Pins
11T Nylon Sprocket w/ Bronze Insert Mounted to 304 SS Shear Pin Hub
Nylon 6-6 7T Sprocket w/Cast Nylon-6 Arm and FRP Adjustable Mounting Bracket
DPDT, Square D, Alum., NEMA 1,2,4,6,6P,12,13 / Class 1 Div 1 B/C/D, SS Arm
11T Cast Nylon Sprocket on Stainless Steel Hub
304 SS
SEW Eurodrive Helical-Bevel Gearmotor, 1/2HP, 3 Ph, 60 Hz, 230/460 V
304 SS
304 SS
316 SS
As Specified
Hilti



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

*ITEMS INCLUDED (Continued):

ITEM	DESCRIPTION / MATERIAL
FRP Troughs	As Required.
*	Above Item Descriptions/Materials may vary slightly after engineering and consultant review.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

ITEMS SPECIFICALLY NOT INCLUDED

- 1 Control Panel(s)
- 2 Effluent Troughs, Weirs, Baffles
- 3 Spare Parts
- 4 Hold Down Rail, 304 SS
- 5 Tank Measurements
- 6 PE Stamp of Submittals



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

EXISTING CONCRETE STRUCTURE (IF APPLICABLE):

Pricing and schedule are based on limited structural information provided at the time of quotation and assume the necessary existing tank dimensions will be provided by purchaser in a timely manner to facilitate the start of submittals. In lieu of customer supplied tank dimensions, purchaser may elect to procure Brentwood's Tank Measurement services. Should the verified tank dimensions and equipment conditions differ from the information provided for quotation, and/or require special bracketry or supporting structures, Brentwood reserves the right to revise pricing and schedule accordingly. Delays associated with receipt of complete tank measurements, incomplete information from RFI's, and release and approval to manufacture may result in changes to the price and schedule.

TANK MEASUREMENTS:

Tank Measurements are NOT included in this price or proposal, but can be provided and billed per attached published field labor and expense rates. If measurement services are purchased, Brentwood will require the assistance of one (1) person while on site to support tank measurements, and tanks must be completely drained and cleaned before entrance. In addition, customer / contractor shall supply all necessary equipment to safely access tanks (ladders, lighting, etc.). Tank measurement services require a minimum 2 week notice and are based on technician availability.

SUBMITTALS:

Shop drawing and submittal preparation will be in accordance with Brentwood's standard submittal practices, and will be based on one submittal for all tanks at one time. Should separate submittals for each tank be required at separate intervals, Brentwood reserves the right to revise pricing accordingly.

TIME AND DELIVERY:

- 1. Brentwood will furnish initial submittal drawings approximately twelve to fourteen (12-14) weeks after receipt of executed purchase order and field verified structural dimensions and information. PE review, calculations and stamp (if required) may be sent at a later date under separate cover.
- 2. Estimated Submittal Review: Brentwood estimates a four (4) week review period by consultant or customer.
- 3. We further propose to furnish the equipment approximately eighteen (18) weeks after receipt of final engineering approval and returned submittal drawings and release to manufacturing.

FREIGHT:

Freight allowed, best way, point of manufacture to job site. Requests for specific methods of shipment will be at requestors' expense. On-site transportation, unloading, and storage costs by others.

WEIGHT AND VOLUME:

Estimated weight is 0,400 Lbs. Estimated volume is One (1) Truck(s).

TAXES:

Pricing does not include any States' sales tax if applicable, unless otherwise stated.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

SCHEDULE OF VALUES & PAYMENT TERMS:

- 1. 15% with Shop drawing and submittal transmission; 35% with approved submittals and/or release to manufacture; 50% on material shipment. All payments 100% Net 30 days from invoice date. Payment terms subject to credit approval.
- 2. These terms are not contingent upon or in conjunction with any agreement purchaser has with other parties.
- 3. For Brentwood Water & Wastewater Standard Terms and Conditions visit: <u>https://www.brentwoodindustries.com/terms/</u>

ESCALATION:

The price(s) quoted are subject to adjustment to reflect increases in material cost(s), should these increases in price exceed 3% during the specified Schedule of Construction. Increases are based on price indexes for PVC (ChemData) and Stainless Steel (MEPS International), which can be provided upon request. It is understood and agreed that it will be Brentwood's option whether to invoke escalation, should the price exceed this amount.

BILL AND HOLD:

If Purchaser fails to take delivery on any scheduled delivery date based on the terms of the executed purchase Agreement, Brentwood reserves the right to reallocate any Product to other projects and reschedule production for the delayed Product. Purchaser will be required to accept any increase in price associated with the repurchase of material to fulfill the purchased Product requirements and the Product Delivery Date will be rescheduled in conjunction with current production schedules.

If the Purchaser requests that Brentwood holds Product in excess of an agreed upon delivery date and Brentwood agrees to hold the Product, Purchaser will provide written notification to Brentwood to store the Product at its facilities for a period of time prior to shipment ("Bill and Hold"). Brentwood will provide written confirmation of the Bill and Hold to Purchaser, including a Statement of Transfer of Title and invoice.

Payment for the Bill and Hold material is due in accordance with the agreed upon terms in the executed purchase Agreement except to the extent dates must be adjusted due to delivery rescheduling, in which case adjusted dates will be shown on the invoice. All payments will be made in accordance with the invoiced payment terms and instructions. For all Bill and Holds, Purchaser acknowledges that (i) they have made a fixed commitment to purchase the Product, (ii) risk of ownership for the Product passes to Purchaser upon signing Statement of Transfer, (iii) Purchaser has requested that the Product be on a Bill and Hold basis for legitimate business purposes, (iv) if no delivery date is determined at the time of invoicing and Statement of Transfer and Brentwood does not receive a request for delivery within two (2)months from the Bill and Hold invoice date, Brentwood has the right to release the shipment upon written notice to Purchaser any time following the two (2) month period from Bill and Hold invoice date. Brentwood shall be entitled to storage charges of 1 ½% per month of the purchase value of stored material beginning 30 days after Bill and Hold invoice date and continuing until the Product is picked up by Purchaser or shipped by Brentwood. Upon receipt of request from Purchaser to ship the stored Product, Brentwood shall use commercially reasonable efforts to ship the Product within two (2) to 4 (four) business weeks following confirmed receipt of such request.



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VALIDITY:

This proposal is valid for a period not to exceed 120 days from latest date shown above unless extended by Brentwood in writing. Pricing on this project is based upon shipment schedule as shown above. Extensions to delivery timelines or requests for staged shipments may require renegotiation of pricing.

FIELD SERVICE STARTUP AND TRAINING:

The services of a qualified Brentwood field technician is included to assist in inspection of installed equipment, startup and field testing, certification, and operator training, if required by specification. Duration limited to One (1) trip(s) for Two (2) man-day(s) on site total. Non use of contractual field service days does not generate a credit on this project. Field service requires a minimum 2 week notice and is based on technician availability. Less notice may be accommodated with additional costs.

OPERATION AND MAINTENANCE MANUALS:

Unless otherwise specified, one (1) digital copy of our O&M manual and installation and layout drawings will be furnished on or before shipment of equipment. Digital copy can be downloaded from our FTP site or finished on a USB Flash drive. Digital copy of O&M shall be in Adobe pdf format and be locked and uneditable.

WARRANTY:

Brentwood warrants material supplied on this project to be free from defects in workmanship or materials for a period of twelve (12) months from date of certification by an authorized Brentwood representative or eighteen (18) months from date of shipment, whichever shall occur first. Warranty excludes labor to install or remove parts. Chain and flight system is designed for continuous operation, and intermittent operation is not recommended due to potential for excess sludge build up. Damage resulting from intermittent operation of chain and flight equipment is not covered under this warranty. Brentwood recommends limiting the the rotation of the scum pipe to no more than once every 4 hours to mantain the longevity of the equipment.

PAINTING AND COATINGS:

Stainless Steel and plastic equipment shall not be painted. Unless otherwise specified, all ferrous wetted components will be provided with a surface preparation of SSPC-SP10 Near White Metal and a shop primer 1 coat of Sherwin Williams Dura-Plate 235 Multi-Purpose Epoxy @ 4 Mils D.F.T. It is the responsibility of the contractor to ensure finish paint is compatible with specified primer. Any adhesion issues between coats are not the responsibility of Brentwood. The top coat must be applied within 6 months of the prime coat, otherwise the assembly surface will need to be abraded or the primer will need to be removed and surface preparation redone prior to application of the top coat, by others. OEM components above deck (drive units, bearings, actuators, etc.) shall be furnished with manufacturer's factory finish.

AMERICAN IRON AND STEEL ACT:

Per Implementation of American Iron and Steel provisions of P.L. 113-76, Consolidated Appropriations Act, 2014, Brentwood's Polychem brand clarifier System and accessories is considered a mechanical system and is not considered construction material or structural steel subject to AIS requirements.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

GENERAL EXCLUSIONS*:

- 1. Contractor/customer shall be responsible for field verification of all dimensions.
- 2. Foundations, supports for Polychem equipment (diaphragm plates) or special mounting plates.
- 3. Bid, performance, supply, or maintenance bonds.
- 4. Installation of equipment and anchor systems, concrete, sealing compounds, shim stock or grout.
- 5. Grouting behind idler stub shafts, head shaft spindles, & return track wall brackets is not included, but is required for these systems.
- 6. Tools or spare parts (unless listed elsewhere in this Proposal).
- 7. All reducer oil, bearing grease, or other lubricants.
- 8. Field paint, touch-up, finish painting, or finish coatings.
- 9. Unloading, hauling, erection, and storage of equipment.
- 10. Grease line piping (unless listed elsewhere in this Proposal) or grease guns.
- 11. Any electrical components or controls not shown in items included section of this Proposal.
- 12. All control panels (unless listed elsewhere within this Proposal), unistrut supports / mounting for control panels, electrical conduit, wires, or wiring, wire fittings, or boxes.
- 13. Wall Sleeves for scum troughs, weirs, baffles, overflow weirs, effluent troughs.
- 14. Anchor pull out testing.
- 15. PI&D drawings
- 16. Conduit sizing or drawings.
- 17. Detailed specific storage plans or maintenance schedules for installed equipment outside of Brentwood's standard maintenance and preventative maintenance information.
- 18. Factory assembly of components.
- 19. Any component shown or described on a drawing and not included in the Items Included section of this Proposal, or any component or service not shown in this Proposal.

*unless above items are listed as included elsewhere in this Proposal, they are excluded.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST PRIMARY HELICAL SKIMMERS

PRICING SUMMARY:

LUMP SUM BASE PRICE: \$458,800.00

Proposal Submitted By:

Jonah Graciani

Jonah Graciani, Sales Estimator Brentwood Industries, Polychem Brand email: jonah.graciani@brentwoodindustries.com



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FIELD SERVICE RATES

EFFECTIVE 2022 - 2025



DOMESTIC DAILY RATES PER 8 HOUR DAY

SERVICE SPECIALIST	2022	2023	2024	2025
Straight Time	\$1,890.00	\$2,003.00	\$2,123.00	\$2,250.00
OT and Saturday	\$2,827.00	\$2,996.00	\$3,175.00	\$3,365.00
Sunday and Holiday	\$3,780.00	\$4,006.00	\$4,246.00	\$4,500.00

INTERNATIONAL DAILY RATES PER 8 HOUR DAY

SERVICE SPECIALIST	2022	2023	2024	2025
Straight Time	\$2,268.00	\$2,404.00	\$2,548.00	\$2,701.00
OT and Saturday	\$3,402.00	\$3,606.00	\$3,822.00	\$4,051.00
Sunday and Holiday	\$4,538.00	\$4,810.00	\$5,099.00	\$5,404.00

Definition of Labor Rates

Straight time applies to first eight (8) hours worked and traveled Monday through Friday. Any time worked over 8 hours, up to four (4) hours worked and traveled past eight (8) on Monday through Friday, first twelve (12) hours worked on Saturday will be charged at overtime rate. Standby time will be charged at the applicable rate. In case of long-term assignments, Field Service personnel will be rotated at Buyer's expense.

Expenses

Meals, lodging, and incidental expenses will be billed at cost + 15%. Employee travel expenses will be charged at cost +15% for airfare, rental vehicles, taxis and freight. Mileage rate is \$0.95 per mile. Rental of lifting or other special equipment, outside inspection services, additional sub contracted services, etc. will be cost +15%.

Notes:

- 1. This rate sheet supersedes all previously issued rate sheets.
- All prices in US dollars.
- 3. Any "site-specific" training required will be billed as time worked.
- 4. Customer to furnish water, oils, solvents and will dispose of same. Customer will also furnish power and air, parts, ladders,
- access to job-site, overhead crane upon request, and all necessary work permits.
- 5. Rates are "Portal-to-Portal". Travel time, to and from the site, will be considered hours worked and billed at the applicable rate.
- 6. Stand-by time will be considered hours worked and billed at the applicable rates according to the following:
- a. Stand-by from home base 8 hours per day.
- b. Stand-by while mobilized and in the field 8 hours per day.
- 7. A 4-hour minimum will apply to all service work.
- 8. Rates quoted are subject to adjustment without notice to conform to Seller's published rates in effect at the time service is performed.
- 9. This offer is subject to Buyer's acceptance of the Conditions above.
- 10. This offer and any work performed as a result are exclusively governed by our Terms and Conditions attached. Any additional or conflicting terms contained in any document or purchase order issued authorizing work are expressly objected to in advance and shall not apply, except with the express written consent from Brentwood Industries.



Brentwood Industries, Inc. 500 Spring Ridge Dr., Reading PA 19610 brentwood reference



Brentwood Water Group (Water & Wastewater) Standard Terms and Conditions of Sale

Applicability and Acceptance

These terms and conditions of sale ("Terms) are the only terms which govern the sale of product ("Product") by Brentwood Industries, Inc. ("Brentwood") to Purchaser ("Purchaser"). Brentwood and Purchaser together are the "Parties" and each a "Party" herein. Brentwood's accompanying quotation or proposal (collectively "Proposal") and these Terms (collectively this "Agreement"), comprise the entire agreement between the Parties and supersede all understandings, agreements, negotiations, representations, or communications. In the event of a conflict between these Terms and a Proposal, the terms and conditions in the Proposal prevail. Brentwood's commencement of work or service does not constitute acceptance of any Purchase Order. No Purchase Orders will be binding upon Brentwood without express written acceptance by an authorized Brentwood employee. These Terms will be the sole, controlling terms for Purchase's Purchase Order ("Purchase Order") and no other terms and conditions will apply.

Pricing and Payment:

Payment to be 100% prepayment of goods before shipment unless a credit application has been completed and an extension of credit has been approved. Approved payment terms shall be due in full within thirty (30) days from invoice date. Pricing is in accordance with Brentwood's Proposal. Brentwood reserves the right to adjust the Proposal price at any future time due to raw material and/or labor cost fluctuations greater than 4/- 3%.

Shipment and Title:

The shipment terms unless stated otherwise in Brentwood's Proposal will be EXWORKS. Risk of loss and title transfer at Brentwood's facility. Brentwood may, without liability or penalty, make partial shipments of Products to Purchaser.

Inspection and Claims:

Upon delivery of Product, Purchaser must inspect the Product for freight damage and must notify Brentwood in writing within five (5) days after delivery. Furthermore, Purchaser agrees to inspect and accept the Product within a reasonable timeframe. Brentwood may waive claims not made in accordance with the above terms in this section.

Default:

Purchaser's failure to make payment as agreed and according to invoices or Purchaser's failure to perform any of its other obligations under this Agreement constitutes a default. In the event of default, Brentwood will provide written Notice of the default (in accordance with the Notices section of this Agreement) to Purchaser. If Purchaser does not i) correct the default or ii) address how it plans to correct the default in writing to Brentwood within five (5) business days from receipt of Notice of default, Purchaser will remain in default and Brentwood may do any of the following, (i) exercise any and all other rights and remedies of a secured Party under Article 9 of the UCC or applicable law; (ii) suspend any further Product deliveries or provision of services until Purchaser pays its obligations in full; iii) be excused from any of its performance obligations under this Agreement resulting from Purchaser's delays or inability to complete its obligations; iv) send Purchaser's past due invoice(s) to collections for nonpayment of obligations and report Purchaser's non-payment to appropriate credit agency.

Delays: :

Delays in project schedule beyond the expected ship date not caused by Brentwood which result in additional costs not included in quoted price may be invoiced by Brentwood to Purchaser.

Storage Fees:

Unless otherwise agreed upon by Brentwood and Purchaser, in the event Purchaser notifies Brentwood it cannot take delivery on the agreed upon delivery date on the face of Purchaser's Purchase Order, Brentwood will store the Product free of charge for up to thirty (30) days after the initially agreed delivery date. After the thirtieth (30th) day, Purchaser agrees to pay a monthly storage fee equal to one and one-half (1.5%) percent of the invoice price of the Product. The monthly storage fee will be due in full upon receipt of invoice for the storage fee regardless of whether Purchaser has been invoiced or has paid for the Product.

Contracted	Antracted Elapsed Time - from date of Executed Purchase Order to date of Cancellation (weeks)															
Shipment (weeks)	0 - 2	2.01 - 4	4.01 - 6	6.01 - 8	8.01 - 12	12.01 - 16	16.01 - 20	20.01 - 24	24.01 - 28	28.01 - 32	32.01 - 36	36.01 - 40	40.01 - 44	44.01 - 48	48.01 - 52	52.01 - 56
Up to 8	20	50	75	100												
8.01 - 12	15	40	60	80	100											
12.01 - 16	10	25	45	60	85	100										
16.01 - 20	10	15	25	45	65	85	100									
20.01 - 24	10	10	20	25	50	70	90	100								
24.01 - 28	10	10	15	20	25	50	70	90	100							
28.01 - 32	10	10	10	15	20	35	60	75	90	100						
32.01 - 36	10	10	10	15	20	25	50	60	85	95	100					
36.01 - 40	10	10	10	10	15	25	50	60	70	85	95	100				
40.01 - 44	10	10	10	10	15	25	45	55	65	80	90	95	100			
44.01 - 48	10	10	10	10	15	25	45	55	60	65	80	90	95	100		
48.01 - 52	10	10	10	10	15	20	40	50	55	60	70	85	90	95	100	
52.01 - 56	10	10	10	10	15	20	35	50	55	60	70	80	85	90	95	100

Changes:

Purchase Order changes are subject to Brentwood's written approval, and additional time and charges may apply. Brentwood will not be liable for any delays due to change order requests. Brentwood may make changes to its Product without obligation, apply or manufacture such changes in any Product manufactured prior thereto. Brentwood may make such changes to any ordered Product as does not, in Brentwood's reasonable judgment, interfere with the satisfactory operation of the Product.

Taxes:

All government charges upon the production, shipment or sale of the Product, including, without limitation, sales, use, occupation, export and import taxes, and any other impositions by any government whatsoever, direct or indirect, including those required to be collected by Brentwood, will be paid by Purchaser or, in lieu thereof, Purchaser will furnish Brentwood with an exemption certificate acceptable to the taxing authority. Brentwood reserves and Purchaser disclaims all rights to drawback of duties paid on materials used in the manufacture of the Product. Purchaser will supply Brentwood with proof of exportation and all other documents necessary and otherwise cooperate to obtain payment thereof.

Returns:

No Product may be returned for credit or otherwise unless Purchaser receives Brentwood's authorization. Product authorized for return or credit must be returned in good condition, in its original



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Warranty

Brentwood warrants against defects in materials and workmanship. Warranty coverage is contingent on proper storage, installation, use, operation, maintenance, and shutdown procedures, all occurring under ordinary conditions and in compliance with good industry standards, the approved design criteria, Brentwood's approved Submittal and Operation and Maintenance Manual. The Warranty period shall be limited to twelve (12) months from Product shipment. The terms of this Warranty shall be modified only through written agreement by an authorized Brentwood employee. The remedy for a covered defect during the Warranty period shall be limited, at Brentwood's option and control, to repair or replacement of defective Parts and Components, including shipping costs. The remedy excludes costs of labor, removal of non-conforming Products, and expenses related to installation of the replacement Products.

THE TERMS OF THIS WARRANTY ARE THE SOLE AND EXCLUSIVE OBLIGATION OF BRENTWOOD TO PURCHASER OR THIRD PARTY FOR CLAIMS RELATED TO THE PRODUCT. UNDER NO CIRCUMSTANCE SHALL BRENTWOOD BE LIABLE TO ANY PERSON OR ENTITY FOR ANY INCIDENTIAL, CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES OR ANY OTHER LOSS, COST, OR EXPENSE OTHER THAN SPECIFICALLY STATED IN THIS WARRANTY. OTHER THAN THE EXPRESS LIMITED WARRANTIES MADE HEREIN, BRENTWOOD EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED BY LAW, WITH RESPECT TO ANY SERVICE OR DELIVERABLE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AS WELL AS ANY WARRANTIES WHICH MAY ARISE FROM PRIOR COURSE OF DEALING, CUSTOM, TRADE USAGE, PROVISION OF SAMPLES, PRODUCT LITERATURE OR WEBSITE CONTENT.

Limitation of Liability: REGARDLESS OF THE FORM OF ACTION, BRENTWOOD'S LIABILITY RELATING TO THE PRODUCT OR THE MANUFACTURE, SHIPPING, SALE OR USE OF THE PRODUCT SHALL NOT EXCEED THE PRICE PAID BY PURCHASER FOR THE SPECIFIC PRODUCT GIVING RISE TO THE CAUSE OF ACTION. BRENTWOOD, ITS AFFILIATES, AND THEIR OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS SHALL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF USE, DOWNTIME, FAILURE TO DETECT ANY FLAW IN ANY SUBJECT MATTER OF ANY TEST, LOSS OF GOODWILL, BUSINESS INTERRUPTION, DELAY IN PERFORMANCE, OR LOST OPPORTUNITIES. REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT PRODUCT LIABILITY OR OTHERWISE IN CONNECTION WITH THE SUPPLY OR SUBSEQUENT USE OR POSSIBILITY OF SUCH DAMAGES.

Indemnification:

Purchaser will at all times indemnify, defend and hold harmless Brentwood, its officers, directors, employees, agents, servants and representatives from and against any and all damages, liabilities, losses, claims, suits, penalties, fines, costs, and expenses, including attorneys' fees (collectively, "Claims") arising directly or indirectly out of or in connection with any (a) infringement or misappropriation of any patent, trademark, or other intellectual property right, including third Party rights, arising from Brentwood's adherence to Purchaser's Specifications; (b) use, operation or possession of Brentwood Product, except to the extent the Claim arises from the gross negligence or willful misconduct of Brentwood; or (c) breach by Purchaser of any provision of any Agreement with or obligation to Brentwood.

Brentwood will at all times indemnify, defend and hold harmless Purchaser from and against loss, injury, damage and liability arising directly in connection with bodily injury death, or destruction of tangible or real property, including loss of use directly resulting from or caused by Brentwood or Brentwood's product, its negligent act, error, omission or for damages arising from Brentwood's gross negligence or willful missionduct in performance of its obligations under this Agreement. Claims and damages are limited to Brentwood's proportionate percentage of negligence and/or fault

Insurance:

Brentwood will maintain and carry insurance including, but not limited to Commercial General Liability in a sum of \$1,000,000 per occurrence and Workers Compensation in amounts as required by applicable statute. Additional coverages may be available. Upon request, Brentwood will provide to Purchaser a certificate of insurance evidencing its coverages.

Confidential Information:

All non-public, confidential and proprietary information ("Confidential Information"), whether disclosed orally or reduced to writing, whether or not marked or otherwise designated or not identified as such. Confidential Information does not include information which: (i) is or becomes available to the public generally (other than as a result of a disclosure by the Purchaser in violation of this Agreement); (ii) is subject to public disclosure under any federal, state or local law, ordinance or regulation; (iii) becomes available to Purchaser on a non-confidential basis from a source other than Brentwood; or (iv) was known by or was available to Purchaser prior to or at the time Brentwood disclosed it.

Purchaser agrees to protect and safeguard all Confidential Information with at least the same degree of care as the Purchaser would protect its own Confidential Information, but in no event with less than a commercially reasonable degree of care. Purchaser shall hold all Confidential Information in confidence and shall disclose it only to its employees needing to use the Confidential Information for the limited purposes of this Agreement and said employees shall be bound to the confidentiality Terms of this Agreement. No other disclosure of Confidential Information is allowed unless written permission is granted by Brentwood. Purchaser agrees not to use the Confidential Information in any manner to Brentwood's detriment, including without limitation, to reverse engineer, disassemble, analyze, decompile, copy, modify, develop, or design.

Force Maieure:

Brentwood shall not be liable or responsible to Purchaser, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term of this Agreement to the extent Brentwood's failure or delay is caused by or results from a force majeure event, including, acts of God; flood, fire, earthquake, pandemics, disease outbreaks, explosions or other natural disasters; war, invasion, hostilities, terrorist acts, civil unrest; government orders or actions; embargoes or blockades in effect on or after the date of this Agreement; national emergency; strikes, labor stoppages or slowdowns, or other industrial disturbances; shortage of adequate raw materials, labor, power, or transportation facilities; and other similar events beyond the reasonable control of Brentwood.

Brentwood shall give notice within fourteen (14) days of the force maieure event or as soon as reasonably practicable to Brentwood, stating the period of time the occurrence is expected to continue Brentwood shall use diligent efforts to end the failure or delay and ensure the effects of such are minimized. Brentwood shall resume the performance of its obligations as soon as reasonably practicable after the removal of the cause. In the event Brentwood remains unable to perform its obligations within ten (10) weeks from notice of force majeure event Purchaser may terminate the Agreement.

Governing Law and Jurisdiction:

This Agreement shall be construed under the laws of the Commonwealth of Pennsylvania without reference to conflicts of law principles. The Parties hereby agree that disputes hereunder shall be subject to the exclusive jurisdiction and venue of the courts of Berks County, Pennsylvania, in either the Pennsylvania Court of Common Pleas or the United States District Court for the Eastern District of Pennsylvania. The Purchaser waives any objections based on personal or subject matter jurisdiction or venue.

Export Control:

Purchaser will not use, distribute, transfer, or transmit any Product, components or technical information (even if incorporated into other products) provided in connection with this transaction except in compliance with U.S. export laws and regulations (the "Export Laws"). Purchaser will not, directly or indirectly export or re-export the following items to any country which is in the then-current list of prohibited countries specified in any applicable Export Laws; (a) the Product, components or technical data disclosed or provided to Purchaser by Brentwood; or (b) any improvements or variations of such Product, components or technical data. Purchaser agrees to promptly inform Brentwood in writing of any written authorization issued by the U.S. Department of Commerce office of export licensing to export or re-export any such items referenced in (a) or (b). The obligations stated above in this clause will survive the expiration, cancellation or termination of this Agreement.



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Severability:

If any term or provision of this Agreement is invalid, illegal or unenforceable in any jurisdiction, such invalidity, illegality or unenforceability shall not affect any other term or provision of this Agreement or invalidate or render unenforceable such term or provision in any other jurisdiction.

Notices:

All notices, requests, consents, claims, demands, waivers and other communications hereunder (each, a "Notice") shall be in writing and addressed to the Parties at the addresses set forth on the face of the Proposal or to such other address that may be designated by the receiving Party in writing. All Notices shall be delivered by personal delivery, nationally recognized overnight courier (with all fees prepaid or certified or registered mail (in each case, read receipt requested, postage prepaid). Except as otherwise provided in this Agreement, a Notice is effective only (a) upon receipt of the receiving Party, and (b) if the Party giving the Notice has complied with the requirements of this Section.

Authority:

The individual assenting to or executing any documents or orders, whether as a hard copy or, on behalf of Purchaser acknowledges, represents and warrants that he or she has read and understands these Terms and Conditions and has been duly authorized by the Purchaser to execute such on behalf of the Purchaser and bind the Purchaser to these Terms and Conditions.

Relationship of the Parties:

The relationship between the Parties is that of independent contractors. Nothing contained in this Agreement shall be construed as creating any agency, partnership, joint venture or other form of joint enterprise, employment or fiduciary relationship between the Parties, and neither Party shall have authority to contract for or bind the other Party in any manner whatsoever.

Survival:

Provisions of this Agreement which by their nature should apply beyond their terms will remain in force after any termination or expiration of this Agreement.

Amendment and Modification:

This Agreement may only be amended or modified in writing by Brentwood and executed by an authorized representative of each Party.

By signing below both Parties accept Brentwood Water Group (Water and Wastewater) Standard Terms and Conditions of Sale.

BRENTWOOD INDUSTRIES, INC.

By: ______ Print Name: ______ Title: ______ Brentwood Industries, Inc.

PURCHASER	
By:	
Print Name:	
Title:	
Company:	



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

May 29, 2024

ATTN: Roni Young Grant South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92011 USA Phone: (949) 632-5256 Fax: email: rgrant@socwa.com

Re: Laguna Niguel, CA - SOCWA Coastal TP - West Secondary Helical Skimmers Polychem[™] Skimming System

BUDGETARY PROPOSAL

Brentwood Industries, Polychem Brand, proposes and offers to supply all materials and services as an Approved manufacturer and in general accordance with Brentwood's standard practices and specifications, clarifications, and information provided.

TECHNICAL SPECIFICATION(S):	SCUM REMOVAL EQUIPMENT
SECTION(S):	11340 (PER TRACK CHANGES BY CSF)
ADDENDA RECEIVED:	N/A

BRENTWOOD PROPOSES TO FURNISH POLYCHEM SCUM SKIMMING EQUIPMENT AS FOLLOWS:

Three (3) 304 SS Helical Skimmers, with Beach and Trough, Approximately 18-inch Diameter x 25 FT Long



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

***ITEMS INCLUDED:**

ITEM	DESCRIPTION / MATERIAL							
Helical Reel	304 SS							
Wiper for Helical Reel	EPDM Rubber							
Beach for Helical Skimmer	304 SS							
Trough Gasket	Neoprene							
Trough for Helical Skimmer	304 SS							
Wall Bearings for Helical Skimmer	Cast Iron w/UHMW-PE Lining							
Collar for Helical Skimmer	Cast Nylon 6 w/set screw							
Drive Chain	NH78, Reinforced Nylon Resin w/ 303 SS Pins							
Drive Sprocket Shear pin Assembly	11T Nylon Sprocket w/ Bronze Insert Mounted to 304 SS Shear Pin Hub							
Chain Tightener(s) for Drive Chain	Nylon 6-6 7T Sprocket w/Cast Nylon-6 Arm and FRP Adjustable Mounting Bracket							
Limit Switch	DPDT, Cutler Hammer, Zinc Die Cast, NEMA 4X, SS Arm							
Overload Protection Device	11T Cast Nylon Sprocket on Stainless Steel Hub							
Drive Unit Output Shaft	304 SS							
Drive Unit(s) w/Motor and Reducer	SEW Eurodrive Helical-Bevel Gearmotor, 1/2HP, 3 Ph, 60 Hz, 230/460 V							
Base Plate for Drive Unit(s)	304 SS							
Chain Guard for Drive Chain	304 SS							
Anchor System	316 SS							
Seismic Anchor Calculations	As Specified							
Adhesive for Anchors w/ Dispenser	Hilti							





LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

*ITEMS	INCLUDED ((Continued):

ITEM	DESCRIPTION / MATERIAL
*	Above Item Descriptions/Materials may vary slightly after engineering and consultant review.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

EXISTING CONCRETE STRUCTURE (IF APPLICABLE):

Pricing and schedule are based on limited structural information provided at the time of quotation and assume the necessary existing tank dimensions will be provided by purchaser in a timely manner to facilitate the start of submittals. In lieu of customer supplied tank dimensions, purchaser may elect to procure Brentwood's Tank Measurement services. Should the verified tank dimensions and equipment conditions differ from the information provided for quotation, and/or require special bracketry or supporting structures, Brentwood reserves the right to revise pricing and schedule accordingly. Delays associated with receipt of complete tank measurements, incomplete information from RFI's, and release and approval to manufacture may result in changes to the price and schedule.

TANK MEASUREMENTS:

Tank Measurements are NOT included in this price or proposal, but can be provided and billed per attached published field labor and expense rates. If measurement services are purchased, Brentwood will require the assistance of one (1) person while on site to support tank measurements, and tanks must be completely drained and cleaned before entrance. In addition, customer / contractor shall supply all necessary equipment to safely access tanks (ladders, lighting, etc.). Tank measurement services require a minimum 2 week notice and are based on technician availability.

SUBMITTALS:

Shop drawing and submittal preparation will be in accordance with Brentwood's standard submittal practices, and will be based on one submittal for all tanks at one time. Should separate submittals for each tank be required at separate intervals, Brentwood reserves the right to revise pricing accordingly.

TIME AND DELIVERY:

- 1. Brentwood will furnish initial submittal drawings approximately twelve to fourteen (12-14) weeks after receipt of executed purchase order and field verified structural dimensions and information. PE review, calculations and stamp (if required) may be sent at a later date under separate cover.
- 2. Estimated Submittal Review: Brentwood estimates a four (4) week review period by consultant or customer.
- 3. We further propose to furnish the equipment approximately eighteen (18) weeks after receipt of final engineering approval and returned submittal drawings and release to manufacturing.

FREIGHT:

Freight allowed, best way, point of manufacture to job site. Requests for specific methods of shipment will be at requestors' expense. On-site transportation, unloading, and storage costs by others.

WEIGHT AND VOLUME:

Estimated weight is 0,400 Lbs. Estimated volume is One (1) Truck(s).

TAXES:

Pricing does not include any States' sales tax if applicable, unless otherwise stated.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

SCHEDULE OF VALUES & PAYMENT TERMS:

- 1. 15% with Shop drawing and submittal transmission; 35% with approved submittals and/or release to manufacture; 50% on material shipment. All payments 100% Net 30 days from invoice date. Payment terms subject to credit approval.
- 2. These terms are not contingent upon or in conjunction with any agreement purchaser has with other parties.
- 3. For Brentwood Water & Wastewater Standard Terms and Conditions visit: <u>https://www.brentwoodindustries.com/terms/</u>

ESCALATION:

The price(s) quoted are subject to adjustment to reflect increases in material cost(s), should these increases in price exceed 3% during the specified Schedule of Construction. Increases are based on price indexes for PVC (ChemData) and Stainless Steel (MEPS International), which can be provided upon request. It is understood and agreed that it will be Brentwood's option whether to invoke escalation, should the price exceed this amount.

BILL AND HOLD:

If Purchaser fails to take delivery on any scheduled delivery date based on the terms of the executed purchase Agreement, Brentwood reserves the right to reallocate any Product to other projects and reschedule production for the delayed Product. Purchaser will be required to accept any increase in price associated with the repurchase of material to fulfill the purchased Product requirements and the Product Delivery Date will be rescheduled in conjunction with current production schedules.

If the Purchaser requests that Brentwood holds Product in excess of an agreed upon delivery date and Brentwood agrees to hold the Product, Purchaser will provide written notification to Brentwood to store the Product at its facilities for a period of time prior to shipment ("Bill and Hold"). Brentwood will provide written confirmation of the Bill and Hold to Purchaser, including a Statement of Transfer of Title and invoice.

Payment for the Bill and Hold material is due in accordance with the agreed upon terms in the executed purchase Agreement except to the extent dates must be adjusted due to delivery rescheduling, in which case adjusted dates will be shown on the invoice. All payments will be made in accordance with the invoiced payment terms and instructions. For all Bill and Holds, Purchaser acknowledges that (i) they have made a fixed commitment to purchase the Product, (ii) risk of ownership for the Product passes to Purchaser upon signing Statement of Transfer, (iii) Purchaser has requested that the Product be on a Bill and Hold basis for legitimate business purposes, (iv) if no delivery date is determined at the time of invoicing and Statement of Transfer and Brentwood does not receive a request for delivery within two (2)months from the Bill and Hold invoice date, Brentwood has the right to release the shipment upon written notice to Purchaser any time following the two (2) month period from Bill and Hold invoice date. Brentwood shall be entitled to storage charges of 1 ½% per month of the purchase value of stored material beginning 30 days after Bill and Hold invoice date and continuing until the Product is picked up by Purchaser or shipped by Brentwood. Upon receipt of request from Purchaser to ship the stored Product, Brentwood shall use commercially reasonable efforts to ship the Product within two (2) to 4 (four) business weeks following confirmed receipt of such request.



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VALIDITY:

This proposal is valid for a period not to exceed 120 days from latest date shown above unless extended by Brentwood in writing. Pricing on this project is based upon shipment schedule as shown above. Extensions to delivery timelines or requests for staged shipments may require renegotiation of pricing.

FIELD SERVICE STARTUP AND TRAINING:

The services of a qualified Brentwood field technician is included to assist in inspection of installed equipment, startup and field testing, certification, and operator training, if required by specification. Duration limited to Three (3) trip(s) for Six (6) man-day(s) on site total. Non use of contractual field service days does not generate a credit on this project. Field service requires a minimum 2 week notice and is based on technician availability. Less notice may be accommodated with additional costs.

OPERATION AND MAINTENANCE MANUALS:

Unless otherwise specified, one (1) digital copy of our O&M manual and installation and layout drawings will be furnished on or before shipment of equipment. Digital copy can be downloaded from our FTP site or finished on a USB Flash drive. Digital copy of O&M shall be in Adobe pdf format and be locked and uneditable.

