

**NOTICE OF REGULAR MEETING  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
ENGINEERING COMMITTEE  
TELECONFERENCE MEETING**

**January 12, 2023  
8:30 a.m.**

**Join Zoom Meeting by clicking on the link below:**

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Meeting ID: 893 1694 3632  
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Find your local number: <https://socwa.zoom.us/j/89316943632?pwd=ZU9kd5qAl72Hf>

NOTICE IS HEREBY GIVEN that a Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was called to be held by Teleconference on **January 12, 2023**. SOCWA staff will be present and conducting the call at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California.

*MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE IN THIS TELECONFERENCE MEETING AND MAY JOIN THE MEETING VIA THE TELECONFERENCE PHONE NUMBER AND ENTER THE ID CODE. THIS IS A PHONE CALL MEETING AND NOT A WEB-CAST MEETING SO PLEASE REFER TO AGENDA MATERIALS AS POSTED WITH THE AGENDA ON THE WEB-SITE [WWW.SOCWA.COM](http://WWW.SOCWA.COM). ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. 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 SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST DISABILITY RELATED ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.*

*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 ENGINEERING COMMITTEE IN CONNECTION WITH A MATTER SUBJECT FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE ENGINEERING COMMITTEE ARE AVAILABLE BY PHONE REQUEST MADE TO THE AUTHORITY ADMINISTRATIVE OFFICE AT 949-234-5452. THE AUTHORITY ADMINISTRATIVE OFFICES ARE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"), BUT ARE NOT OPEN TO THE PUBLIC DURING THE PERIOD OF STAY AT HOME ORDERS. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE ENGINEERING COMMITTEE LESS THAN SEVENTY-*

*TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE SENT TO PARTICIPANTS REQUESTING VIA EMAIL DELIVERY. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IMMEDIATELY ON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES.*

## AGENDA

1. Call Meeting to Order
2. Public Comments

*THOSE WISHING TO ADDRESS THE ENGINEERING COMMITTEE ON ANY ITEM LISTED ON THE AGENDA WILL BE REQUESTED TO IDENTIFY AT THE OPENING OF THE MEETING AND PRIOR TO THE CLOSE OF THE MEETING. THE AUTHORITY REQUESTS THAT YOU STATE YOUR NAME WHEN MAKING THE REQUEST IN ORDER THAT YOUR NAME MAY BE CALLED TO SPEAK ON THE ITEM OF INTEREST. THE CHAIR OF THE MEETING WILL RECOGNIZE SPEAKERS FOR COMMENT AND GENERAL MEETING DECORUM SHOULD BE OBSERVED IN ORDER THAT SPEAKERS ARE NOT TALKING OVER EACH OTHER DURING THE CALL.*

3. Operations Report

**Recommended Action:** Information Item.

4. Electric Fleet Vehicles

**Recommended Action:** Committee Discussion and Direction to Staff.

5. Historical Recycled Water Development and State Opportunities

**Recommended Action:** Information Item.

6. PC 2 Flow Budgeting [Project Committee 2]

**Recommended Action:** Staff requests to work with MNWD and SMWD to identify a time window that will work for operations to accomplish this special study prior to February 15, 2023, for use in preparation of the FY 2023-24 budget.

7. Capital Improvement Construction Projects Progress and Change Report (January) [Project Committees 2, 15 & 17]

**Recommended Action:** Staff recommends that the Engineering Committee approve the following Olsson Construction Change Order nos. 66 thru 69 for a total of \$95,220.25, with no additional days, and a revised contract value of \$18,583,464.49 for the JB Latham Package B Project.

8. JB Latham Treatment Plant Electrical System Upgrades Additional Design, Bidding and Engineering Service during Construction [Project Committee 2]

**Recommended Action:** Staff recommends that the Engineering Committee recommend that the PC 2 Board of Directors approve the contract to Hazen and Sawyer in the amount of \$112,620 for the additional design services, and bidding and ESDC services in the amount of \$164,350 for a total of \$276,970 for the JB Latham Treatment Plant Electrical System Upgrades Project.

9. Contract Award for Aliso Creek Ocean Outfall Internal Seal Replacement Engineering Services During Construction [Project Committee 24]

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC 24 Board to approve the contract to Black & Veatch in the amount of \$44,850 for the bidding and ESDC services for the ACOO Internal Seal Replacement project.

10. Coastal Treatment Plant (CTP) Funding Strategy and Implementation Plan Proposal [Project Committee 15]

**Recommended Action:** Committee Discussion and Direction to Staff.

11. Update on the Fiscal Year 2022/2023 Budget

**Recommended Action:** Information Item.

Adjournment

I hereby certify that the foregoing Notice was personally emailed or mailed to each member of the SOCWA Engineering Committee at least 72 hours prior to the scheduled time of the Regular Meeting referred to above.

I hereby certify that the foregoing Notice was posted at least 72 hours prior to the time of the above-referenced Engineering Committee meeting at the usual agenda posting location of the South Orange County Wastewater Authority and at [www.socwa.com](http://www.socwa.com).

Dated this 6th day of January 2023.



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Betty Burnett, General Manager/Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

# Agenda Item

3

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee  
**FROM:** Jim Burror, Director of Operations  
**SUBJECT:** Operations Report

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## **Overview**

Verbal update on operations and maintenance activities.

**Recommended Action:** Information Item.

# Agenda Item

# 4

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee

**FROM:** David Baranowski, Director of Engineering &  
Jim Burror, Director of Operations

**SUBJECT:** Electric Fleet Vehicles

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## Overview

The State of California is implementing several regulations to reduce air emissions from vehicles by encouraging governments to purchase electric vehicles. The fiscal year 2022/2023 budget includes funds to start electrifying the SOCWA fleet based on these regulations. Based on feedback from the Board, SOCWA will not purchase an electric vehicle this year.

As staff begin planning for the next fiscal year budget, they would like input from the member agencies about their plans to electrify their fleet. Staff requests feedback from the member agencies regarding the following questions:

1. What are your plans, if any, to convert your fleet vehicles to electric?
2. What are your plans, if any, to install electric charging stations?
3. What would you like SOCWA to do with respect to electrifying its fleet?