WARRANTY:

Brentwood warrants material supplied on this project to be free from defects in workmanship or materials for a period of twelve (12) months from date of certification by an authorized Brentwood representative or eighteen (18) months from date of shipment, whichever shall occur first. Warranty excludes labor to install or remove parts. Chain and flight system is designed for continuous operation, and intermittent operation is not recommended due to potential for excess sludge build up. Damage resulting from intermittent operation of chain and flight equipment is not covered under this warranty. Brentwood recommends limiting the the rotation of the scum pipe to no more than once every 4 hours to mantain the longevity of the equipment.

PAINTING AND COATINGS:

Stainless Steel and plastic equipment shall not be painted. Unless otherwise specified, all ferrous wetted components will be provided with a surface preparation of SSPC-SP10 Near White Metal and a shop primer 1 coat of Sherwin Williams Dura-Plate 235 Multi-Purpose Epoxy @ 4 Mils D.F.T. It is the responsibility of the contractor to ensure finish paint is compatible with specified primer. Any adhesion issues between coats are not the responsibility of Brentwood. The top coat must be applied within 6 months of the prime coat, otherwise the assembly surface will need to be abraded or the primer will need to be removed and surface preparation redone prior to application of the top coat, by others. OEM components above deck (drive units, bearings, actuators, etc.) shall be furnished with manufacturer's factory finish.

AMERICAN IRON AND STEEL ACT:

Per Implementation of American Iron and Steel provisions of P.L. 113-76, Consolidated Appropriations Act, 2014, Brentwood's Polychem brand clarifier System and accessories is considered a mechanical system and is not considered construction material or structural steel subject to AIS requirements.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

GENERAL EXCLUSIONS*:

- 1. Contractor/customer shall be responsible for field verification of all dimensions.
- 2. Foundations, supports for Polychem equipment (diaphragm plates) or special mounting plates.
- 3. Bid, performance, supply, or maintenance bonds.
- 4. Installation of equipment and anchor systems, concrete, sealing compounds, shim stock or grout.
- 5. Grouting behind idler stub shafts, head shaft spindles, & return track wall brackets is not included, but is required for these systems.
- 6. Tools or spare parts (unless listed elsewhere in this Proposal).
- 7. All reducer oil, bearing grease, or other lubricants.
- 8. Field paint, touch-up, finish painting, or finish coatings.
- 9. Unloading, hauling, erection, and storage of equipment.
- 10. Grease line piping (unless listed elsewhere in this Proposal) or grease guns.
- 11. Any electrical components or controls not shown in items included section of this Proposal.
- 12. All control panels (unless listed elsewhere within this Proposal), unistrut supports / mounting for control panels, electrical conduit, wires, or wiring, wire fittings, or boxes.
- 13. Wall Sleeves for scum troughs, weirs, baffles, overflow weirs, effluent troughs.
- 14. Anchor pull out testing.
- 15. PI&D drawings
- 16. Conduit sizing or drawings.
- 17. Detailed specific storage plans or maintenance schedules for installed equipment outside of Brentwood's standard maintenance and preventative maintenance information.
- 18. Factory assembly of components.
- 19. Any component shown or described on a drawing and not included in the Items Included section of this Proposal, or any component or service not shown in this Proposal.

*unless above items are listed as included elsewhere in this Proposal, they are excluded.



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LAGUNA NIGUEL, CA - SOCWA COASTAL TP -WEST SECONDARY HELICAL SKIMMERS

PRICING SUMMARY:

LUMP SUM BUDGETARY BASE PRICE: \$405,200.00

Proposal Submitted By:

Jonah Graciani

Jonah Graciani, Sales Estimator Brentwood Industries, Polychem Brand email: jonah.graciani@brentwoodindustries.com



Phone: 610.374.5109

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FIELD SERVICE RATES

2022 - 2025



DOMESTIC DAILY RATES PER 8 HOUR DAY

SERVICE SPECIALIST	2022	2023	2024	2025		
Straight Time	\$1,890.00	\$2,003.00	\$2,123.00	\$2,250.00		
OT and Saturday	\$2,827.00	\$2,996.00	\$3,175.00	\$3,365.00		
Sunday and Holiday	\$3,780.00	\$4,006.00	\$4,246.00	\$4,500.00		

INTERNATIONAL DAILY RATES PER 8 HOUR DAY

SERVICE SPECIALIST	2022	2023	2024	2025
Straight Time	\$2,268.00	\$2,404.00	\$2,548.00	\$2,701.00
OT and Saturday	\$3,402.00	\$3,606.00	\$3,822.00	\$4,051.00
Sunday and Holiday	\$4,538.00	\$4,810.00	\$5,099.00	\$5,404.00

Definition of Labor Rates

Straight time applies to first eight (8) hours worked and traveled Monday through Friday. Any time worked over 8 hours, up to four (4) hours worked and traveled past eight (8) on Monday through Friday, first twelve (12) hours worked on Saturday will be charged at overtime rate. Standby time will be charged at the applicable rate. In case of long-term assignments, Field Service personnel will be rotated at Buyer's expense.

Expenses

Meals, lodging, and incidental expenses will be billed at cost + 15%. Employee travel expenses will be charged at cost +15% for airfare, rental vehicles, taxis and freight. Mileage rate is \$0.95 per mile. Rental of lifting or other special equipment, outside inspection services, additional sub contracted services, etc. will be cost +15%.

Notes:

- 1. This rate sheet supersedes all previously issued rate sheets.
- 2. All prices in US dollars.
- 3. Any "site-specific" training required will be billed as time worked.
- 4. Customer to furnish water, oils, solvents and will dispose of same. Customer will also furnish power and air, parts, ladders, access to job-site, overhead crane upon request, and all necessary work permits.
- Rates are "Portal-to-Portal". Travel time, to and from the site, will be considered hours worked and billed at the applicable rate.
- 6. Stand-by time will be considered hours worked and billed at the applicable rates according to the following:
- a. Stand-by from home base 8 hours per day.
- b. Stand-by while mobilized and in the field 8 hours per day.
- 7. A 4-hour minimum will apply to all service work.
- Rates quoted are subject to adjustment without notice to conform to Seller's published rates in effect at the time service is performed.
- 9. This offer is subject to Buyer's acceptance of the Conditions above.

10. This offer and any work performed as a result are exclusively governed by our Terms and Conditions attached. Any additional or conflicting terms contained in any document or purchase order issued authorizing work are expressly objected to in advance and shall not apply, except with the express written consent from Brentwood Industries.



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Brentwood Water Group (Water & Wastewater) Standard Terms and Conditions of Sale

Applicability and Acceptance These terms and conditions of sale ("Terms) are the only terms which govern the sale of product ("Product") by Brentwood Industries, Inc. ("Brentwood") to Purchaser ("Purchaser"). Brentwood and Purchaser together are the "Parties" and each a "Party" herein. Brentwood's accompanying quotation or proposal (collectively "Proposal") and these Terms (collectively this "Agreement"), comprise the entire agreement between the Parties and supersede all understandings, agreements, negotiations, representations, or communications. In the event of a conflict between these Terms and a Proposal, the terms and conditions in the Proposal prevail. Brentwood's commencement of work or service does not constitute acceptance of any Purchase Order. No Purchase Orders will be binding upon Brentwood without express written acceptance by an authorized Brentwood employee. These Terms will be the sole, controlling terms for Purchase's Purchase Order ("Purchase Order") and no other terms and conditions will apply.

Pricing and Payment:

Payment to be 100% prepayment of goods before shipment unless a credit application has been completed and an extension of credit has been approved. Approved payment terms shall be due in full within thirty (30) days from invoice date. Pricing is in accordance with Brentwood's Proposal. Brentwood reserves the right to adjust the Proposal price at any future time due to raw material and/or labor cost fluctuations greater than +/- 3%.

Shipment and Title:

The shipment terms unless stated otherwise in Brentwood's Proposal will be EXWORKS. Risk of loss and title transfer at Brentwood's facility. Brentwood may, without liability or penalty, make partial shipments of Products to Purchaser.

Inspection and Claims:

Upon delivery of Product, Purchaser must inspect the Product for freight damage and must notify Brentwood in writing within five (5) days after delivery. Furthermore, Purchaser agrees to inspect and accept the Product within a reasonable timeframe. Brentwood may waive claims not made in accordance with the above terms in this section.

Default:

Purchaser's failure to make payment as agreed and according to invoices or Purchaser's failure to perform any of its other obligations under this Agreement constitutes a default. In the event of default, Brentwood will provide written Notice of the default (in accordance with the Notices section of this Agreement) to Purchaser. If Purchaser does not i) correct the default or ii) address how it plans to correct the default in writing to Brentwood within five (5) business days from receipt of Notice of default, Purchaser will remain in default and Brentwood may do any of the following, (i) exercise any and all other rights and remedies of a secured Party under Article 9 of the UCC or applicable law; (ii) suppend any further Product deliveries or provision of services until Purchaser pays its obligations in full; iii) be excused from any of its performance obligations under this Agreement resulting from Purchaser's delays or inability to complete its obligations; iv) send Purchaser's past due invoice(s) to collections for nonpayment of obligations and report Purchaser's non-payment to appropriate credit agency.

Delays: :

Delays in project schedule beyond the expected ship date not caused by Brentwood which result in additional costs not included in quoted price may be invoiced by Brentwood to Purchaser.

Storage Fees:

Unless otherwise agreed upon by Brentwood and Purchaser, in the event Purchaser notifies Brentwood it cannot take delivery on the agreed upon delivery date on the face of Purchaser's Purchase Order, Brentwood will store the Product free of charge for up to thirty (30) days after the initially agreed delivery date. After the thirtieth (30th) day, Purchaser agrees to pay a monthly storage fee equal to one and one-half (1.5%) percent of the invoice price of the Product. The monthly storage fee will be due in full upon receipt of invoice for the storage fee regardless of whether Purchaser has been invoiced or has paid for the Product.

Termination:

Brentwood or Purchaser may terminate this Agreement if either Party defaults by materially breaching its obligations in this Agreement, provided the breaching Party does not commence correction of the breach within five (5) business days from receipt of written notice of default. The Parties will agree upon a reasonable amount of time to correct the breach. In the event the Party in default fails to correct the breach within the agreed upon time frame, the other Party may terminate the Agreement by providing written notification to the Party in default. In the event of termination, the Purchaser agrees to pay Brentwood cancellation charges in accordance with the table below based on the Purchase Order Value.

Contracted	Elapsed Tim	e – from date	of Executed I	Purchase Ord	er to date of C	Cancellation (v	weeks)									
Ship ment (weeks)	0 - 2	2.01 - 4	4.01 - 6	6.01 - 8	8.01 - 12	12.01 - 16	16.01 - 20	20.01 - 24	24.01 - 28	28.01 - 32	32.01 - 36	36.01 - 40	40.01 - 44	44.01 - 48	48.01 - 52	52.01 - 56
Up to 8	20	50	75	100												
8.01 - 12	15	40	60	80	100											
12.01 - 16	10	25	45	60	85	100										
16.01 - 20	10	15	25	45	65	85	100									
20.01 - 24	10	10	20	25	50	70	90	100								
24.01 - 28	10	10	15	20	25	50	70	90	100							
28.01 - 32	10	10	10	15	20	35	60	75	90	100						
32.01 - 36	10	10	10	15	20	25	50	60	85	95	100					
36.01 - 40	10	10	10	10	15	25	50	60	70	85	95	100				
40.01 - 44	10	10	10	10	15	25	45	55	65	80	90	95	100			
44.01 - 48	10	10	10	10	15	25	45	55	60	65	80	90	95	100		
48.01 - 52	10	10	10	10	15	20	40	50	55	60	70	85	90	95	100	
52.01 - 56	10	10	10	10	15	20	35	50	55	60	70	80	85	90	95	100

Changes:

Purchase Order changes are subject to Brentwood's written approval, and additional time and charges may apply. Brentwood will not be liable for any delays due to change order requests. Brentwood may make changes to its Product without obligation, apply or manufacture such changes in any Product manufactured prior thereto. Brentwood may make such changes to any ordered Product as does not, in Brentwood's reasonable judgment, interfere with the satisfactory operation of the Product.

Taxes:

All government charges upon the production, shipment or sale of the Product, including, without limitation, sales, use, occupation, export and import taxes, and any other impositions by any government whatsoever, direct or indirect, including those required to be collected by Brentwood, will be paid by Purchaser or, in lieu thereof, Purchaser will furnish Brentwood with an exemption certificate acceptable to the taxing authority. Brentwood reserves and Purchaser disclaims all rights to drawback of duties paid on materials used in the manufacture of the Product. Purchaser will supply Brentwood with proof of exportation and all other documents necessary and otherwise cooperate to obtain payment thereof.

Returns:

No Product may be returned for credit or otherwise unless Purchaser receives Brentwood's authorization. Product authorized for return or credit must be returned in good condition, in its original packaging with completed identification and with all supporting documentation detailing of any claimed defect as required by Brentwood. All shipping and freight charges shall be prepaid by the Purchaser. The returned Product may be subject to a restocking charge of 30%.



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Warranty:

Brentwood warrants against defects in materials and workmanship. Warranty coverage is contingent on proper storage, installation, use, operation, maintenance, and shutdown procedures, all occurring under ordinary conditions and in compliance with good industry standards, the approved design criteria, Brentwood's approved Submittal and Operation and Maintenance Manual. The Warranty period shall be limited to twelve (12) months from Product shipment. The terms of this Warranty shall be modified only through written agreement by an authorized Brentwood employee. The remedy for a covered defect during the Warranty period shall be limited, at Brentwood's option and control, to repair or replacement of defective Parts and Components, including shipping costs. The remedy excludes costs of labor, removal of non-conforming Products, and expenses related to installation of the replacement Products.

THE TERMS OF THIS WARRANTY ARE THE SOLE AND EXCLUSIVE OBLIGATION OF BRENTWOOD TO PURCHASER OR THIRD PARTY FOR CLAIMS RELATED TO THE PRODUCT. UNDER NO CIRCUMSTANCE SHALL BRENTWOOD BE LIABLE TO ANY PERSON OR ENTITY FOR ANY INCIDENTIAL, CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES OR ANY OTHER LOSS, COST, OR EXPENSE OTHER THAN SPECIFICALLY STATED IN THIS WARRANTY. OTHER THAN THE EXPRESS LIMITED WARRANTIES MADE HERIN, BRENTWOOD EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED BY LAW, WITH RESPECT TO ANY SERVICE OR DELIVERABLE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AS WELL AS ANY WARRANTIES WHICH MAY ARISE FROM PRIOR COURSE OF DEALING, CUSTOM, TRADE USAGE, PROVISION OF SAMPLES, PRODUCT LITERATURE OR WEBSITE CONTENT.

Limitation of Liability:

REGARDLESS OF THE FORM OF ACTION, BRENTWOOD'S LIABILITY RELATING TO THE PRODUCT OR THE MANUFACTURE, SHIPPING, SALE OR USE OF THE PRODUCT SHALL NOT EXCEED THE PRICE PAID BY PURCHASER FOR THE SPECIFIC PRODUCT GIVING RISE TO THE CAUSE OF ACTION. BRENTWOOD, ITS AFFILIATES, AND THEIR OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS SHALL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS, LOSS OF USE, DOWNTIME, FAILURE TO DETECT ANY FLAW IN ANY SUBJECT MATTER OF ANY TEST, LOSS OF GOODWILL, BUSINESS INTERRUPTION, DELAY IN PERFORMANCE, OR LOST OPPORTUNTIES. REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT PRODUCT LIABILITY OR OTHERWISE IN CONNECTION WITH THE SUPPLY OR SUBSEQUENT USE OR POSSIBILITY OF SUCH DAMAGES.

Indemnification:

Purchaser will at all times indemnify, defend and hold harmless Brentwood, its officers, directors, employees, agents, servants and representatives from and against any and all damages, liabilities, losses, claims, suits, penalties, fines, costs, and expenses, including attorneys' fees (collectively, "Claims") arising directly or indirectly out of or in connection with any (a) infringement or misappropriation of any patent, trademark, or other intellectual property right, including third Party rights, arising from Brentwood's adherence to Purchaser's Specifications; (b) use, operation or possession of Brentwood Product, except to the extent the Claim arises from the gross negligence or willful misconduct of Brentwood; or (c) breach by Purchaser of any provision of any Agreement with tor obligation to Brentwood.

Brentwood will at all times indemnify, defend and hold harmless Purchaser from and against loss, injury, damage and liability arising directly in connection with bodily injury death, or destruction of tangible or real property, including loss of use directly resulting from or caused by Brentwood or Brentwood's product, its negligent act, error, omission or for damages arising from Brentwood's gross negligence or willful misconduct in performance of its obligations under this Agreement. Claims and damages are limited to Brentwood's proportionate percentage of negligence and/or fault.

Insurance:

Brentwood will maintain and carry insurance including, but not limited to Commercial General Liability in a sum of \$1,000,000 per occurrence and Workers Compensation in amounts as required by applicable statute. Additional coverages may be available. Upon request, Brentwood will provide to Purchaser a certificate of insurance evidencing its coverages.

Confidential Information:

All non-public, confidential and proprietary information ("Confidential Information"), whether disclosed orally or reduced to writing, whether or not marked or otherwise designated or not identified as such. Confidential Information does not include information which: (i) is or becomes available to the public generally (other than as a result of a disclosure by the Purchaser in violation of this Agreement); (ii) is subject to public disclosure under any federal, state or local law, ordinance or regulation; (iii) becomes available to Purchaser on a non-confidential basis from a source other than Brentwood; or (iv) was known by or was available to Purchaser prior to or at the time Brentwood disclosed it.

Purchaser agrees to protect and safeguard all Confidential Information with at least the same degree of care as the Purchaser would protect its own Confidential Information, but in no event with less than a commercially reasonable degree of care. Purchaser shall hold all Confidential Information in confidence and shall disclose it only to its employees needing to use the Confidential Information for the limited purposes of this Agreement and said employees shall be bound to the confidential Information of this Agreement. No other disclosure of Confidential Information is allowed unless written permission is granted by Brentwood'. Purchaser agrees not to use the Confidential Information in any manner to Brentwood's detriment, including without limitation, to reverse engineer, disassemble, analyze, decompile, copy, modify, develop, or design.

Force Majeure:

Brentwood shall not be liable or responsible to Purchaser, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term of this Agreement to the extent Brentwood's failure or delay is caused by or results from a force majeure event, including, acts of God; flood, fire, earthquake, pandemics, disease outbreaks, explosions or other natural disasters; war, invasion, hostilities, terrorist acts, civil unrest; government orders or actions; embargoes or blockades in effect on or after the date of this Agreement; national emergency; strikes, labor stoppages or slowdowns, or other industrial disturbances; shortage of adequate raw materials, labor, power, or transportation facilities; and other similar events beyond the reasonable control of Brentwood.

Brentwood shall give notice within fourteen (14) days of the force majeure event or as soon as reasonably practicable to Brentwood, stating the period of time the occurrence is expected to continue. Brentwood shall use diligent efforts to end the failure or delay and ensure the effects of such are minimized. Brentwood shall resume the performance of its obligations as soon as reasonably practicable after the removal of the cause. In the event Brentwood remains unable to perform its obligations within ten (10) weeks from notice of force majeure event Purchaser may terminate the Agreement.

Governing Law and Jurisdiction:

This Agreement shall be construed under the laws of the Commonwealth of Pennsylvania without reference to conflicts of law principles. The Parties hereby agree that disputes hereunder shall be subject to the exclusive jurisdiction and venue of the courts of Berks County, Pennsylvania, in either the Pennsylvania Court of Common Pleas or the United States District Court for the Eastern District of Pennsylvania. The Purchaser waives any objections based on personal or subject matter jurisdiction or venue.

Export Control:

Purchaser will not use, distribute, transfer, or transmit any Product, components or technical information (even if incorporated into other products) provided in connection with this transaction except in compliance with U.S. export laws and regulations (the "Export Laws"). Purchaser will not, directly or indirectly export or re-export the following items to any country which is in the then-current list of prohibited countries specified in any applicable Export Laws: (a) the Product, components or technical data disclosed or provided to Purchaser by Brentwood; or (b) any improvements or variations of such Product, components or technical data disclosed or provided to Burchaser by Brentwood; or (b) any improvements or variations of such Product, components or re-export any such items referenced in (a) or (b). The obligations stated above in this clause will survive the expiration, cancellation or termination of this Agreement.

Translation:

This document may be translated into one or more languages; however, the English translation shall be the official version and shall prevail over other translations. All dollar amounts are United States currency unless specified otherwise. Purchaser shall abide by the United States Foreign Corrupt Practices Act of 1997, as amended.

Assignment:

Purchaser shall not assign or delegate its obligation hereunder without Brentwood's written consent, and any attempted assignment or delegation without such written consent shall be void.

Waiver:

No waiver by Brentwood of any of the provisions of this Agreement is effective unless explicitly set forth in writing and signed by Brentwood. No failure to exercise, or delay in exercising, any right, remedy, power or privilege arising from this Agreement operates, or may be construed, as a waiver thereof. No single or partial exercise of any right, remedy, power or privilege hereunder precludes any other or further exercise thereof or the exercise of any other right, remedy, power or privilege.



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Severability:

If any term or provision of this Agreement is invalid, illegal or unenforceable in any jurisdiction, such invalidity, illegality or unenforceability shall not affect any other term or provision of this Agreement or invalidate or render unenforceable such term or provision in any other jurisdiction.

Notices:

All notices, requests, consents, claims, demands, waivers and other communications hereunder (each, a "Notice") shall be in writing and addressed to the Parties at the addresses set forth on the face of the Proposal or to such other address that may be designated by the receiving Party in writing. All Notices shall be delivered by personal delivery, nationally recognized overnight courier (with all fees prepaid or certified or registered mail (in each case, read receipt requested, postage prepaid). Except as otherwise provided in this Agreement, a Notice is effective only (a) upon receipt of the receiving Party, and (b) if the Party giving the Notice has complied with the requirements of this Section.

Authority:

The individual assenting to or executing any documents or orders, whether as a hard copy or, on behalf of Purchaser acknowledges, represents and warrants that he or she has read and understands these Terms and Conditions and has been duly authorized by the Purchaser to execute such on behalf of the Purchaser and bind the Purchaser to these Terms and Conditions.

Relationship of the Parties:

The relationship between the Parties is that of independent contractors. Nothing contained in this Agreement shall be construed as creating any agency, partnership, joint venture or other form of joint enterprise, employment or fiduciary relationship between the Parties, and neither Party shall have authority to contract for or bind the other Party in any manner whatsoever.

Survival:

Provisions of this Agreement which by their nature should apply beyond their terms will remain in force after any termination or expiration of this Agreement.

Amendment and Modification:

This Agreement may only be amended or modified in writing by Brentwood and executed by an authorized representative of each Party.

By signing below both Parties accept Brentwood Water Group (Water and Wastewater) Standard Terms and Conditions of Sale.

BRENTWOOD INDUSTRIES, INC.

By: ______ Print Name: ______ Title: ______ Brentwood Industries, Inc.

PURCHASER	
Ву:	
Print Name:	
Title:	
Company:	



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J I M M Y E R S & S O N S, I N C. P.O. Box 38778, Charlotte, North Carolina 28278 Phone: 704-554-8397, Fax: 704-554-9113, www.jmsequipment.com

April 10, 2024

TO: SOCWA

SUBJECT: Laguna Nigel, CA (SOCWA Coastal WWTP) Proposal – JMS Helical Mega-SKIMMERS

Greetings:

Based on the information provided, we are pleased to quote as follows.

JMS Mega-SKIMMERS:

Our proposal includes a total of six (6) helical skimmers. Each helical skimmer will be driven by one (1) drive system.

Primary Tanks will have three 18" diameter x 16 ft long units complete with beach and collection trough. Secondary Tanks will have three 18" diameter x 25 ft long units with beach. Existing concrete collection troughs will be reused.

The skimmer will consist of:

- 1 HP Close-coupled integral TEFC gearmotor
- Adjustable drive baseplate to control chain tension
- Drive sprocket with shear pin and UHMW-PE teeth
- Driven sprockets with UHMW-PE teeth
- Non-metallic drive chain
- T-304 stainless steel pipe shaft
- ¼" thick T-304 stainless steel skimmer flights (2 flights per shaft)
- 10-gauge thick T-304 stainless steel backer plate for flights
- Neoprene skimmer blades
- Bearings with UHMW-PE liner
- All required stainless steel bolts and anchors

The beach will consist of:

- 3/16" thick T-304 stainless steel sloped beach
- All required stainless steel anchors and supports

The trough (Primary Tanks Only) will consist of:

- 3/16" thick T-304 stainless steel trough
- All required stainless steel anchors and supports

Spare Parts:

• One set of neoprene skimmer blades.

Panels are not included but can be quoted if needed.

(Pricing subject to the Terms and Conditions that follow)

If you have any questions concerning this proposal, please contact Misco at (949) 322-1551.

Thank you,

Adrian Scottorn **Technical Sales Manager** Jim Myers & Sons http://www.jmsequipment.com



JIM MYERS AND SONS, INC.'S SPECIAL PROJECT CONDITIONS

Jim Myers and Sons, Inc.'s ("Seller" or "JMS") Special Project Conditions and Terms and Conditions of Sale of Goods, Materials, and Equipment (the "Agreement") attached hereto apply to the sale of the equipment as set forth in the Project Scope and are attached and made part of the applicable Purchase Order ("PO") issued by the Buyer or Customer. The sale of the equipment is expressly conditional on the acceptance of these Special Conditions and the attached Terms and Conditions. No order for goods or services shall be binding upon Seller until acknowledged in writing by Seller. Any PO, offer, or counter-offer made by Buyer or Customer before or after Seller's written acknowledgement is rejected and all documents exchanged prior to Seller's written acknowledgement are merely preliminary negotiations and not part of any agreement between the parties. For example, orders submitted on Buyer or Customer's own purchase order forms modifying, adding to, contrary to, or inconsistent with these Special Conditions and Terms and Conditions are expressly rejected and of no force or effect and acceptance is expressly made conditional upon assent to these terms. No other terms or conditions or modification of these terms shall be binding upon Seller unless specifically accepted in writing.

- 1. **PRICING:** Product pricing is subject to this Agreement, including delivery schedule, as defined in this document. Seller reserves the right to modify pricing to accommodate other situations and requests. Pricing is subject to the Exclusions noted in Section 7. Price is valid for 30 days.
- 2. PAYMENT TERMS: JMS payment terms are defined as follows:
 - a. 5% upon fully executed purchase order
 - b. 10% upon delivery of submittals (prorated per equipment category)
 - c. 10% upon approval of submittals (prorated per equipment category)
 - d. 30% upon raw material purchase (material will be ordered per equipment type as necessary to meet production schedule)
 - e. 40% upon offer to deliver equipment (prorated per equipment category)
 - f. 5% upon field service startup, beneficial use, whichever is earliest (prorated per 5 visits), not to exceed 90 days from installation (prorated per equipment category)
 - g. If Buyer or Customer fail to make payment when due as outlined in the Payment Terms, Seller shall have the right, but not obligation, to stop delivery and/or work and terminate any agreement between the parties.
 - h. Past due payments will bear interest at the rate of 1.5% per month of the invoiced amount.
 - i. At any time prior to or after commencement of delivery or work on an agreement between the parties, Seller may request that Buyer or Customer provide reasonable documentation demonstrating that Buyer or Customer has the ability to perform all payment obligations specified in.
- **3. SUBMITTAL/EQUIPMENT DELIVERY:** Pricing is quoted DAP (Delivery at Place) which includes shipping to the job site.
 - a. Approval submittal timing to be mutually agreed upon prior to PO execution. Submittal timing is currently estimated between 10-12 weeks from fully executed PO. Submittal approval must occur within 60 calendar days from the initial submittal date or lead time may change based on manufacturer's production schedule. Seller may modify pricing if the submittal approval is in excess of 60 calendar days through no fault of Seller. Additionally, submittals outside the agreed upon schedule or beyond two re-submittals will require a change order, not to include resubmittals solely due to Seller's errors and omissions. Any delay in submittal approval that is not solely due to the Seller's omissions and errors shall not be a basis for delay damages. Seller expressly reserves the right to increase costs and charge for costs relating to any delays not solely attributable for the

Seller in the submittal process.

- b. Delivery of equipment will require approximately 26-30 weeks after receipt of fully approved submittals. The projected shipment dates are approximate and subject to change. Seller shall not be liable for any damage as a result of any non-delivery or delay, including, without limitation, an act of God; act of Buyer or Customer; embargo; other government act, regulation or request; fire; accident; strike; war; boycott; slowdown; riot; or delay in transportation or inability to obtain necessary labor, materials, or manufacturing facilities. Under no circumstances shall Seller be liable for any direct, or indirect, consequential, incidental, liquidated, or other damages for delay in delivery.
- c. Large quantities of equipment (i.e. multiple phases or basins) may require staged shipments with the first shipment arriving as noted above and subsequent shipments staged to accommodate the project installation schedule as JMS manufacturing will allow. Staged shipment schedules must be agreed upon before execution of the PO.
- d. Seller reserves the right to substitute suitable alternative materials and components where necessary.
- e. If delivery is delayed or deferred by Buyer or Customer beyond the scheduled date, payment shall be due in full when Seller is prepared to ship the goods or perform the services. The goods may thereafter, at Seller's option, be stored at the risk and expense of Buyer or Customer.
- f. For any delays or postponement of the delivery date, which are not the fault or responsibility of Seller, a finance charge of 1.5% per month of the contract value will be assessed to the Purchase Price.

4. ACCEPTANCE OF GOODS.

- a. All equipment and components delivered to the receiving location shall be immediately inspected by Buyer or Customer. Any visible damages must be noted and Buyer must deliver a full and complete inspection report to Seller within ten (10) days from delivery date. If a written report is not received by Seller within this period it shall be conclusively assumed that the equipment was received in good condition, meets the specifications of the PO and/or equipment, constitutes unqualified acceptance by the Buyer or Customer, and Buyer or Customer waives any rights to rejection or remediation of delivered equipment.
- b. Buyer or Customer may not unreasonably refuse delivery of goods or withhold acceptance of goods. Under no circumstances shall Seller be liable for any direct, or indirect, consequential, incidental, liquidated, or other damages for delay in delivery. For any unreasonable refusal by Buyer, a finance charge of 1.5% per month of the contract value will be assessed to the Purchase Price.

5. FIELD SERVICE:

- a. When services are to be performed on a certain premises, Buyer or Customer agrees to provide Seller with such access, machine downtime, utilities, and equipment as Seller shall reasonably require on a timely basis in order to perform the services efficiently and in accordance with the Agreement. If Buyer or Customer fails to perform its obligations or shall fail to perform them in a timely manner, Seller acknowledges and agrees that Seller shall be entitled to delay performance of services, without penalty or liability of any kind, until such time as Buyer or Customer has complied in all respects with its obligations stated in the Agreement. Buyer or Customer further agrees to increase the price for services to reflect any increased cost to Seller caused by Buyer or Customer's failure to perform or Buyer's late performance.
- b. Five (5) trips, fifteen (15) 8-hour days total included for installation inspection, equipment startup, operator/maintenance staff training, and travel (JMS Field Service).
- c. Buyer or Customer shall compensate Seller for any additional visits caused by site delays and that result in Seller's inability to complete services and/or start-up services during scheduled site visits.

- d. No contractual warranty or indemnity relating to any field service is extended to Seller, nor are its field service representatives authorized to bind Seller with any oral representations or statements in conflict with this Agreement.
- 6. **SPARE PARTS:** No spare parts are included.
- 7. WARRANTY: Seller guarantees all equipment/ materials, manufactured or supplied by JMS, to be free from defects in material and workmanship at the time of start-up/beneficial use of each basin for a period of one (1) year, not to exceed eighteen (18) months from date of shipment. Seller will furnish without charge, but will not install, replacements for such parts/materials as we find to be defective.

This guarantee shall not apply to any equipment which has been improperly handled or stored, improperly lubricated, subjected to misuse or neglect, misapplied with reference to the engineer's specifications, altered or tampered with, or damaged by corrective work performed without our specific written consent. No allowances will be made for such corrective work done without such consent. Deterioration by chemical action, improper maintenance, or normal wear does not constitute defects and are therefore not covered by this warranty. Consumable items are not covered by this warranty. All warranty claims must be submitted within ten (10) calendar days of discovery of defects, or it shall be deemed waived. The foregoing is in lieu of all other warranties, whether expressed or implied.

8. EXCLUSIONS:

- a. Site offloading, installation, measurements, storage, field assembly and/or paint touch up.
- b. Any calculations on anything not in JMS's scope of supply.
- c. Control panels, junction boxes, conduit, or any electrical devices not specifically detailed above.
- d. Any items required for system completion not listed on the Scope of Supply are considered exclusions.
- e. All taxes including sales, use, gross receipts, or similar taxes imposed by federal, state, or local authorities.

ACKNOWLEDGMENT

Each party acknowledges that they have read this Agreement, understand the terms of this Agreement, have had the opportunity to consult with independent legal counsel in connection with this Agreement, and have signed this Agreement voluntarily.

BUYER OR CUSTOMER	SELLER
 Authorized Signature	Authorized Signature
Print Name and Title	Print Name and Title
Date	Date

METHOD TO ADJUST PRICE BASED ON STAINLESS STEEL PRICE FLUCTUATIONS

The Equipment Price shall be adjusted twice based on the fluctuation of stainless-steel surcharge plus base price. Each adjustment will take place upon receipt of the complete order of raw materials for the period. Pounds of steel used in the calculation will be derived from the JMS GA equipment drawings for the equipment to be shipped during the period. Period 1 adjustment will take place at the end of raw material delivery for Phase 1 of the shipments. This will include SS raw material needed to produce Phase 1 Plate Settlers. Period 2 adjustment will take place at the end of raw material needed to produce Phase 2 and Phase 3 shipments.

The web address for the reference stainless steel surcharge prices is the North American Stainless-Steel website at: <u>https://www.northamericanstainless.com/NAS_App/Surcharge2</u> The current stainless steel 304/304L surcharge will be compared to the surcharge at adjustment time. Both are measured in cents per pound.

The base price fluctuations will also be documented through announcements on the North American Stainless Steel website for cold rolled standard chemistry 304 Stainless Steel. The changes in base price will be expressed by the change in Discount Points. Each change of 1 discount point represents \$0.0233 per pound. JMS will monitor for any changes in the discount points for 304 Stainless Steel monthly and provide all data to the customer. JMS will also validate data from the website with a letter from the mill making the same announcement. At the time of the adjustment event, any positive or negative changes in discount points for the entire period will be used to calculate the net change.

North American Stainless-Steel website for price announcement changes: https://www.northamericanstainless.com/news/

Example:

= [(April 2020 surcharge price – February 2019 in \$/lb) + (Net change of discount points for the period of February 2019 thru April 2020 * \$0.0233/lb] * Total Weight equipment pounds of steel used = \$ adjustment

Buyer or Customer will acknowledge this adjustment value with a change order, positive or negative, within 45 days.

<u>Terms and Conditions of Sale of Goods, Materials, or</u> Equipment Where Jim Myers and Sons, Inc. is the Seller

1. AGREEMENT. These terms and conditions of sale apply to all goods, services, or combination of goods and services, sold, furnished or provided by Jim Myers and Sons, Inc. (the "Seller") to the Customer. These terms are applicable to the goods and services (the "Product") provided by the Seller to the Customer and to the extent the parties have agreed to any other terms, the terms of this document shall be read in concert with those terms. To the extent there are conflicting terms, the terms in this document shall govern.

2. PRICE; PAYMENT. The price stated in Seller's quotation is firm for thirty (30) days ("Price"). Unless otherwise agreed to in writing, the Price does not include installation, field assembly, freight, insurance, duties, finished product storage, and/or taxes, including sales, use, gross receipts, or similar taxes imposed by federal, international, state or local authorities. Payment terms are as indicated in Seller's quotation and the Purchase Order, or if not stated, Customer shall pay within thirty (30) days net unless otherwise agreed in writing. All payments shall be made without deduction, deferment, set-off, lien, or counterclaim of any nature. All amounts not paid within thirty (30) days after the date such amounts are due and payable shall bear interest at the rate of 1.5% per month, 18% APR, calculated daily and compounded monthly. If Customer does not pay the Seller through no fault of the Seller, within thirty (30) days from the time payment should be made as outlined in the Purchase Order, the Seller may, without prejudice to any other available remedies, and upon written notice to the Customer, stop the work of this Purchase Order until payment of the amount owed has been received.

3. PRICE ESCALATIONS. If the cost of goods and materials for this Purchase Order increases from the time the Customer enters into this Purchase Order through the date Seller orders the materials for this Project, Seller shall be entitled to a change order increasing the amount Customer pays Seller in a corresponding amount of the increased cost of goods and material plus a corresponding increase for overhead and profit. Increases may include any increases caused by tariffs, surcharges, trade disputes, or any other reason that increases the costs of goods and materials. In support of a change order request due to increased costs of goods and materials, upon a written request from Customer, Seller shall provide documentation to Customer of both the original and increased costs of goods and materials.

4. DELIVERY. The cost of freight is only included in the Price if specifically noted on the Purchase Order. Unless otherwise agreed to in writing, delivery is DAP. Dates for the delivery or shipment of goods or performance of the services are approximate only and are subject to change.

5. FORCE MAJEURE/EXIGENT CIRCUMSTANCES. The Seller is not liable for delays in performance or delivery due to causes beyond its reasonable control, including any labor difficulties, shortages, strikes or stoppages of any sort, failure or delay in obtaining materials from ordinary sources, riot, war, accidents, pandemic, epidemic, fires, floods, storms, or other acts of God or any similar or dissimilar events. If such a delay occurs, the Seller may, at its option, extend the performance or delivery date for a period of time equal to the delay or terminate acceptance of the purchase order. Under no circumstances, shall Seller be liable for any direct, or indirect, consequential, incidental, liquidated or other damages for delays in performance or delivery.

6. WARRANTIES. The Seller hereby assigns to the Customer any rights it may have under any warranty extended by a third party covering the goods or part thereof. Goods manufactured by others and resold by the Seller carry the original warranty but do not carry any additional warranty by the Seller unless stated specifically in writing or as set forth below.

(a). <u>LIMITED WARRANTY</u>. The Seller warrants that the Product shall be free from defects for a period of one year from the date of delivery unless otherwise agreed to in writing.

(b). <u>WARRANTY NOTICE AND REMEDY</u>. The Customer must make a claim for any breach of warranty by written notice to the Seller's home office within ten (10) days of the discovery of the defect or non-conformance. The Seller will, at its option and expense, repair or replace, but not install, any parts and/or materials that it determines are defective, or will re-perform any services which do not meet this warranty. No expenses incurred by the buyer in replacing, repairing or returning defective goods, services, or replacement parts will be reimbursed by the Seller. These remedies are the exclusive remedies for breach of warranty.

(c). EXCLUSIONS FROM WARRANTY. These warranties are inapplicable to and exclude: (i) damage caused by accident, misuse or negligence, improper handling, improper lubrication, normal wear and tear, erosion, corrosion or by disasters such as fire, flood, wind and lightning; (ii) damage caused by the failure to follow all installation and operating instructions or manuals or to provide normal maintenance; (iii) damage caused by unauthorized or improper installation, repairs or modifications, or failure to adhere or any deviation to engineer's specifications; (v) damage caused by altering or tampering with the product or corrective work performed without Seller's specific written consent; or (vi) any other abuse, neglect, or misues. THE SELLER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. SECURITY INTEREST. Until payment in full of the price, the Seller retains a287 purchase money security interest in the Product to secure full payment of the price. The Customer authorizes the Seller to record its security interest, to file a mechanic's lien, or both to secure payment. Upon request, the Customer will promptly sign any

documents reasonably related thereto. The Customer will not encumber the Product with any mortgage, lien, pledge or other attachment prior to payment in full of the price therefor.

8. HAZARDOUS MATERIALS. Any hazardous materials encountered by the Seller at the site will be the responsibility of the Customer and may cause delays in performance.

9. SELLER'S REMEDIES. The Seller has the right to recover all amounts owed or incurred as a result of the goods and services it has provided. Customer specifically agrees that in the event Customer's creditworthiness becomes unsatisfactory to the Seller or upon Customer's default prior to receipt of payment in full, the Seller shall have the following rights, in addition to any and all other rights that Seller may possess under federal, state or locallaw:

(a) At any reasonable time, to withhold shipment or suspend providing services in whole or in part;

(b) To require cash payments or satisfactory security for future

deliveries of goods or the provision of services; (c) To recall goods in transit and retake the same;

(d) To peaceably enter upon Customer's premises to repossess the goods,

without the necessity of any legal notices or process; and/or,

(e) To terminate this agreement.

Customer acknowledges and agrees that all goods withheld, recalled, retaken or repossessed shall become the absolute and sole property of the Seller subject to the equitable right of set-off for any partial payment made to the Seller for such goods.

If Customer terminates the Purchase Order for convenience, Customer will compensate Seller for work performed and materials purchased before Seller received the Notice of termination, as well as any other expenses reasonably or necessarily incurred in connection with the termination.

Seller agrees that this Purchase Order is an evidence of indebtedness. In the event Seller institutes legal proceedings in the collection of any outstanding balance owed to Seller, Seller is entitled to its reasonable attorneys' fees in such proceedings. 10. LIMITATION OF LIABILITY. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY THIRD PARTY FOR ANY LOSS OF USE, REVENUE OR PROFIT, OR FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE AND WHETHER OR NOT SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND NOTWITHSTANDING THE FAILURE OF ANY AGREED OR OTHER REMEDY OF ITS ESSENTIAL PURPOSE. AFTER THE WARRANTY PERIOD EXPIRES, IN NO EVENT SHALL SELLER'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO THIS AGREEMENT, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, **EXCEED 10% OF THE PURCHASE PRICE.**

11. INDEMNITY. The Customer shall defend, indemnify and hold harmless the Seller, its agents, directors, officers and employees, from and against any and all claims, demands, causes of action, losses, costs, damages, liabilities and expenses (including reasonable attorney's fees and litigation expenses) arising out of or resulting from Customer's breach of any provision of this agreement or any negligent acts or omissions of Customer, or its agents, employees, subcontractors, vendors or invitees in connection with this agreement.

12. GOVERNING LAW AND DISPUTE RESOLUTION. This agreement and any dispute arising under or related thereto, whether in tort or contract, shall be governed and decided in accordance with the laws of the State of North Carolina. Any dispute, controversy or claim arising out of, or in connection with the provision of goods, services, this agreement, or any combination thereof, including its breach, termination or invalidity, shall be finally settled without recourse to state or federal courts in accordance with the rules of the Construction Industry Arbitration Rules of the American Arbitration Association. Venue for arbitration proceedings shall be in Mecklenburg County, North Carolina. Customer expressly agrees and consents to personal jurisdiction in the state of NorthCarolina. The arbitrator shall award attorneys' fees, costs, witness costs, expert witness fees, arbitrator compensation, arbitrator fees, exhibit fees, travel costs and other amounts deemed reasonable to the prevailing party as defined by North Carolina General Statute §44A et al.

13. NOTICES. Unless specifically directed otherwise, whenever written notice is required under this Agreement, it may be provided by e-mail or other recognized electronic means and the parties further agree that communications and other business dealings between the parties may where appropriate also be conducted by such means.
14. GENERAL. The rights and remedies contained herein are the exclusive remedies available for breach. No course of prior dealings and no usage of the trade shall be relevant to supplement or explain any terms used herein. If any provision of this Agreement is held to be invalid or unenforceable, such holding shall not affect the validity or enforceability of any other provision herein. No waiver by either party of any default or breach by the other party will operate as or be deemed a waiver of any subsequent default or breach.

Agen	da Item	7.A .
		Budgeted: Yes
		Budget amount: \$200,000.00
		Line Item: CIP #37229C
		Legal Counsel Review: No
		Meeting Date: August 8, 2024
то:	Board of Directors	
FROM:	Jim Burror, Acting Genera	al Manager/Director of Operations
STAFF CONTACT:	Amber Boone, Director of	Environmental Compliance

SUBJECT: SOCWA Laboratory Feasibility Study Contract Award

<u>Summary</u>

On April 24, 2024, SOCWA staff met with interested parties to discuss the laboratory request for proposal review, including design criteria and associated costs. Following the direction of the May 9, 2024, Engineering Committee meeting, SOCWA staff requested updated proposals from bidders, focusing on Options 1 and 2 while removing Options 3 and 4. The updated scoring criteria and cost allocations led to the recommendation of awarding the contract for the SOCWA Laboratory Feasibility Study to the Austin Company for \$83,800.

Discussion

On April 24, 2024, SOCWA staff met with interested parties about the laboratory request for proposal review. The design criteria were discussed, and the cost of performing the work by member agency and design criteria were also addressed. SOCWA staff then met again with member agencies as a follow-up from the May 9, 2024, Engineering Committee meeting. Member agencies provided direction to focus on options 1 and 2 and table discussion for options 3 and 4 for the laboratory feasibility study. SOCWA staff returned to the original proposers and requested updates to their proposals. SOCWA staff adjusted the rating criteria to match the new proposals and allocated costs using Method 4 from May 9, 2024, Engineering Committee meeting, agenda item 6, as noted below.

SOCWA received three bids for a feasibility study based on the following criteria:

- Laboratory as Is (Option 1)
- Drinking Water Laboratory Separate Space (Option 2)
- Regional Laboratory Consolidation (Option 3)
- Incorporating an Indirect/Direct Potable Reuse and Desal Lab (Option 4)

Based on direction from member agencies, SOCWA staff contacted the three firms that bid on the project and requested that the scopes be revised to remove options 3 and 4. The cost portion of the scoring represents 60% of the scoring criteria. SOCWA staff updated the scoring criteria based on the new proposals, as shown in Table 1.

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Criteria	MWA Architect (MWA)	The Austin Company	The IDS Group (IDS)
Total Ratings	202	180	129
Cost	\$176,488.00	\$197,200.00	\$192,351.00
Updated Ratings	191	201	128
Updated Proposal	\$ 146,788.00	\$ 83,800.00	\$ 140,914.00

Table 1: Original and updated rating scores and pricing

SOCWA staff also received a recommendation to update the allocation method from PC17 Common to Method 4, which was presented at the May 9, 2024, Engineering Committee Meeting. Method 4 provided the cost allocations based on the current allocation of laboratory operating and maintenance costs. Tables 2-4 provide updated costs per member agency for each new proposal.

 Table 2: MWA updated costs using allocation method 4

	PC2	PC5	PC15	PC17	PC24	Total
Agency/Fee Allocation	\$28,785.13	\$33,394.27	\$20829	\$33,115.37	\$30,664.01	\$146,788
CLB	\$0	\$0	\$7,754	\$2,362	\$3,392	\$13,508
CSC	\$0	\$5,543	\$0	\$0	\$0	\$5,543
EBSD	\$0	\$0	\$395	\$113	\$245	\$753
ETWD	\$0	\$0	\$0	\$3,127	\$4,995	\$8,122
IRWD (c/ETWD)	\$0	\$0	\$0	\$0	\$4,842	\$4,842
MNWD	\$6,016	\$5,176	\$1,580	\$25,431	\$13,421	\$51,625
SCWD	\$6,074	\$4,174	\$11,101	\$2,082	\$3,769	\$27,199
SMWD	\$16,695	\$18,500	\$0	\$0	\$0	\$35,196
Total	\$28,785	\$33,394	\$20,829	\$33,115	\$30,664	\$146,788

Table 3: The Austin Company updated costs using allocation method 4

	PC2	PC5	PC15	PC17	PC24	Total
Agency/Fee Allocation	\$16,433	\$19,065	\$11,891	\$18,905	\$17,506	\$83,800
CLB	\$0	\$0	\$4,427	\$1,349	\$1,937	\$7,712
CSC	\$0	\$3,165	\$0	\$0	\$0	\$3,165
EBSD	\$0	\$0	\$225	\$65	\$140	\$430
ETWD	\$0	\$0	\$0	\$1,785	\$2,851	\$4,637
IRWD (c/ETWD)	\$0	\$0	\$0	\$0	\$2,764	\$2,764
MNWD	\$3,435	\$2,955	\$902	\$14,518	\$7,662	\$29,472
SCWD	\$3,467	\$2,383	\$6,337	\$1,188	\$2,152	\$15,528
SMWD	\$9,531	\$10,562	\$0	\$0	\$0	\$20,093
Total	\$16,433	\$19,065	\$11,891	\$18,905	\$17,506	\$83,800

	PC2	PC5	PC15	PC17	PC24	Total
Agency/Fee Allocation	\$27,633	\$32,058	\$19,996	\$31,790	\$29,437	\$140,914
CLB	\$0	\$0	\$7,444	\$2,268	\$3,256	\$12,968
CSC	\$0	\$5,322	\$0	\$0	\$0	\$5,322
EBSD	\$0	\$0	\$379	\$109	\$235	\$723
ETWD	\$0	\$0	\$0	\$3,002	\$4,795	\$7,797
IRWD (c/ETWD)	\$0	\$0	\$0	\$0	\$4,648	\$4,648
MNWD	\$5,775	\$4,969	\$1,517	\$24,413	\$12,884	\$49,559
SCWD	\$5,831	\$4,007	\$10,656	\$1,998	\$3,618	\$26,111
SMWD	\$16,027	\$17,760	\$0	\$0	\$0	\$33,787
Total	\$27,633	\$32,058	\$19,996	\$31,790	\$29,437	\$140,914

Table 4: IDS updated costs using allocation method 4

Due to the Austin Company's higher overall score, the Engineering Committee members recommend the Austin Company with cost allocation distribution provided in Table 3.

Financial Impacts

Laboratory capital expenses are allocated based on PC17 Common allocation based on the PC agreements and past practices approved with the annual SOCWA Budget.

The Engineering Committee recommendation to allocate project costs based on the actual use of the laboratory (method 4) versus the PC17 Common allocation requires unanimous consent of the seven (7) SOCWA Board members. The Engineering Committee unanimously approved the recommendation to use an alternative funding allocation.

Recommendation Action: The Engineering Committee recommends that the Board of Directors award the SOCWA Laboratory Feasibility Study contract to the Austin Company for \$83,800 using the allocations in Table 4.

Attachments

Updated proposals from MWA, IDS, and the Austin Company.



Request for Proposal

Laboratory Upgrades Feasibility Study

South Orange County Wastewater Authority

34156 Del Obispo Street Dana Point, California 92629

www.idsgi.com

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Cover Letter

March 12, 2024



Ms. Jeanette Cotinola South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92629

SUBJECT: Request for Proposal - Laboratory Upgrades Feasibility Study

Dear Ms. Cotinola and Members of the South Orange County Wastewater Authority Selection Committee,

IDS Group, Inc. (IDS) understands that the South Orange County Wastewater Authority (SOCWA) is soliciting proposals from firms to provide a feasibility study for the RTP Laboratory Upgrades (Project). IDS has a capable team to demonstrate solutions that fit the unique challenges of the project that were presented at the preproposal meeting on February 13th, 2024. IDS will take a thoughtful approach to address the challenges presented currently at the building and site in partnership with SOCWA and its stakeholders.

With more than 60 years' experience providing architecture and engineering expertise to a vast number of public agencies throughout Southern California, IDS specializes in the discovery process for land planning opportunities which bring best value design to each of our clients.

IDS' Value to the South Orange County Wastewater Authority:

Local Knowledge and Understanding of Expectations from Public Water and Utility Agencies

• The IDS team is thoroughly familiar with the application of various codes and guidelines as it pertains to utility agencies, including California Code of Regulations (CCR), Title 24, NPDES, WSSC, California Public Utility Codes, and EPA requirements. The following work examples highlight IDS' successful collaboration with various utility agency in Southern California to ensure their projects get completed within time, budget, and schedule.

Expertise with Feasibility Studies for Public Agency Operational Needs and Requirements

- IDS brings programming, concept design, and phase expertise thanks to our recent work for the Orange County Health Care Agency (OCHCA). For OCHCA, IDS completed program development, concept design, and development of a phased construction plan for the agency's existing headquarters.
- In addition, the IDS project team provided existing facility evaluation, programming for building expansion, concept design, cost estimation, and development of project timelines for the following public agencies: West Basin Municipal Water District, City of Commerce, City of Maywood, County of Orange, City of Irvine, Riverside County Sheriff's Department, Department of General Services, Sweetwater Union High School District, and the Los Angeles Community College District.

Economy of Scale Approach

 Clients benefit from working with IDS as one company all under one roof where the cost savings are realized through an efficient, well-coordinated team and a single point-of-contact to service SOCWA. IDS is ready to work on this project with a local, multi-discipline architectural-engineering team available to meet SOCWA's needs from onset of the project.

¹ Peters Canyon Road, Suite 130, Irvine, California 92606 🔺 949.387.85000 🔺 949.387.0800 🔺 www.idsgi.com



Ms. Jeanette Cotinola March 12, 2024 Page 2

IDS looks forward to speaking with you further regarding our services, expertise, and experience and how we can best assist South Orange County Wastewater Authority. Mr. Joseph MacDonald, RA, NCARB, will be the point-ofcontact for the project. He can be reached at 949. 387-8500 ext. 157 or joseph.macdonald@idsgi.com. Mr. Said Hilmy, Principal of IDS Group, hereby acknowledges that he will be the contract administrator for South Orange County Wastewater Authority and will negotiate and contractually bind the firm regarding matters pertaining to this Proposal. If you require further information, please contact him directly at 949.387.8500 ext. 116 or said. hilmy@idsgi.com.

IDS makes the following statements:

- IDS 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.
- IDS is willing and able to obtain all insurance required.
- IDS 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 IDS to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.
- IDS acknowledges and agrees with all terms and conditions stated in the RFP.
- All information provided in connection with its proposal is true, complete, and correct.
- IDS acknowledges Addendum #1 dated February 1, 2024.
- IDS acknowledges Addendum #2 dated February 13, 2024.

Thank you.

Sincerely,

IDS Group

Joseph MacDonald, RA, NCARB Associate Principal Architect

And Kneme

Said Hilmy, Ph.D., SE, LEED AP Principal and Contract Administrator



1. Identification of Responder

IDS GROUP



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Multi-discipline Architecture-Engineering Consulting Firm

IDS is a multi-discipline architecture-engineering (A/E) consulting firm providing design solutions for community focused facilities that maximize value, efficiency, and resiliency.

"IDS" stands for Integrated Design Services, as our service delivery model. We bring a broad architectural and engineering understanding, inherent curiosity, and sound technical expertise, and then apply these skills to each project's unique set of circumstances.

With a staff of 80 located in offices throughout Southern California, IDS provides integrated design services through our in-house specialized divisions including architecture, landscape architecture civil, structural, mechanical, plumbing, and electrical engineering, and cost estimation services. Our fullarray of technical disciplines provides a seamless team as well as innovative solutions to achieve project goals and objectives.

IDS Group, I	nc. Business Information
Company Ownership	IDS is a California Corporation
Owners	Said Hilmy, President Rami Elhassan, Secretary
Office Work Locations	Corporate Office 1 Peters Canyon Road, Suite 130 Irvine, California 92606 T: 949.387.8500
	Inland Empire Office 980 Montecito, Suite 205 Corona, CA 92879 T: 951.631.8550
	San Diego Office 336 Encinitas Boulevard, Suite 110 Encinitas, CA 92024 T: 619.768.6784
Number	
of Local	80
Employees	

AA IDS GROUP



IDS Group, Inc. (IDS) is a multidisciplinary architectural and engineering consulting firm with roots spanning over 60 years. With a staff of approximately 80 professionals, our integrated design team provides added value through our specialized divisions – architecture and structural, civil, mechanical, plumbing, and electrical engineering, as well as cost estimating services, maximizing service efficiency. IDS is committed to project excellence, providing turnkey design solutions to the building and infrastructure industries.

IDS incorporates sustainable, energy-efficient, and environmentally conscious designs as a significant component of each project. We are recognized for our use of water-efficient plant materials, recycled materials, and waterefficient irrigation systems. IDS is a member of the Green Building Council, on design teams for LEED-certified building projects, and employs numerous full-time LEED Accredited Professionals.

IDS is headquartered in Irvine, CA with offices in Los Angeles, Corona, and San Diego, ensuring local knowledge and providing our clients with quick response time. As a multi-disciplinary engineering and architectural firm, IDS has the practical knowledge, insight, and resources to offer comprehensive services and specialized solutions to our clients.

In-House Engineering and Architectural Services

"IDS" stands for Integrated Design Services, as our service delivery model. We bring a broad architectural and engineering understanding, inherent curiosity, and sound technical expertise, and then apply these skills to each project's unique set of circumstances.

IDS' In-House Technical Capabilities

Architecture

IDS' architectural division provides design, planning, programming, project management, and renovation services to public and private clients throughout California. Our architectural services involve building assessments, alterations, and modifications, accessibility studies, ADA compliance studies and design, ZNE, LEED, fire and life safety assessment and design, code review, space planning, remodeling, repair of damaged and deteriorated structures, and expansions and additions to existing facilities.

Our architectural services involve building assessments, alterations, and modifications, accessibility studies, ADA compliance studies and design, fire and life safety assessment and design, code review, space planning, remodeling, repair of damaged and deteriorated structures, and expansions and additions to existing facilities. Project experience of IDS staff encompasses new construction, renovation, re-adaptation, and tenant improvements to a variety of building types.



IDS GROUP, INC.

PROVIDING INTEGRATED DESIGN SERVICES

WHY IDS

Large enough to deliver.... Our staff includes over 70 professionals We have the capacity to deliver on small, large, complex, essential and 24/7 facilities

Value-Added Services....

Our practice delivers added value by providing access to multiple in-house disciplines through a single point of contact

> In-house experienced Heathcare A/E

Unparalleled Technical Experience....

Numerous public works design and improvement projects

Wide array of in-house design services from civil, structural, architecture, mechanical, plumbing, electrical and cost estimating



Landscape Architecture

IDS has an award-winning and dedicated team that specializes in building healthy places for communities through the practices of landscape architecture, community engagement and ecological restoration. The team focuses on the relationship between land and people because where we believe that a community is are only as healthy as our surroundings. Most of the team's work lies in municipalities, counties and other California agencies working closely with clients and stakeholder groups to design and build healthy communities and improve quality of life. The projects the IDS team designs:

- Draw from and respect the natural and cultural environment.
- Interpret the histories of the land and people through materials and sometimes art and improve the natural ecological systems.
- Specialized expertise includes historic preservation, adaptive re-use, cultural landscapes, cultural and natural history interpretation, ecological restoration, sustainable design, drought tolerant planting, low water irrigation systems, and context-integrated design.

Civil Engineering: IDS has an in-house team specialized civil engineering design, planning and entitlement, surveying and mapping, construction survey, LEED, sustainable design, construction administration, and traffic engineering services to public agencies, owners, and developers of retail, commercial, office, industrial, institutional, and residential projects throughout the United States.

Mechanical and Plumbing Engineering:

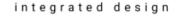
The mechanical engineering division of IDS is comprised of experienced professional engineers (30+ years) and designers who are experts in the fields of heating, ventilating, air conditioning (HVAC), plumbing, piping, and fire protection. Our services included the renovation and replacement of air conditioning and mechanical/electrical systems for existing buildings.

We provide site investigations, calculations, and analysis to determine the most appropriate and cost-effective replacement systems. We have expertise in applying all applicable codes and guidelines, and routinely participates in code committees. Our project managers have completed feasibility studies, economic analysis, conceptual and detailed designs for the heating, ventilating, air conditioning (HVAC), plumbing and piping systems.

Electrical Engineering: The electrical engineering division of IDS (formerly DGM & Associates) was established in 1992. With extensive experience in the preparation of engineering studies and analyses, plan review, drawings, and specifications for new construction projects adhering to electrical code compliance, conducting electrical power consumption studies and field investigations, and providing construction cost estimates, concept studies and reports, and post-construction support for electrical engineering projects.



through









Structural Engineering: Our structural engineering division is a recognized leader in the design, assessment, review, and retrofit of buildings. The team is at the forefront of new building designs utilizing steel, concrete, and masonry. Services also include the assessment and retrofit of different building types and sizes, the evaluation and repair of distressed structures, peer and plan review, constructability review, and forensic engineering. Our team has been honored by the Structural Engineers Association of Southern California (SEAOSC) with over twenty (20) "Excellence in Structural Engineering" awards for innovative and outstanding design.

Cost Estimating: Our in-house cost estimator is experienced in supporting both new construction and complex renovation projects and possess extensive knowledge of a variety of tenant improvement types. Utilizing the latest in cost control methods, IDS ensures clients' projects are well planned and expertly executed. In the delivery of its cost services, IDS provides reliable, accurate estimates while meeting its client's most critical deadlines.

Experience with Value Engineering, Life Cycle Cost Analysis, and Bid Alternate Designation: By doing cost estimating in house IDS can identify opportunities for alternate bids that will provide flexibility for our clients as they strike the balance between scope of the construction and the cost of construction. The first path to value engineering savings is constructability. Our construction cost estimator also provides an internal constructability review, and this allows IDS to weed out designs that will later prove impractical to build and hence more expensive to build. The second path to value engineering is the search for alternates that provide nearly equal performance at less initial cost. When considering these initial cost saving IDS provides a life cycle cost analysis of the alternatives so that our clients can make informed choices.

A recent example includes the City of Rancho Santa Margarita Community Center. Construction



County of Orange Brea Library

defects have permitted storm water to intrude into and to damage the center. IDS reviewed documents provided by the city, conducted a visual inspection of the site, developed a move management plan, and a "pros-and-cons" assessment for installation of different building systems. Our analysis included a detailed baseline Architect's Estimate of Probable Construction Cost (AEPCC). In the event that the baseline AEPCC exceeded the construction budget to a significant degree IDS included an additional architectural services budget with the AEPCC so that the city can make a decision regarding budget with "all the cards face up on the table.

Sustainable Engineering

The firm's project approach begins with a complete assessment of project requirements to achieve a LEED certification or provide a sustainable design without certification. To meet the project requirements our team will investigate all sustainability options including photovoltaic solar system, commercial and residential fuel cell systems, geothermal ground source heat pump systems, low energy LED lighting products, water conservation design solutions, day lighting harvesting, low-flow plumbing fixtures and high SEER air conditioning equipment.

Zero Net Energy (ZNE)

IDS' professional mechanical, electrical, and plumbing engineers are experienced in Net Zero Engineering. Our team seeks ways to improve the efficiency of HVAC and electrical systems in buildings and apply smart net-zero energy design and strategies.





ADA Access Compliance

Our expert ADA (Americans with Disabilities Act) team offers detailed ADA facility surveys and preparation of Transitional Plans, plan reviews, training, and product consulting on a regular basis to healthcare facilities, large corporations, and federal, state, and local government clients.

Knowledge of the Locality

IDS has provided architectural and engineering services on multiple projects within the County of Orange, County of Los Angeles County of Riverside, and the County of San Diego, and has established a pattern of working successfully in the geographic area.

IDS Group is headquartered in Irvine, California with offices located in Corona, San Diego, and Los Angeles.

Bidding and Construction Administration Support

IDS has significant experience with providing practical, cost effective, fast/efficient solutions and high-quality construction documents and drawings and significant experience in construction support and on-site construction administration services for public projects.

Building Information Modeling (BIM)

Building on decades of hands-on experience in Building Information Modeling (BIM), IDS is committed to creating value for our clients through innovative and fully integrated design solutions. IDS' BIM platform helps our multidiscipline design and construction teams improve project efficiency by optimizing performance and responsetime of visualizations and simulations to create unprecedented data rich models.

Our clients are experiencing the benefits of BIM that extend long past the completion of a project - including improved constructability, better-performing buildings and more efficient project delivery. They have also included Construction cost savings, Schedule compression and Energy reductions.



CalOptima A/E Tenant Improvements Orange, CA





Working with Public Water and Utility Agencies

The IDS team is thoroughly familiar with the application of various codes and guidelines as it pertains to utility agencies, including California Code of Regulations (CCR), Title 24, NPDES, WSSC, California Public Utility Codes, and EPA requirements. The following work examples highlight IDS' successful collaboration with various utility agency in Southern California to ensure their projects get completed within time, budget, and schedule.

Metropolitan Water District of Southern California, Structural Engineering Services of Several Water Structures, Southern California

Since 2004, IDS has provided continuous structural engineering services to the Metropolitan Water District of Southern California (MWD). A variety of our work included the evaluation of the structural and seismic integrity of several essential service facilities to determine their capacity to withstand the most recent building code design for earthquakes.

- CUF Chlorine Unloading Dock (ID No. R20)
- CUF Wood Frame / Stucco Office Bldg. (ID No. R19)
- Perris Control Structure (ID No. R69)
- Venice Pressure Control Structure (ID No. LA13)
- Lake Mathews Building 3 (ID No. R38)
- Mills Bldg. 5, Electrical Building No. 1 (ID No. R10)
- Mills Bldg. 8, Electrical Building No. 2 (ID No. R14)

- Mills Bldg. 9, Dry Polymer Mixing Bldg. (ID No. R15)
- Lake Mathews Hazardous Materials Waste Building (ID No. R31)
- Lake Mathews Building 6 (ID No. R32)
- Lake Mathews Building 7 (ID No. R33)
- Mills Building 7 (ID No. R13)
- Garvey Reservoir Building (ID No. LA6)

Municipal Water District of Southern California, Buildings 30, 40, & 50, La Verne, CA

Preliminary Design Report (PDR) recommending broad seismic retrofit measures to prevent major structural damage and business interruption. The seismic analysis work for the PDR considered input from recent geotechnical studies, and maintained the seismic input data from the prior study.

Municipal Water District of Orange County Administration Office Building Tenant Improvements, Fountain Valley, CA

The Municipal Water District of Orange County (MWDOC) requested architectural and engineering services from IDS to design and renovate a portion of its one-story administration building. Built in 1972, the unique torus shaped facility was in need of a refresh for improved operational efficiencies, storage needs, and current and future employee growth. The IDS team re-imagined the office environment to enhance productivity and meet MWDOC resiliency needs to create an Emergency Operations Center hub for communications, response, and resources.



The MWDOC Administration Office is an existing 3,000 sf area that will be modernized to improve operational efficiencies, office workflow, and meet the agency's needs of current and future staff.





Inland Empire Utility Agency, RP-1 Primary Clarifier, Rancho Cucamonga, CA

Inland Empire Utility Agency decided to install a new scum pipe system in the Primary Clarifier at RP-1. This required the removal of the five raised vaults with their access cover. The raised walls of the vaults needed to be demolished. A new steel platform was needed to fill the vault opening so that the staff can assess the vertical actuators. IDS Group performed the Electrical and Structural Engineering design work on this project.

Inland Empire Utility Agency, New Chlorine Injection Facility Regional Recycling Water Plant No. 4 (RP-4), Rancho Cucamonga, CA

New design for the relocation/replacement of the sodium hypochlorite storage and distribution system and provide a central location for the plant (with consideration of future build out). Building improvements include office space for operations and maintenance personnel, additional workstations, an enlarged locker room, kitchen, and break room. The new facility was designed to provide for the capacity required currently for (14 MGD) with a potential expansion to a capacity needed in the future of (21 MGD).



IDS provided construction drawings for the 30" recycled pipe crossing for the 1630 West Recycled Water Project Segment C in the City of Rancho Cucamonga. This project involved adding a new 8" and 6" water pipe. IDS evaluated the crossing, developed drawings and prepared the necessary calculations for the pipeline crossing at the San Bernardino Flood Control Channel in the City of Rancho Cucamonga.

Inland Empire Utilities Agency, Regional Composting Facility, Rancho Cucamonga, CA

IDS Group was retained by Inland Empire Utility Agency (IEUA) for the retrofit of a new oversized roll-up door at the IEUA Regional Composting Facility. IEUA had recently modified their vehicle path inside the structure for their 18-wheel semi-trailer trucks. As a result, several times their trucks have hit the jamb of the existing truck access doors, and repairs to the old doors have become expensive. With a new roll-up door location, large trucks would have a very direct route inside the facility and would no longer need to shift into reverse and maneuver when exiting.



Inland Empire Utility Agency, RP-1 Primary Clarifier



Inland Empire Utility Agency, New Chlorine Injection Facility



Inland Empire Utility Agency, Recycled Water Pipeline Segment at C-Pipe Supports



Inland Empire Utilities Agency, Philadelphia Pump Station Redundant PLC, Southern California

IDS was selected by the Inland Empire Utilities Agency to replace their existing Allen Bradley 1746 SLC 5/05 and MicroLogix 1100 PLCs with a redundant Ethernet ControlLogix PLC. Field device (starters, sensors, etc.) remain. New radar level detectors were installed in the wet well. Additional aspects of the project included upgrade of Ferric Chloride control system, upgrade of VFD controllers to provide Ethernet connections, addition of power monitors to switchgear and motors, and air conditioning of panels and VFD cabinets.

Inland Empire Utilities Agency, Jurupa Pump Station HVAC Improvements, Southern California

The project includes the complete Design and Construction services including the evaluation, design, supply, and installation of a 10-ton air conditioning system. Project delivery method was design build.

Eastern Municipal Water District Diamond III Booster Plant Pump Electrification, Perris, CA

Replacement of two existing natural gas pump engines with two new electric driven pump engines. Remove the existing drives and control panels and replace with new VFD drives and controllers. Demolition of existing exhaust systems, patch and repair existing exterior walls. Design of new cable tray to house new power and control cables.

Orange County Community Resources, Irrigation Pump Control System Upgrade, Santa Ana, CA

Replacement of an existing MCC and a single variable frequency drive that serves two 40 HP pumps with two new variable frequency drives. A local web-based controller is integrated to the VFD's via local Ethernet and provides access for VFD set up and monitoring of pressures and VFD operating values.

Orange County Public Works, Emergency Generators Replacement Project, Various Locations in Orange County, CA

IDS prepared electrical design and engineering construction documents for the replacement of existing generators at the following sites: Dana Point Harbor Patrol, Sunset Beach Harbor Patrol, Manchester Office Building and Orange Library Parking Structure.



Inland Empire Utility Agency, Pump Station Redundant PLC



Eastern Municipal Water District Diamond III Booster Plant Pump Electrification, Perris, CA



Orange County Public Works Emergency Generators Replacement, Manchester Building - Orange, CA





City of Azusa Light and Water Department Customer Service Lobby Area, Azusa, CA

The City of Azusa Light & Water (L&W) retained IDS to provide engineering services for the remodeling for its Customer Service Lobby area. IDS' team reconfigured the existing storage room into a Call Center with four workstations. The IDS researched and reviewed the as-built drawings and discovered a way to divert the original cooling capacity away for the Data Center into the Call Center by just adjusting existing dampers. Our team relocated the existing thermostat into the Call Center thereby providing independent, enhanced cooling of the Call Center at minimal cost.

City of Long Beach Gas & Oil Building 560, Long Beach, CA

IDS provided architectural and engineering design services for the renovation and modernization of the Beach Gas & Oil Department's (LBGO) Building 560. The structure's design provides limited accessibility to general areas the building. As such, it is currently is out of compliance with the ADA. Project scope will address the ADA deficiencies as it regards site path of travel access compliance, accessible parking, building access throughout the ground floor, and ADA compliance restroom.

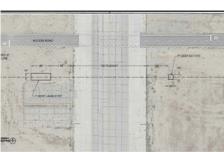


IDS was responsible for design oversight, bid evaluation support, constructability review, construction management, and value engineering of the plans and specifications for the 7,500 square foot permanent facility and the relocation of an existing City Water Division major pump station. The pump station project included a new pump station building, site improvements, and underground utility upgrade. Operations of the existing pump station ran concurrently while construction of the new facility thus ensuring proper transfer of water service.

Edwards Air Force Base, Plant 42, Antelope Valley, CA

IDS GROUP

IDS Group was retained by Noreas, a general construction contractor, to assist in the Army Corps effort with the improvement of the water facilities located nearby Edwards Air Force Base. IDS was responsible for generating technical documents and specifications for the construction of approximately 11,000 linear feet of six-inch water main to replace the dilapidated system. IDS' scope of work included utility locating, topographic surveying and mapping, alignment studies, water system engineering, hydraulic modeling, drawings for construction and specifications.



City of Orange Carver Pump Station

during construction

Edwards Air Force Base - Plant 42 Antelope Valley, CA



City of Azusa Light and Water Department Customer Service Lobby Area



City of Long Beach Gas & Oil Building 560

2. Approach to Work

Project Understanding

IDS understands the significance of the feasibility study being requested by the South Orange County Wastewater Authority (SOCWA). The construction of the laboratory at the Laguna Niguel regional treatment plant was completed in 1982, 10 years after the US Clean Water Act of 1972. Since its initial operation, this laboratory has been instrumental in ensuring the residents and businesses served by the SOCWA are provided with equitable clean water service.

However, the forty-plus years since the start of operations has brought pressures upon the laboratory in terms of space and staff allocation limitations, as well as an awareness of providing new testing needs from addressing recently passed Assembly Bill 2106 for regulating stormwater to proposed inceptions of desalinizing ocean water for public consumption and use.

The SOCWA sees the Laguna Niguel laboratory as a 'flagship' in its continued service to its customer base. Because of this, its preservation, continued operation, and feasible expansion are view as essential. Should it be awarded the opportunity to explore these possibilities, IDS Group and its project teaming partner, Criterion, propose to complete the requested feasibility study in the following manner:

- A. IDS strives to identify design and existing conditions issues before they become costly change orders during future construction. Our team also evaluates intangible issues that may not be part of the expected project scope. IDS' Feasibility Study will be compromised of the following primary components:
 - **1. Investigation (Duration: 6 Weeks)** Conduct a thorough review of the existing laboratory, remaining facility, and surrounding areas. IDS will focus on the following elements:
 - a. Conduct a thorough review of the existing laboratory, rest of facility, and surrounding areas. Focus will be upon the following elements:
 - Fume hoods and analyzer equipment.
 - Other laboratory equipment and furnishings.
 - Vacuum pump system.
 - Chemical Storage Area.
 - Bench and counter space/ staff work areas.
 - Filtration system.
 - General storage.
 - Dedicated storage for clean or sterile items.
 - Perishable storage (refrigerators/freezers).
 - Staff and operations flow.
 - b. Conduct interviews with key laboratory members to understand daily operations, inefficiencies/ constraints in performing necessary tasks, needs/desires to be accommodated, and 'vision' of what the future laboratory should be in equipment, layout, and area.