**Recommended Action:** Committee Discussion and Direction to Staff.

# Agenda Item

# 5

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee

**FROM:** Amber Baylor, Director of Environmental Compliance &  
Jim Burror, Director of Operations

**SUBJECT:** Historical Recycled Water Development & State Opportunities

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## Overview

Due to historic drought conditions, Governor Newsom released the California Water Supply Strategy<sup>1</sup>, in August 2022, with a goal to increase recycled water production by 800,000 AFY by 2030. To accomplish the strategic goals, a host of 'Task Forces' are being deployed to streamline the Governor's goals. SOCWA staff have been invited to discuss those opportunities to assist agencies in streamlining permitting to execute on the production of recycled water. The intent of this agenda item is to align regional goals for recycled water to meet local demand and statewide goals in an expedited manner.

## Discussion/Analysis

A presentation will be provided to discuss the strategy for regional coordination.

## Prior Related Project Committee or Board Action(s)

Agenda Item 7.D in the January 5, 2023, Board of Directors meeting, staff provided an update to the discussion with the California Association of Sanitation Agencies (CASA) and the State Water Resources Control Board on the Governor's Water Supply Task Force.

**Recommended Action:** Information Item.

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<sup>1</sup> California's Water Supply Strategy: Adopting to a Hotter, Drier Future. August 2022. Source: <https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/Water-Resilience/CA-Water-Supply-Strategy.pdf>

# Agenda Item

# 6

Engineering Committee Meeting

Meeting Date: January 12, 2023

**TO:** Engineering Committee  
**FROM:** Amber Baylor, Director of Environmental Compliance  
**SUBJECT:** PC 2 Flow Budgeting [Project Committee 2]

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## Overview

In March 2018, Santa Margarita Water District (SMWD) and Moulton Niguel Water District (MNWD) came to an agreement regarding flow allocation from the Oso-Trabuco sewer line. As staff construct budgets for FY 2023-24, this agenda item proposes to study the flow in the Oso-Trabuco line with existing meters to potentially update the flow constant.

## Discussion/Analysis

In the 2018 SMWD/MNWD memo, there was a constant of 1.4mgd of flow allocated to MNWD from the developments south of the 3A Treatment Plant (3A) which is tributary to the JB Latham Treatment facility (JBL). The 1.4mgd constant was determined by past studies conducted by MNWD. However, with water conservation and additional focus on the true amount of supply to the facilities, an updated study is requested.

SMWD can send sewer flows to 3A, JBL, the Regional Treatment Plant (RTP), the Oso Creek Water Reclamation Plant (OCWRP), or a combination of the four options. OCWRP is currently offline, which represents a unique opportunity since none of the solids from the OCWRP scalping facility will be contributing to the partial flow from SMWD. MNWD can either send flow to 3A, RTP, or JBL.

SOCWA staff requests a two-week study where all SMWD flow is sent to 3A for treatment with 3A flow either going to the outfall through secondary treatment for ocean disposal, or to a reclamation system, and no flow sent to JBL. Staff can then ascertain the flow from the developments south of 3A to be utilized in the budget for FY 2023-24.

**Recommended Action:** Staff requests to work with MNWD and SMWD to identify a time window that will work for operations to accomplish this special study prior to February 15, 2023, for use in preparation of the FY 2023-24 budget.

# Agenda Item

# 7

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee

**FROM:** David Baranowski, Director of Engineering

**SUBJECT:** Capital Improvement Construction Projects Progress and Change Order Report (*January*) [Project Committee Nos. 2, 15 & 17]

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## Overview

### *Active Construction Project Updates:*

Attached are the updated CIP reports. Please note that there are four new change orders for Olsson Construction for PC 2 JB Latham Package B project totaling \$95,220.25.

This is informational for PC 15 and PC 17 member agencies.

**Recommended Action:** Staff recommends that the Engineering Committee approve the following Olsson Construction Change Orders:

- Change Order 66 for \$9,746.81, including 0 additional day(s)
- Change Order 67 for \$8,871.74, including 0 additional day(s)
- Change Order 68 for \$57,233.12 including 0 additional day(s)
- Change Order 69 for \$19,368.58 including 0 additional day(s)

For a total of \$95,220.25, with no additional days, and a revised contract value of \$18,583,464.49 for the J.B. Latham Package B Project.

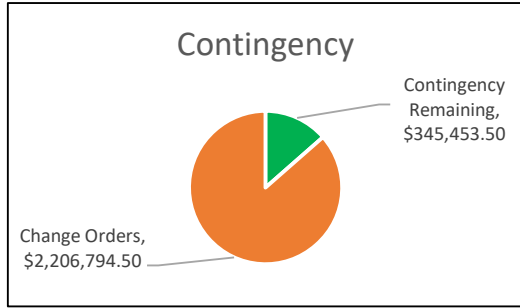
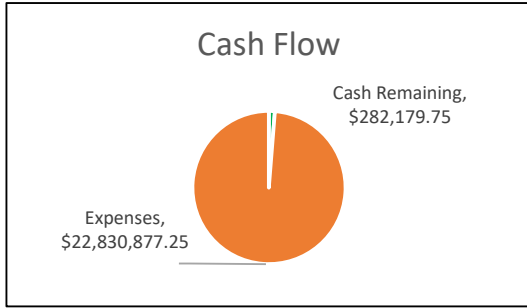


**Project Financial Status**

Project Committee	2
Project Name	Package B
Project Description	Plant 1 basin repairs, DAF rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation

**Data Last Updated**

January 3, 2023
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**Cash Flow**

Collected	\$ 23,113,057.00
Expenses	\$ 22,830,877.25

**Project Completion**

Schedule	97%
Budget	96%

**Contracts**

Company	PO No.	Original	Change Orders*	Amendments	Total	Invoiced
Olsson	13497	\$ 17,325,000.00	\$ 1,258,464.49		\$ 18,583,464.49	\$ 18,242,877.59
Butier	13647	\$ 895,727.00		\$ 1,005,251.00	\$ 1,900,978.00	\$ 1,799,107.00
Carollo	13616	\$ 846,528.00		\$ 616,037.00	\$ 1,462,565.00	\$ 1,267,453.86
TetraTech	13605	\$ 94,000.00		\$ -	\$ 94,000.00	\$ 93,884.70
Ninyo & Moore	14279	\$ 49,399.00		\$ 30,000.00	\$ 79,399.00	\$ 47,005.27
ADS Environmental	16452	\$ 107,200.00	\$ -		\$ 107,200.00	\$ 52,875.00
Hallsten	16578	\$ 251,422.00	\$ 16,715.25		\$ 268,137.25	\$ -
Dudek	17401	\$ 48,360.00		\$ -	\$ 48,360.00	\$ 30,690.00
		<b>\$ 19,617,636.00</b>	<b>\$ 1,275,179.74</b>	<b>\$ 1,651,288.00</b>	<b>\$ 22,544,103.74</b>	<b>\$ 21,533,893.42</b>