- c. Compile initial site observation findings and interviews into a narrative for a meeting discussion with key laboratory members and other required SOCWA staff.
- d. From the site observation/interview meeting, develop approaches to the four scenarios requested for exploration by SOCWA.
- **2.** Exploration (Duration: 6 Weeks) With IDS' laboratory design consultant Criterion, the following elements will be explored:
 - a. Fume Hoods
 - Evaluate and upgrade existing fume hoods for improved airflow and safety features.
 - Install fume hood alarms and monitors.
 - Utilization of a fume hood for waste storage purposes to be located near an exit/entry door advisable for efficiency.
 - b. Vacuum Pump System
 - Replace or upgrade the vacuum pumps to ensure reliability and efficiency as current system at end of life.
 - Consideration of installing a backup vacuum pump for redundancy.
 - c. Bottle/Glass Cleaning System
 - Investment in a high-capacity glassware washer for efficient cleaning and sterilization, that ensures compatibility with laboratory glassware.
 - Co-locate glassware cleaning system with dishwasher for employee efficiency.
 - d. Bench Space
 - Evaluate the lab layout and allocate bench space for specific tasks or instruments.
 - Optimize bench space to improve workflow and safety.
 - Additional space for research/intern requested for special projects.
 - e. Filtration System Enhance the safety of the filtration system by enclosing it within a dedicated space.
 - f. Refrigerator and Freezer Area
 - Upgrade refrigeration and freezer units for sample storage.
 - Implement temperature monitoring and backup systems.
 - g. Nanopure System Maintain and upgrade the Nanopure system for ultrapure water needs; ensure regular servicing and water quality monitoring.
 - h. Point of Use (POU) Technology
 - Implement modern analytical instruments at the point of use for real-time data acquisition.
 - Include POU workstations to improve efficiency.
 - i. Modern Inventory Management
 - Implement a digital inventory management system for chemicals and supplies into the chemical and storage improvements.





- Use barcoding and tracking software to improve inventory control with associated dedicated spaces for implementation of inventory management.
- Upgrade sample receiving areas with proper sample handling and tracking systems.
- Implement secure sample storage and data recording with refrigerators to store samples.

IDS Architectural will also explore the following concerns and requests:

j. Waste Storage Area

- Currently, no area exists for waste storage alone.
- Explore the installation of dedicated waste storage areas with proper ventilation and waste containment systems and ensure compliance with hazardous waste disposal regulations.

k. Chemical Storage Area

- Improve ventilation in the chemical storage area to reduce chemical exposure risks and consider the use of chemical cabinets with built-in ventilation.
- Ensure that separate chemical classes have adequate space, separation, and organization.

I. Lab Office Area

- Expansion/improved technician office area to facilitate future growth.
- Area designed to promote communication between technicians.
- m. Sample Receiving improve efficiency and segregation of samples.

n. Aesthetics

- Provide interior vision glazing as feasible.
- Provide new casework with glazing.
- Improve ergonomics at work areas and storage of chemicals.

Exploration will be performed through additional meetings with SOCWA laboratory staff to develop equipment and furnishing schedules for desired changes to existing spaces and addition of new spaces.

3. Evaluation (Duration: 12 weeks) - IDS will evaluate the following two (2) feasibility design scenarios given below, with evaluations of advantages and disadvantages of each scenario, following the Investigation and Exploration Phases:

a. Scenario #1- Laboratory as-is

SOCWA RFP comments:

Feasibility: This option is feasible if the current laboratory meets all regulatory requirements and research needs. It's the simplest and most cost-effective option if the lab is already well-equipped and functional.

Pros: Minimal costs, minimal disruption, and continuity of ongoing research.

Cons: May not address potential future needs or regulatory changes. Limited scalability. Laboratory is also very space limited making additional projects potentially unfeasible.





IDS initial thoughts

Cons: In agreement with SOCWA 'cons'; additionally, renovation of the existing laboratory will require either temporary mobile laboratory or distribution of services to other SOCWA labs during demolition/ renovation of existing laboratory.

Pros: To be determined.

Feasibility: Laboratory 'as is' will be challenging, given the existing conditions issues.

- Potential relocation of a new laboratory within another wing of the existing building, followed by demolition of the old laboratory for new purposes, may be an approach to explore so the current laboratory can continue operating.
- Staff and operations displaced by the new laboratory construction may be housed in temporary trailers. These can be removed once laboratory relocation and displaced operations construction are completed.
- b. Scenario #2- Drinking Water Laboratory Separate Space

SOCWA RFP Comments

Feasibility: Creating a separate space for a drinking water laboratory is feasible if there's a clear need for specialized testing and regulatory compliance.

Pros: Ensures dedicated focus on drinking water quality, regulatory compliance, and public health. May attract specialized staff.

Cons: Costs associated with setting up a new lab space, equipment, and hiring trained personnel. Ongoing operating expenses.

IDS initial thoughts

Cons: Finding the appropriate square footage in a building that is already spatially challenged; new mechanical, electrical, and plumbing services to run dedicated laboratory; supplemental costs for building accessibility upgrades and additional toilet facilities for additional staff.

Pros: To be determined

Feasibility: Additional laboratory space can be installed within the existing building, but likely at the expense of existing office or administrative areas.

- Relocation or removal of displaced occupancy uses will need to be discussed thoroughly with the SOCWA team.
- It is expected that some of the desired "laboratory as is" renovations will also occur in conjunction with this. IDS and Criterion will confirm the extent of these renovations.





For the evaluation, IDS will provide the following:

- Proposed equipment schedules for each scenario.
- 'Test fit' equipment and layout plan options for each scenario.
- Impacts/ additions to MEP infrastructure to implement each scenario.
- Civil/structural impacts to implement building expansion or new building if needed.
- Draft technical memorandum documenting the findings of the four identified scenarios.
- High level cost estimates for each of the four scenarios.
 - » The cost estimates will include markups, general conditions, construction, contingency, design fee, engineering services during construction fee, and an estimate for construction management if applicable.
 - » IDS will work with the appropriate SOCWA personnel to also develop Owner 'soft costs' for move management, temporary staff and operations relocations, owner-furnished equipment and installation, and anticipated contractor utilities.
- B. Following completion of the aforementioned items, IDS and Criterion will conduct a workshop either at the RTP or virtually to present their findings. (1 day)
- C. Aftercompletion of the workshop, IDS will submit all draft reports and estimates to SOCWA for review and comment. (Est. 3 weeks for SOCWA receipt and comments)
- D. Following SOCWA review and comment, IDS and Criterion will make revisions requested to any reports and/ or estimates. (Est. 1-2 weeks)
- E. Revised reports and estimates will be sent to SOCWA for final acceptance.

See the work schedule on the following page, in coordination with the activities and services previously noted.



Project Schedule (page 1 of 2)

Show Week:	1			5/13 5	/20 5/:	27 6/3	3 6/10	6/17 6	6/24 7/1	1 7/8	3 7/15 7	7/22 7	7/29	8/5 8	/12 8/19	8/26	9/2	9/9 9	/16 9/	23 9/30) 10/7	####	### ##	# 11/4	4 ###	###	### 1	2/2 12/) ###	###	### 1/6
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TASK DESCRIPTION	PHASE START	WORK DAYS	PHASE END	1	2 3	3 4	5	6	7 8	9	10	11	12	13 1	14 15	16	17	18	19 2	21	22	23	24 2	5 26	27	28	29	30 31	32	33	34 35
Task 1: Project Initiation	5/13/2024	6	5/21/2024																												
Hold Kick Off meeting with SOCWA's designated project manager and key staff to confirm project background, goals, schedules, needs and requirements.	5/13/2024	1	5/14/2024																												
Obtain and review available drawings and other pertinent records.	5/15/2024	1	5/16/2024																												
Prepare equipment schedules/checklists (Criterion).	5/15/2024	2	5/17/2024																												
Develop survey questionnaires for SOCWA staff	5/15/2024	4	5/21/2024																												
Task 2: Investigation	5/22/2024	30	7/3/2024																												
Conduct field assessment of existing laboratory and surrounding grounds- all IDS disciplines	5/22/2024	2	5/24/2024																											Ì	
Conduct field assessment of existing laboratory equipment and furnishings- IDS & Criterion	5/22/2024	6	5/30/2024																												
Submit questionnaires to staff for review and response	5/22/2024	9	6/4/2024																												
Conduct interviews with key staff following questionnaire completion	6/5/2024	2	6/7/2024																												
Compile initial site observation findings and interviews into a narrative	6/10/2024	4	6/14/2024																												
Meeting with SOCWA to review site observations/ interviews narrative	6/17/2024	2	6/19/2024																												
Develop preliminary approaches to the four scenarios requested for exploration by SOCWA	6/20/2024	6	6/28/2024																												
Compile final Investigation narrative to SOCWA with preliminary approaches to the RFP four scenarios	7/1/2024	2	7/3/2024																												
Task 3: Exploration	7/8/2024	29	8/16/2024																												
Evaluate upgrades, relocation, replacement, and additions to: fume hoods, vacuum pump system, bottle glass cleaning system, bench space, filtration system, refrigerator/freezer area, Nanopure system, POU & IM technology.	7/8/2024	10	7/22/2024																												
Explore upgrades, expansion, insertion, and relocation of waste storage, chemical storage, lab offices, sample receiving, and other key spatial element designated by SOCWA.	7/8/2024	10	7/22/2024																												
Review existing building's interior architecture; assess ability to address SOCWA aesthetic requests- glazing, casework, ergonomic furniture	7/8/2024	5	7/15/2024																												
Compile drafts of initial assessments for new and relocated equipment, spatial upgrades, and aesthetic enhancements	7/16/2024	3	7/19/2024																												



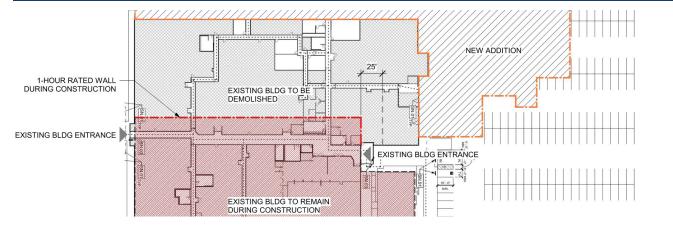
Project Schedule (page 2 of 2)

TASK DESCRIPTION	PHASE START	WORK DAYS	PHASE END	1	2 3	4	5 6	7	8 9	9 10	0 11	12	13 1	4 15	16	17	18 19	20	21	22	23	24 25	26	27 2	8 29	30	31 32 33	34 3
Meetings with SOCWA to review initial assessments; discuss items and elements to be added, revised, or deleted	7/22/2024	2	7/24/2024																									
Revise initial assessments per SOCWA comments; begin preliminary assignment of items into each of the four RFP scenarios for further evaluation.	7/25/2024	6	8/2/2024																									
Develop preliminary equipment and furnishing schedules for further evaluation with each of the four RFP scenarios	7/25/2024	10	8/8/2024																									
Compile final assessments and schedules; submit to SOCWA for review	8/9/2024	5	8/16/2024																									
ask 4: Evaluation	8/19/2024	58	11/7/2024																									
Meeting with SOCWA to review final assessments and schedules; outline/confirm goals and objectives for evaluation of the four RFP scenarios	8/19/2024	2	8/21/2024																									
Evaluate "Laboratory As Is" scenario- 'test fit' of equipment, proposed spatial reconfiguration, impacts to existing MEP	8/22/2024	6	8/30/2024																									
Evaluate "Drinking Water Laboratory Separate Space" in coordination with "Laboratory As Is" scenario- 'test fit' of equipment, proposed spatial reconfiguration, impacts to existing MEP, accessibility and amenity needs	9/3/2024	6	9/11/2024																									
Evaluate "Regional Laboratory Consolidation"	9/12/2024	8	9/24/2024																									
Meeting with SOCWA to confirm proposed labs/services to consolidate to the Laguna Niguel campus	9/12/2024	1	9/13/2024																									
In coordination with "Laboratory As Is" scenario- 'test fit' of equipment, proposed spatial reconfiguration, impacts to existing MEP, accessibility and amenity needs, civil and structural requirements	9/16/2024	6	9/24/2024																									
Evaluate "Incorporating an Indirect/Direct Potable Reuse & Desal Lab"	9/25/2024	10	10/9/2024											Ì									Ì					
Meeting with SOCWA to confirm proposed labs/services to consolidate to the Laguna Niguel campus	9/25/2024	1	9/26/2024																									
In coordination with "Laboratory As Is" scenario- 'test fit' of equipment, proposed spatial reconfiguration, impacts to existing MEP, accessibility and amenity needs	9/27/2024	8	10/9/2024																									
Meeting with SOCWA to review initial scenario developments	10/10/2024	1	10/11/2024								Ì															Ì		
Revise initial scenario developments per SOCWA comments; develop ROM estimates for each scenario	10/14/2024	14	11/1/2024																									
Compile scenario developments and ROM estimates.	11/4/2024	3	11/7/2024																									
ask 5: Presentation/Review/Completion	11/8/2024	26	12/16/2024														ĺ				Ì							T
IDS & Criterion workshop with SOCWA	11/8/2024	3	11/13/2024									Ì										İ						
Submit scenario developments and ROM estimates to SOCWA for review	11/14/2024	16	12/6/2024					Ì				İ													, ,			
Receive SOCWA comments; make final revisions to scenario developments and ROM estimates	12/9/2024	4	12/13/2024																									
Final assessment sent to SOCWA	12/16/2024	0	12/16/2024			İ			Ī										1									T
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3. Experience & Technical Competence SCWA

County of Orange Department of Public Works 17th Street Feasibility Study and Concept Design for Bio Safety Laboratory, Facilities, and Parking | Santa Ana, CA



Project Dates: May 2021 - December 2021

Owner: Public Entity

Orange County Facilities Design and Construction / A&E Project Management Matt Durbin, Senior Project Manager 714.667.1626, Matthew.Durbin@ocpw.ocgov.com

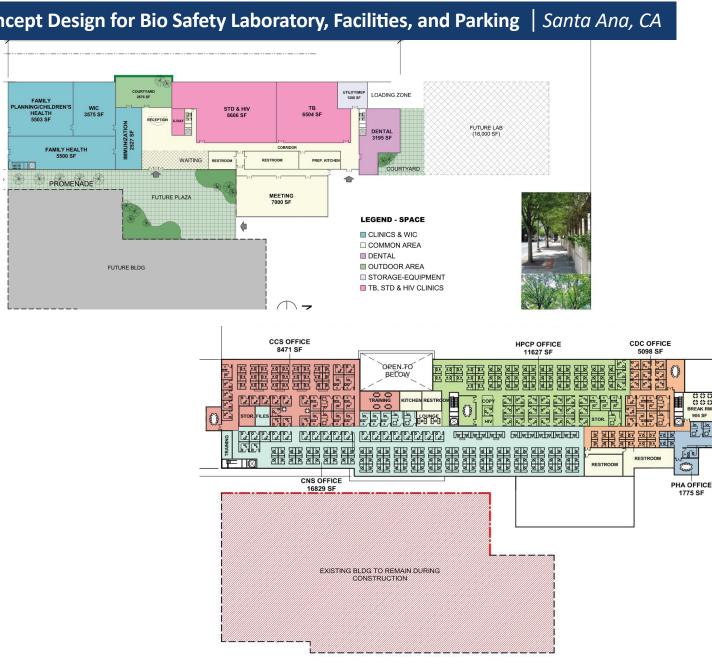
Role & Responsibilities:

The County of Orange retained IDS Group to develop an overall master plan, which included the new Clinic building, the existing Bio Safety Laboratory (BSL), the Peripheral buildings, and surface parking areas. IDS developed block diagrams of the new buildings to reflect the programming needs and efficient site utilization, and construction requirements. The work progressed through the duration of this study including several brainstorming sessions. IDS provided several options with cost estimates, and presentation to stakeholders.

IDS' A/E team conducted a site visit to verify existing conditions and provided a list of deficiencies of elements conflicting with the project objectives with remedy recommendations.

Scope includes the replacement of the existing AHU, fans, and Tridium controls (or equal) serving the BSL with one larger AHU with controls to maintain proper pressurization of each laboratory space. Each isolation lab shall include new supply and exhaust ductwork and diffusers. The existing laboratory exhaust fans will be replaced with units selected for variable-flow operation. Each exhaust fan shall be selected to be VFD driven and shall incorporate HEPA filters. One of the recommendations was to have the doors for each isolation lab replaced with fully-gasketed solid doors. An alarm within the controls system will annunciate pressurization loss and re-establish an adequate amount of air pressure in a few seconds. This will permit people to move in and out of the spaces without setting off the alarms.

One of the most important requirements of this project is maintaining operation of both the Clinic building and the Bio Lab during new construction. The new facilities were expected to be located at the space/ parking lot area between the two existing buildings. Once constructed, the existing clinic building will be demolished. Careful attention to minimize the demolition's impact to the new facility and the bio lab operations will be addressed. IDS was tasked to with a study for the operation/ parking needs, future site utilization of the demolished areas, and constructability concerns.





IDS Staff & Project Roles

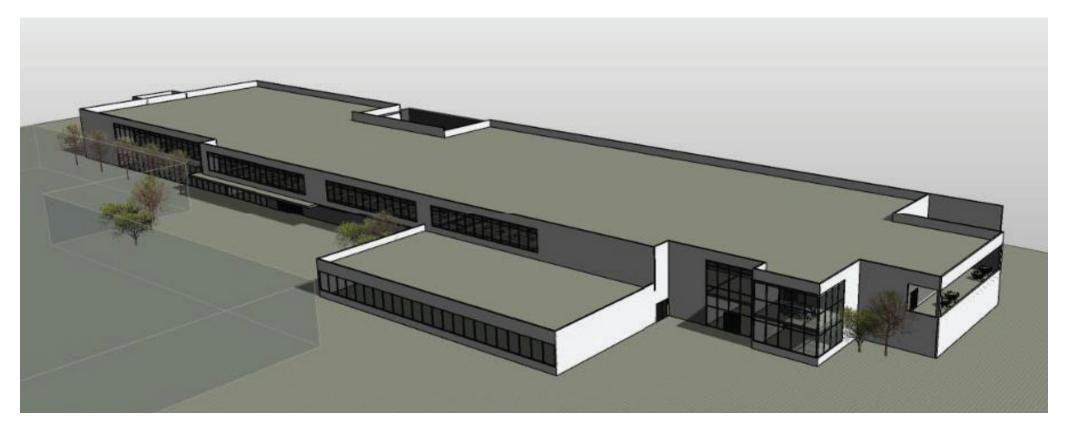
John Silber, RA | Principal Architect / Project Manager Shelley Sivak, RA, LEED AP | Project Architect Song Brandner, RA, LEED GA | Project Architect Jaime Rosenbach, PE, SE | Structural Engineer Victor Mercado, PE, SE | Structural Engineer Darren Smith, PE | Mechanical Engineer

AA IDS GROUP

Request for Proposal Laboratory Upgrades Feasibility Study

Bob Kramer | Electrical Project Manager Michael Reed | Lighting Design Faisal Dakhil | Cost Estimator Rami Elhassan, PhD, PE, SE | QA/QC Said Hilmy, PhD, SE, LEED AP | Principal/Contract Administrator











West Basin Municipal Water District Headquarters Relocation Feasibility Study and Concept Design | Carson, CA



Project Dates: March 2023 - June 2023

Owner: Public Entity

West Basin Municipal Water District Wendell E. Johnson, PE, Manager of Engineering 310.660.6259, WendellJ@westbasin.org

Role & Responsibilities:

Office relocation of the West Basin Municipal Water District (WBMWD) office headquarters from the Donald L. Dear (DLD) Building located in the city of Carson to the agency's main water recycling facility, the Edward C. Little Water Recycling Facility (ECLWRF) in the City of El Segundo. IDS collaborated with WBMWD on the architectural and engineering feasibility study and concept design options for this project.

The West Basin Board of Directors were presented with four options on the future DLD Building-based staff and operational activities. The Board decided to have the IDS team analyze and evaluate an option of moving fifty DLD staff to ECLWRF.

Project Key Elements

- Evaluate existing areas for re-purpose.
- Test-fit for workstations while minimizing impact to space planning.
- Re-purpose existing lab as an office space.
- Illustrative plan view of the building's site, workspaces, and operational areas.
- Building system requirements for HVAC, plumbing, electrical, fire sprinkler and alarm
- Project timeline
- Rough Order of Magnitude (ROM) of Project Costs

IDS Staff & Project Roles

John Silber, RA | Principal Architect Quentin Montrie | Project Manager Song Brandner, RA, LEED GA | Project Architect Mohsen Kargahi, PhD, PE | Structural Project Manager Chris Corbett, Assoc. AIA | Sr. Project Lead

Eduardo Fabros | Project Designer Daniel Park | Project Designer Andrew Bussey, PE | Mechanical Engineer Faisal Dakhil | Cost Estimator Said Hilmy, PhD, SE, LEED AP | Principal/Contract Admin



















County of Orange Emergency Medical Services Operational Facility Concept Design | Irvine, CA







Project Dates: May 2021 - December 2021

Owner: Public Entity

Orange County Facilities Design and Construction / A&E Project Management Matt Durbin, Senior Project Manager 714.667.1626, Matthew.Durbin@ocpw.ocgov.com

Role & Responsibilities:

IDS Group collaborated with the County of Orange to develop site utilization and master plan for the proposed new Emergency Medical Services (EMS) Operating Facilities. The new facility will be built on an unoccupied 10-acre site owned by the County located south of the county facilities at 8014 Marine Way, Irvine, CA 92618. This empty lot was part of the decommissioned El Toro Marine Base. The proposed program is an ambitious step towards integrating the administration and operation of the OCEMS/HCA into one facility. The project vision is to house a 100,000 sq. ft. state-of the-art bio medical laboratory, health and wellness, and life-saving facilities.

Multiple agency stakeholder user groups participated in the project along with the County. The City of Irvine, County of Orange Fire Authority, and the department of the Navy were involved and provided valuable insight to the IDS team. IDS' scope of work for the master plan included: 1. Site investigation of existing conditions, 2. Development of an overall site master plan, 3. Block diagrams for new buildings renderings, 3. Conduct brainstorming sessions with user groups and project stakeholders, and 4. Cost Estimates. IDS provided programming consultation working with the county representatives and the various user groups and jurisdictions.

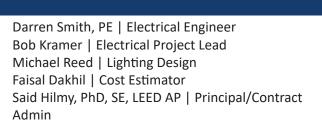
The County will have IDS involved in the bridging documents for the design-build procurement with continued oversight of the full design and construction in support with the County.



IDS Staff & Project Roles

John Silber, RA | Principal Architect / Project Manager Shelley Sivak, RA, LEED AP | Project Architect / Interior Design Song Brandner, RA, LEED GA | Project Architect Jaime Rosenbach, PE, SE | Lead Structural Engineer Victor Mercado, PE, SE | Structural Engineer













SCWA

4. Key Personnel & Sub-Consultants | Project Organizational Chart





eld, ra	Juan Acuna Job Captain
со	Faisal Dakhil, PE* Cost Estimator
E, SE* gineer	Joy Lyndes, PLA, FASLA Lead Landscape Architect

IEERING	LANDSCAPE ARCHITECTURE
PE t	Kristin Gros, ASLA, LEED AP ND Cisy Cao



Key Personnel Resumes



Joseph MacDonald, RA, NCARB

Associate Principal, Project Manager

Education: Master of Architecture, Boston Architectural College, Boston, MA

Professional Credentials: Architect: California (#C-34131); NCARB Certification

Mr. MacDonald is a highly skilled licensed professional with over 20 years of experience in healthcare design. His projects include a wide range of facilities for numerous healthcare systems. He has extensive experience with projects requiring review and approval of the California Office of Statewide Health Planning and Development (OSHPD) and experience in programming and master planning. He is also recognized for his ability to manage projects to their specific fees, programs and schedules, ability to manage multiple projects simultaneously, and to lead project teams and work closely with owners.

Relevant Project Experience:

- City of Hope Medical Center Conditions Assessment | Duarte, CA
- Scripps Mercy Hospital Chula Vista Sterile Processing Department Air Handler Unit Replacement | Chula Vista, CA
- San Bernardino County Arrowhead Regional Medical Center X-Ray Replacements | Colton, CA
- University of Southern California (USC) Air Handler Unit-1 Replacement at Healthcare Center 4 (HC4) |
- Los Angeles, CA
- Hoag Hospital, Renovation of Various Projects | Irvine, CA

Shelley Sivak, RA, LEED AP

Architect

Education

Master of Architecture, California State Polytechnic University, Pomona

Professional Credential

Architect: CA #C33767; LEED Accredited Professional

Ms. Sivak is a forward-thinking architect who brings form to interior space and new life to both urban and suburban settings, to create a strong sense of place. She takes a holistic approach and considers key capacity to recognize the specific demands of a particular location and tailors the design process to be efficient and productive.

Relevant Project Experience:

- West Basin Municipal Water District Office Headquarters Relocation Feasibility Study and Concept Design
 Carson, CA
- Municipal Water District of Orange County Administration Office Building Tenant Improvements | Fountain Valley, CA
- County of Orange Health Care Agency 17th Street Feasibility Study and Concept Design | Santa Ana, CA
- County of Orange Emergency Medical Services Operational Facility and Concept Design | Irvine, CA







John Silber, AIA

Principal Architect - Quality Assurance / Quality Control

Education M Arch, Southern California Institute of Architecture Professional Credential: Architect: California (#15573)

Mr. Silber has been an active member of the architecture and urban design of Southern California for more than 30 years. His work has covered a broad range of urban projects, including a number in areas of special interest, such as the link public education creates between culture and economic vitality. He has mastered the interface between community design expectations, urban in-fill architecture and modern code standards for fire/life safety, energy, and accessibility.

Relevant Project Experience:

- West Basin Municipal Water District Office Headquarters Relocation Feasibility Study and Concept Design | Carson, CA
- City of Azusa Light and Water Department Customer Service Lobby Area | Azusa, CA
- City of Long Beach Gas & Oil Building 560 | Long Beach, CA
- County of Orange Health Care Agency 17th Street Feasibility Study and Concept Design | Santa Ana, CA
- County of Orange Emergency Medical Services Operational Facility and Concept Design | Irvine, CA



Said Hilmy, PhD, PE, SE, LEED AP

Principal / Contract Administrator

Education: Doctorate, Structural Engineering, Cornell University; MS, Structural Engineering, Cornell University

Professional Credentials: Professional Structural Engineer: CA #S3680; Professional Civil Engineer: CA C43988; LEED Accredited Professional

Dr. Hilmy has over 30 years of experience in structural engineering design and analysis and project management. Mr. Hilmy specialties are related to providing organizational leadership with a focus on quality control in the delivery of construction documents as well as excellent customer service.

Dr. Hilmy will be the Principal and will oversee the project progress, proper interface between the County management and the project team and contractually bind the firm.

- West Basin Municipal Water District Office Headquarters Relocation Feasibility Study and Concept Design
 Carson, CA
- City of Azusa Light and Water Department Customer Service Lobby Area | Azusa, CA
- City of Long Beach Gas & Oil Building 560 | Long Beach, CA
- County of Orange Health Care Agency 17th Street Feasibility Study and Concept Design | Santa Ana, CA
- County of Orange Emergency Medical Services Operational Facility and Concept Design | Irvine, CA







Darren Smith, PE, BEAP

Lead Mechanical Plumbing Engineer

Education: BS, Mechanical Engineering Technology, California Polytechnic University, Pomona

Professional Credentials: Professional Mechanical Engineer: California #M30841; ASHRAE (Building Energy Auditing Professional)

Darren Smith is a registered mechanical engineer with over 25 years of experience in design bid build and designbuild projects. As a design engineer or project manager, Darren's role will be flexible for project task order assignments. With extensive experience in designing and managing numerous construction projects, Darren brings cross-communication at various levels of project ownership. Darren will supervise the mechanical/ plumbing engineering team.

Relevant Project Experience:

- Sweetwater Union High School District Development of the L Street Facility | Chula Vista, CA
- West Basin Municipal Water District Office Headquarters Relocation Feasibility Study and Concept Design | Carson, CA
- City of Glendora Corporate Yard Concept Design | Glendora, CA
- County of Orange Health Care Agency 17th Street Feasibility Study and Concept Design | Santa Ana, CA
- County of Orange Emergency Medical Services Operational Facility and Concept Design | Irvine, CA
- County of Orange Yale Homeless Shelter Adaptive Reuse | Santa Ana, CA



Steve Uthoff, PE, SE Structural Engineer

Education: MS, Structural Engineering, The University of Texas at Austin

Professional Credentials: Professional Structural Engineer, CA #S3733; Professional Civil Engineer, CA #C48618

Mr. Uthoff has over 25 years of structural engineering experience in building design and review, including essential service facilities, hospitals, office buildings, parking garages, schools, airports, theme parks, churches, shopping centers, industrial buildings and military structures, and blast analysis. His technical expertise includes structural steel and light-gage steel design, reinforced concrete design (including post-tensioned and precast concrete), masonry design, and wood design, foundation design (including underpinning and strengthening of existing foundations), Seismic Zone 4 analysis (response spectrum and time history, seismic retrofits, base isolation), working knowledge of current building codes.

- West Basin Municipal Water District Office Headquarters Relocation Feasibility Study and Concept Design | Carson, CA
- City of Glendora Corporate Yard Concept Design | Glendora, CA
- County of Orange Health Care Agency 17th Street Feasibility Study and Concept Design | Santa Ana, CA
- County of Orange Emergency Medical Services Operational Facility and Concept Design | Irvine, CA







Steven Collins, PE, LEED AP

Lead Electrical Engineer

Education: MS, Electrical Engineering, Rensselaer Polytechnic Institute Professional Credentials: Professional Electrical Engineer: California #E22805; LEED Accredited Professional

Mr. Collins brings over 20 years of experience in Electrical Engineering for Building Systems and has expertise in municipal, education, commercial, and healthcare markets. His experience includes field investigation, design, and specifications for electrical service entrance equipment, standard and emergency distribution systems, lighting systems, controls, power-to-utilization equipment and devices, fire alarm systems, and telecommunication and low-voltage raceway systems.

Relevant Project Experience:

- Orange County Sheriff's Department, Central Men's Jail Lighting Retrofit | Orange, CA
- City of Newport Beach, Central Library Elevator, Fire Alarm and Security System Modernization | Newport Beach, CA
- Department of Veteran's Administration, Air Handler Unit Replacement | Barstow, CA
- The Aerospace Corporation Lighting Replacement | Los Angeles, CA
- City of Lancaster, El Dorado Park Revitalization | Lancaster, CA

Adrian Anderson, PE

Lead Civil Engineer

Education: BS, Civil Engineering, CSU, Long Beach, CA

Professional Credential: Professional Civil Engineer: California #C6095

Mr. Anderson has over 25 years of experience and is well versed in managing public agency projects for street rehabilitation projects, street widening and new street/highway projects, drainage improvement projects, right of way projects, development project plan checks for various agencies, urban trail projects, and bike trails and other active transportation facilities.

Adrian will supervise the civil engineering team. He will oversee bid preparation and project proposals, overseeing CAD staff, and completing projects from design through construction.

- Sweetwater Union High School District Development of the L Street Facility | Chula Vista, CA
- Riverside County Sheriff Dept., Coroner Facility Parking Lot Improvements, Drainage, and Water Quality | Perris, CA
- Los Angeles World Airports, Roadways, Utilities & Enabling (RUE), Century Blvd & LAX Street Rehabilitation Los Angeles, CA
- City of Lancaster, El Dorado Park Revitalization | Lancaster, CA







Joy Lyndes, PLA, FASLA

Lead Landscape Architect

Education: Master of Landscape Architecture, University of Arizona

Professional Credential: Landscape Architect: CA #4183

Ms. Lyndes brings a broad range of municipal, local and state agency expertise specializing in transportation and facilities planning, design and construction oversight of complete streets, facilities programming and smart growth. Her practice focuses on health and wellbeing as one of the key priorities of our community regeneration framework, fostering long-term health outcomes in our neighborhoods and public spaces.

Relevant Project Experience:

- Sweetwater Union High School District Development of the L Street Facility | Chula Vista, CA
- City of Lancaster, El Dorado Park Revitalization | Lancaster, CA
- County of Orange Yale Homeless Shelter Adaptive Reuse | Santa Ana, CA
- City of Corona City Hall Veteran's Memorial Enhancement | Corona, CA
- Placentia Library District Outdoor Library and Loading Dock Expansion | Placentia, CA



Faisal Dakhil

Cost Estimator

Education: MS, Civil Engineering, University of Southern California; BS, Civil Engineering, University of Southern California

Mr. Dakhil has over 30 years of pre-construction, construction management, and estimating experience in a broad spectrum of projects ranging in value from \$1 million to more than \$250 million. Faisal has a long track record of successful jobs coming in under budget and on time, resulting in substantial client savings.

- West Basin Municipal Water District Office Headquarters Relocation Feasibility Study and Concept Design
 Carson, CA
- City of Glendora Corporate Yard Concept Design | Glendora, CA
- County of Orange Health Care Agency 17th Street Feasibility Study and Concept Design | Santa Ana, CA
- County of Orange Emergency Medical Services Operational Facility and Concept Design | Irvine, CA
- County of Orange Yale Homeless Shelter Adaptive Reuse | Santa Ana, CA



Laboratory Planning Teaming Partner

Criterion



Located in Capistrano Beach, Criterion is a design consulting team of planners and professionals who offer a shared passion for improving the lives of others through their work. Founded in 1977, and more than four decades later, Criterion continues to propel advancements in the planning process that positively impact public entities, projects and communities for years to come.



Heather Porto Principal, Senior Lab Equipment Planner

EDUCATION BACHELOR OF SCIENCE IN BIOLOGY - UNIVERSITY OF CALIFORNIA, SAN DIEGO Heather launched her career in the early 2000s as a lab planner, completing hundreds of projects in the medical, academic, research and biomedical fields both nationally and internationally. Since joining Criterion in 2016, she has applied her sophisticated blend of expertise and technical skills toward the delivery of countless more high-profile healthcare projects. Heather is responsible for the overall guidance of Criterion, including oversight of company-wide operations, setting and meeting goals, establishing standards, building new business and maintaining existing client relationships. She is also closely involved in strategic partnership decision-making and considering new business opportunities.

- » Orange County Water District, New Lab Building - Fountain Valley, CA***
- » UCLA Health, Center for Health Sciences Wet and Dry Lab Renovation - Los Angeles, CA
- » UCLA Health, Research & Education Institute of Harbor - Torrance, CA***
- » UCSF Health, New Hospital at Parnassus Heights Clinical Lab - San Francisco, CA
- » UC Merced, Lab Relocation Merced, CA
- » UC San Diego, Altman Clinical and Translational Research Institute - San Diego, CA***
- » Cedars-Sinai, Lab Inventory and Re-Use Planning - Los Angeles, CA
- » County of Los Angeles Department of Public Works, Martin Luther King, Jr. (MLK) Clinical Lab - Los Angeles, CA
- » Santa Clara Valley Medical Center, Microbiology Lab Expansion - San Jose, CA
- » Santa Clara Valley Medical Center, Serology, HIV and Flow Cytometry Lab -San Jose, CA
- » City of Hope, Rivergrade Lab Relocation -Irwindale, CA
- » Veterans Affairs, Fresno Lab Expansion and Renovation - Fresno, CA

- » California Institute of Technology, Church Vivarium Renovation - Pasadena, CA***
- » Rancho Santiago Community College District, Santa Ana College, Health Sciences Building - Santa Ana, CA
- » California State University, Dominguez Hills, New Center for Science and Innovation - Dominguez Hills, CA
- » University of Arizona, Biosciences Research Lab - Tucson, AZ***
- » University of Arizona, Medical Research Building - Tucson, AZ***
- » University of Arizona, Institute of Biomedical Science and Biotechnology -Tucson, AZ***
- » University of Southern California, Dr. Valeri Fokin Lab Remodel - Los Angeles, CA***
- » University of Southern California, Eli and Edythe Broad CIRM Center for Regenerative Medicine - Los Angeles, CA***
- » University of Southern California, Sealy G. Mudd – 2nd Floor Chemistry Renovation - Los Angeles, CA***
- » Lawrence Berkeley National Lab, New Research Building San Francisco, CA***
- » Oregon Health Sciences University, Bio-Medical Research Building - Portland, OR***

- » J. Craig Venter Institute, Research Building - La Jolla, CA***
- » J. David Gladstone Institutes at the Mission Bay Campus, New Lab Building -San Francisco, CA***
- » Prometheus Laboratories, New Lab Building - San Diego, CA***
- » Riverside Community College, New Lab Building - Riverside, CA***
- » University of San Francisco, 10th
 Floor Immunology Lab Remodel San
 Francisco, CA***
- » University of Hawaii, Pacific Health Research Lab Cancer - Honolulu, HI***
- » Arizona State University, BioDesign C Research Building - Tempe, AZ***
- » University of Alaska, Fairbanks, Lab Remodel - Fairbanks, AK***
- » U. S. Department of Agriculture, Forage Animal Production Research Lab -Lexington, KY***
- » U. S. Department of Agriculture, Animal Waste Management Research Lab* -Bowling Green, KY***
- U. S. Department of Agriculture, National Center for Animal Health Phase II Lab -Ames, IA***
- ***Denotes experience with a previous firm



5. Pricing (Page 1 of 2)

Staff Allocations per Discipline:	1	TOTAL			Architect	ure				Structur	al			Electric	cal/ Low	v Voltag	e		Mech	nanical/P	lumbin	g			Civil				Esti	mation		Labo	ratory De	esign Co	onsulting
Role/Classifications:	Hours	Fees	Assoc. Prin	Proj. Arc	Job Capt.	Su	ıbtotal	Prin. SEOR	Sr. Eng.	Eng. Des.	Su	btotal	Assoc. Prin	-	Eng. Des.	Su	btotal	Assoc. Prin	Proj. Eng.	Eng. Des.	Su	ibtotal	Assoc. Prin		Eng. Des.	Su	ibtotal	Prin Est.	Jr Est.	Su	btotal	Sr. Planner	Jr. Planner	Su	ubtotal
Hourly Rate:			\$ 220	\$ 175	\$ 132	Hrs	Fees	\$ 234	\$ 185	\$ 132	Hrs	Fees	\$ 220	\$ 175	\$ 132	Hrs	Fees	\$ 220	\$ 175	\$ 132	Hrs	Fees	\$ 220	\$ 185	\$ 132	Hrs	Fees	\$ 175	\$ 139	Hrs	Fees	\$ 175	\$125	Hrs	Fees
Task 1: Project Initiation (1 week)	52	\$9,264		1	T	12	\$2,190		T		5	\$1,159		1		8	\$1,445		1	T	8	\$1,445		· ·		5	\$925		1	0	\$0			14	\$2,100
Hold Kick Off meeting with SOCWA's designated project manager and key staff to confirm project background, goals, schedules, needs and requirements.		\$2,089	1	1		2	\$395	1	1		1	\$419	1	1		2	\$395	1	1		2	\$395		1		1	\$185			0	\$0	1	1	2	\$300
Obtain and review available drawings and other pertinent records.	20	\$3,580		4		4	\$700		4		4	\$740		4		4	\$700		4		4	\$700		4		4	\$740			0	\$0			0	\$0
Prepare equipment schedules/checklists (Criterion).	10	\$1,595	1	1		2	\$395				0	\$0				0	\$0				0	\$0				0	\$0			0	\$0	4	4	8	\$1,200
Develop survey questionnaires for SOCWA staff.	12	\$2,000		4		4	\$700				0	\$0		2		2	\$350		2		2	\$350				0	\$0			0	\$0	2	2	4	\$600
Task 2: Data Gathering & Client Coordination (6 weeks)	205	\$36,197		4	l	65	\$11,096				17	\$4,081				25	\$4,555		1		25	\$4,555				33	\$5,910			0	\$0			40	\$6,000
Conduct field assessment of existing laboratory and surrounding grounds- all IDS disciplines.	40	\$6,822		6	6	12	\$1,842		6		6	\$1,110		6		6	\$1,050		6		6	\$1,050		6		10	\$1,770			0	\$0			о	\$0
Conduct field assessment of existing laboratory equipment and furnishings- IDS & Criterion.	16	\$2,428		4	4	8	\$1,228				0	\$0				0	\$0				0	\$0				0	\$0			0	\$0	4	4	8	\$1,200
Submit questionnaires to staff for review and response.	4	\$695	1	1		2	\$395				0	\$0				0	\$0				0	\$0				0	\$0			0	\$0	1	1	2	\$300
Conduct interviews with key staff following questionnaire completion.	24	\$3,980	4	4		8	\$1,580				0	\$0				0	\$0				0	\$0				0	\$0			0	\$0	8	8	16	\$2,400
Compile initial site observation findings and interviews into a narrative.	36	\$6,482	1	4	4	9	\$1,448	1	4		4	\$974	1	4		5	\$920	1	4		5	\$920	1	4		9	\$1,620			0	\$0	2	2	4	\$600
Meeting with SOCWA to review site observations/ interviews narrative.	11	\$2,254	1	1		2	\$395	1	1		1	\$419	1	1		2	\$395	1	1		2	\$395		1		2	\$350			0	\$0	1	1	2	\$300
Develop preliminary approaches to the two scenarios requested for exploration by SOCWA.	43	\$7,904	2	12		14	\$2,540	1	4		4	\$974	1	6		7	\$1,270	1	6		7	\$1,270	1	2		7	\$1,250			0	\$0	2	2	4	\$600
Compile final Investigation narrative to SOCWA with preliminary approaches to the RFP two	31	\$5,632	2	4	4	10	\$1,668	1	2		2	\$604	1	4		5	\$920	1	4		5	\$920	1	2		5	\$920			0	\$0	2	2	4	\$600
scenarios. Task 3: Exploration (6 weeks)	214	\$36,280				95	\$14,033				10	\$2,552				32	\$5,735				22	\$5,735				0	\$0			0	\$0			55	\$8,225
Evaluate upgrades, relocation, replacement, and		<i>\$30,200</i>		1	[00	<i>Q14,000</i>				10	<i><i>v</i><i>z,ssz</i></i>				52	<i>\$3,733</i>				52	<i>\$3,733</i>					ΨŪ				ΨŪ		[55	<i>Q</i> 0,220
additions to: fume hoods, vacuum pump system, bottle glass cleaning system, bench space, filtration system, refrigerator/freezer area, Nanopure system, POU & IM technology.		\$11,636	2	16	8	26	\$4,296		4		4	\$740		12		12	\$2,100		12		12	\$2,100				0	\$0			0	\$0	8	8	16	\$2,400
Explore upgrades, expansion, insertion, and relocation of waste storage, chemical storage, lab offices, sample receiving, and other key spatial element designated by SOCWA.	58	\$9,496	2	16	8	26	\$4,296				0	\$0		8		8	\$1,400		8		8	\$1,400				0	\$0			0	\$0	8	8	16	\$2,400
Review existing building's interior architecture; assess ability to address SOCWA aesthetic requests- glazing, casework, ergonomic furniture.	13	\$2,062	1	6	6	13	\$2,062				0	\$0				о	\$0				0	\$0				0	\$0			0	\$0			0	\$0
Compile drafts of initial assessments for new and relocated equipment, spatial upgrades, and aesthetic enhancements.	29	\$5,092	1	4	4	9	\$1,448	1	2		2	\$604	1	4		5	\$920	1	4		5	\$920				0	\$0			0	\$0	4	4	8	\$1,200
Meetings with SOCWA to review initial assessments; discuss items and elements to be added, revised, or deleted.	9	\$1,904	1	1		2	\$395	1	1		1	\$419	1	1		2	\$395	1	1		2	\$395				о	\$0			0	\$0	1	1	2	\$300
Revise initial assessments per SOCWA comments; begin preliminary assignment of items into each of the two RFP scenarios for further evaluation.	17	\$2,811	1	2	3	6	\$966		2		2	\$370		3		3	\$525		3		3	\$525				0	\$0			0	\$0	1	2	3	\$425
Develop preliminary equipment and furnishing schedules for further evaluation with each of the two RFP scenarios.	8	\$1,200				0	\$0				0	\$0				0	\$0				0	\$0				0	\$0			0	\$0	4	4	8	\$1,200
Compile final assessments and schedules; submit to SOCWA for review.	10	\$2,079	1	2		3	\$570	1	1		1	\$419	1	1		2	\$395	1	1		2	\$395				0	<i>\$0</i>			0	\$0	1	1	2	\$300



Request for Proposal Laboratory Upgrades Feasibility Study



5. Pricing (Page 2 of 2)

Staff Allocations per Discipline:		TOTAL			Architect	ture				Structu	ral			Electri	cal/ Low	Voltag	e		Mec	hanical/F	Plumbin	Ig			Civil				Esti	mation		Labo	ratory De	esign Co	onsulting
Role/Classifications:	Hours	Fees	Assoc. Prin	Proj. Arc	Job Capt.	Su	ubtotal	Prin. SEOR	Sr. Eng.	Eng. Des.	Su	ubtotal	Assoc. Prin	•	Eng. Des.	Su	btotal	Assoc. Prin		-	Si	ubtotal	Assoc. Prin	Sr. Eng.	Eng. Des.	Su	btotal	Prin Est.	Jr Est.	Su	ıbtotal	Sr. Planner	Jr. Planner	SI	ubtotal
Hourly Rate:			\$ 220	\$ 175	\$ 132	Hrs	Fees	\$ 234	\$ 185	\$ 132	Hrs	Fees	\$ 220	\$ 175	\$ 132	Hrs	Fees	\$ 220	\$ 175	\$ 132	Hrs	Fees	\$ 220	\$ 185	\$ 132	Hrs	Fees	\$ 175	\$ 139	Hrs	Fees	\$ 175	\$125	Hrs	Fees
Task 4: Evaluation (16 weeks)	233	\$39,965				52	\$8,643				14	\$3 <i>,</i> 835				33	\$5,873				33	\$5,873				11	\$1,893			60	\$9,348			30	\$4,500
Meeting with SOCWA to review final assessments and schedules; outline/confirm goals and objectives for evaluation of the two RFP scenarios.	11	\$2,221	1	1	1	3	\$527	1	1		1	\$419	1	1		2	\$395	1	1		2	\$395		1		1	\$185			0	\$0	1	1	2	\$300
Evaluate "Laboratory As Is" scenario- 'test fit' of equipment, proposed spatial reconfiguration, impacts to existing MEP.	52	\$9,010	2	12	8	22	\$3,596	1	4		4	\$974	1	8		9	\$1,620	1	8		9	\$1,620				0	\$0			0	\$0	4	4	8	\$1,200
Evaluate "Drinking Water Laboratory Separate Space" in coordination with "Laboratory As Is" scenario- 'test fit' of equipment, proposed spatial reconfiguration, impacts to existing MEP, accessibility and amenity needs.	45	\$7,720	1	8	8	17	\$2,676	1	2		2	\$604	1	8		9	\$1,620	1	8		9	\$1,620				0	\$0			0	\$0	4	4	8	\$1,200
Meeting with SOCWA to review initial scenario developments	11	\$2,221	1	1		2	\$395	1	1	1	2	\$551	1	1		2	\$395	1	1		2	\$395		1		1	\$185			0	\$0	1	1	2	\$300
Revise initial scenario developments per SOCWA comments.	43	\$7,136	2	2	2	6	\$1,054	1	2	2	4	\$868	1	4	4	9	\$1,448	1	4	4	9	\$1,448	1	2	4	7	\$1,118			0	\$0	4	4	8	\$1,200
Develop ROM estimates for each scenario (2)	60	\$9,348				0	\$0				0	\$0				0	\$0				0	\$0				0	\$0	28	32	60	\$9,348			0	\$0
Compile scenario developments and ROM estimates.	11	\$2,309	1	1		2	\$395	1	1		1	\$419	1	1		2	\$395	1	1		2	\$395	1	1		2	\$405			0	\$0	1	1	2	\$300
Task 5: Presentation/Review/Completion (6 weeks)	115	\$19,208				32	\$5,530				12	\$2,242				13	\$2,148				13	\$2,148				13	\$2,228			16	\$2,512			16	\$2,400
IDS & Criterion workshop with SOCWA.	32	\$5,660	4	4		8	\$1,580		4		4	\$740		4		4	\$700		4		4	\$700		4		4	\$740			0	\$0	4	4	8	\$1,200
Submit scenario developments and ROM estimates to SOCWA for review.	1	\$220	1			1	\$220				0	\$0				0	\$0				о	\$0				о	\$0			0	\$0			0	\$0
Receive SOCWA comments; make final revisions to scenario developments and ROM estimates.	77	\$12,494	2	8	8	18	\$2,896	1	4	4	8	\$1,502	1	4	4	9	\$1,448	1	4	4	9	\$1,448	1	4	4	9	\$1,488	8	8	16	\$2,512	4	4	8	\$1,200
Final assessment sent to SOCWA.	5	\$834	1	2	2	5	\$834				0	\$0				0	\$0				0	\$0				0	\$0			0	\$0			0	\$0
TOTAL - Fees/Hours	819	\$140,914	38	132	76	246	\$41,492	15	51	7	58	\$13,869	15	88	8	111	\$19,756	15	88	8	111	\$19,756	6	33	8	62	\$10,956	36	40	76	\$11,860	77	78	155	\$23,225

Request for Proposal Laboratory Upgrades Feasibility Study



Hourly Fee Schedule

Title – Association	Hourly Rate
Principal	\$234
Associate Principal	\$220
Senior Project Manager Associate	\$211
Senior Planner	\$211
QA/QC Manager	\$211
Registered Architect or Engineer	\$197
Project Manager	\$197
Senior Architect or Engineer	\$185
Senior Cost Estimator	\$175
Project Architect or Engineer	\$175
Senior Designer	\$170
Designer Architect or Engineer	\$160
Spec Writer	\$160
Engineering Designer - BIM	\$139
Architectural Job Captain Designer	\$132
CAD Drafting Engineer Architect	\$118
Office Administration	\$73

Expenses such as, but not limited to, plan check fees, permits, inspections, testing services, title company fees, special delivery charges, plotting/ presentation boards, maps, aerial photographs, and reprographics/ illustrations that may be required for community or other stakeholder presentation, shall be billed to the owner at Consultant's direct cost plus 10%.





6. Non-Collusion Affidavit

AFFIDAVIT CERTIFYING NO CONFLICTS OF INTEREST

The undersigned declares:

I am the <u>Principal</u> of <u>IDS Group</u>, Inc. ("Proposer"), the party making the foregoing bid.

As a California public agency, SOCWA is subject to conflicts of interest rules under the Political Reform Act ("PRA") and California Government Code Section 1090 ("Section 1090").

The PRA prohibits a public official at any level of state or local government from making, participate in making, or in any way attempt to use their official position to influence a governmental decision in which the official has a financial interest. A public official has a financial interest in a decision if it is reasonably foreseeable that the decision will have a material financial effect on the public official, a member of the public official's immediate family, or on: (a) a business in which the public official has a direct or indirect investment worth \$2,000 or more; (b) real property in which the public official has a direct or indirect interest worth \$2,000 or more; (c) any source of income of \$500 or more received within 12 months prior to the time when the decision is made; (d) a business in which the public official is a director, officer, partner, trustee, employee, or has a management position; or (e) the donor of a gift to the public official of \$250 within 12 months prior to the time when the decision is made; when the decision is made.

Section 1090 provides that public officials and public employees may not be "financially interested" in "any contract made by them in their official capacity."

By signing below, Bidder acknowledges that it (i) has considered persons with whom it has business relationships as to the potential for such persons to have a conflict of interest, (ii) has considered the requirements and provisions of the PRA and Section 1090, (iii) certifies that it does not know of any facts which constitute a violation, or should be further investigated to prevent a violation of those provisions, and (iv) agrees that Bidder will immediately notify SOCWA if it becomes aware of any such fact at a later date.

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 ___[date], at <u>Irvine ____[city], California [state].</u> March 12, 2024

Mil Hill Signature: Said Hilmy Title: Principal





SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No.1

LABORATORY UPGRADES FEASIBILITY STUDY

THE BIDDER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE DOCUMENTS SUBMITTED WITH THE PROPOSAL.

The following additions, modifications, corrections, deletions and clarifications are hereby made to the RFP of the subject project:

Attachment A attached to this Addendum No. 1 supersedes Attachment A in the RFP.

DATED: February 1, 2024

Amber Baylor

Amber Baylor, Director of Environmental Compliance

BIDDER'S CERTIFICATION

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

DATED: March12, 2024

BIDDER: IDS Group, Inc.

BY:

Said Hilmy, Principal





SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 2

LABORATORY UPGRADES FEASIBILITY STUDY

THE BIDDER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE DOCUMENTS SUBMITTED WITH THE PROPOSAL.

The following additions, modifications, corrections, deletions and clarifications are hereby made to the RFP of the subject project:

Floor plan for the entire RTP Administrative Building.

DATED: 2/13/24

eanette Cotinola

Jeanette Cotinola, CPCM Procurement/Contracts Manager

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 2 and accept all conditions contained herein.

DATED: March 12, 2024

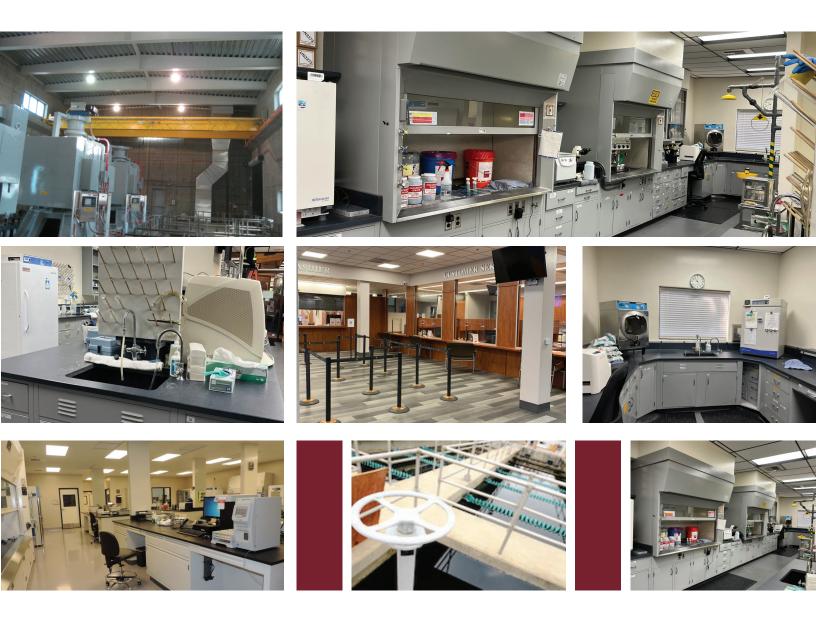
BIDDER: IDS Group, Inc.

BY:

Said Hilmy, Principal









1 Peters Canyon Road, Suite 130 | Irvine, California 92606 | T: (949) 387-8500 | www.idsgi.com

Request for Proposal

-

t

Laboratory Upgrades Feasibility Study - Updated

JUNE 3, 2024



TIX3

Revised Fee Schedule for MWA

ORIGINAL PROPOSAL DATED MARCH 12, 2024

TASK DESCRIPTION		Γ	AWA ARCHI	TECTS		INTER	FACE ENGI	NEERING	WAYPOINT	MACK5	TOTAL HOURS	LABOR COSTS	OTHER DIRECT COSTS	TOTALS
	PIC/Lab Planner \$275	Project Manager \$175	Lab Technical \$140	Senior Architect QA \$185	Tech Writer \$130	Mechanical/ Plumbing \$230	Electrical \$210	Plumbing/Fire Protection	Structural Engineer \$225	Cost Engineer \$211				
TASK 1: Progress Meetings	22	32	52	0	0	0	0	0	0	0	106	\$18,930	\$3,500	\$22,430.00
Workshops - allow 3 at SOCWA + prep	16	20	40	0	0	0	0	0	0	0			\$3,500	
Monthly Progress Meetings - allow 6	6	12	12	0	0	0	0	0	0	0				
TASK 2: Document Review	0	24	8	8	4	24	5	0	0	0	73	\$13,890	\$3,000	\$16,890.00
On-site field dimensions + MEP survey	0	8	8	0	0	16	0	0	0	0			\$3,000	
Narrative Arch + Eng. consults	0	16	0	8	4	8	5	0	0	0				
TASK 3: Two feasibility Design Scenarios	37	38	116	0	0	0	0	0	0	73	264	\$48,468	\$200	\$48,668.00
1. Lab - interior renovation only														
2 day programming workshop + prep	16	16	24	0	0	0	0	0	0	0				
Notes, follow-up items	0	8	0	0	0	0	0	0	0	0				
Workflow diagrams - Scenario 1	0	0	12	0	0	0	0	0	0	0			\$100	
Design work 2 floor plan options	8	0	24	0	0	0	0	0	0	0				
2. Separate DW lab														
Assemble lab examples, templates for selective lab spaces	2	0	8	0	0	0	0	0	0	0				
Coordination with SOCWA on site selection	0	8	8	0	0	0	0	0	0	0				
Workflow diagrams - Scenario 2	1	0	16	0	0	0	0	0	0	0			\$100	
Design work, 2 options	8	2	24	0	0	0	0	0	0	0				
3. Cost Engineer - Mack 5														
2 options - Scenarios 1-2	0	0	0	0	0	0	0	0	0	65				
Arch. Coordination	2	4	0	0	0	0	0	0	0	8				
TASK 4: Consultant Coordination - Modern Inventory Management System	14	34	10	0	6	0	0	0	0	0	64	\$11,980		\$11,980.00
Facilitate virtual meetings with LIMS/Inventory consultant – allow 2 meetings	6	12	0	0	0	0	0	0	0	0				
Vet findings with SOCWA lab staff	4	4	2	0	0	0	0	0	0	0				
Add a pros/cons matrix for this item - Consult. Hours	2	4	8	0	0	0	0	0	0	0				
Include our findings and suggest a preferred alternative in TM	2	12	0	0	4	0	0	0	0	0				
Add budgets for software and training within the Draft and Final cost estimate TM.	0	2	0	0	4	0	0	0	0	0				
TASK 5: Feasibility Study Memorandum and Workshop	26	56	40	28	8	49	13	0	16	0	236	\$46,370	\$450	\$46,820.00
1. Draft TM	16	32	16	8	8	32	8	0	8	0			\$250	
2. Draft 02 TM with comments addressed	2	8	16	8	0	4	0	0	2	0				
3. Final TM	8	16	8	12	0	13	5	0	6	0			\$200	
Total Hours/ Total Fees	99	184	226	36	18	73	18	0	16	73	743	\$139,638	\$7,150	\$146,788.00





RESPONSE TO REQUEST FOR PROPOSAL LABORATORY UPGRADES FEASIBILITY STUDY REV.1





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- SECTION 1.2.2 APPROACH TO THE WORK
- SECTION 1.2.3 EXPERIENCE AND TECHNICAL COMPETENCE
- SECTION 1.2.4 KEY PERSONNEL
- SECTION 1.2.5 PRICING

ATTACHMENT B NON-COLLUSION AFFIDAVIT





6410 Oak Canyon Suite 150 Irvine, California 92618

theaustin.com

P 949.451.9000 F 949.451.9011

-March 12, 2024 Rev. June 3, 2024

Jeanette Cotinola Procurement/Contracts Manager South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92629

RE: **Request for Proposals** SOCWA Laboratory Upgrades Feasibility Study

Dear Ms. Cotinola,

The Austin Company is pleased to submit our proposal for the Laboratory Upgrades Feasibility Study. We are enthusiastic about the opportunity to collaborate with SOCWA on this project and look forward to developing an ongoing working relationship with your organization.

Our design, engineering, and project management experience includes projects throughout Orange County and Southern California for clients such as the Orange County Sanitation District (OC San), Orange County Water District, Inland Empire Utilities Agency, Disneyland Resort, and Southern California Edison, as a few examples.

As a continuation of over 17 years of near continuous service to OC San, we are currently developing OCSAN's CAD & Design Standards Manual, which includes analyzing current best practices, reviewing projects, and writing new 3D and BIM standards to enable robust quality control practices. Prior projects have included Plant 1 Laboratory Refurbishment Study, Title 24 Access Compliance and Related Improvements Project, which involved a complex, multi-year design and phased implementation, and strategic Administrative Facilities Planning, among other project assignments.

After reviewing the solicitation documents, we firmly believe that The Austin Company possesses the necessary experience, knowledge, and resources to provide a study that meets needs of the SOCWA Laboratory Feasibility Upgrade. Our highly experienced team has a proven track record of successfully delivering similar projects, as detailed in our enclosed proposal for engineering consulting services.

The Austin Company 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. The Austin Company also certifies that it is willing and able to obtain all required insurance. Furthermore, The Austin Company 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 comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.



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P 949.451.9000 F 949.451.9011

The Austin Company acknowledges and agrees with all terms and conditions stated in the RFP and certifies that all information provided in connection with its proposal is true, complete, and correct.

Thank you again for considering The Austin Company for this opportunity. Should you have any questions or require further information, please feel free to contact me directly via email at ken.stone@theaustin. com or by phone at 714-329-5286 (mobile). We look forward to a positive response from your team.

Sincerely,

Kenric B. Stone Vice President The Austin Company



SECTION 1.2.1 IDENTIFICATION OF THE RESPONDER

THE AUSTIN COMPANY

s a fully-integrated project management, architectural, engineering, and construction services firm, The Austin Company regularly builds what it designs. Austin architects and engineers have hands-on field experience beyond the usual architectural/engineering firm's exposure to field observation. Austin's design professionals actually spend a portion of their careers as full-time field engineers, giving them firsthand experience under actual field conditions. That depth of expertise is reflected in the design work that is produced.

Under the direction of President and CEO Mike Pierce, Austin continues its tradition of providing in-house design-build services including master planning (site and facility),

architectural design, interior design, engineering (civil, structural, mechanical, electrical), designbuild, construction management and project management services. In addition to these complete services for the built environment, we offer a variety of strategic consulting services including site location, plant layout, etc.

With the resources of Austin's parent company, Kajima USA, and the worldwide Kajima organization, Austin has expanded the breadth and depth of its solutions to a global market.

Austin's legal name is Austin Building and Design, Inc. (dba The Austin Company), a Delaware Corporation.

The Austin Company headquarters, and principal place of business is located at:

6095 Parkland Blvd #100, Cleveland, OH

Austin serves the Southern California region from it's Orange County office located at:

6410 Oak Canyon, Suite 150, Irvine, CA 92618

Kenric B. Stone Vice President C. 714.329.5286 ken.stone@theaustin.com Jim E. Cathcart General Manager C. 714.293.8321 jim.cathcart@theaustin.com



CLIENT SATISFACTION

Perhaps one of the greatest measures of an organization's performance and overall client satisfaction is repeat business. The aviation industry has come to rely on Austin's commitment to on time performance. We are honored to enjoy a high level of continuing and repeat business with over 80% of our annual business from continuing and repeat clients.

1.2.1 | IDENTIFICATION OF THE RESPONDER





SECTION 1.2.2 APPROACH TO THE WORK

1.2.2 APPROACH TO THE WORK

PROJECT UNDERSTANDING

Upon selection, The Austin Company will undertake a comprehensive feasibility study on RTP Laboratory upgrades for the South Orange County Wastewater Authority (SOCWA). SOCWA, a Joint Powers Authority, is responsible for managing wastewater treatment, effluent and biosolids disposal, and water recycling in the southern region of Orange County, with participation from seven member agencies: the City of Laguna Beach, the City of San Clemente, El Toro Water District, Emerald Bay Service District, Moulton Niguel Water District, Santa Margarita Water District, and South Coast Water District.

The SOCWA Laboratory plays a crucial role in providing process control and compliance support for SOCWA member agencies across three wastewater treatment plants. It ensures compliance with regulatory requirements such as NPDES Order No. R9-2022-0005, R9-2022-0006, Master Recycled Water Order 97-52, Safe Drinking Water Act standards, and air quality permits for the facilities. Additionally, the SOCWA Laboratory conducts research to facilitate method development for member agencies and regulatory bodies.

Austin will evaluate two distinct feasibility design scenarios for the RTP Laboratory upgrades:

- 1. Laboratory as Is.
- 2. Drinking Water Laboratory Separate Space.

Upon completion of the analysis, Austin will present a draft technical memorandum outlining the findings for each scenario, inclusive of high-level cost estimates and evaluations of their respective advantages and disadvantages. Austin will organize a workshop to present the findings, offering the option of an on-site or virtual presentation. The cost estimates provided will encompass markups, construction costs, contingency, design fees, engineering services during construction fees, and an estimate for construction management if deemed necessary.

APPROACH TO THE WORK

KICKOFF AND FACILITY ASSESSMENT

The Austin Company will coordinate a kick-off meeting to establish lines of communication, confirm project objectives, and define roles and responsibilities. If feasible, Austin will also conduct a site survey the day of the kick-off meeting to visually observe existing conditions of the facility with regard to code compliance, operational conditions, and confirm as-built conditions. Digital photographs will be required with pending prior approval.

PHASE 1: PROGRAMMING AND ASSESSMENT

The purpose of the requirements programming process is to evaluate and conceptually define SOCWA's process and operations for each of the four scenarios.

By means of site tours, and interviews with stake holders, Austin will review and understand the requirements of the following areas and aspects of SOCWA's operation:

- 1. Existing laboratory functions and needs
 - Define functions and processes that occur in the laboratory.
 - Quantity of personnel
 - Equipment type, quantity, and size

SECTION 1.2.2 | APPROACH TO THE WORK



1.2.2 APPROACH TO THE WORK

- Fume hood type, quantity and size
- Workspace/bench requirements linear feet
- Storage requirements types of items stored, means of storage, square footage required for each, environmental requirements (i.e. ventilation, refrigeration, temp/humidity), segregation requirements, etc.
- Sample Receiving and Inventory Management
- Chemical inventory
- Point of Use technology
- Windows for views and daylighting
- Equipment and parts cleaning systems
- Lighting Requirements
- Utility and emergency power requirements including water purification requirements.
- Accessory areas office, mechanical/equipment, etc. and adjacencies to main lab spaces.
- Future expansion potential
- 2. Drinking Water Laboratory as a separate space (same programming items as above)

PHASE 2: CONCEPTUAL DESIGN

Austin will develop discipline specific conceptual layouts and systems narratives to describe the scope of work for each of the four scenarios, which will include architectural, structural, mechanical, plumbing, and electrical divisions of work. Conceptual drawings will identify existing conditions, proposed improvements/ upgrades, new and existing equipment, and utility requirements. Systems narratives will describe materials, systems, and components to further define the level of quality required for the project.

CONCEPTUAL LAYOUT

- Develop 2 to 3 architectural design concepts for each of the four scenarios based on the programming requirements defined in the phase above.
- Review concepts with owner for selection of preferred layouts.
- Further develop the selected concept for each scenario.

CONCEPTUAL SYSTEMS NARRATIVES

- Develop systems narratives to include quantity/ quality of design elements with basis of design make and model for equipment and materials, where applicable.
- The conceptual layouts and narratives will be used to develop the budgetary cost estimate.

PHASE 3: BUDGETARY COST ESTIMATE

Austin's preconstruction estimating team will utilize the selected conceptual layouts and systems narratives to develop budgetary cost estimates for each of the four scenarios. Budgetary estimates will include, construction costs, design costs, contingency, and markups.

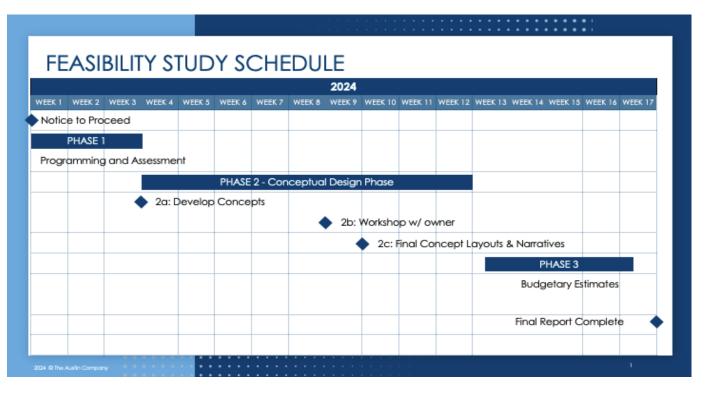


1.2.2 APPROACH TO THE WORK

ITEMS REQUIRED FROM OWNER (BY PROJECT KICKOFF):

- Record Drawings of existing laboratory building (Scenario #1 and #2).
- Utility information for each facility, or if not available, assumptions for each.
- Utility usage of existing operation
- Utility capacity (i.e. utility bills, incoming services, etc.)
- Equipment list for each scenario including dimensions, weights, and utility requirements for each piece of equipment.

WORK SCHEDULE





SECTION 1.2.3 EXPERIENCE & TECHNICAL COMPETENCE



INLAND EMPIRE UTILITIES AGENCY NEW MAIN LABORATORY



LOCATION: Chino, CA

SIZE: 17,000 SF

The Inland Empire Utilities Agency faced significant challenges with its existing laboratory facilities, including issues such as overcrowding, inadequate ventilation, and structural deficiencies. Recognizing the need for improvement, The Austin Company was engaged to lead a comprehensive project to revamp and expand the facilities. This project encompassed the construction of the New Water Quality Laboratory and the expansion of the Central Chiller Plant, both crucial components for enhancing the Agency's operations.

The scope of work undertaken by Austin was extensive and included various tasks such as updating designs to meet current building codes and LEED requirements, conducting thorough field investigations, providing construction administration support, and ensuring the successful completion of control system design. These efforts were aimed at addressing the existing challenges and creating a modern, efficient, and sustainable laboratory environment for the Inland Empire Utilities Agency. One of the key aspects of the project was the design and layout of the new Main Laboratory, which was carefully planned to accommodate Organic, Inorganic, and Water Quality laboratories, along with offices and support spaces.



The layout was structured around a central corridor system to optimize workflow and facilitate the transfer of samples throughout the building. Furthermore, the design prioritized flexibility to allow for future adaptations and expansions as needed.

The water quality laboratory, a significant component of the project, was designed not only to meet technical requirements but also to serve as an educational hub. Featuring a visitor's center, the laboratory is open for tours and aims to educate visitors on various aspects of water quality, pollution prevention, water conservation, and the benefits of recycled water.

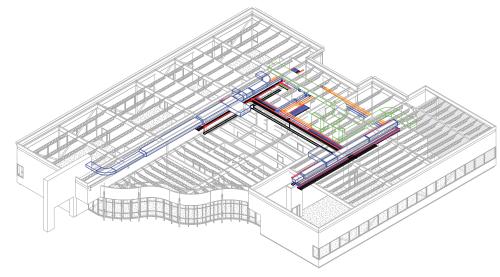
SECTION 1.2.3 | EXPERIENCE & TECHNICAL COMPETENCE



This educational focus aligns with the Agency's commitment to environmental stewardship and complements the educational initiatives at the Chino Creek Wetlands and Educational Park.



Beyond its educational role, the new laboratory facility plays a critical operational role, providing analytical support to the Agency's recycling facilities and the Ground Water Recharge Program. By achieving LEED® Gold Certification, the project underscores the commitment to sustainability and environmental responsibility. Overall, the project represents a significant investment in modernizing and enhancing the capabilities of the Inland Empire Utilities Agency, positioning it for continued success in its mission to serve the community and protect the environment.



IEUA Main Laboratory Isometric

IEUA NEW MAIN LABORATORY										
Date Initiated	tiated Design Start 2015									
Date Completed	Design Finish 2017, Construction Complete 2019									
Name of Organization	Inland Empire Utility Agency	Inland Empire Utility Agency								
Client Contact	Jamal Zughbi, Senior Engineer,	Jamal Zughbi, Senior Engineer, Project Manager								
Phone number	909.993.1698	Email	jzughbi@ieua.org							

SECTION 1.2.3 | EXPERIENCE & TECHNICAL COMPETENCE



ORANGE COUNTY SANITATION DISTRICT FACILITY UPGRADE PLANT NO. 1



LOCATION: Fountain Valley, CA

SIZE: 36,000 SF

The Austin Company was selected to provide engineering services for the preparation of a feasibility study and cost estimate for the refurbishment of OCSD's Laboratory at Plant No. 1 in Fountain Valley, California.

The primary objective of the project for the Plant No. 1 Laboratory Building was to refurbish the facility to enhance testing capabilities, operational functionality, and accommodate the increased workload from the Orange County Water District (OCWD) and the Ground Water Replenishment System. A significant concern was that the Laboratory Building was constructed without obtaining an occupancy permit. Although OCSD was not under the City's jurisdiction during the construction, an agreement was later established in 1992 that specified which structures would require permits. The feasibility study needed to address the historical permit issue and ensure compliance with current regulations.

The study evaluated the feasibility of upgrading the Laboratory Building to meet all relevant building codes and acquire the necessary permits. It included a cost/benefit assessment and offered recommendations to OCSD regarding the feasibility of complying with regulations. This encompassed ensuring adherence to CCR Title 24, ADA, HVAC, plumbing, fire protection, electrical code, seismic requirements for Zone 4 earthquakes, and soil loading for liquefaction with the appropriate geotechnical reports. The feasibility study identified the necessary corrective actions to achieve these goals, resulting in an enhanced laboratory with improved capabilities that meet the required standards.

The study ensured that the proposed upgrades and modifications aligned with the agreements and specific plans established between OCSD and the City of Fountain Valley. This involved taking into account any pertinent terms from the 1992 agreement and the Specific Plan approved in 1994. Austin provided a detailed cost estimate for the recommended upgrades and modifications outlined in the previous reports. This cost estimate assisted OCSD in budgeting and planning the refurbishment project.

Lastly, the study played a crucial role in planning, designing, and implementing electrical upgrades for OCSD's Laboratory facility upgrade at Plant No. 1. Deliverables included a Load List, Single-Line Diagram, Electrical Room Plans, Detailed Compliance Report, Electrical Cost Estimates for Design and Engineering, Construction, and Code Upgrades.