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

**Contingency**

Area	Project Code	Amount **	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 969,679.00	\$ 857,807.95	\$ 111,871.05	88.5%
Common	3231-000	\$ 38,120.00	\$ 3,305.76	\$ 34,814.24	8.7%
Solids	3287-000	\$ 1,544,449.00	\$ 1,345,680.79	\$ 198,768.21	87.1%
		<b>\$ 2,552,248.00</b>	<b>\$ 2,206,794.50</b>	<b>\$ 345,453.50</b>	<b>86.5%</b>

\*\* Amount reflects contingency for Construction Contracts only

**Summary of New Change Orders**

Change Order No	MNWD	SCWD	SMWD	\$ Amount
66	\$ 2,107.42	\$ 1,949.36	\$ 5,690.03	\$ 9,746.81
67	\$ 2,047.32	\$ 2,559.16	\$ 4,265.26	\$ 8,871.74
68	\$ 12,374.73	\$ 11,446.62	\$ 33,411.77	\$ 57,233.12
69	\$ 4,187.80	\$ 3,873.72	\$ 11,307.06	\$ 19,368.58
<b>Grand Total</b>	<b>\$ 20,717.27</b>	<b>\$ 19,828.86</b>	<b>\$ 54,674.12</b>	<b>\$ 95,220.25</b>

**Change Orders and Amendments**

Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
<b>Within Contingency, to be reviewed by Engineering Committee</b>						<b>\$ 95,220.25</b>
66	Olsson	3287-000	Digester Control Buildings Modifications	1/12/2023		\$ 9,746.81
67	Olsson	3220-000	Plant 1 and 2 Field Obstructions	1/12/2023		\$ 8,871.74
68	Olsson	3287-000	MCC-F1 Site Modifications	1/12/2023		\$ 57,233.12
69	Olsson	3287-000	DAFT and TWAS area additional slab modification and piping material change	1/12/2023		\$ 19,368.58
<b>Approved by Board of Directors</b>					<b>191</b>	<b>\$ 1,179,959.49</b>
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	12/12/2019	0	\$ 4,725.00
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	6/4/2020	0	\$ 6,343.10
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	6/4/2020	11	\$ 37,969.60
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	6/4/2020	3	\$ 24,001.54

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	8/6/2020	28	\$ 16,370.30
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	8/6/2020	90	\$ 41,993.87
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	8/6/2020	3	\$ 7,412.74
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	8/6/2020	0	\$ (1,829.00)
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	8/6/2020	0	\$ 18,677.63
10	Olsson	3287-000	Duct bank J Interferences	12/17/2020	18	\$ 73,639.42
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	12/17/2020	5	\$ 20,868.52
12	Olsson	3220-000	Duct bank K Interferences	12/17/2020	0	\$ 15,567.08
13	Olsson	3287-000	Digester 3/4 PLC Relocation	12/17/2020	14	\$ 41,367.51
14	Olsson	3287-000	Digester 4 Additional Tank Repair	12/17/2020	18	\$ 33,642.75
15	Olsson	3220-000	Duct bank O Interferences	12/17/2020	0	\$ 1,686.88
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	2/4/2021	0	\$ 42,780.00
17	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	5/6/2021	0	\$ 34,392.02

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
18	Olsson	3287-000	Integrator Additional Site Visits	5/6/2021	0	\$ 7,571.97
19	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	6/3/2021	0	\$ 29,417.20
20	Olsson	3220-000	Overhead Walkway Removal at Plant 1 Secondary Basins 5 through 9	6/3/2021	0	\$ 62,113.50
21	Olsson	3287-000	Cogeneration PLC Modifications and Integration	6/3/2021	0	\$ 42,922.67
22	Olsson	3220-000	Plant 1 Secondary Basins UV Rated Wear Strips	9/2/2021	0	\$ 28,965.33
23	Olsson	3287-000	MCC-F1 Design Change	9/2/2021		\$ 481,290.42
24	Olsson	3287-000	DAF 2 Investigation Work and Inspection Blast	10/7/2021		\$ 67,838.71
25	Olsson	3287-000	New Fiber Conduit in West Blower Building	10/7/2021		\$ 4,957.71
26	Olsson	3220-000	Plant 1 Primary Basin Conduit Obstruction	10/7/2021		\$ 8,444.20
27	Olsson	3220-000	Plant 1 Influent Channel Additional Coating between Primary Basins 5 and 6	10/7/2021		\$ 15,469.98
28	Olsson	3287-000	MCC-F1 Lighting Changes	10/7/2021		\$ 7,843.04
29	Olsson	3287-000	Digester 3 Ground Rod	10/14/2021		\$ 7,269.16

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
30	Olsson	3220-000	New Fiber Conduits at East Electrical and Storm Water Buildings	10/14/2021		\$ 8,045.43
31	Olsson	3220-000	Plant 2 Primary Influent Channel Repair Credit	12/9/2021		\$ (15,903.00)
32	Olsson	3220-000	Plant 1 and 2 Telescoping Valve Pipe Supports	12/9/2021		\$ 6,132.27
33	Olsson	3287-000	4" Gas Line Routing Modifications	12/9/2021		\$ 18,146.07
34	Olsson	3287-000	Gas Mixer Conduit Conflict	12/9/2021		\$ 12,383.89
35	Olsson	3220-000	P1 Primary Tanks 5 and 6 Temporary Power	3/10/2022		\$ 7,256.05
36	Olsson	3220-000	P1 Primary Tanks Skimmers Starter Modification	3/10/2022		\$ 45,374.13
37	Olsson	3220-000	P1 Primary Tanks Hopper Wall Coating	3/10/2022		\$ 34,505.41
38	Olsson	3220-000	P1 Effluent Channel Conduit Conflict	3/10/2022		\$ 9,274.98
39	Olsson	3220-000	P1 Primary Tanks Torque Limit Switch	3/10/2022		\$ 7,149.86
40	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	3/10/2022		\$ (2,309.09)
41	Olsson	3287-000	DAFT 2 Repair	3/10/2022		\$ 59,403.53
42	Olsson	3287-000	Digesters 1 and 2 Heat Exchanger Layout Reconfiguration Electrical	6/2/2022	1	\$ 12,885.18