SECTION 1.2.3 | EXPERIENCE & TECHNICAL COMPETENCE



PAGE 13

OCSAN FACILITY UPGRADE PLANT NO. 1										
Date Initiated	e Initiated Design Start 2016									
Date Completed	Construction Complete 2020									
Name of Organization	Orange County Sanitation	District								
Client Contact	Marianne Kleine, Design Supervisor									
Phone number		Email	mkleine@ocsan.gov							

OCSAN LEGACY

Austin has been serving OCSAN on a near-continuous basis for over 17 years, beginning in 2006. We have provided planning, architectural design, engineering, and project management services for various projects. Some notable examples include the P1 Laboratory Refurbishment Study J-97, which began in 2006, and the P1-115 Title 24 Access Compliance and Related Improvements project, which started in 2011 and involved a complex, multi-year design and phased implementation. Additionally, we have been involved in the Administrative Facilities Planning SP-194 and 195 since 2014, among other project assignments.

Currently, Austin is charged with working on updating OCSAN's CAD & Design Standards Manual. This entails analyzing and updating current best practices, reviewing past projects, and developing new 3D and BIM standards to be included in the manual. As always, Austin prioritizes interaction and productivity, creating long-term value at a reasonable cost, while minimizing construction disruptions.

OCSAN CAD & DESIGN STANDARDS UPDATE & MANUAL											
Date Initiated	Design Start 2016	Design Start 2016									
Date Completed	Construction Complete 202	Construction Complete 2020									
Name of Organization	Jacobs	Jacobs									
Client Contact	Donna DeMarco, Global Teo	chnology Lead – Plant	Information Modeling								
Phone number	541.760.9251	Email	Donna.DeMarco@jacobs.com								



ORANGE COUNTY WATER DISTRICT LABORATORY BUILDING FEASIBILITY STUDY



LOCATION: Fountain Valley, CA

Established in 1933 by the California State Legislature, The Orange County Water District (OCWD) aims to safeguard Orange County's water rights in the Santa Ana River and manage the groundwater basin, which has seen a significant increase in its annual yield since inception. Ensuring the protection, safety, and improvement of groundwater remains OCWD's top priority. With an advanced groundwater protection program, OCWD oversees approximately 650 wells with over 1,400 sampling points and monitors water reclamation plants and the Santa Ana River for recharge purposes.

The OCWD Laboratory, certified in nine testing fields by the Department of Health Services, is known for meeting regulatory standards. To maintain its certification, stay ahead in the industry, and meet future demands until 2020 and beyond, OCWD recognized the need to expand its laboratory facilities.

The Orange County Water District (OCWD) enlisted The Austin Company to conduct a feasibility study on four options for upgrading the OCWD Laboratory. The project objectives for upgrading the OCWD laboratory were to expand and modernize the main facility to future-proof its operations, maintain certifications and an industryleading status, and accommodate an expected increase in service demand.

Austin conducted a space utilization study to forecast the Laboratory Department's future space needs, ensuring that by 2020, the laboratory could handle the expected demand, fully utilizing the 41,000 SF area. Several concepts for expanding the laboratory facilities were developed and evaluated to determine which option would best meet OCWD's needs, considering cost, design, space utilization, and future flexibility.

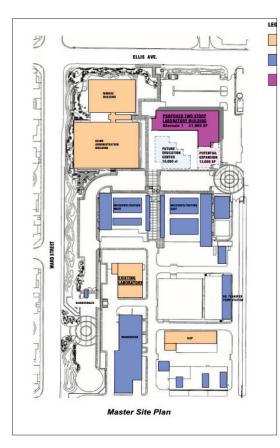




SIZE: 41,000 SF

SECTION 1.2.3 | EXPERIENCE & TECHNICAL COMPETENCE

PAGE 15



The evaluation process involved a multidisciplinary approach, including assessments of the architectural, structural, mechanical, and electrical systems of the existing building. By analyzing these critical components, Austin identified areas that needed improvement or upgrading to meet the future laboratory requirements of OCWD.

The deliverables to OCWD included detailed conceptual plans for each alternative, outlining the proposed design, layout, and functionality of the laboratory buildings. Austin also developed specific design criteria for each concept to align with OCWD's requirements and industry standards. The feasibility study addressed regulatory requirements, construction issues, probable cost estimates, project schedules, and recommendations based on the evaluation of the alternatives.

After a thorough evaluation, Austin recommended constructing a new two-story building to house the entire laboratory program. The proposed location for the new building was east of the existing OCWD administration building, chosen for its integration with the current campus layout and facilities.

A collaborative effort between OCWD, Austin, and other project stakeholders was crucial to navigate challenges and complete the comprehensive planning, risk assessments, and adaptive management strategies essential for the success of the new laboratory building expansion project.

OCWD FACILITY UPGRADE PLANT NO. 1									
Name of Organization	Orange County Water District								
Client Contact	Chuck Steinbergs, Principal B	Chuck Steinbergs, Principal Engineer							
Phone number	714.378.3229	Email	steinbergs@ocwd.com						

SECTION 1.2.3 | EXPERIENCE & TECHNICAL COMPETENCE



LABORATORY EXPERIENCE

LABORATORIES

The Austin Company provides planning, design, engineering, and construction services for a wide variety of laboratory and research & development facilities, satisfying challenging requirements for leading advanced technology companies, including municipal and bio-pharmaceutical clients, nationwide.

Facilities and equipment must be located, designed, constructed, adapted, and maintained to suit the operations to be carried out. Their layout and design should aim to minimize the risk of errors and enable effective cleaning and maintenance in order to prevent cross-contamination, the build-up of dust and dirt, mix-ups, and, in general, any adverse effect on the quality of products. Beyond this requirement to ensure product quality stands the equally important necessity to minimize all risks associated with health and safety, as well as environmental protection.

Certain factors in design are common to all facility types:

- Cleanliness
- Logical workflow

- Adequate space
- Utilities

Logical people flow

• Proper separation of processes and functions

	RECENT LABORATORY RESEARC	H & DEVELOPEN	ANT EXPERIENCE	
CLIENT NAME	PROJECT NAME	ISO CLASS	LOCATION	YEAR
Northrop Grumman	Space Craft Assembly Center	ISO 7,8	Redondo Beach, CA	2021-2022
B Braun	Duplex Expansion	ISO 5,6,7,8	Irvine, CA	2019-2022
General Atomics	Building B95 Tenant Improvements	ISO 7	Rancho Bernardo, CA	2020-2021
Aerojet Rocketdyne	Canoga Park Campus Upgrades	ISO 8	Chatsworth, CA	2019-2021
AP Tech	Electronics Mfg. Building Expansion	ISO 5,6	Napa, CA	2019-2020
Northrop Grumman	B M4 ATL Upgrades	ISO 8	Redondo Beach, CA	2017
Northrop Grumman	B M2 Modernization	ISO 7,8	Redondo Beach, CA	2017-2019
Northrop Grumman	AC-19 Replacement	ISO 7,8	Redondo Beach, CA	2016-2017
B Braun	PAB Expansion	ISO 7,8	Irvine, CA	2018-2019
B Braun	CFM 4	ISO 5,7,8	Irvine, CA	2018
B Braun	Injection Molding	ISO 5,6,7,8	Irvine, CA	2017
Wakunaga of America	Protein Powders	ISO 7,8	Mira Loma, CA	2016-2017
Hitachi High-Tech	Biotech and Medical Products	ISO 8	Chatsworth, CA	2018
Bachem	Peptide Chemistry Lab	ISO 8	San Diego, CA	2018
EMD Millipore	R&D Labs, Pilot Plant	ISO 7	Temecula, CA	2016

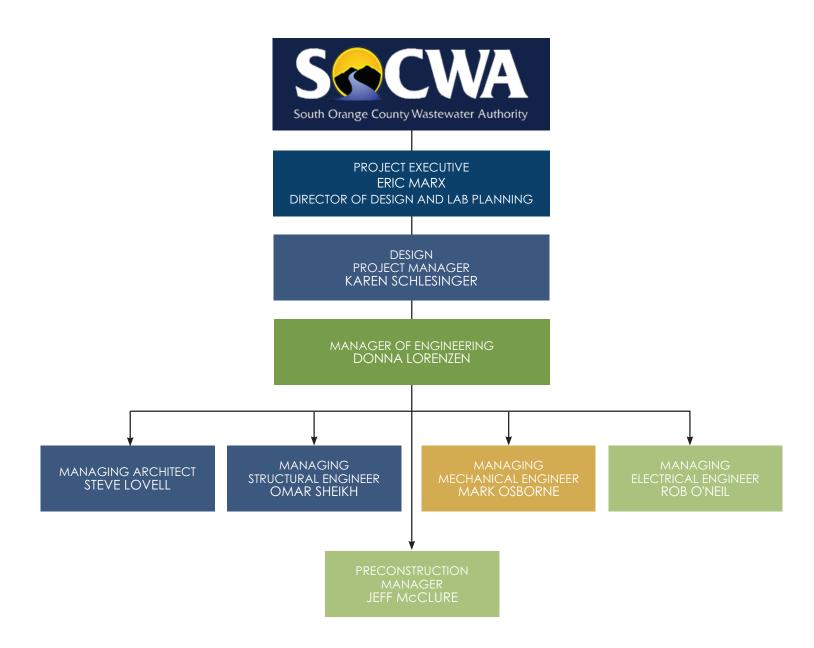
SECTION 1.2.3 | EXPERIENCE & TECHNICAL COMPETENCE





SECTION 1.2.4 KEY PERSONNEL

PROJECT TEAM ORGANIZATION CHART



SECTION 1.2.3 | PROJECT TEAM ORGANIZATION



YEARS IN PROFESSION 16 YEARS WITH AUSTIN 16

EDUCATION

Bachelor of Architecture California Polytechnic State University San Luis Obispo, CA

LICENSES & CERTIFICATIONS

Registered Architect (multiple states)

National Council of Architectural Registration Boards



SECTION 1.2.4 | KEY PERSONNEL

ERIC MARX, AIA, NCARB PROJECT EXECUTIVE DIRECTOR OF PLANNING & DESIGN

Eric, as Project Executive and Director of Planning and Design, leads the technical planning of laboratories and architectural design initiatives at The Austin Company. His role involves overseeing all architectural design efforts from planning to design development, through construction document phases. Eric directly manages architectural and technical design quality assurance and facilitates seamless interdisciplinary project coordination. Throughout the construction phase, he reviews and approves submittals for architectural work, conducts field observations, provides architectural design support for construction activities, and develops and signs off on architecturalrelated project punch lists.

Eric has extensive experience in the planning and design of laboratory and research & development facilities that meet challenging requirements for leading advanced technology companies, as well as municipal and biopharmaceutical clients, across the nation.

RELATED PROJECT EXPERIENCE

- Inland Empire Utilities Agency (IEUA) | New Main Laboratory | 17,000 SF Chino, CA
- Orange County Sanitation District (OCSAN) | Facility Upgrade Plant No. 1 36,000 SF | Fountain Valley, CA
- **B** | **Braun Medical Inc.** | Multiple Bio-Pharmacy Laboratory Projects Irvine, CA
- EMD Millipore | R&D Laboratory Projects | 22,000 SF | Temecula, CA
- Lockheed Martin Aeronautics | Multiple R&D Laboratory and Cleanroom Projects | Palmdale, CA
- Northrop Grumman Aerospace Systems (NGAS) | Multiple R&D Laboratory and Cleanroom Projects | Nationwide
- Northrop Grumman Space Technology (NGST) | Multiple R&D Laboratory and Cleanroom Projects | Redondo Beach, Manhattan Beach, and El Segundo, CA
- Northrop Integrated Systems (NGIS) | Multiple R&D Laboratory and Cleanroom Projects | El Segundo and San Diego, CA
- L3Harris LEO Aerospace | 60,000 SF | R&D and Cleanrooms | Florida
- L3Harris SAMT Aerospace | New Microelectronics Manufacturing R&D and Cleanrooms | 60,000 SF | Florida



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YEARS IN PROFESSION 23 YEARS WITH AUSTIN 22

EDUCATION

Bachelor of Science Architecture California Polytechnic State University San Luis Obispo, CA

LICENSES & CERTIFICATIONS

Registered Architect California

LEED® Accredited Professional



SECTION 1.2.4 | KEY PERSONNEL

KAREN SCHLESINGER, RA, LEED AP DESIGN PROJECT MANAGER

As the Design Project Manager, Karen plays a critical role in overseeing the development of architectural working drawings and collaborating with various internal teams, including architectural, structural, electrical, and mechanical disciplines. Her extensive expertise encompasses a wide range of tasks such as planning, design, hand rendering, program analysis, schematic site study and design, design development, construction drawings, presentation preparation, and construction administration.

In her role, Karen leads efforts in engineering coordination, acts as the primary liaison with clients, establishes project scopes, and effectively communicates requirements to Austin's team to ensure seamless project execution. With an impressive 23 years of professional experience, 22 of which have been with Austin, Karen has been deeply engaged in all aspects of design and engineering, from initial design concepts to overseeing the creation of construction documents and managing construction activities.

In her role, Karen serves as the primary daily contact for SOCWA, is responsible for enabling efficient communication and managing the project between SOCWA and Austin. Karen is a registered architect in the state of California and holds a LEED Accredited Professional certification, specializing in Building Design and Construction. She earned her Bachelor of Architecture degree with a minor in Construction Management from California Polytechnic University, San Luis Obispo.

RELATED PROJECT EXPERIENCE

- Inland Empire Utilities Agency (IEUA) | New Main Laboratory | 17,000 SF Chino, CA
- Orange County Sanitation District (OCSAN) | Facility Upgrade Plant No. 1 36,000 SF | Fountain Valley, CA
- Orange County Water District (OCWD) | Laboratory Building Feasibility Study 41,000 SF | Fountain Valley, CA
- **B** | **Braun Medical Inc.** | Multiple Bio-Pharmacy Laboratory Projects Irvine, CA
- EMD Millipore | R&D Laboratory Projects | 22,000 SF | Temecula, CA
- Avid Bioservices, Inc. | Manufacturing Laboratory and Clean Room 6,000 SF | Torrance, CA
- **Bachem** | Regulatory Compliance Systems Engineering | Water process supply and sanitary | Industrial waster water discharge, on-site chemicals, hazardous matierials | Oxidation platform foundation design | Vista, CA



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40 YEARS WITH AUSTIN 33

EDUCATION

Bachelor of Science Architecture California Polytechnic State University San Luis Obispo, CA

LICENSES & CERTIFICATIONS

Registered Architect (multiple states)

NCARB Certificate Holder

LEED® Accredited Professional



SECTION 1.2.4 | KEY PERSONNEL

STEVE LOVELL, NCARB, LEED AP MANAGING ARCHITECT

As Managing Architect, Steve brings substantial experience in the design and engineering of laboratory facilities. With over 40 years of professional experience, including 33 years at The Austin Company, he is an expert in the design and engineering of multiple research & development facilities that meet demanding requirements for top advanced technology companies, as well as municipal and biopharmaceutical clients.

Steve's responsibilities encompass quality assurance, monitoring project activities in relation to schedules, and coordinating interdisciplinary projects. He directs all facets of architectural design and development, from initial design stages through the preparation of contract documents and construction administration.

RELATED PROJECT EXPERIENCE

- Inland Empire Utilities Agency (IEUA) | New Main Laboratory | 17,000 SF Chino, CA
- Orange County Sanitation District (OCSAN) | Facility Upgrade Plant No. 1 36,000 SF | Fountain Valley, CA
- Orange County Water District (OCWD) | Laboratory Building Feasibility Study 41,000 SF | Fountain Valley, CA
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- EMD Millipore | R&D Laboratory Projects | 22,000 SF | Temecula, CA
- Avid Bioservices, Inc. | Manufacturing Laboratory and Clean Room 6,000 SF | Torrance, CA
- Lockheed Martin Aeronautics | Multiple R&D Laboratory and Cleanroom Projects | Palmdale, CA
- Northrop Grumman Aerospace Systems (NGAS) | Multiple R&D Laboratory and Cleanroom Projects | Nationwide
- Northrop Grumman Space Technology (NGST) | Multiple R&D Laboratory and Cleanroom Projects | Redondo Beach, Manhattan Beach, and El Segundo, CA
- Northrop Integrated Systems (NGIS) | Multiple R&D Laboratory and Cleanroom Projects | El Segundo and San Diego, CA





YEARS IN PROFESSION

31 YEARS WITH AUSTIN 28

EDUCATION

Bachelor of Science Mechanical Engineering Concentration in HVAC and Solar

California Polytechnic State University San Luis Obispo, CA

LICENSES & CERTIFICATIONS

Registered Professional Engineer (multiple states)

LEED® Accredited Professional



DONNA LORENZEN, PE MANAGER OF ENGINEERING

Donna holds the position of Manager of Engineering and Design at The Austin Company. Her responsibilities involve supervising and providing daily guidance for all design and engineering activities, from the initial planning and design development phase to the preparation of construction documents and offering support throughout the construction process.

With over 30 years of experience in engineering design and construction, Donna has held project engineering roles for various Austin clients across Southern California. Notable clients include Orange County Sanitation District, Boeing, B. Braun Medical, Inland Empire Utilities District, Lockheed Martin, Northrop Grumman, Southern California Edison, and the University of California.

Recognized for her dedication to quality and excellence, Donna has received several accolades, such as being honored as an Outstanding Engineer by the Orange County Chapter of the Engineering Council. Additionally, she has been praised by the United States Department of Energy for her achievements in sustainable design practices

RELATED PROJECT EXPERIENCE

- Inland Empire Utilities Agency (IEUA) | New Main Laboratory | 17,000 SF Chino, CA
- Orange County Sanitation District (OCSAN) | Facility Upgrade Plant No. 1 36,000 SF | Fountain Valley, CA
- **Orange County Water District (OCWD**) | Laboratory Building Feasibility Study 41,000 SF | Fountain Valley, CA
- **B** | **Braun Medical Inc.** | Multiple Bio-Pharmacy Laboratory Projects Irvine, CA
- EMD Millipore | R&D Laboratory Projects | 22,000 SF | Temecula, CA
- Lockheed Martin Aeronautics | Multiple R&D Laboratory and Cleanroom Projects | Palmdale, CA
- Northrop Grumman Aerospace Systems (NGAS) | Multiple R&D Laboratory and Cleanroom Projects | Nationwide
- Northrop Grumman Space Technology (NGST) | Multiple R&D Laboratory and Cleanroom Projects | Redondo Beach, Manhattan Beach, and El Segundo, CA
- Northrop Integrated Systems (NGIS) | Multiple R&D Laboratory and Cleanroom Projects | El Segundo and San Diego, CA
- L3Harris LEO Aerospace | 60,000 SF | R&D and Cleanrooms | Florida
- L3Harris SAMT Aerospace | New Microelectronics Manufacturing R&D and Cleanrooms | 60,000 SF | Florida





YEARS IN PROFESSION 15 YEARS WITH AUSTIN 15

EDUCATION

Bachelor of Science Civil Engineering University of Southern California Los Angeles , CA

LICENSES & CERTIFICATIONS

Registered Structural Engineer (multiple states)

Registered Professional Engineer Civil (multiple states)



SECTION 1.2.4 | KEY PERSONNEL

OMAR SHEIK, SE, PE MANAGING STRUCTURAL ENGINEER

In his capacity as Managing Structural Engineer, Omar provides technical design and engineering expertise, overseeing all structural engineering design activities from the initial planning stages to the design development and construction document phases. He holds direct responsibility for managing structural design quality assurance and facilitating interdisciplinary project coordination. Throughout the construction phase, Omar collaborates closely with the design team to review and approve submittals related to structural work. He conducts field observations, offers expert structural engineering support for construction activities, and actively contributes to the development and final approval of structural-related project punch lists.

Omar brings extensive experience in the planning and design of laboratory and research & development facilities that meet stringent requirements for leading advanced technology companies, as well as municipal and biopharmaceutical clients across the nation.

RELATED PROJECT EXPERIENCE

- Inland Empire Utilities Agency (IEUA) | New Main Laboratory | 17,000 SF Chino, CA
- Orange County Sanitation District (OCSAN) | Facility Upgrade Plant No. 1 36,000 SF | Fountain Valley, CA
- **Orange County Water District (OCWD**) | Laboratory Building Feasibility Study 41,000 SF | Fountain Valley, CA
- **B** | **Braun Medical Inc.** | Multiple Bio-Pharmacy Laboratory Projects Irvine, CA
- EMD Millipore | R&D Laboratory Projects | 22,000 SF | Temecula, CA
- Lockheed Martin Aeronautics | Multiple R&D Laboratory and Cleanroom Projects | Palmdale, CA
- Northrop Grumman Aerospace Systems (NGAS) | Multiple R&D Laboratory and Cleanroom Projects | Nationwide
- Northrop Grumman Space Technology (NGST) | Multiple R&D Laboratory and Cleanroom Projects | Redondo Beach, Manhattan Beach, and El Segundo, CA
- Northrop Integrated Systems (NGIS) | Multiple R&D Laboratory and Cleanroom Projects | El Segundo and San Diego, CA
- L3Harris LEO Aerospace | 60,000 SF | R&D and Cleanrooms | Florida
- L3Harris SAMT Aerospace | New Microelectronics Manufacturing R&D and Cleanrooms | 60,000 SF | Florida



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21 YEARS WITH AUSTIN 10

EDUCATION

Bachelor of Science Mechanical Engineering Montana State University Missoula, MO

LICENSES & CERTIFICATIONS

Registered Professional Engineer Mechanical

LEED Accredited Professional

.

AFFILIATIONS

American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)



SECTION 1.2.4 | KEY PERSONNEL

MARK OSBORNE, PE, LEED BD+C MANAGING MECHANICAL ENGINEER

In his role as the Managing Mechanical Engineer, Mark is responsible for overseeing and executing the design and engineering of all mechanical systems throughout the project's lifespan. He supervises and executes every aspect of mechanical design and engineering, starting from the initial planning phases and continuing through design development and construction documentation. Mark conducts on-site assessments, offers expert mechanical engineering guidance for construction operations, and actively participates in the development and final approval of project punch lists. He ensures that stringent quality standards are upheld by proactively managing the mechanical design quality assurance process and fosters collaboration across various disciplines to ensure a unified and cohesive approach.

Drawing on over 20 years of experience in designing mechanical systems, particularly in the aerospace and defense sectors during his ten years at Austin, Mark brings invaluable expertise in the planning and design of laboratory and research & development facilities that meet the rigorous demands of top-tier technology companies, as well as biopharmaceutical clients across the country.

RELATED PROJECT EXPERIENCE

- Inland Empire Utilities Agency (IEUA) | New Main Laboratory | 17,000 SF Chino, CA
- Orange County Sanitation District (OCSAN) | Facility Upgrade Plant No. 1 36,000 SF | Fountain Valley, CA
- Orange County Water District (OCWD) | Laboratory Building Feasibility Study 41,000 SF | Fountain Valley, CA
- **B** | **Braun Medical Inc.** | Multiple Bio-Pharmacy Laboratory Projects Irvine, CA
- Lockheed Martin Aeronautics | Multiple R&D Laboratory and Cleanroom Projects | Palmdale, CA
- Northrop Grumman Aerospace Systems (NGAS) | Multiple R&D Laboratory and Cleanroom Projects | Nationwide
- Northrop Grumman Space Technology (NGST) | Multiple R&D Laboratory and Cleanroom Projects | Redondo Beach, Manhattan Beach, and El Segundo, CA
- Northrop Integrated Systems (NGIS) | Multiple R&D Laboratory and Cleanroom Projects | El Segundo and San Diego, CA
- L3Harris LEO Aerospace | 60,000 SF | R&D and Cleanrooms | Florida
- L3Harris SAMT Aerospace | New Microelectronics Manufacturing R&D and Cleanrooms | 60,000 SF | Florida





YEARS IN PROFESSION

35 YEARS WITH AUSTIN

3

EDUCATION

Santa Barbara College Santa Barbara, CA

LICENSES & CERTIFICATIONS

Registered Professional Engineer Electrical (multiple states)

CET Ontario, Canada

•

AFFLIATIONS

•

Illuminating Engineering Society Orange County, CA



SECTION 1.2.4 | KEY PERSONNEL

ROB O'NEIL, PE, LEED AP MANAGING ELECTRICAL ENGINEER

As the Managing Electrical Engineer, Rob oversees the technical design and electrical engineering aspects of the project. With a remarkable professional background spanning over 35 years in electrical design and engineering, Rob brings extensive experience in designing facilities for municipalities, public agencies, manufacturing, and specialized expertise in planning and designing laboratory and research & development facilities for advanced technology companies, as well as municipal and biopharmaceutical clients.

Rob's primary responsibilities include providing guidance for all electrical engineering design efforts, from initial planning to construction document phases. He actively manages the quality assurance of electrical engineering design, ensuring adherence to high standards. Rob also supports interdisciplinary project coordination to foster collaboration among different teams and disciplines.

During the construction phase, Rob and his team conduct thorough reviews and approvals of electrical systems work submittals. He conducts field observations, offers expert support for construction activities, and plays a crucial role in developing and finalizing electrical systems-related project punch lists to ensure project requirements are met.

Rob's meticulous attention to detail is instrumental in achieving excellence across all project aspects.

RELATED PROJECT EXPERIENCE

- Lockheed Martin Aeronautics | R&D Laboratory and Cleanroom Project Palmdale, CA
- L3Harris LEO Aerospace | 60,000 SF | R&D and Cleanrooms | Florida
- L3Harris SAMT Aerospace | New Microelectronics Manufacturing | R&D and Cleanrooms | 60,000 SF | Florida



1.2.4 AVAILABILITY OF KEY PERSONNEL

KEY PERSONNEL AVAILABILITY OVER THE DURATION OF WORK				
Eric Marx, AIA, NCARB	Project Exectuive, Director of Design	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Steve Lovell, NCARB, LEED AP	Lead Architect	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Karen Schlesinger, RA, LEED AP	Design Project Manager	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Donna Lorenzen, PE, LEED AP	Manager of Engineering	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Omar Sheikh, PE, SE	Lead Structural Engineer	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Mark Osborne, PE, LEED AP BD+C	Lead Mechanical Engineer	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Rob O'Neil, PE, LEED AP	Lead Electrical Engineer	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Mark Osborne, PE, LEED AP BD+C	Sustainability	Austin	Irvine, CA	Available and committed throughout the duration of the project.
Jeff McClure	Estimating Manager	Austin	Irvine, CA	Available and committed throughout the duration of the project.

The Austin Company confirms the availability of key personnel over the duration of the project. This ensures that the team members have the necessary time commitment to complete the work for SOCWA successfully. During the feasibility study phase, Austin will not utilize any subconsultants for this project, at this time.





SECTION 1.2.5 PRICING

1.2.5 PRICING & HOURLY RATE SCHEDULE

Design Services Cost Summary - Scenario #1					
Description		Feasibility Study			
Description	Hours	Billing Rate \$/Hr	Total (\$)		
Sr. Principal	2	233	3 \$466		
Principal, SME, PX	4	218	3 \$872		
Sr. Project Manager	24	198	3 \$4,752		
BIM Manager	6	139	9 \$834		
Managing Architect	8	198	3 \$1,584		
Lead Architect	44	185	5 \$8,140		
Arch. Designer/Drafter	22	102	2 \$2,244		
Managing Struct. Eng.		200	5 \$0		
Lead Struct. Engineer		185	5 \$0		
Struct. Designer/Drafter		104	4 \$0		
Managing Mech. Eng.	2	200	5 \$412		
Lead Mech. Engineer	10	185	5 \$1,850		
Mech. Designer/Drafter	4	104	4 \$416		
Managing Plumb Eng.	2	200	5 \$412		
Lead Plumbing Engineer	10	185	5 \$1,850		
Plumb. Designer/Drafter	4	104	4 \$416		
Managing Elect. Eng.	4	200	5 \$824		
Lead Electrical Engineer	14	185	5 \$2,590		
Elect. Designer/Drafter	6	104	4 \$624		
Estimating	16	198	3 \$3,168		
Clerical/ Reprographics	8	8			
Accounting	4	98	3 \$392		
Total Hours:	194				
Reimbursables/ Travel			\$90		
Total Cost \$32,600			\$32,600		

AUSTIN COMPANY

SECTION 1.2.5 | PRICING & HOURLY RATE SCHEDULE

PAGE 29

1.2.5 PRICING & HOURLY RATE SCHEDULE

Design Services Cost Summary - Scenario #2			
Description	Feasibility Study		
Description	Hours	Billing Rate \$/Hr	Total (\$)
Sr. Principal	2	233	\$466
Principal, SME, PX	4	218	\$872
Sr. Project Manager	32	198	\$6,336
BIM Manager	6	139	\$834
Managing Architect	8	198	\$1,584
Lead Architect	46	185	\$8,510
Arch. Designer/Drafter	24	102	\$2,448
Managing Struct. Eng.	4	206	\$824
Lead Struct. Engineer	26	185	\$4,810
Struct. Designer/Drafter	10	104	\$1,040
Managing Mech. Eng.	4	206	\$824
Lead Mech. Engineer	26	185	\$4,810
Mech. Designer/Drafter	10	104	\$1,040
Managing Plumb Eng.	2	206	\$412
Lead Plumbing Engineer	16	185	\$2,960
Plumb. Designer/Drafter	6	104	\$624
Managing Elect. Eng.	4	206	\$824
Lead Electrical Engineer	26	185	\$4,810
Elect. Designer/Drafter	10	104	\$1,040
Estimating	24	198	\$4,752
Clerical/ Reprographics	10	83	\$830
Accounting	4	98	\$392
Total Hours:	304		
Reimbursables/ Travel			\$158
Total Cost \$51,200			· ·

AUSTIN COMPANY

SECTION 1.2.5 | PRICING & HOURLY RATE SCHEDULE

PAGE 30

1.2.5 PRICING & HOURLY RATE SCHEDULE

PRICE PROPOSAL			
Feasibility Study	SCENARIO #1		\$32,600
Feasibility Study	SCENARIO #2		\$51,200
		TOTAL	\$83,800

2024 HOURLY R	ATE SCHEDULE		
ARCHITECTURAL, ENGINEERING, AND PROJECT MANAGEMENT SERVICES			
The hourly rates for each billing clo	ssification are listed below.		
MANAGEMENT			
Senior Principal	233.00		
Principal, SME, PX	218.00		
Senior Project Manager	198.00		
Project Manager	187.00		
BIM Manager	139.00		
Project Coordinator	146.00		
ARCHITECTURAL			
Managing Architect	198.00		
Lead Architect	185.00		
Senior Architect	158.00		
Architect / Lead Designer	129.00		
Designer / Drafter	102.00		
ENGINEERING			
Managing Engineer	206.00		
Lead Engineer	185.00		
Senior Engineer	158.00		
Engineer / Lead Designer	131.00		
Designer / Drafter	104.00		
TECHNICAL/SUPPORT			
Estimtator	152.00		
Administrative	98.00		
Clerical / Reprographics	83.00		



SECTION 1.2.5 | PRICING & HOURLY RATE SCHEDULE



ATTACHMENT B NON-COLLUSION AFFIDAVIT

AFFIDAVIT CERTIFYING NO CONFLICTS OF INTEREST

The undersigned declares:

I am the Vice President of The Austin Company ("Proposer"), the party making the foregoing bid.

As a California public agency, SOCWA is subject to conflicts of interest rules under the Political Reform Act ("PRA") and California Government Code Section 1090 ("Section 1090").

The PRA prohibits a public official at any level of state or local government from making, participate in making, or in any way attempt to use their official position to influence a governmental decision in which the official has a financial interest. A public official has a financial interest in a decision if it is reasonably foreseeable that the decision will have a material financial effect on the public official, a member of the public official's immediate family, or on: (a) a business in which the public official has a direct or indirect investment worth \$2,000 or more; (b) real property in which the public official has a direct or indirect interest worth \$2,000 or more; (c) any source of income of \$500 or more received within 12 months prior to the time when the decision is made; (d) a business in which the public official is a director, officer, partner, trustee, employee, or has a management position; or (e) the donor of a gift to the public official of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the public official of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision of \$250 within 12 months prior to the time when the decision is made.

Section 1090 provides that public officials and public employees may not be "financially interested" in "any contract made by them in their official capacity."

By signing below, Bidder acknowledges that it (i) has considered persons with whom it has business relationships as to the potential for such persons to have a conflict of interest, (ii) has considered the requirements and provisions of the PRA and Section 1090, (iii) certifies that it does not know of any facts which constitute a violation, or should be further investigated to prevent a violation of those provisions, and (iv) agrees that Bidder will immediately notify SOCWA if it becomes aware of any such fact at a later date.

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 March 12, 2024, at Irvine, California.

Signature:

Title: Vice President, The Austin Company



Agen	da Item	7.B .
		Budgeted: N/A
		Budget amount: N/A
		Line Item: N/A
		Legal Counsel Review: No
		Meeting Date: August 8, 2024
TO:	Board of Directors	
FROM:	Jim Burror, Acting General Manager/Director of Operations	

STAFF CONTACT: Amber Boone, Director of Environmental Compliance

SUBJECT: RESOLUTION NO. 2024-07: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE SALT NUTRIENT MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL WATER CONTROL BOARD (SDRWQCB) AND POST THE SNMP TO THE SOCWA WEBSITE.

Background:

The South Orange County Wastewater Authority (SOCWA) is a joint powers agency comprised of seven member agencies that provide recycled water and/or wastewater service in southwestern Orange County. The State Water Resources Control Board (SWRCB) 2018 Recycled Water Policy mandates the preparation of a Salt and Nutrient Management Plan (SNMP) for groundwater basins identified by the Regional Water Quality Control Boards.

The San Diego Regional Water Quality Control Board (SDRWQCB) has determined that an SNMP is required for the lower portion of the San Juan Creek Basin Watershed (Mission Viejo Hydrologic Area or HA 901.2). In response, SOCWA, in collaboration with interested stakeholders, has developed an SNMP that addresses the requirements set forth by the 2018 Recycled Water Policy. A copy of the 2024 SNMP can be found here: https://bit.ly/SOCWA 2024 SNMP

Discussion:

The primary goal of the 2024 SNMP is to:

- 1. Identify and evaluate management strategies that support the planned level of recycled water use within the SOCWA service area.
- 2. Demonstrate consistency of this planned level of reuse with the 2018 Recycled Water Policy and the San Diego Region Basin Plan.

The SNMP includes comprehensive assessments of groundwater quality, salt sources, and water quality issues within the San Juan Creek Watershed. It outlines specific management strategies, such as:

- Advanced treatment of recycled water.
- Groundwater extraction and demineralization treatment.
- Salt export via brine discharges to ocean outfalls.
- Artificial recharge of high-quality storm runoff.

The plan also includes an updated monitoring plan designed to evaluate the effectiveness of these strategies, assess compliance with Basin Plan water quality objectives, and support future water management opportunities.

The RWQCB reviewed SOCWA's 2021 SNMP and provided recommendations to address requirements from the 2018 Recycled Water Policy. The 2024 SNMP incorporates these recommendations, ensuring compliance and addressing any identified gaps.

Key Findings of the SNMP are:

- The SNMP demonstrates that recycled water use within the SOCWA service area aligns with the antidegradation requirements of SWRCB Resolution No. 68-16.

- Implementation of proposed management strategies offers the potential for groundwater quality improvement in the San Juan Creek Basin.

- The SNMP includes ongoing monitoring and reassessment provisions to adapt to future water quality and management needs.

Fiscal Impact:

The submission of the SNMP does not have direct fiscal impacts. Future management strategies and monitoring implementation may involve costs, which will be addressed in subsequent budget discussions.

Previous Board Action and Stakeholder Engagement:

On April 11, 2024, the SOCWA Engineering Committee was briefed on releasing the SNMP to the public. A 30-day comment period for comments related to the SNMP is due by May 6, 2024, to Amber Boone at <u>amberb@socwa.com</u>. Clean Water Now voiced support for the SNMP at the Engineering meeting. SOCWA staff engaged with interested stakeholders, which included comments from the SDRWQCB staff. SOCWA worked with stakeholders interested in iron, manganese, and nutrient management from future projects. SDRWQCB staff approved the updates on July 12, 2024, with an updated distribution of changes to SNMP stakeholders for review and comment. No significant comments were made. The final SNMP is provided at this link: <u>https://bit.ly/SOCWA_2024_SNMP</u>

Conclusion:

Approval of the resolution to submit the SNMP to the RWQCB is a critical step in complying with the 2018 Recycled Water Policy and ensuring the sustainable management of groundwater resources within the SOCWA service area.

Page 3 of 3

Recommendation Action: Staff recommends that the Board of Directors approve RESOLUTION NO. 2024-07: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE SALT NUTRIENT MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL WATER CONTROL BOARD (SDRWQCB) AND POST THE SNMP TO THE SOCWA WEBSITE.

Attachments:. Resolution No. 2024-07: Salt and Nutrient Management Plan (SNMP) Submittal

RESOLUTION NO. 2024-07

RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE SALT AND MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (SDRWQCB) AND POST THE SNMP TO THE SOCWA WEBSITE.

WHEREAS, the South Orange County Wastewater Authority (SOCWA) is a joint powers agency whose seven member agencies provide recycled water and/or wastewater service in southwestern Orange County;

WHEREAS, the State Water Resources Control Board (SWRCB) 2018 Recycled Water Policy requires the preparation of a Salt and Nutrient Management Plan (SNMP) for specific groundwater basins, including the lower portion of the San Juan Creek Watershed (Mission Viejo Hydrologic Area or HA 901.2);

WHEREAS, SOCWA has prepared an SNMP in collaboration with interested stakeholders to comply with the requirements of the 2018 Recycled Water Policy and address the recommendations presented by the RWQCB in their correspondence dated December 21, 2021;

WHEREAS, the goals of the SNMP are to identify and evaluate management strategies that support the planned level of recycled water use within the SOCWA service area, demonstrate consistency with the 2018 Recycled Water Policy, and ensure protection of beneficial uses of local ground and surface water resources;

WHEREAS, the SNMP includes a comprehensive assessment of groundwater quality, salt sources, water quality issues, and planned water management strategies, as well as an updated monitoring plan to evaluate the effectiveness of these strategies and compliance with water quality objectives;

WHEREAS, the SNMP outlines specific management strategies, including the implementation of water quality improvement projects, advanced treatment of recycled water, and groundwater extraction and demineralization treatment, to stabilize or improve groundwater quality in the San Juan Creek Basin;

WHEREAS, the SNMP demonstrates that planned recycled water use and water management strategies are consistent with the antidegradation requirements of SWRCB Resolution No. 68-16 and provide a framework for future groundwater quality improvement efforts; NOW, THEREFORE, the Board of Directors of the South Orange County Wastewater Authority does hereby **RESOLVE**, **DETERMINE** AND **ORDER** as follows:

- Approval of the SNMP: The Board approves the Salt and Nutrient Management Plan (SNMP) prepared by SOCWA and authorizes its submission to the San Diego Regional Water Quality Control Board (RWQCB).
- Authorization to Submit: The Interim General Manager of SOCWA, or their designee, is hereby authorized and directed to submit the SNMP to the RWQCB, post the SNMP to the SOCWA website, and to take any actions necessary to facilitate the review and adoption of the SNMP by the RWQCB.

3. **Future Actions**: SOCWA staff are directed to continue implementing and expanding existing water quality improvement strategies, monitor groundwater quality as outlined in the SNMP, and collaborate with member agencies to achieve the goals and objectives of the SNMP.

ADOPTED, SIGNED and APPROVED this 8th day of August 2024.

		SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
(Seal)		By: Chairman
		By: Secretary
	OR	
		SANTA MARGARITA WATER DISTRICT
		By: Chairman
(Seal)		
		By: Secretary
	OR	
		MOULTON NIGUEL WATER DISTRICT
		By: Chairman
(Seal)		
		By: Secretary
		Secretary

STATE OF CALIFORNIA)) ss. COUNTY OF ORANGE)

I, James L. Burror, Jr., 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. 2024-07** of said Board and that the same has not been amended or repealed.

Dated this 8th day of August 2024.

James (Jim) L. Burror, Jr., Board Secretary SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item



Board of Directors Meeting

Meeting Date: August 8, 2024

- **TO:** Board of Directors Meeting
- **FROM:** Jim Burror, Acting General Manager/Director of Operations
- **SUBJECT:** Orange County Grand Jury Report Emerging Opportunities in South County Water/Wastewater Systems

Summary:

On June 21, 2024, the Orange County Grand Jury released its report titled "Emerging Opportunities in South County Water/Wastewater Systems."

The report contains a number of references to SOCWA and contains a number of recommendations for the SOCWA Board to consider. The following are key excerpts from the report relating to the SOCWA organization:

Page 3

SUMMARY

Further, this OCGJ report delves into the interrelationship of water and wastewater in South Orange County. The OCGJ studied the South Orange County Wastewater Authority (SOCWA), one of the largest collaborations of wastewater service providers in the region. Disputes among its member agencies, including litigation, have strained relations, causing a bureaucratic entanglement that hinders operational effectiveness. Proposals and negotiations are underway that could ultimately affect the status of its members and the realignment of treatment plants serving South Orange County.

SOCWA is a long-standing joint powers authority (JPA) that shares several wastewater facilities managed through agreements that are due to expire in 2030. Its continuance as a JPA is tenuous, yet its regulatory function remains relevant. As such, the OCGJ recommends that LAFCO form a task force comprising representatives from affected water agencies to study the transformation of SOCWA and prepare a report identifying the optimal future of water and wastewater systems in South Orange County.

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Summation

The history of SOCWA shows the divergent approaches of its member agencies. While some agencies embraced long-range regional collaboration, it could be argued that smaller districts with overweighted voting authority hindered them. Past litigation among JPA members has created a legacy of distrust, and Balkanized decision-making among its governing directors. Water officials interviewed by the OCGJ clearly indicated tension among rival SOCWA members. It appears

some members are entrenched in transactional approaches aimed solely at addressing ownership, operation, and modernization of treatment plants within their own boundaries.

Water and wastewater agencies, like SOCWA, have worked together through legal agreements in the past. However, SOCWA's collaborative efforts have not always been successful which may be reflective of its JPA governing structure. Over time, changes in local support, leadership, and financial pressures have led member agencies to reconsider their involvement in the JPA.

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Wastewater Systems – Collaboration

Looking ahead, the integration of treatment plant operations and the advancement of technologies like direct potable use and desalination are key focal points. As such, the OCGJ recommends LAFCO form a task force comprising representatives of affected water districts to study the transformation of SOCWA and prepare a report identifying the optimal future of water and wastewater systems in South Orange County.

In an era of emerging opportunities, a comprehensive regional plan developed in conjunction with all stakeholders is needed for guiding future projects and addressing evolving needs. As the task force facilitator, LAFCO can also play a pivotal role in studying future consolidations and a unified regional approach to water and wastewater management and service delivery. By planning and working together, South Orange County is poised to lead the way in securing a better future for generations to come.

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FINDINGS

F3. SOCWA's member agencies have widely diverse populations, requirements, and revenues. This has led to conflicts over governance, facility operation, and control, affecting the evolving potential for wastewater reuse.

F4. There is currently no unified strategy for the future of water/wastewater provision in South Orange County.

RECOMMENDATIONS

R2. The OCGJ recommends that by January 1, 2025, LAFCO form a task force comprising representatives of affected water agencies to study the transformation of SOCWA and prepare a report on the future of water/wastewater in South Orange County. (F3, F4)

Next Steps:

California Penal Code Section 933 requires the governing body of any public agency which the Grand Jury has reviewed, and about which it has issued a final report, to comment to the Presiding Judge of the Superior Court on the findings and recommendations pertaining to matters under the control of the governing body. Such comment shall be made no later than 90 days after the Grand Jury publishes its report (filed with the Clerk of the Court).

There are at least a number of potential options for the SOCWA Board to consider in responding to the Grand Jury report by 9/20/2024:

- 1. The individual SOCWA member agencies could respond directly to the presiding Judge of the Superior Court.
- 2. The member agencies could submit their comments to the SOCWA Board for review and consideration. After that, the SOCWA Board would provide a consolidated response to the presiding Judge of the Superior Court.
- 3. The SOCWA Board could form an Ad Hoc Committee for this response effort. The member agencies would submit their comments to the Ad Hoc Committee for review and consideration while drafting a response letter. The draft letter would then be presented to the SOCWA Board for review and consideration. After that, the SOCWA Board would provide a consolidated response to the presiding Judge of the Superior Court.

Recommended Action: Board Discussion/Direction and Action.



Emerging Opportunities in South County Water/Wastewater Systems



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SUMMARY

This Orange County Grand Jury (OCGJ) report examines the 2021 consolidation of the City of San Juan Capistrano's (SJC) water and wastewater utilities with the Santa Margarita Water District (SMWD). It sheds light on the challenges encountered and benefits achieved through consolidation. The reorganization revealed unforeseen infrastructure costs. Also, different rate structures between the combined systems resulted in a dramatic fire line service rate increase for non-residential customers that prompted protest from some of the affected ratepayers. Going forward, the lessons learned from the SMWD experience are relevant for future consolidations. Based on the findings presented in this report, the OCGJ recommends that the Orange County Local Agency Formation Commission (LAFCO) develop an ongoing practice of evaluating post-consolidation outcomes and public impacts.

Further, this OCGJ report delves into the interrelationship of water and wastewater in South Orange County. The OCGJ studied the South Orange County Wastewater Authority (SOCWA), one of the largest collaborations of wastewater service providers in the region. Disputes among its member agencies, including litigation, have strained relations causing a bureaucratic entanglement that hinders operational effectiveness. Proposals and negotiations are underway that could ultimately affect the status of its members and the realignment of treatment plants serving South Orange County.

SOCWA is a long-standing joint powers authority (JPA) that shares several wastewater facilities managed through agreements that are due to expire in 2030. Its continuance as a JPA is tenuous yet its regulatory function remains relevant. As such, the OCGJ recommends LAFCO form a task force comprising representatives from affected water agencies to study the transformation of SOCWA and prepare a report identifying the optimal future of water and wastewater systems in South Orange County.

Technologies, innovation, and increased State and federal funding are on the horizon for the water and resource recovery industry. The OCGJ finds an urgent need to unite the South Orange County water and wastewater agencies so that South Orange County is in a better position to seize the opportunities that lie ahead.

BACKGROUND

Providing water and processing wastewater in Orange County has consistently captured the public's attention. Over the past 25 years, Grand Juries have issued 15 reports addressing various water-related challenges. Many of these reports emphasize the importance of consolidating water and wastewater agencies. Orange County is home to numerous governmental entities, including special districts and JPAs that oversee an array of countywide functions, particularly those related to water and wastewater service

providers. Specifically, there are 29 retail water suppliers¹ in Orange County with their own independent governing boards and associated bureaucracies.

Previous OCGJs have raised concerns about the redundancy, laden costs, and complexity of public agencies for decades. Reports investigated the intricate web of independent special districts. Consolidating the large number of public agencies overseeing water and wastewater systems is a matter of significant concern.²

Over the past six decades, Orange County's history reflects a transformation from an agricultural hub to a thriving residential and commercial community. Rapid growth during this period caused a proliferation of water districts throughout the county. This resulted in an overabundance of water retailers operating within one of the geographically smallest counties in California.

In more recent times, water districts have found it necessary and advantageous to consolidate with other compatible public agencies. The Irvine Ranch Water District (IRWD) successfully acquired 5 water agencies in the last 27 years, with the most recent consolidation occurring in 2008.³ The latest annexation within Orange County occurred in 2021 when the Santa Margarita Water District (SMWD) acquired the water and wastewater systems of the City of San Juan Capistrano (SJC) through annexation.

Additionally, the potential consolidation of Orange County Water District (OCWD) and Municipal Water District of Orange County (MWDOC)—the county's two major water wholesalers—is currently under review by the Orange County LAFCO. This is highlighted in the 2021-2022 OCGJ report titled "Water in Orange County Needs One Voice."⁴

Advancing technology has made wastewater a sought-after commodity essentially adding to the water supply. In the realm of Orange County wastewater, there are two main wastewater service providers: the Orange County Sanitation District (OCSAN) and SOCWA. Both handle regional wastewater collection and treatment within their respective areas. Despite providing similar services, they operate under different governance structures. OCSAN is a special district, while SOCWA operates as a JPA. OCSAN serves 25 agencies covering north and central Orange County, totaling 2.5 million residents, while SOCWA currently represents 7 water and sewer agencies in South Orange County, serving approximately 600,000 residents. (See figures 1 and 2)

¹ Retail water suppliers provide potable municipal water to more than 3,000 end users or supply more than 3,000 acre-feet of potable water annually at retail for municipal purposes. (Cal. Water Code § 10608.12.)

² 2011-2012 Orange County Grand Jury report titled "<u>Dragging Special Districts from The Shadows</u>" ³ <u>Consolidations (irwd.com)</u>

 ⁴ 2021-2022 Orange County Grand Jury report titled "Water in Orange County Needs One Voice" <u>https://www.ocgrandjury.org/sites/jury/files/2023-06/2022-06-</u>
 22 Water in Orange County Needs One Voice.pdf

	OCSAN	SOCWA
Services	Regional wastewater	Regional wastewater
	collection and treatment	collection and treatment
Governing Structure	Special District	JPA
Agencies Served	25 agencies covering North and Central Orange County	7 water and wastewater agencies covering South Orange County
Funding	Property taxes, utility bills, grants and loans	Directly from member agencies. (no taxing authority)
# Residents Served	~2.5 million	~600,000

Orange County Wastewater Agencies

Figure 1-Wastewater Agencies



Water Agencies in South Orange County

Figure 2

Courtesy of SOCWA

Note: Santa Margarita Water District annexed the City of San Juan Capistrano Utilities in 2021. Laguna Beach County Water District serves the City of Laguna Beach and the Emerald Bay Service District.

REASON FOR THE STUDY

The public is generally unaware of the intricate processes and unseen operators who control the flow of their household water and sewage. However, the public has recently become keenly aware of rising utility bills. Media coverage has highlighted various water agencies raising rates to address escalating water costs, aging infrastructure, lack of upgrades, and deferred maintenance. The condition of water and wastewater infrastructure must be regularly assessed for an effective capital improvement program to maintain optimum performance.⁵ A recent example is the proactive April 16, 2024 "Huntington Beach Water/Wastewater Rate Report" proposal needed to ensure reliable water and wastewater systems through 2040.⁶ Over the past few years, several water agencies across Orange County have faced backlash from ratepayers for massive hikes to cover such expenses.

In 2023, public attention was drawn to the aftermath of the SMWD's 2021 annexation of the SJC water systems. Media reports cited SMWD officials claiming neglect under prior SJC management. News coverage also focused on proposed rate increases so excessive that they generated protests from some of the most severely impacted customers. This being the most recent water systems consolidation, OCGJ was curious about the overall process, pre-existing condition of city's water systems, and reasons underlying these major rate differences.

Additionally, with an interest in regional water matters, the OCGJ decided to extend its scope and examine the broader network of water and wastewater entities in South Orange County. The OCGJ identified a group of major water/wastewater providers that, through a long-standing JPA, manage and provide regional collection and treatment of wastewater to support their respective service areas. The OCGJ then undertook an investigation to assess the governance structure and operational effectiveness of this collaborative legal network. The OCGJ was particularly interested in the interrelationship of these water and wastewater providers and the prospect of future consolidations in South Orange County.

METHOD OF STUDY

The OCGJ conducted interviews with key personnel, attended tours, observed meetings, and reviewed documents relevant to the topic. Research focused primarily on public agencies serving South Orange County.

⁶ <u>Huntington Beach Water / Wastewater Rate Report.</u> <u>https://huntingtonbeach.legistar.com/View.ashx?M=F&ID=12846347&GUID=CF0B144A-8C49-4FFE-BC0F-EADFC70C317C</u>

⁵ <u>Capital Improvement Program, https://efc.sog.unc.edu/resource/capital-planning-resources-for-water-and-wastewater-utilities/</u>

Interviews:

- Shea Therapeutic Riding Center
- City of Laguna Beach
- ATS Financial Services
- City of San Clemente
- City of San Juan Capistrano
- South Coast Water District
- Santa Margarita Water District
- Moulton-Niguel Water District
- Irvine Ranch Water District
- Laguna Beach County Water
 District

Site Visits:

- Orange County Emergency Operating Center at Loma Ridge
- Orange County Sanitation District
- Santa Margarita Water District
- Irvine Ranch Water District
- San Clemente Public Works Department
- South Coast Water District
- South Orange County Wastewater Authority
- Coastal Treatment Plant

Meetings:

- LAFCO
- Municipal Water District of Southern California

Documents and Websites Reviewed:

- Previous Grand Jury reports
- M1 Manual-Association of California Water Agencies the *Manual of Standard Practices* by the American Water Works Association
- Websites, staff reports, agendas, and meeting recordings for water agencies in South Orange County
- Review of applicable State and local laws and regulations
- Local news articles and reports
- 2023-2024

- Municipal Water District of Orange County
- Trabuco Canyon Water District
- El Toro Water District
- South Orange County Wastewater Authority
- Orange County Water District
- Orange County LAFCO
- Berkson Associates Consulting
- Emerald Bay Service District
- Municipal Water District of Orange County
- Orange County Water District
- Moulton Niguel Water District
- Laguna Beach County Water District
- JB Latham Treatment Plant
- City of Laguna Beach Public Works
- El Toro Water District
- Robert B. Diemer Treatment Plant
- OCWD Water Summit
- Water Advisory Committee of Orange County (WACO)

INVESTIGATION AND ANALYSIS

WATER SYSTEMS – THE CONSOLIDATION PROCESS

Case Study: City of San Juan Capistrano and Santa Margarita Water District

The City of San Juan Capistrano's (SJC) water utilities transfer offers an insightful case study highlighting the challenges and benefits with consolidating its municipal water systems with the Santa Margarita Water District (SMWD). Records dating back to 2000 reveal a decades-long struggle marked by local political tensions, financial strain from ratepayer lawsuits, deferred maintenance, and insufficient capital reinvestment in the water system. These factors, compounded by a reluctance to adjust rates to cover ongoing water costs, culminated in a critical junction where the city eventually found itself seeking a more capable water provider to assume control of its water systems.

In the pivotal year of 2011, the financial hardships plaguing SJC intensified. A series of multimillion dollar lawsuits led to a substantial decrease in the city's bond rating, creating an additional \$7.5 million deficit in the city's budget. Faced with this fiscal crisis, the city resorted to extreme budgetary measures with city-wide cutbacks affecting the utility sector.

This financial rollercoaster persisted through Fiscal Years 2012 to 2014, until 2015 delivered yet another major economic hit. There was an unfavorable Court of Appeal's decision in a lawsuit concerning the City's billing rate system that impacted affluent and high-water users. It mandated an additional \$4.1 million refund, exacerbating the City's already precarious financial state.⁷ It was at this point, in 2015, that the City began to explore divesting its water and wastewater utilities. By August 2016, the City took a decisive step by filing an application with Orange County LAFCO to conduct a focused Municipal Service Review (MSR). The purpose was to explore the potential transfer of its water and wastewater operations and facilities to a public successor agency.

LAFCO's Regulatory Role: Municipal Service Reviews

LAFCOs are independent regulatory commissions throughout California that were created by the legislature in 1959 and are charged with controlling and adjusting the boundaries of cities and most special districts in all 58 counties. (See Cal. Gov. Code §§ 56001, 56325.) Besides regulating local government boundaries, LAFCOs play an important role in evaluating municipal services within their counties and making recommendations for improvements. LAFCOs review and update the designated sphere of influence for each city and special district under their jurisdiction. Prior to establishing or updating a sphere of influence, LAFCO must perform a special MSR. MSRs are comprehensive studies to determine the adequacy of governmental services being provided by the local agencies under LAFCO jurisdiction. MSRs can be conducted

⁷ Meghann M Cuniff, "San Juan Capistrano to pay \$4.1 million to refund customers for illegal water rates" *Orange County Register*, June 18, 2015.

individually for specific cities or districts, covering all services, or on a county-wide or regional basis focused on specific services.

As the local regulatory agency, Orange County's LAFCO was tasked with reviewing the annexation proposal submitted by SJC and analyzing the financial suitability and operational capability of potential public successor agencies. On October 10, 2018, LAFCO issued its Focused MSR,⁸ which assessed the SJC's utilities and identified potential successor public agencies to assume their operations.⁹ This report held significant weight in the City's search for a solution to off-loading its distressed assets.

The MSR identified three interested special water districts for further consideration: South Coast Water District (SCWD), Santa Margarita Water District (SMWD), and Moulton Niguel Water District (MNWD). Notably, the report underscored that all three potential agencies were generally better positioned than the city to provide water and sewer services to the community,¹⁰ thus marking a turning point in SJC's search for a viable solution to its long-standing water system challenges.

Following presentations from three qualified special districts and input from the public, SJC selected SMWD on February 19, 2019, for further discussion on the transfer of the City's water and sewer utility systems. The City Council's rationale for this decision was based on the potential for an economy of scale, enhanced operations, infrastructure improvements, and stabilized utility rates for its ratepayers.¹¹ Subsequently, on January 21, 2020, the City unanimously approved the annexation agreement with SMWD¹² and in late winter of 2020, SMWD filed an annexation application with LAFCO.¹³ As part of the process, SMWD submitted a Plan of Service proposing enhanced efficiency and cost-effective delivery of services to the affected ratepayers.¹⁴

On August 19, 2021, LAFCO approved the SMWD annexation of SJC's water and wastewater utilities, citing such benefits as stabilization of rates and immediate, long-term improvements of both utilities.¹⁵ SMWD assumed operational control of the City's water systems on November 15, 2021¹⁶, designating the area formerly serviced by the

⁸ FOCUSED MUNICIPAL SERVICE REVIEW (oclafco.org)

⁹ Orange County Local Agency Formation Commission Agenda Report Proposed "Santa Margarita Water District Annexation of the City of San Juan Capistrano Water and Wastewater Utilities" August 19, 2021, p. 1.

¹⁰ *Ibid.* pp. 1-2.

¹¹ Ibid.

¹² San Juan Capistrano City Council Meeting Minutes dated January 21,2020, p. 4.

¹³ Santa Margarita Water District Letter to Local Agency Formation Commission, Orange County Subject: City of San Juan Capistrano Potable Water, Recycled Water, and Wastewater Utilities – Santa Margarita Water District's Plan of Service and Application Form, December 23, 2020, pp. 1-2.

¹⁴ Ibid.

¹⁵ Orange County Local Agency Formation Commission Agenda Report Proposed "Santa Margarita Water District Annexation of the City of San Juan Capistrano Water and Wastewater Utilities" August 19, 2021, pp. 21-22.

¹⁶ FAQs • Why does SMWD want to take over San Juan Capistrano's Water and Wastewater service from the City? https://www.smwd.com/faq.aspx?qid=180

SJC as Improvement District 9 (ID 9), distinct from SMWD's Improvement Districts 1 through 8.¹⁷

In May 2023, SMWD issued a Cost of Service and Rate Study concerning ID 9 that focused on determining rates necessary to cover water service costs as required by the California Constitution under Proposition 218.¹⁸ The study found 135 prominent ratepayers, including shopping centers, industrial buildings, schools, churches, and a major non-profit, that would be significantly impacted by the proposed monthly rate increases,¹⁹ specifically for their fire service lines. For instance, businesses faced increases from nearly \$9,700 to over \$14,000 annually for fire service lines, a result of SMWD's new rate methodology based on capacity. In contrast, residential lines saw more modest increases of no more than \$30 a month.²⁰

SMWD responded to the rate increase concerns by sending out required notices to new ID 9 ratepayers and met with those severely impacted. The proposed rate increases were publicized by local media, leading to protests from some affected ratepayers. At a July 12, 2023, public hearing on proposed rates, SMWD staff highlighted the City's deferred maintenance of infrastructure, and the lack of rate increases since July 2018. They argued that the increases were necessary to align ID 9 with the rest of the district. Protesting ratepayers claimed the proposed rate hikes were unjust. One ratepayer hired a consultant to evaluate the SMWD rate study. Thirteen water districts in Orange and Riverside Counties were included in the investigation. The rate methodology employed in the SMWD Cost of Service and Rate Study was not used in any of the 13 districts that were studied.²¹

In response to this feedback, SMWD's Board of Directors voted to continue the meeting to August 2, 2023. On that date, the Board approved ID 9 water rate increases proposed by staff, except for the capital charge component for fire meter owners. Additionally, the Board ordered a new Cost of Service and Rate Study for all districts within SMWD to be completed by June 30, 2024.

 ¹⁷ https://www.smwd.com/DocumentCenter/View/4247/SMWD-ID-9-Cost-of-Service-and-Rate-Study p.3.
 ¹⁸ *Ibid.*

¹⁹ Santa Margarita Water District Memorandum to: Board of Directors From Daniel Ferons, Erica Castillo Subject: Public Hearing on Proposition 218 Rate Structure; and Consideration and Action on Adoption of Resolution No. 2023-07-01 Adopting Adjustments in its Potable Water, Recycled Water, and Wastewater Service Charges and Water Shortage Contingency Rates for Improvement District No. 9 (San Juan Capistrano) Agenda Packet July 12, 2023, p.7.

²⁰ Brandon Pho, Noah Biesiada, San Juan Capistrano Businesses Shocked over Staggering Proposed Water Bill Hike, <u>Voice of OC</u>, June 22, 2023.

²¹ Findings Report, ATS Financial Services, July 6, 2023 "Analysis of ID 9 (SJC) of the SMWD Cost of Service and Rate Study and Proposed Rate Adjustments."

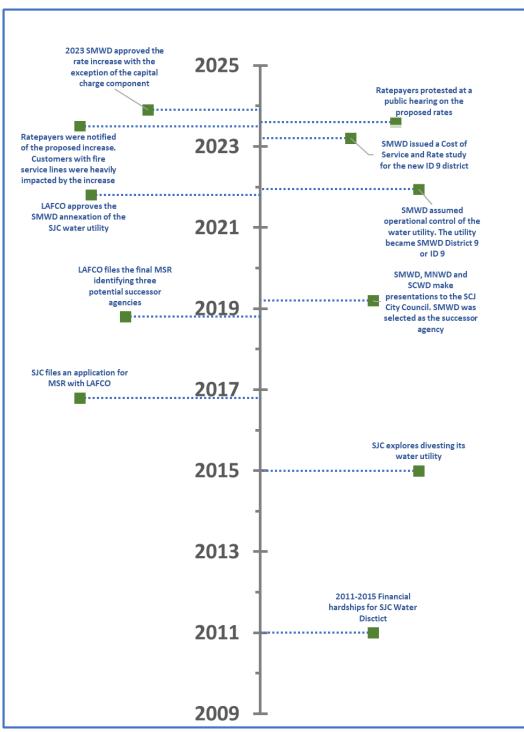




Figure 3

Summation

Although initial rate increases drew some criticism from the community, after the consolidation, the average monthly residential rate went up \$30. Overall, the SMWD consolidation signaled a positive direction for SJC's water future. Since the transfer, new SMWD customers have generally expressed satisfaction with their new provider's service and water quality, as reflected in polls and customer surveys.²² Additionally, SMWD is actively addressing deferred maintenance needs and making necessary infrastructure capital improvements neglected over time. Also, customer rates for ID 9 are on schedule to be consistent with the entire district by 2030.²³

The case of the SJC's water systems having undetected deficiencies underscores the need for an extensive assessment of the utilities in advance of such reorganizations. Transparency and more due diligence would have mitigated some consolidation concerns and helped smooth the transition of service providers. Research also suggests the need for a more extensive analysis of rate increases for non-residential customers.

WASTEWATER SYSTEMS - REGIONAL COLLABORATION

Case Study: South Orange County Wastewater Authority (SOCWA)

SOCWA was formed in 2001 when the South East Regional Reclamation Authority, Aliso Water Management Agency, and South Orange County Reclamation Authority consolidated to meet the wastewater needs of more than 500,000 homes.

The mission of SOCWA is to collect, treat, beneficially reuse, and dispose of wastewater in a manner that protects and respects the environment; maintains the public's health; and meets local, state, and federal regulations.²⁴ (See figure 4)

SOCWA exists to handle the wastewater needs of homes and businesses throughout South Orange County. It oversees the entire process from collection to disposal, ensuring water is treated properly. Additionally, SOCWA plays an important role in producing recycled water for irrigation and commercial purposes, saving a substantial amount of domestic water annually. This translates to preserving around 1.6 billion gallons of water, equivalent to 16,259 acre-feet.

SOCWA operates in collaboration with member agencies, including local water providers and local cities. It manages various programs to fulfill the Clean Water Act and National Pollutant Discharge Elimination System (NPDES)²⁵ permit requirements. It also operates two ocean outfalls and three wastewater treatment plants. The facilities

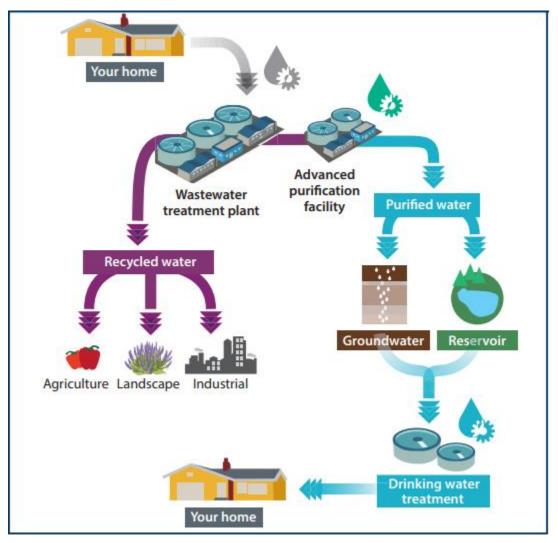
²² <u>One Year Later: A Look at Santa Margarita Water District's Acquisition of San Juan Capistrano's Water</u> <u>Utilities | Eye on SJC | picketfencemedia.com.</u>

²³ Ibid.

²⁴ Ibid.

²⁵ National Pollutant Discharge Elimination System (NPDES) | US EPA

owned and/or operated by SOCWA include the Coastal Treatment Plant located in the City of Laguna Beach, the JB Latham Treatment Plant located in the City of Dana Point, and the Regional Treatment Plant located in the City of Laguna Niguel. Together these three plants provide regional collection and treatment to approximately one third of the County's population.



Wastewater Purification and Recycling

Figure 4

Source: sdcwa.org waternewsnetwork.com

Joint Power Authority: Governing Structure

SOCWA is a JPA originally founded by 10 member agencies consisting of local water and service districts and cities. A JPA is a membership between two or more public agencies to jointly exercise common powers.²⁶ SOCWA currently has 7 member agencies which include two cities, four water districts, and a community services district. The four water districts in SOCWA provide sewer and water service to their customers. (See Appendices 1 and 2).

SOCWA's Board of Directors is made up of one representative from each of SOCWA's members. Each director has one vote regardless of their individual levels of contribution to SOCWA's revenues or the size of the population or territory they serve. Among other functions, the Board is responsible for approving SOCWA's budget, appointing its general manager, and taking other administrative actions. While SOCWA's Board governs matters that affect SOCWA as a whole, members enter into agreements with each other to establish project committees to serve their specific needs.²⁷

A project committee forms when members enter into agreements to share the cost of an existing SOCWA wastewater processing facility or to construct a new facility in exchange for their use of the facility for processing their wastewater products or for other purposes. By entering into these agreements, members establish a right to a certain amount of capacity in a SOCWA facility. Capacity here refers to the member's right to use the facility to process wastewater liquids and solids or to perform advanced water treatment. Project committee agreements and budgets express these capacities as a percentage of the total capacity of the facility for its different functions.²⁸

Voting at the project committee level also follows a one-member, one-vote structure. Members of a project committee vote on matters directly related to that project committee, including budgets to maintain or expand the facility. Members of project committees are bound by the terms of their agreements to pay their share of project costs. Members may only be relieved of this obligation by mutual consent of all participating members of the particular project committee.²⁹

SOCWA has no direct taxing authority, and nearly all funding for its operations comes directly from the contribution of members. SOCWA bills project committee members for their share of SOCWA's costs to construct, operate, and maintain the facilities the project committees utilize. Project committee agreements establish each participating

²⁶ <u>https://www.auditor.ca.gov/reports/2017-113/introduction</u>.

²⁷ Ibid.

²⁸ Ibid.

²⁹ Ibid.

member's share of operation and maintenance costs and capital costs generally based on the member's level of usage or capacity rights.³⁰

SOCWA: Disputes and Succession

In May 2017, SOCWA, along with three of its members, filed a lawsuit alleging that one of its members – Moulton Niguel Water District (MNWD) had failed to pay its contractual share of project costs for the Coastal Treatment Plant (CTP).³¹ MNWD entered into a project committee with the City of Laguna Beach, SCWD, and Emerald Bay Service District (EBSD) in 1999 to use CTP's capacity to process up to 1.96 million gallons per day (MGD) of its wastewater products. In response, MNWD stated it no longer used any of its contractual capacity to CTP and filed an answer and cross-complaint in August 2017 alleging fiscal mismanagement, fiscal improprieties, and poor retention of financial records on the part of SOCWA.³²

In March 2018, the California State Auditor released its audit report (SOCWA State Audit Report)³³ concerning the financial management practices and governance structure of SOCWA. It found that the elements of SOCWA's governance structure were generally similar to that of other wastewater and water JPAs in California. The report found evidence of financial mismanagement and inadequate record keeping but indicated that SOCWA had taken steps to correct its fiscal and record keeping practices. In response to the audit SOCWA agreed to the recommendations contained in the report.³⁴

In February 2019, the Riverside Superior Court issued its tentative ruling holding that MNWD was legally obligated to pay its proportional share of all costs, including capital costs and items necessary to maintain and operate the Coastal Treatment Plant until February 19, 2030 when the CTP project agreement ended.³⁵ In May 2019, SOCWA, MNWD, SCWD, EBSD, and the City of Laguna Beach issued a public statement regarding the litigation on the coastal treatment plant, and that the parties had agreed to resolve their differences on mutually agreeable terms.³⁶

On August 9, 2023, LAFCO issued its MSR Sphere of Influence Reviews covering the Southwest Region (OCLAFCO SW MSR).³⁷ It identified all agencies in the region that receive wastewater services in some capacity from SOCWA. Services provided by SOCWA generally fit into two areas:

³⁷https://oclafco.org/wp-content/uploads/2024/01/OCLAFCO_Southwest_MSR - Final_8.28.23.pdf

³⁰ <u>https://www.auditor.ca.gov/reports/2017-113/introduction</u>.

³¹ Ibid

³² Ibid.

³³ https://www.auditor.ca.gov/reports/2017-113/summary.html

³⁴ https://www.auditor.ca.gov/reports/2017-113/response.html

³⁵ https://www.ocregister.com/2019/02/27/judge-rules-on-2-million-dispute-over-orange-county-sewage-plant/

³⁶ https://www.ocregister.com/2019/05/20/moulton-niguel-water-district-agrees-to-pay-4-8-million-in-wastewater-dispute/

- 1. Permitting and regulatory support for the operation of all wastewater treatment plants in south Orange County
- 2. Operation of three wastewater treatment plants

The MSR also noted the SOCWA's JPA agreement previously included ten agencies but had recently been reduced to seven voting members including the El Toro Water District (ETWD), MNWD, SCWD, EBSD, the City of Laguna Beach, SMWD, and the City of San Clemente. As of July 1, 2023, the following three agencies were no longer members of SOCWA: Irvine Ranch Water District (IRWD), Trabuco Canyon Water District (TCWD), and SJC. San Juan Capistrano's wastewater services and infrastructure were assumed by SMWD through an annexation to the district in 2021 and TCWD and IRWD had arranged for former SOCWA services to be provided through other means.³⁸

The MSR stated SOCWA staff were aware of the evolving issues regarding SOCWA's management, purpose, and structure, and had hired a facilitator at the request of SCWD to assist in moving the discussion forward. Additionally, SOCWA staff noted that the agencies have full authority to make any changes they desire to the JPA agreement, provided they get the appropriate majority.

The MSR further noted within SOCWA there are numerous shared facilities for wastewater collection and treatment. These are managed by SOCWA through separate project agreements or committees among various member agencies. Many of these agreements predate SOCWA and are due to expire in 2030. MNWD had expressed strong interest in assuming the operational responsibility of one of SOCWA's regional facilities, the Regional Treatment Plant. In its justification, MNWD saw a potential benefit if several of SOCWA's assets were operated by each member agency. In their view, which was shared by SMWD, SOCWA is not structured to meet the wastewater service needs of some member agencies and should focus on providing enhanced permitting and regulatory compliance support for the SOCWA member agencies.

The MSR found that SCWD had expressed a strong interest in preserving the existing structure of SOCWA while also expressing openness to evaluating the agreements for efficiency and improvement. The other agencies reviewed in the MSR did not express similar interest in a reexamination of the SOCWA arrangements, nor did they share any complaints or concerns about SOCWA's service level. While they did not express a desire to advance these ideas during the MSR process, they stressed their openness to reevaluating the project agreements as they approach their respective expiration dates. After the MSR, SOCWA members conducted facilitator directed meetings to address member concerns.

At the Board of Directors meeting on March 7, 2024, SOCWA presented a \$20 million buyout proposal to transition the Regional Treatment Plant to MNWD and other

³⁸ Ibid

considerations to facilitate MNWD's withdrawal from SOCWA.³⁹ The proposed agreement will become effective on June 30, 2024, and is contingent on several conditions including the required unanimous vote of all SOCWA members to authorize MNWD's withdrawal from SOCWA.⁴⁰

On May 1, 2024, a special meeting was held to address the March 7, 2024, proposal to transition the Regional Treatment Plant to MNWD and to facilitate MNWD's withdrawal from SOCWA. There was unanimous approval of the proposal in principle with members set to return to their respective boards for official approval by June 1, 2024.

The steps ahead are to continue negotiations and require MNWD to provide its official response. If consensus is reached, then terms and conditions would be laid out to adopt the necessary amendments to various JPA agreements and Project Committee agreements. MNWD would need to develop and adopt an agreement with SCWD, EBSD, City of Laguna Beach, and ETWD for handling solid waste. Treatment, conveyance, and outfall agreements would need to be developed and adopted between SOCWA and MNWD.

Lastly, upon MNWD's withdrawal from SOCWA, and after the buyout payment, the transfer of the Regional Treatment Plant and its operation to MNWD would be complete.

Summation

The history of SOCWA shows the divergent approaches of its member agencies. While some agencies embraced long-range regional collaboration, it could be argued that smaller districts with overweighted voting authority hindered them. Past litigation among JPA members has created a legacy of distrust, and Balkanized decision-making among its governing directors. Water officials interviewed by the OCGJ clearly indicated tension among rival SOCWA members. It appears some members are entrenched in transactional approaches aimed solely at addressing ownership, operation, and modernization of treatment plants within their own boundaries.