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
43	Olsson	3287-000	Digester 3 Heat Exchanger Hot Water Loop Tie-In	6/2/2022		\$ 2,774.58
44	Olsson	3220-000	Plant 1 Primary Basin 1 Shutdown Repair Work	6/2/2022		\$ 1,009.86
45	Olsson	3287-000	Replace Compressor Line and Valve at Digester 4	6/2/2022		\$ 10,762.85
46	Olsson	3220-000	Plant 2 Influent Gates Removal and Concrete Demo	6/2/2022		\$ 5,389.66
47	Olsson	3287-000	DAFT 2 Launder Support Detail	6/9/2022		\$ 45,682.30
48	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Coating Removal	6/9/2022		\$ 111,101.16
49	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Existing Equipment Removal and Reinstallation	6/9/2022		\$ 71,864.17
50	Olsson	3287-000	Digester Mixing Pumps Control Programming Change	8/4/2022		\$ 4,397.77
51	Olsson	3220-000	Plant 1 Primary Basins Skimmers I/O Connection and Programming Change	8/4/2022		\$ 14,237.83
52	Olsson	3287-000	Fiber Patch Cables to Connect the Centrifuge PLC to the Centrifuge Patch Panel	8/4/2022		\$ 3,755.90

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
53	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Coating Removal	8/4/2022		\$ 43,222.24
54	Olsson	3220-000	Plant 1 Secondary Basins Concrete Structural and Basins 2 and 3 Drive Plate Rework	8/4/2022		\$ 20,860.16
55	Olsson	3220-000	Plant 2 Primary Basins Repair and Rehab of Head-Shaft Bearings	8/4/2022		\$ 4,618.44
56	Olsson	3231-000	Board SOCWA Front Office with Plywood to Cover Windows	8/4/2022		\$ 3,305.76
57	Olsson	3220-000	Seal the Openings at Plant 1 Primary Influent and Effluent Channels	8/4/2022		\$ 25,491.03
58	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Existing Equipment Removal and Reinstallation	9/1/2022		\$ 26,498.32
59	Olsson	3220-000	Plant 1 Secondary Basins Existing Embedded Metal Plates	9/1/2022		\$ 4,290.48
60	Olsson	3220-000	Plant 2 Primary Baffle Frame Replacement	9/1/2022		\$ 18,291.57

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
61	Olsson	3287-000	Digester hatch connection, temperature guage adjustment, and potholing	11/3/2022		\$ 9,971.62
62	Olsson	3220-000	Plant 1 Primary and Secondary Basins crack injection, concrete repair, channel cleaning, solids removal	11/3/2022		\$ 146,734.55
63	Olsson	3287-000	Boiler Room Modifications	12/8/2022		\$ 14,797.83
64	Olsson	3287-000	DAFT 1 Repair	12/8/2022		\$ 66,992.33
65	Olsson	3220-000	Secondary Clarifier Telescoping Valve Modifications (Design Error)	12/8/2022		\$ 32,709.94
Duduct-Common	Olsson	3231-000	Energy Building Monorail System Descope (F1-F4)	8/4/2022		\$ (70,585.34)
Duduct-Liquids	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	8/4/2022		\$ (483,605.73)
Duduct-Solids	Olsson	3287-000	Energy Building Modifications Descope (G1-G2, & H1-H2)	8/4/2022		\$ (357,382.60)
HAL 01	Hallsten	3220-000	Cover Layout Modifications	8/4/2022		\$ 16,715.25
<b>Approved by Board of Directors (Amendments)</b>						<b>\$ 1,651,288.00</b>
1CM Common	Butier	3231-000	CM Change Order No. 1	7/13/2021		\$ 48,995.00
1CM Liquids	Butier	3220-000	CM Change Order No. 1	7/13/2021		\$ 294,125.00
1CM Solids	Butier	3287-000	CM Change Order No. 1	7/13/2021		\$ 269,595.00



<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
1ESDC Common	Carollo	3231-000	ESDC Change Order No. 1	6/3/2021		\$ 18,210.00
1ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 1	6/3/2021		\$ 109,256.00
1ESDC Solids	Carollo	3287-000	ESDC Change Order No. 1	6/3/2021		\$ 100,151.00
1G Common	Ninyo & Moore	3231-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 5,400.00
1G Liquids	Ninyo & Moore	3220-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
1G Solids	Ninyo & Moore	3287-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
2CM Liquids	Butier	3220-000	CM Change Order No 2	5/12/2022		\$ 196,268.00
2CM Solids	Butier	3287-000	CM Change Order No. 2	5/12/2022		\$ 196,268.00
2ESDC Common	Carollo	3231-000	ESDC Change Order No. 2	12/9/2021		\$ 11,075.00
2ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 2	12/9/2021		\$ 196,440.00
2ESDC Solids	Carollo	3287-000	ESDC Change Order No. 2	12/9/2021		\$ 180,905.00
<b>Potential Change</b>						<b>\$ 172,629.67</b>
PCO 005	Olsson	3287-000	TWAS Slab Modifications	(blank)		\$ 50,000.00
PCO 038	Olsson	3287-000	Existing Valves at Digester 4 Heat Exchanger	(blank)		\$ -
PCO 047	Olsson	3287-000	Digester 3/4 Control Building Tee Replacement	(blank)		\$ -
PCO 054	Olsson	3220-000	Plant 1 Primary Effluent Channel Wall Corrosion	(blank)		\$ -
PCO 055	Olsson	3287-000	Additional Concrete Repair behind Digesters 1 & 2	(blank)		\$ -