Water and wastewater agencies, like SOCWA, have worked together through legal agreements in the past. However, SOCWA's collaborative efforts have not always been successful which may be reflective of its JPA governing structure.⁴¹ Over time, changes in local support, leadership, and financial pressures have led member agencies to reconsider their involvement in the JPA.

³⁹ https://www.socwa.com/event/board-of-directors-meeting-3-7-2024/?instance_id=716

⁴⁰ https://www.socwa.com/wp-content/uploads/2023/12/7f-2024-03-06-SOCWA-Proposal-to-Transition-RTP-to-MNWD.pdf

⁴¹ Trish Cypher and Colin Grinnell, "Governments Working Together: Citizen's Guide to JPAs" (California State Legislature, 2007).

It was evident from the SOCWA special meeting of May 1, 2024, that leaving a JPA can be complicated.⁴² SOCWA started with 10 members but is now down to 7, and negotiations are ongoing for yet another member to leave. Now, SOCWA needs new agreements to govern its operations going forward. This leaves uncertainty about SOCWA's future beyond the expiration of its original contracts in 2030. However, with California's ocean discharge regulations being so extensive, JPA members have expressed support for SOCWA to continue in some form to handle permitting as well as other regulatory support functions within its purview.

THE PATH FORWARD

Water System - Consolidations

Consolidating, restructuring, or merging agencies is a function of assessing the costs and benefits regarding safety, security,⁴³ reliability, financial and operational efficiencies, and economies of scale, versus the attraction of local control. A thorough assessment of this "balancing act" will benefit future generations of Orange County residents.

South Orange County is served by ten water providers in jurisdictions ranging in size from 540 customers in EBSD to 116,000 customers in IRWD (Appendices 1 and 2). To advance consolidations, over the past decade the State of California has developed financial incentives for larger water systems to absorb small systems, introduced new authorities to mandate consolidation under specific circumstances, and invested significantly in technical assistance resulting in over 200 completed projects throughout the State with more underway.⁴⁴ Interviews identified the benefit of having a single entity to discuss the optimal management/structure of water, wastewater, and reuse operations with a common vision for the future of Southern Orange County.

In recent years, water districts have experienced the benefits of consolidation with one another, as evidenced by IRWD. It has successfully acquired five other agencies over the past twenty-seven years, including the Santa Ana Heights Mutual Water Company in 1997, Carpenter Irrigation District in 2000, Los Alisos Water District in 2001, Santiago County Water District in 2006, and the Orange Park Acres Mutual Water Company in 2008.⁴⁵

Irvine Ranch Water District's process involves a selective approach, emphasizing efficiencies and mutual benefits. It begins with a consolidation request to IRWD from the prospective water agency, followed by mutual agreement on terms, and then an application to LAFCO for their evaluation. Irvine Ranch Water District has a proven track

⁴⁴ Luskin Center for Innovation, Trends in California Water Systems Consolidation (December 2023) Policy-Brief-Trends-in-California-Water-Systems-Consolidation.pdf (ucla.edu)

⁴² https://www.socwa.com/wp-content/uploads/2023/12/7f-2024-03-06-SOCWA-Proposal-to-Transition-RTP-to-MNWD.pdf

⁴³ EPA warns of increasing cyberattacks on water systems | AP News

⁴⁵ Consolidations (irwd.com) https://www.irwd.com/about-us/consolidations

record since 1997 of having successfully unified five providers benefitting 57,000 residents with improved water reliability and standardized rates. With extensive cash reserves, IRWD is poised to maintain and enhance its water systems over the next fifty years.

It is evident that past consolidations among water agencies have yielded positive outcomes by enhancing efficiencies and fostering mutual benefits through shared expertise and resources. With the multitude of water districts and the risk of financial strain comparable to SJC, future consolidations are not just probable but beneficial. Hence, it is imperative to draw lessons from past experiences. By reviewing the issues and concerns encountered by SMWD and by adopting the strategies employed by IRWD, there is an opportunity to improve the process for future consolidations (Appendices 1 and 2).

Wastewater Systems - Collaboration

In South Orange County, collaboration among water and wastewater providers can drive positive changes for the region's future. Despite past challenges posed by differing governing boards and environmental perspectives across separate jurisdictions, officials have shown the willingness to unify and address shared concerns. The future of SOCWA involves reorganizing the structure so that it can resolve the operational issues of treatment plants. This allows major water agencies to focus on maximizing wastewater reuse and to minimize ocean discharge, with the aspirational goal of zero discharge. Collaboration among all agencies operating treatment plants is paramount, to adopt a more integrated management approach.

The Moulton Niguel Water District, one of the leading service providers, has embraced a transformative drive to water management. Since 2019, MNWD has pursued federal funds to strengthen its infrastructure against seismic and severe storm damage. In 2024 the district was awarded \$10.3 million in federal grants to strengthen and improve its wastewater infrastructure. The grant is administered by the California Office of Emergency Services and funded by the Federal Emergency Management Agency (FEMA) to replace sewer lines that move more than half of all district wastewater.⁴⁶ Advocating for funding as a region to address aging infrastructure is vital to ensure the long-term sustainability of water management efforts. By working collectively towards these goals, South Orange County can lead the way in sustainable water management practices for the benefit of current and future generations.

The Mouton Niguel Water District is also working on a reverse osmosis project called OASIS (Optimal, Adaptive, Sustainable, Integrated, Supply) to receive wastewater from homes and businesses, and treat it for potable reuse. The OASIS project emerges as a beacon of innovation and sustainability, offering not only reliable water reuse but also an opportunity for education and public engagement. By demonstrating the safety and effectiveness of direct potable reuse, South Orange County can pave the way for similar

⁴⁶ <u>https://www.mnwd.com/moulton-niguel-water-district-awarded-federal-grant/</u>

projects across California. Building partnerships with neighboring regions, environmental organizations, and governmental bodies will be crucial to securing state, federal, and private funding dedicated to advancing water reuse in South Orange County, with OASIS as the flagship project, being a top priority.

Another transformative advancement is the Doheny Ocean Desalination Project, planned by the South Coast Water District as part of the Joint Regional Water Supply System. This project would create a new, local, drought-proof water supply that would provide emergency water supplies.⁴⁷ Benefits would provide a water source at a reasonable cost, up to 5 million gallons per day of drinking water and the potential for long-term regional benefits. The proposed facility would be located near Doheny State Beach in the City of Dana Point and is planned to be on-line in 2028.

Looking ahead, the integration of treatment plant operations and the advancement of technologies like direct potable use and desalination are key focal points. As such, the OCGJ recommends LAFCO form a task force comprising representatives of affected water districts to study the transformation of SOCWA and prepare a report identifying the optimal future of water and wastewater systems in South Orange County.

In an era of emerging opportunities, a comprehensive regional plan developed in conjunction with all stakeholders is needed for guiding future projects and addressing evolving needs. As the task force facilitator, LAFCO can also play a pivotal role in studying future consolidations and a unified regional approach to water and wastewater management and service delivery. By planning and working together, South Orange County is poised to lead the way in securing a better future for generations to come.

COMMENDATIONS

Irvine Ranch Water District (IRWD) - The Irvine Ranch Water District successfully acquired 5 water providers serving 57,000 residents since 1999. These consolidations provide reliable water supply at equitable rates, which are mutually beneficial to all customers.

City of San Clemente – Based on interviews and a comprehensive site visit, the OCGJ found the City of San Clemente does an excellent job in maintaining and operating its water and wastewater utility systems. This integrated system augments the City's local recycled water sources and is beneficial in reusing urban runoff and reducing biosolids.

⁴⁷ South Coast Water District, CA (scwd.org)

FINDINGS

In accordance with California Penal Code Sections 933 and 933.05, the 2023-2024 Grand Jury requires responses from each agency affected by the findings presented in this section. The responses are to be submitted to the Presiding Judge of the Superior Court.

Based on its investigation described here, the 2023-2024 OCGJ has arrived at the following principal findings:

- F1. San Juan Capistrano's deferred maintenance of the water/wastewater utility resulted in the need to transition the facility to a larger water provider to allow more efficient management and maintenance of the infrastructure.
- F2. The SMWD proposed rate increase severely impacted San Juan Capistrano's non-residential customers and led to protests of unfairness and negative attention from the local media.
- F3. SOCWA's member agencies have widely diverse populations, requirements, and revenues. This has led to conflicts over governance, facility operation, and control, affecting the evolving potential for wastewater reuse.
- F4. There is currently no unified strategy for the future of water/wastewater provision in South Orange County

RECOMMENDATIONS

In accordance with California Penal Code Sections 933 and 933.05, the 2023–2024 Grand Jury requires responses from each agency affected by the recommendations presented in this section. The responses are to be submitted to the Presiding Judge of the Superior Court.

Based on its investigation titled "Emerging Opportunities in South County Water/ Wastewater Systems," the 2023-2024 OCGJ makes the following two recommendations:

- R1. The OCGJ recommends that by January 1, 2025, LAFCO studies a policy of conducting a post-consolidation agency review to be held within 24 months of agency reorganizations to determine their overall impact on the public. (F1, F2)
- R2. The OCGJ recommends that by January 1, 2025, LAFCO form a task force comprising representatives of affected water agencies to study the transformation of SOCWA and prepare a report on the future of water/wastewater in South Orange County. (F3, F4)

RESPONSES

California Penal Code Section 933 requires the governing body of any public agency which the Grand Jury has reviewed, and about which it has issued a final report, to comment to the Presiding Judge of the Superior Court on the findings and recommendations pertaining to matters under the control of the governing body. Such comment shall be made no later than 90 days after the Grand Jury publishes its report (filed with the Clerk of the Court). Additionally, in the case of a report containing findings and recommendations pertaining to a department or agency headed by an elected county official shall comment on the findings and recommendations pertaining to the matters under that elected official's control within 60 days to the Presiding Judge with an information copy sent to the Board of Supervisors.

Furthermore, California Penal Code Section 933.05 specifies the manner in which such comment(s) are to be made as follows:

- (a) As to each Grand Jury finding, the responding person or entity shall indicate one of the following:
 - (1) The respondent agrees with the finding.
 - (2) The respondent disagrees wholly or partially with the finding, in which case the response shall specify the portion of the finding that is disputed and shall include an explanation of the reasons therefore.
- (b) As to each Grand Jury recommendation, the responding person or entity shall report one of the following actions:
 - (1) The recommendation has been implemented, with a summary regarding the implemented action.
 - (2) The recommendation has not yet been implemented, but will be implemented in the future, with a timeframe for implementation.
 - (3) The recommendation requires further analysis, with an explanation and the scope and parameters of an analysis or study, and a timeframe for the matter to be prepared for discussion by the officer or head of the agency or department being investigated or reviewed, including the governing body of the public agency when applicable. This timeframe shall not exceed six months from the date of publication of the Grand Jury report.
 - (4) The recommendation will not be implemented because it is not warranted or is not reasonable, with an explanation, thereof.

(c) If a finding or recommendation of the Grand Jury addresses budgetary or personnel matters of a county agency or department headed by an elected officer, both the agency or department head and the Board of Supervisors shall respond if requested by the Grand Jury, but the response of the Board of Supervisors shall address only those budgetary or personnel matters over which it has some decision-making authority. The response of the elected agency or department head shall address all aspects of the findings or recommendations affecting his or her agency or department.

Responses Required

Comments to the Presiding Judge of the Superior Court in compliance with Penal Code Section 933.05 are required from:

Findings – 90 Day Response Required

City of Laguna Beach	F3, F4
City of San Clemente	F3, F4
City of San Juan Capistrano	F1, F2
El Toro Water District	F3, F4
Emerald Bay Service District	F3, F4
Irvine Ranch Water District	F4
Laguna Beach County Water District	F4
Moulton Niguel Water District	F3, F4
Santa Margarita Water District	F1, F2, F3, F4
SOCWA Board of Directors	F3, F4
South Coast Water District	F3, F4
Trabuco Canyon Water District	F4

Recommendations – 90 Day Response Required

Orange County LAFCO Board of Commissioners	R1, R2
City of Laguna Beach	R2
City of San Clemente	R2

El Toro Water District	R2
Emerald Bay Service District	R2
Irvine Ranch Water District	R2
Laguna Beach County Water	R2
Moulton Niguel Water District	R2
Santa Margarita Water District	R2
SOCWA Board of Directors	R2
South Coast Water District	R2
Trabuco Canyon Water District	R2

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Santa Margarita Water District Memorandum to: Board of Directors From Daniel Ferons, Erica Castillo Subject: Public Hearing on Proposition 218 Rate Structure; and Consideration and Action on Adoption of Resolution No. 2023-07-01 Adopting Adjustments in its Potable Water, Recycled Water, and Wastewater Service Charges and Water Shortage Contingency Rates for Improvement District No. 9 (San Juan Capistrano) Agenda Packet July 12, 2023:

https://santamargaritawaterdistrictca.iqm2.com/Citizens/FileOpen.aspx?Type=1&ID=16 03&Inline=True

<u>"South Coast Water District, CA." n.d. www.scwd.org.</u> <u>https://www.scwd.org/about/district_projects/doheny_ocean_desalination_project/index.php.</u>

"South Orange County Wastewater Authority (SOCWA) Proposal to Transition the Regional Treatment Plant (RTP) to Moulton Niguel Water District (MNWD) & Facilitate MNWD'S Withdrawal from SOCWA." n.d. <u>https://www.socwa.com/wp-</u> <u>content/uploads/2023/12/7f-2024-03-06-SOCWA-Proposal-to-Transition-RTP-to-</u> <u>MNWD.pdf</u>

State Water Resources Control Board Consolidation Steps (SWRC) <u>SWRCB</u> <u>Consolidation Steps</u>

US EPA. 2019. "National Pollutant Discharge Elimination System (NPDES) | US EPA." US EPA. August 27, 2019. <u>https://www.epa.gov/npdes</u>

Water Advisory Committee of Orange County WACO

"Water & Sewer Rate Adjustment." n.d. Accessed May 27, 2024. https://huntingtonbeach.legistar.com/View.ashx?M=F&ID=12846347&GUID=CF0B144A -8C49-4FFE-BC0F-EADFC70C317C.

GLOSSARY

Acre-foot - A unit of measure used to calculate volumes of water. One acre-foot equals the volume of water that would cover an acre of land at a depth of one foot.

AWWA - American Water Works Association is a non-profit organization. Its mission is to improve water quality and supply.

Desalination - A process that removes salt and other minerals from water.

ISDOC - Independent Special Districts of Orange County is an association that advocates for Orange County's independent special districts.

JPA - Joint Powers Authority is a membership between two or more public agencies to jointly exercise common powers.

LAFCO - Local Agency Formation Commission is a countywide commission, required in each California county. LAFCO's powers include approving, establishing, expanding, reorganizing, and, in limited circumstances, dissolving cities and special districts.

MSR - Municipal Service Review is a comprehensive analysis conducted by LAFCO to assess the performance of municipal services within a specific geographic area.

NPDES - National Pollutant Discharge Elimination System

OASIS - A initiative for advanced integrated water management started by MNWD. (Optimal, Adaptive, Sustainable, Integrated, Supply)

OCSAN - Orange County Sanitation District provides wastewater collection, treatment, and recycling North and Central Orange County.

Potable Water - Water that is suitable for human consumption.

Recycled Water - Wasterwater that has been treated (filtered and disinfected). It is used as irrigation for golf courses and parks.

Special District - A local government entity that was created to provide a specific public service. Examples are water service, cemetaries and fire protection.

SOCWA - South Orange County Wastewater Authority is a Joint Powers Authority with seven member agencies, consisting of local retail water agencies and cities that provide

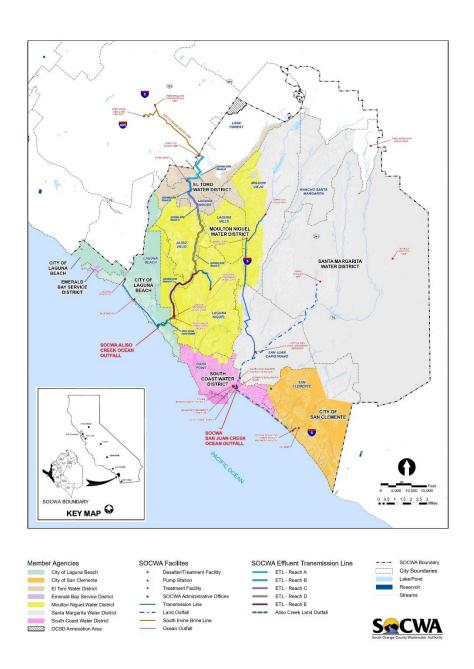
water to their residents. SOCWA manages the collection, transmission, treatment, and disposal of wastewater across South Orange County.

WACO - Water Advisory Committee of Orange County

APPENDICES

APPENDIX 1

South Orange County Water Resource Agencies



Orange County Grand Jury

APPENDIX 2

Location	Туре	Established	Services	socwa Member	Water Lines (Miles)	Sewer Lines (Miles)	Sewage Treatment Plants	Residents Served	Service Connections	Area (sq mi)	# Employees	Board / Council Members
Emerald Bay	Community											
Service District	Services		Water &									
(EBSD) *	District	1961	Sewer	Yes	6	6	0	2,000	540	1	1	5
<u>Trabuco Canyon</u> <u>Water District</u> (TCWD)	Special District	1961	Water & Sewer	No	66	45	1	14,000	4,200	13	21	5
City of Laguna	Municipal Utility	1927	Sewer	Yes	n/a	95	0	23,000	8,000	9	14	5
<u>Beach</u> Laguna Beach	Dependent	1927	Sewer	Tes	II/ d	95	0	25,000	8,000	9	14	5
County Water	Special											
District (LBCWD)	District**	1925	Water	n/a	135	n/a	n/a	25,000	8,450	9	40	5
South Coast Water District (SCWD) El Toro Water District (ETWD)	Special District	1932	Water & Sewer Water & Sewer	Yes	158	136	0	39,000	12,600	8	85	5
District (ETWD) City of San	Special District Municipal	1900	Water &	Tes	170	130	1	51,000	10,000	9	01	5
Clemente	Utility	1928	Sewer	Yes	230	162	1	64,000	17,800	19	45	5
Moulton Niguel Water District (MNWD)	Special District	1960	Water & Sewer	Yes	656	500	1	170,000	55,000	37	163	7
<u>Santa Margarita</u> <u>Water District</u> (<u>SMWD)</u>	Special District	1964	Water & Sewer	Yes	1,080	665	3	200,000	65,000	111	200	5
South Orange County Totals				7	2,501	1,767	7	588,000	181,590	216	630	47
					1,001	1,101		000,000	101,000	220	000	
Irvine Ranch Water District (IRWD)	Special District	1961	Water & Sewer	No	1,976	1,374	2	465,000	122,000	181	337	5
<u>South Orange</u> <u>County</u> <u>Wastewater</u> <u>Authority</u>	Joint Powers Authority	2001	Sewage Treatment	n/a	n/a	51	3	600,000	n/a	n/a	64	7***

Notes

Data obtained from agency websites and interviews.

South Orange County imports approximately 90% of Water from Metropolitan Water District of Southern California

 TCWD operates the only potable water treatment facility in South Orange County

IRWD Listed Separately as Majority of Customers in Central Orange County

SOCWA operates the two ocean outfalls: Aliso Creek and San Juan Creek

 $\ensuremath{^*}$ Water system operated and maintained by LBCWD

** LBCWD is a Subsidiary (Dependent) District of the City whose Council serves as the Board.

*** 7 Appointed by Member Agencies

APPENDIX 3

South Orange County Water Districts/Providers

<u>El Toro Water District</u> (ETWD) - Provides water and wastewater service in the cities of Laguna Hills, Laguna Woods, Lake Forest, Aliso Viejo, and Mission Viejo.

<u>Emerald Bay Service District</u> (EBSD) - Provides fresh water supply under contract with the Laguna Beach County Water District. Collects wastewater and transmits to Laguna Beach.

<u>Irvine Ranch Water District</u> (IRWD) - Serves Central Orange County, including the following cities: Irvine, Newport Beach, Tustin, Orange, Lake Forest, and Costa Mesa.

Laguna Beach County Water District (LBCWD) - Provides water service to portions of the city of Laguna Beach, a portion of Crystal Cove State Park, and the unincorporated community of Emerald Bay.

<u>City of Laguna Beach</u> - Provides wastewater collection and/or transmission services to the city of Laguna Beach, a portion of Crystal Cove State Park, and the unincorporated community of Emerald Bay.

<u>Moulton Niguel Water District</u> (MNWD) - Provides water and wastewater services to customers in Laguna Niguel, Aliso Viejo, Mission Viejo, Laguna Hills, and Dana Point.

<u>Municipal Water District of Orange County</u> (MWDOC) is a wholesale water provider. It purchases imported water through the <u>Metropolitan Water District of Southern California</u> (MET) and delivers this water to its 27 member agencies, who in turn, provide retail water services to the public. It is the only agency with members from all water providers in South Orange County.

<u>Orange County Water District</u> (OCWD) - Manages the ground water supply for Orange County. It is a wholesale agency.

<u>City of San Clemente</u> - Provides water/wastewater services to the residents of San Clemente

<u>Santa Margarita Water District</u> (SMWD) - Serves the cities of Mission Viejo, San Juan Capistrano, Rancho Santa Margarita, and the communities of Coto de Caza, Las Flores, Ladera Ranch, Rancho Mission Viejo, and Talega in San Clemente.

South Coast Water District (SCWD) - Serves the communities of Dana Point, South Laguna Beach, and areas of San Clemente and San Juan Capistrano.

<u>Trabuco Canyon Water District</u> (TCWD) - Serves the Communities of Trabuco Canyon, Robinson Ranch, Trabuco Highlands, Walden, Rancho Cielo, Portola Hills, Santiago Canyon Estates, and Dove Canyon.

Agenda Item

7.F.

Board of Directors Meeting Meeting Date: August 8, 2024

TO: Board of Directors

FROM: Jim Burror, Acting General Manager/Director of Operations

SUBJECT: Acting General Manager's Status Report

ADMINISTRATION

Member Agency Requests

The General Manager is directed, as of the May 10, 2022, Executive Committee Meeting, to include a summary of Member Agency Requests in the GM Report. The following requests of SOCWA staff have been received and responded to:

• Attended the All Managers meeting regarding the exit of MNWD.

RTP Records Transfer Request Process

SOCWA staff have received various requests for records related to the proposed transfer of the Regional Treatment Plant (RTP) from SOCWA to the Moulton Niguel Water District (MNWD). To accomplish these requests in a systematic manner, SOCWA staff will follow the following three-phase approach to transfer related documents and databases (records) as needed/requested to support agreement language drafting and the anticipated transfer approval.

In Phase 1, records will be identified and collected into central repositories. These will include regulatory files, contracts, HR information, accounting documents, policies and procedures, correspondence, emails, record drawings, engineering studies, safety files, etc. Staff will also identify regulatory programs that will need to be updated to remove SOCWA as the legally responsible entity and/or transfer responsibility to MNWD, including CUPA/CUPA (business emergency plan), OSHA, Occupational Lead Poisoning, utility billings, etc.

All records will be collected as follows for indexing:

- 1) Hard copy records at RTP will remain at RTP. SOCWA staff will scan copies for SOCWA's legal requirements, regulatory compliance, policies, procedures, etc.
- Hard copy records not at RTP will be collected at JBL. SOCWA staff will scan copies (suggested removal 'as needed') for SOCWA's legal requirements, compliance, SOCWA's policies and procedures, etc.
- 3) Electronic files and database exports will be placed in an indexed central repository with access identified by MNWD (OneDrive).
- 4) Employee email accounts for employees to be transferred to MNWD will be copied to the central repository for processing by MNWD's IT Department.
- 5) All transferred files provided to MNWD prior to the execution of the transfer will be included in the above groups. SOCWA staff will track their early deliveries via email. Those emails will be available upon request.

Employees will be reminded of their legal requirement not to destroy records during this process.

In Phase 2, records will be transferred in batches to MNWD based on MNWD's priorities after reviewing the index of files. During the process, SOCWA will continue to follow the 3-2-1 backup rule from the Disaster Recovery Plan. SOCWA will maintain three copies of electronic data on two different media, with one copy stored off-site. Incremental backups will continue to be performed daily, with complete backups also performed weekly.

In Phase 3, MNWD will review, verify, and certify the transfer of all records from SOCWA to MNWD. SOCWA will then place all transferred records in storage for long-term preservation to comply with SOCWA's legal requirements, regulatory compliance, policies, procedures, etc.

SOCWA staff expects electronic and hard copy records to be transferred within one month of the transfer of RTP. Other transfers of regulatory permits, service contracts, etc., may take six months or more. SOCWA staff will periodically update the Board on the status of the records transfers.

Report on Employee Reimbursements

Government Code Section 53065.5 requires that each special district disclose annual reimbursements paid of at least \$100 for individual charges for services or products received. Disclosable items include meals, transportation, lodging, and registration fees paid to board members or employees. The attached reimbursements list for FY 2023-24 meets the disclosure requirement.

ENVIRONMENTAL COMPLIANCE/ OPERATIONS/ENGINEERING

Regional Board Meeting

SOCWA staff met with Dave Gibson, Executive Officer of the San Diego Regional Water Quality Control Board, along with key staff from the Regional Board. The meeting focused on updates on the Salt and Nutrient Management Plan and questions on the governance discussion at SOCWA. Dave Gibson noted that JPAs can be problematic, but SOCWA serves as a successful example of regional cooperation.

Wastewater Epidemiology

As noted in the June 2024 GM Report, SOCWA staff was notified by Verily that the WastewaterSCAN program would officially end on June 30, 2024. However, recent interest in the use of wastewater epidemiology as an indicator of public health outbreaks has made regional news, as noted in the LA Times article: <u>https://www.latimes.com/california/story/2024-07-15/covid-levels-jump-in-california-l-a-county-wastewater</u> SOCWA reached out the Orange County Public Health Department, who pointed SOCWA staff to their website which tracks COVID cases and associated deaths that can be found here: <u>https://ochealthinfo.com/covid.</u>

SOCWA requested an updated pricing on the cost of services for continued monitoring through Verily and a private company. SOCWA will bring the pricing to the next Engineering and Finance Committee meetings for a discussion on potential budget adjustments associated with this testing.

CA-PEM Certification Obtained

"Sean Peacher of SOCWA received notification via e-mail from the California Emergency Services Association (CESA) that he passed the certification exam (CA-PEM) that he took on May 6, 2024, for the CESA Emergency Management Certification Program. CESA is a non-profit professional organization dedicated to the promotion of mutual support and cooperation across disciplines in preparing for natural and human-caused disasters and public emergencies. In 2023, CESA launched the Professional Emergency Manager certification program. Certification as a California Emergency Manager (CA-EM) or California Professional Emergency Manager (CA-PEM) demonstrates an emergency manager's knowledge, skills, and abilities as an Emergency Management professional. Furthermore, the California centric certification demonstrates an individual's command of laws, standards, and practices that are unique within the state. Sean Peacher of SOCWA successfully met the certification application requirements (including work experience, educational background, activation experience including real-world emergency response activities, completion of emergency management training courses, and completion of professional & personal development activities) required to take the Emergency Management Certification Exam and has successfully passed the 100 question Certification Exam. Sean has successfully obtained the California Professional Emergency Manager (CA-PEM), in addition to obtaining certification as a Certified Safety Professional (CSP). Sean has demonstrated that he has the knowledge, skills, and abilities required for the responsibilities associated with creating, developing, directing, implementing, managing, and coordinating SOCWA's Safety Program and SOCWA's Emergency Management Preparation/Response Program since being hired at SOCWA in 2015."

SOCWA Workplace Violence Prevention Plan

The Workplace Violence Prevention Plan (WVPP) is a new plan required of California Employers. On September 30, 2023, California Senate Bill 553 (Cortese) was signed into law, and California Labor Code section 6401.9 is now in effect and enforceable as of July 1, 2024. The SOCWA WVPP was prepared by Sean Peacher of SOCWA and was provided to SOCWA Management for review prior to being provided to SEA and OCEA for review and input on June 11, 2024. After the review period by SEA and OCEA was complete, no comments were received, and the document was executed/released to SOCWA Employees via e-mail on June 27, 2024 (prior to the July 1, 2024 deadline). Training is in the process of being provided to SOCWA Employees at safety tailgate meetings to be held at each treatment plant with the various SOCWA Departments. The SOCWA WVPP includes the following elements and procedures: Persons responsible for implementing WVPP; procedures for active involvement of employees and authorized employee representatives in developing/implementing; methods used to coordinate implementation with other employers; procedures to ensure that all employees comply with; procedures to communicate and provide employee training: procedures to identify, evaluate, and correct workplace violence hazards; procedures on how to respond to actual or potential workplace violence, and how to accept and respond to reports of workplace violence, including procedures to prohibit retaliation against employees for reporting workplace violence; procedures for post-incident response/investigation; procedures to review for effectiveness and revise as needed; procedures necessary and appropriate to protect the health and safety of employees. Contact information for response staff and local law enforcement is posted in common areas at SOCWA Facilities, including within SOCWA Administration Offices and Break Rooms at each SOCWA Treatment Plant. If there is immediate danger, call for emergency assistance by dialing 9-1-1, and then notify the WVPP Administrator as soon as possible if it is safe to do so, depending on the event. In addition to reporting directly to their Supervisor or Human Resources, SOCWA Employees can report acts of workplace violence through an anonymous hotline: SOCWA Employee Anonymous Hotline / Reporting Phone Number (posted

Acting General Manager's Status Report August 8, 2024

at SOCWA Facilities): 844-415-1404. All suspicious activity should be reported to local law enforcement or by calling 9-1-1. The Orange County Intelligence Assessment Center (OCIAC) should also be contacted to report acts of terrorism or vandalism involving SOCWA facilities (OCIAC information posted at SOCWA Facilities): OCIAC Reporting Form (online form via OCIAC website): <u>https://ociac.ca.gov/default.aspx?MenultemID=20&MenuGroup=Public+Home</u>.

JBL Centrate Construction Project

SOCWA completed the large capital project to rehabilitate the Centrate Drain at JBL. The project was completed without any change orders.

JBL Chemical Tank Replacement Project

SOCWA O&M staff completed a project to overhaul the 9-Side Chemical tank farm and pumping systems. The project included installing new RFP tanks and several pumps. The old tanks and pumps removed were over 20 years old and were failing. Staff are pictured below installing the new tanks and pumps.



REIMBURSEMENT LOG FISCAL YEAR 2023-2024							
Employee Name	Date	Ck #	Amount	Description			

Ash, Dina				
	7/17/2023	EFT	\$118.53	Ez Ups for Safety
Barajas, Christopher			·	
· · · · · · · · · · · · · · · · · · ·	7/11/2023 1	10900	\$221.00	CWEA Membership
		L0936		Safety Shoes
	6/5/2024 1			CWEA Membership
Bradley, Sean	0/5/2024	11/95	\$221.00	
Diduley, Seall	7/12/2023	10901	\$308 63	Safety Shoes
		11309		2 classes AWWT & OWTP1-C
		11479		Gr4 & 5 class
		11540		Gr 5 exam
		11665		Tertiary/Solids Classes
		11722		2 classes Small WW O&M 1 & 2
Broedner, Lance				
·	8/30/2023	11052	\$312.47	Safety Shoes
		11504		Lab Tech 2 Certification
Comia, James				
	4/24/2024	11667	\$334.00	CWEA Membership
Cotinola, Jeanette				
	8/31/2023 EI	FT	\$121.83	Mileage
	10/12/2023 EI			Mileage
	10/12/2024 EI			Lodging for NPI Conference
	12/11/2023 EI		-	Tuition Reimbursement
	2/7/2024 EI			Mileage
	2/7/2024 EI			Lodging for CAPPO Conference
	5/28/2024 EI	FT	\$121.45	Display Extender
Culver, Robert				
		11143		WEFTEC Airfare
	4/30/2024	11668	\$366.17	CWEA Airfare
DeAntonio, Nicholas	0 /22 /2022	44007	¢4.60.00	
		11097		Electrical Certificate Renewal
Canduan Dishand	12/20/2023	11351	\$221.00	CWEA Renewal
Gardner, Richard	12/2/2023 EI		Ć2E0 12	Safety Shoes
Cosiriach Cago	12/2/2023 EI		\$320.13	Salety Shoes
Gesiriech, Gage	2/14/2024	11/07	¢277 11	Safety Shoes
		11705		CWEA Renewal
Greenwood, Katie	5/7/2024	11705	J221.00	
dreenwood, katie	11/13/2024	11269	\$248.28	Uber for Training in Oakland
		11629		Airfare to Sacramento - Training
		11629		Uber for Training in Sacramento
		11747		Airfare to Pittsburgh for training
		11747		Uber for Training in Pittsburgh
		11747		Lodging in Pittsburgh for training
Hirsch, Danita				
·	11/21/2023	11296	\$130.34	Fuel for rental car for CSDA conference
Jardin, Sean				
-	7/24/2023	10909	\$400.00	Safety Shoes
		10948		Safety Glasses
Jones, James				

	REIMBURSEMENT LOG FISCAL YEAR 2023-2024							
Employee Name	Date	Ck #	Amount	Description				
	6/29/2023	10876	\$200.00	Safety Shoes				
	7/18/2023	10910	\$150.00	Grade 5 renewal				
Kallberg, Rob		-	-					
	6/21/1902	11063	\$903.76	Lodging at RIO conference				
LaRoche, Lance			-					
	8/21/2023	EFT	\$374.25	Safety Shoes				
Looska, lan								
	7/24/2023			CWEA Exam				
	7/11/2023			Safety Shoes				
	6/16/2023			CWEA Membership renewal				
	12/29/2023			CWEA Certificate renewal				
	5/24/2024	FFI	\$103.00	CWEA Electrical Certificate				
Luce, Daethina	F /22 /02 4	CCT.	6242.02	Cafety Change				
Luco Kristorber	5/23/824	EFT	\$212.92	Safety Shoes				
Luce, Kristopher	7/5/2022	CCT	¢400.00	Cofety Chooc				
Matson Michael	7/5/2023	CF	\$400.00	Safety Shoes				
Matson, Micheal	7/26/2022	10050	¢ 400 00	Safety Shoes				
Montoya, Morgan	7/26/2023	10950	\$400.00	Jaiely Shoes				
iviontoya, iviorgan	8/17/2023	11020	\$400.00	Safety Shoes				
	1/11/2023	11020		Mechanic Tech Gr 2 test				
Nuzzo, Garrett	1/11/2024	11421	\$207.00					
Nuzzo, Garrett	8/7/2023	FFT	\$384.67	Safety Shoes				
	8/7/2023			Safety Glasses				
Padilla, Derek	0/7/2024		\$205.00	Safety Glasses				
Tadilla, Derek	12/14/2023	11335	\$108.00	Grade 3 renewal				
	5/1/2024			CWEA Membership renewal				
Papas, Joshua	3/1/2021	11000	<i></i>					
1 4945) 5051144	7/24/2023	FFT	\$366.32	Safety Shoes				
Paranal, Bryan	.,,							
	10/5/2023	11134	\$103.00	CWEA Certificate renewal				
Peacher, Sean			•					
· · · · ·	8/28/2023	11041	\$104.15	Mileage				
	5/10/2024	11730		CESA Conference				
Peter, Phillip								
	2/28/2024			Safety Shoes				
	4/2/2024	11612	\$113.00	CWEA Grade 4 Certificate Renewal				
Plesa, Anthony								
	8/22/2023	11042	\$103.00	CWEA Grade 2 Certificate Renewal				
	1/16/2024	11526	\$221.00	CWEA Membership				
Reed, David								
	8/30/2023			CWEA Membership				
·	8/30/2023	11072	\$113.00	CWEA Certificate renewal				
Santos, Charles								
	7/19/2023			WIMS Conference Flight				
.	9/28/2023	EFT	\$903.76	Lodging for the Wims Conference				
Shilkov, Konstantin								
	3/26/2024			EXAM Fees BEC/CPA				
.	5/30/2024	EFT	\$304.80	EXAM Fees AUD/CPA				
Schmuch, Tristan	- 4	4	4					
	7/11/2023	10923	\$225.00	Grade 3 Certificate Fee				
Stiles, Michael								

REIMBURSEMENT LOG FISCAL YEAR 2023-2024								
Employee Name	Date	Date Ck #		escription				
	4/12/1900	11408	\$103.00	Certificate Renewal				
	3/27/2024	11620	\$221.00	CWEA Membership renewal				
Vassell, Bradley								
	9/4/2023	EFT	\$400.00	Safety Shoes				
Vincent, Kyle								
	7/3/2023	10931	\$202.00	CWEA Membership				
Wang, Katrina								
	4/18/2024	EFT	\$269.97	Airfare to CWEA Conference				
	4/18/2024	EFT	\$532.65	Lodgeing for CWEA Conference				
	4/18/2024	EFT	\$695.00	Registration for CWEA Conference				
Young, Roni								
	4/24/2024	EFT	\$389.00	RTP Lunch and Learn				
	4/10/2024		\$372.00	JBL Lunch and Learn				
	4/10/2024	EFT	\$361.00	CWEA Membership renewal				
	6/4/2024	EFT	\$130.00	CTP Lunch and Learn				