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 057	Olsson	3220-000	Recoating of Basin Drive Shaft Steel Plates	(blank)		\$ -
PCO 058	Olsson	3220-000	Aluminum Kickplate at Aeration Basins	(blank)		\$ -
PCO 061	Olsson	3220-000	Steel Plate Coating and Blasting Extra Work	(blank)		\$ -
PCO 063	Olsson	3220-000	Concrete Repair at Secondary Basin Drive Units	(blank)		\$ -
PCO 064	Olsson	3220-000	Effluent Channel FA Duct Footing Conflicts	(blank)		\$ -
PCO 068	Olsson	3287-000	Chopper Pump Impeller Issues	(blank)		\$ -
PCO 070	Olsson	3220-000	Tread Plate-Slide Gate Conflicts at Effluent Channel	(blank)		\$ -
PCO 071	Olsson	3220-000	Effluent Channel Unforeseen Existing Conduit	(blank)		\$ -
PCO 072	Olsson	3287-000	Existing Conflicts at DAFT 2 Stairs	(blank)		\$ -
PCO 075	Olsson	3220-000	Bypass Pumping Plan Issues	(blank)		\$ 74,226.27
PCO 083	Olsson	3220-000	Replacing the P1 Head Shaft Plate	(blank)		\$ -
PCO 095	Olsson	3287-000	Foul Air Rerouting at DAFT 2	9/2/2021		\$ 5,000.00
PCO 106	Olsson	3287-000	DAFT 2 Isolation Valve	(blank)		\$ -
PCO 109	Olsson	3220-000	P1P Influent Channel Scum Gate Openings	(blank)		\$ -
PCO 119	Olsson	3220-000	Seal Openings in P1 Influent Channel Tanks 3 and 4	(blank)		\$ 1,651.88

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 121	Olsson	3287-000	DAFT 1 Additional Repair - Flange	(blank)		\$ -
PCO 135	Olsson	3287-000	DAFT 1 Stair Modifications	(blank)		\$ 412.56
PCO 140	Olsson	3287-000	DAFT 1-TWAS Changes	(blank)		\$ -
PCO 143	Olsson	3287-000	Revisions to DG Line	(blank)		\$ -
PCO 150	Olsson	3287-000	DAFT 1 Air Control Panel Solenoid Valve	(blank)		\$ 2,633.87
PCO 151	Olsson	3287-000	Digester 2 Hot Water Loop Change	(blank)		\$ 29,525.46
PCO 152	Olsson	3220-000	Plant 1 primary helical drives temporary covers	(blank)		\$ 9,179.63
<b>Grand Total</b>					<b>191</b>	<b>\$ 3,099,097.41</b>

# Agenda Item

# 8

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee

**FROM:** Roni Young Grant, Associate Engineer

**SUBJECT:** JB Latham Treatment Plant Electrical System Upgrades Additional Design, Bidding and Engineering Service during Construction [Project Committee 2]

## Overview

Hazen and Sawyer (Hazen), the design engineering firm for the Electrical System Upgrades project, is near completion of the design for the JB Latham Treatment Plant Electrical Evaluation System, which includes the replacement of MCC-M, MCC-G, and the Plant 1 generator. During the constructability review, several issues were identified, which resulted in SOCWA requesting changes to the project scope. The following summarizes the scope changes which require additional design services:

- Conduit support change from basin mounted to overhead
- Conduit path changes
- Additional structural detailing of conduit supports
- Change locations of pull boxes
- Relocate equipment to facilitate conduit routing
- Modifications to duct bank design
- Optional potholing along the proposed conduit alignment to verify utility conflicts

Hazen submitted the attached proposal to provide additional design services. The additional design services proposed fee is \$112,620. Table 1 shows the project allocation and Table 2 shows the allocation by member agency for the additional design services.

Table 1 – Project Allocation

Project	Original Contract <sup>a</sup>	Amendment No. 1 <sup>b</sup>	Amendment No. 2 <sup>c</sup>	Amendment No. 3	Revised Contract
Task 3252-000, Electrical System Upgrades and Plant 1 Generator Replacement	\$199,546	\$24,390	\$19,980	\$112,620	\$356,536

- a. The original scope included an evaluation of the electrical system, condition assessment of electrical manholes, and design of MCC-M replacement.
- b. Amendment No. 1 added the replacement of MCC-G and lighting panels LP-K1 and LP-L to the scope.
- c. Amendment No. 2 added the replacement of the Plant 1 generator, new conductors, and new temporary generator connection on SWGR MAR-East to the scope.

Table 2 – Allocation by Member Agency

Member Agency	PC2, Task 3252-000
Moulton Niguel Water District	\$25,993
South Coast Water District	\$32,480
Santa Margarita Water District	\$54,148
Total	\$112,620

In addition, Hazen submitted the attached proposal to provide bidding and engineering services during construction (ESDC). The services fee is \$164,350 and includes the following scope:

- Respond to RFIs, issue addendum and pre-bid site walk
- Project management during construction
- Inspection visits
- Project meetings and site visits
- Submittal reviews
- RFI responses
- Change order reviews
- Record drawing preparation

The Engineer’s cost estimate is between \$3 to \$4 million for this project.

Table 3 shows the project allocation and Table 4 shows the allocation by member agency for the bidding and engineering services during construction.

Table 3 – Project Allocation

Project	Bidding and ESDC Services
PC 2, Task 3252-000, Electrical System Upgrades and Plant 1 Generator Replacement	\$164,350

Table 4 – Allocation by Member Agency

Member Agency	PC2, Task 3252-000
Moulton Niguel Water District	\$37,932
South Coast Water District	\$47,399
Santa Margarita Water District	\$79,019
Total	\$164,350

The combined total of the two proposals is \$276,970. Project 3252-000 has \$330,000 in available funds.

**Recommended Action:** Staff recommends that the Engineering Committee recommend that the PC 2 Board of Directors approve the contract to Hazen and Sawyer in the amount of \$112,620 for the additional design services, and bidding and ESDC services in the amount of \$164,350 for a total of \$276,970 for the JB Latham Treatment Plant Electrical System Upgrades Project.

January 05, 2023

Ms. Roni Young, P.E.  
Associate Engineer  
South Orange County Wastewater Authority  
34156 Del Obispo Street  
Dana Point, CA 92629

**Re: J.B. Latham Treatment Plant Electrical System Evaluation (SOCWA PO 14331) – Additional Design Services Proposal No. 3**

Dear Ms. Roni Young:

During the detailed design process for the replacement of MCC-M and MCC-G as part of the J.B. Latham Treatment Plant Electrical System Evaluation (SOCWA PO 14331), South Orange County Wastewater Authority (SOCWA) requested changes to the original project scope. The following list summarizes project scope changes requiring additional design services:

- Design Changes
  - Conduit support change from basin mounted to overhead
  - Conduit path changes
  - Additional structural detailing of conduit supports
  - Change locations of pull boxes
  - Relocate equipment (electrical and HVAC) to facilitate conduit routing
  - Modifications to duct bank design
- Significant modifications to the following drawings
  - Partial Site Plan
  - Effluent Pump Station Electrical Room Plans
  - Scum Pump Station Plans
  - East Blower Building and Generator Area Plans
  - Duct Bank, Conduit and Wire Schedule
- The following new drawings are anticipated
  - Overall Site Plan
  - Enlarged Site Plan – West
  - Enlarged Site Plan – East
  - Riser Diagram
  - Electrical Standard Details – II

SOCWA has limited record drawings in parts of the facility where buried conduits will be installed. SOCWA has indicated that they may self-perform potholing along the proposed conduit alignment prior

to construction to verify any conflicts. We have included an optional task (Task 900), which will only be used at SOCWA’s discretion, to resolve any conflicts that are discovered.

Following is our proposed fee and schedule of hourly rates organized by task for the additional design services associated with the project scope changes.

TASK	Hourly Rate =	SA	A	AE	Total Hours	Labor
<b>Task 200 - Motor Control Center 'M' Final Design</b>						
Drawings & Specifications - Additional Project Scope		86	124	210	420	\$ 86,200
Site Visit		6	6		12	\$ 3,060
Cost Estimate		12			12	\$ 3,360
<b>Task 200 - Subtotal</b>		<b>104</b>	<b>130</b>	<b>210</b>	<b>444</b>	<b>\$ 92,620</b>
<b>Task 900 (Optional) - Conduit Conflict Resolution</b>						
<b>Task 900 (Optional) - Subtotal</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ 20,000</b>
<b>Total</b>		<b>104</b>	<b>130</b>	<b>210</b>	<b>444</b>	<b>\$ 112,620</b>

Hazen and Sawyer Labor Classifications
SA- Senior Associate
A - Associate
AE - Assistant Engineer

Labor Total	\$ 112,620
Other Direct Costs	\$ -
<b>Total (Labor + ODCs)</b>	<b>\$ 112,620</b>

The project scope changes will also impact the design schedule and following are updated milestones for the remainder of the design. Only one submittal remains in the previous additional task design scope, Bid Set submittal. Hazen proposes to include one additional submittal, 100% Revision 2, which is reflected in the revised schedule. The additional submittal will allow SOCWA to review the additional scope items as part of the 100% Rev2 submittal review process and allow Hazen to incorporate any review comments into the Bid Set.

Task/Milestone	Dates:
100% Revision 2 - Review Submittal	12 weeks after NTP
Bid Set Submittal	3 weeks after 100% Rev 2 Review Comments

Should you have any questions, please contact me at (949) 343-9728 or via e-mail at [cthunhorst@hazensawsawyer.com](mailto:cthunhorst@hazensawsawyer.com).

Very truly yours,



Christopher Thunhorst, PE  
Project Manager  
Enclosure

December 20, 2022

Ms. Roni Young, P.E.  
Associate Engineer  
South Orange County Wastewater Authority  
34156 Del Obispo Street  
Dana Point, CA 92629

**Re: J.B. Latham Treatment Plant MCC-M and MCC-G Replacement Project – Bidding and Engineering Services During Construction**

Dear Ms. Roni Young:

SOCWA has requested that Hazen provide bidding services as well as engineering services during construction for the J.B. Latham Treatment Plant MCC-M and MCC-G Replacement Project. Attached is the proposed scope and fee to provide these services.

We appreciate the opportunity to continue providing professional engineering services on the project. Should you have any questions, please contact me at (760) 805-7989 or via e-mail at [amlakar@hazenandsawyer.com](mailto:amlakar@hazenandsawyer.com).

Very truly yours,

A handwritten signature in black ink that reads "Alan Mlakar". The signature is written in a cursive style and is followed by a horizontal line extending to the right.

Alan Mlakar, PE  
Project Manager

Enclosure



## Scope of Work

### Task 1 – Bidding Services

#### 1.1 – RFI Responses

Hazen will respond to up to 10 requests for information during bidding at an average of 4 hours each.

#### 1.2 - Addendum

Hazen will provide updated drawings in the form of up to one addendum.

#### 1.3 – Pre-Bid Site Walk

Hazen will attend a pre-bid site walk.

### Task 2 - Engineering Services During Construction

#### 2.1 - Project Management During Construction

Hazen will provide project management during the 18-month construction phase at 6 hours per month. This includes general coordination, monthly reports, and conference calls.

#### 2.2 - Inspection Visits

Hazen will provide up to 5 inspections at 6 hours each.

#### 2.3 - Project Meetings and Site Visits

Hazen will attend project meetings at the construction site with one engineering representative on a monthly frequency over the duration of the 18-month construction. An average of 6 hours will be designated for each combined meeting and site visit.

#### 2.4 - Submittal Reviews

Hazen will review up to 24 submittals and 16 resubmittals at an average review time of 6 hours each. Review procedures will be as specified in the Contract Documents and as directed by SOCWA. Hazen will review shop drawings for conformance with the design documents.

#### 2.5 - RFI Responses

Hazen will respond to up to 15 requests for information at an average of 6 hours each.

#### 2.6 - Change Order Reviews

Hazen will review and analyze up to 2 change order requests to determine their merit relative to the Contract Documents and design intent. The review of change orders will only be upon the request of SOCWA. Hazen's review and analysis of Change Order Requests will include review of scope and pricing information submitted by the Contractor and/or SOCWA.

#### 2.7 - Record Drawing Preparation

Hazen will prepare record drawings from markups made by the Contractor and reviewed by SOCWA's construction manager. Total number of drawings is anticipated to be 36. Record drawings will be submitted electronically, as pdf files in half and full-size formats and as 2 hard copies, full-size, in Draft and Final.

## **Compensation**

Hazen proposes to complete the scope on a time and expense basis for a not to exceed amount of \$164,350.

**South Orange County Wastewater Authority  
J. B. Latham Treatment Plant  
MCC-M and MCC-G Replacement Project Bidding and Engineering Services During Construction  
December 20, 2022**

TASK		Hourly Rate =			Total Hours	Labor
		SA	A	AE		
		\$280	\$230	\$160		
<b>Task 1 - Bidding Services</b>						
	1.1 - RFI's (10 assumed)	10	15	15	40	\$ 8,650
	1.2 - Addendum (1 assumed)	2	8	8	18	\$ 3,680
	1.3 - Pre-Bid Site Walk		8		8	\$ 1,840
	<b>Bidding Subtotal</b>	<b>12</b>	<b>31</b>	<b>23</b>	<b>66</b>	<b>\$ 14,170</b>
<b>Task 2- ESDC</b>						
	2.1 - Project Management During Construction	48	60		108	\$ 27,240
	2.2 - Inspection Visits (5 assumed)		30		30	\$ 6,900
	2.3 - Project Meetings and Site Visits (18 assumed)	36	52	20	108	\$ 25,240
	2.4- Submittal Reviews (24 submittals and 16 resubmittals assumed)	38	60	142	240	\$ 47,160
	2.5- RFI Responses (15 assumed)	18	30	42	90	\$ 18,660
	2.6 - Change Order Reviews (2 assumed)	8	8		16	\$ 4,080
	2.7- Record Drawing Preparation	16	10	82	108	\$ 19,900
	<b>ESDC Subtotal</b>	<b>164</b>	<b>250</b>	<b>286</b>	<b>700</b>	<b>\$ 149,180</b>
	<b>Total</b>	<b>176</b>	<b>281</b>	<b>309</b>	<b>766</b>	<b>\$ 163,350</b>

Hazen and Sawyer Labor Classifications
SA- Senior Associate
A - Associate
AE - Assistant Engineer

Labor Total	\$ 163,350
Other Direct Costs	\$ 1,000
<b>Total (Labor + ODCs)</b>	<b>\$ 164,350</b>

# Agenda Item

# 9

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee

**FROM:** David Baranowski, Director of Engineering

**SUBJECT:** Contract Award for Aliso Creek Ocean Outfall Internal Seal Replacement Engineering Services During Construction [Project Committee 24]

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## Background

In 1992, retaining bands were installed inside the Aliso Creek Ocean Outfall (ACOO) to seal fractures in the pipe. The seals were replaced in 2003. Over the years, these seals have been maintained to stay seated against the internal pipe wall. The seals are now in need of replacement.

The design phase began in 2018 but was put on hold during 2020. Black & Veatch is the design engineer. The project design has been restarted and is expected to go out for bid in March for construction in July of this year. The construction cost estimate for the work is \$250,000.

## Proposal

Black & Veatch submitted the attached proposal to provide engineering support during bidding and construction (ESDC). The proposed fee is \$44,850 and includes the following scope:

- Attending the pre-bid meeting, responding to bidding questions, and preparation of confirmed documents
- Project meetings and site visits
- Submittal reviews
- Change order assistance
- RFI responses
- Inspection visits
- Record drawing preparation
- Project management

Table 1 shows the project allocation and Table 2 shows the allocation by member agency.

Table 1 – Project Allocation

Project	ESDC Services	Funds Available
PC 24, Task 3480-000, Internal Seal Replacement	\$44,850	\$176,837

Table 2 – Allocation by Member Agency

Member Agency	PC 24, Task 3480-000
City of Laguna Beach	\$4,933.50
Emerald Bay Service District	\$349.83
El Toro Water District	\$7,310.55
Irvine Ranch Water District	\$7,068.36
Moulton Niguel Water District	\$19,666.73
South Coast Water District	\$5,521.04
Total	\$44,850.00

**Recommended Action:** Staff recommends that the Engineering Committee recommend to the PC 24 Board to approve the contract to Black & Veatch in the amount of \$44,850 for the bidding and ESDC services for the ACOO Internal Seal Replacement project.

22 December 2022

Mr. David Baranowski, P.E.  
South Orange County Wastewater Authority  
Director of Engineering  
34156 Del Obispo St.  
Dana Point, CA 92629

**Subject: Proposal for Aliso Ocean Outfall Seal Replacement Project (Phase 2)**

Dear Mr. Baranowski:

Black & Veatch (B&V) is pleased to submit this proposal to provide bid and construction phase services for the Aliso Creek Ocean Outfall (ACOO) Seal Replacement project (Seal Replacement Project). I will continue my lead role as the Engineering Manager and point of contact for Black & Veatch.

The proposal that follows presents the proposed scope of work, labor effort and fee, and schedule for the Seal Replacement Project Bid and Construction Phase work.

## Scope of Work

The intent of the Scope of Service tasks listed below is to provide bid phase and construction phase services

### **TASK 1.0 BID PHASE SERVICES.**

Bid phase services include attendance at pre-bid meeting, responding to bid phase questions, and preparation of conformed to bid documents.

### **TASK 2.0 CONSTRUCTION PHASE SERVICES.**

Task 3 provides construction support services for the Seal Replacement Project, and includes the following subtasks:

- Task 2.1 – Meetings
- Task 2.2 – Shop Drawing Submittal Review
- Task 2.3 – Change Order Assistance
- Task 2.4 – Respond to Requests for Information
- Task 2.5 – Field and Inspection Services
- Task 2.6 – Conformed to Construction Record Drawings



Services and information provided by SOCWA under Task 2.0 include:

- SOCWA will coordinate with all upstream plants and agencies to shutdown/reduce flow to the outfall during each work event.
- SOCWA will coordinate with the SCWD for bypass pumping at the Coastal Treatment Plant.
- SOCWA will coordinate and alert the City of Laguna Beach Police Department, Orange County Park and Recreation Department, and any other agencies impacted by the construction work activities the day prior to the event or as required by that agency.

**Task 2.1 - Meetings.** The following meetings are included in Task 2.1.

- Construction kickoff meeting
- Access manway investigation meeting
- 5 Preinstallation-day meetings

**Task 2.2 - Shop Drawing Submittal Review.** Consultant will review shop drawings for conformity to construction documents and for general conformance with design concepts and will recommend course of action to Owner. Submittal review comments will be provided to the Contractor in electronic format (PDF).

**Task 2.3 - Change Order Assistance.** Consultant will review and evaluate change order requests relating to the drawings or technical specifications, as requested by the Owner. Recommendations will be provided to the Owner regarding the validity and proposed costs associated with change order requests. Consultant will assist the Owner in administering and processing of change orders, including applications for extensions of construction time.

**Task 2.4 - Respond to Requests for Information.** Consultant will interpret the construction contract documents and respond in writing to Requests for Information (RFIs) relating to the design. Responses to RFIs will be provided to the Contractor in electronic format (PDF).

**Task 2.5 - Field and Inspection Services.** Consultant will be on-site during each of the five (5) seal replacement events to confirm Contractor's conformance with the project specifications, and to review/inspect final work product videos. A daily report will be prepared summarizing the Contractor's activities. Task 2.5 budget includes an additional day (total six (6) events) if required for completion of the work.

**Task 2.6 - Conformed to Construction Record Drawings.** Consultant will revise the construction drawings to reflect actual construction and prepare



conformed to construction record drawings (Record Drawings). Marked-up drawings, surveys, and other records will be provided by the Contractor. During construction, Consultant will inspect the marked sets of drawings and specifications maintained by the Contractor.

Final Record Drawings will include revisions to the drawings resulting from RFIs, change orders, field orders, and any other changes that occur during the construction of the Project. Drawings will be submitted to Owner in electronic format (.PDF and .DWG format).

22 DECEMBER 2022

### **TASK 3.0 PROJECT MANAGEMENT.**

Project management task includes preparation of progress reports, invoices, and meeting agendas and minutes.

## **Labor Hour and Fee**

Table 1 summarizes the labor effort and fee for each task. The total not-to-exceed fee for this effort is \$44,850.

## **Schedule**

- Out for bid – March 2023
- Bids due – April 2023
- Board approval – June 2023
- Contractor Notice to Proceed – July 2023
- Contractor submittals – July 2023
- Installation – July to October 2023

Our Team is ready to start immediately and we look forward to the opportunity to work with you on this important Project. Please call me at (949) 788-4208 if you have any questions.

Yours truly,

BLACK & VEATCH CORPORATION

Rich ten Bosch, P.E.  
Senior Engineering Manager

Attachment



**TABLE 1**  
 SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
 Professional Services for Aliso Creek Ocean Outfall Seal Replacement Project (Phase 2)

**Level of Effort and Fee Estimate**

Task	Project Manager	Eng Manager	QC/QA	Staff Engineer	CAD Tech	Clerical Staff	Total Hours	Total Labor	Direct Expense	Total Cost
	<b>Kurtti</b>	<b>ten Bosch</b>	<b>Faraone</b>	<b>Cunniff</b>	<b>Glasgow</b>	<b>Mitchell</b>				
Rate	\$250	\$300	\$240	\$150	\$130	\$105				
<b>Task 1.0 BID PHASE SERVICES</b>										
Pre-Bid Meeting		3					3	\$900		\$900
Respond to Bid Phase Questions		8					8	\$2,400		\$2,400
Conformed to Bid Documents		2			4		6	\$1,120		\$1,120
<b>Task 2.0 CONSTRUCTION PHASE SERVICES</b>										
2.1 Meetings		22					22	\$6,600		\$6,600
2.2 Shop Drawing Submittal Review		14		16			30	\$6,600		\$6,600
2.3 Change Order Assistance		4					4	\$1,200		\$1,200
2.4 Respond to Requests for Information		8					8	\$2,400		\$2,400
2.5 Field and Inspection Services		60					60	\$18,000	\$200	\$18,200
2.6 Conformed to Construction Drawings		4				8	12	\$2,040		\$2,040
<b>Task 3.0 PROJECT MANAGEMENT</b>	6					18	24	\$3,390		\$3,390
<b>SUBTOTAL - PHASE 2</b>	<b>6</b>	<b>125</b>	<b>0</b>	<b>16</b>	<b>4</b>	<b>26</b>	<b>177</b>	<b>\$44,650</b>	<b>\$200</b>	<b>\$44,850</b>

# Agenda Item

# 10

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee

**FROM:** David Baranowski, Director of Engineering

**SUBJECT:** Coastal Treatment Plant (CTP) Funding Strategy and Implementation Plan Proposal [Project Committee 15]

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## Overview

At the November 13, 2022, Special Meeting for PC 15, Hazen and Sawyer (Hazen) gave a presentation about their approach to identifying and obtaining funding sources. Hazen submitted the attached proposal to provide a comprehensive funding strategy and implementation plan for the Coastal Treatment Plant. The proposed fee is \$60,140.

Staff requests feedback from the Committee about the proposal and how to proceed.

**Recommended Action:** Committee Discussion and Direction to Staff.



Hazen and Sawyer  
 7700 Irvine Center Drive, Suite 200  
 Irvine, CA 92618 • 949.951.8549

January 5, 2023

Mr. David Baranowski  
 Project Manager  
 South Orange County Wastewater Authority (SOCWA)  
 34156 Del Obispo Street  
 Dana Point, CA 92629

**Re: Coastal Treatment Plant – Funding Strategy and Implementation Plan**

Dear David:

Thank you for arranging our presentation before SOCWA’s PC-15 Committee Meeting recently. We very much appreciate the opportunity to present our experience and qualifications in assisting our water agency clients in obtaining funding for projects like the future improvements needed at your Coastal Treatment Plant. As requested by the Committee, here is our proposal to provide a comprehensive funding strategy and implementation plan.

**Firm Experience**

Hazen is a proven, experienced, and responsive team. Our funding experts have developed infrastructure funding solutions totaling over \$4.1B over the last 10 years for utilities across the country. Hazen’s comprehensive approach to funding assistance for grant and favorable financing programs has enabled other utilities to effectively obtain water and wastewater infrastructure funding assistance from over 30 unique funding programs across the country. Hazen has been assisting utilities with the identification of projects eligible for various local, state, and federal funding sources. Likewise, we have experience helping our municipal clients prioritize projects to optimize use of new and evolving funding programs to maximize available funding efforts in securing this funding, and importantly, ensuring clients meet all grant administration criteria. To provide the best information to clients and ensure the highest opportunity for success, Hazen draws upon our extensive experience engaging program staff, developing a detailed understanding of funding programs’ current priorities, and assisting utilities in determining which capital projects best fit various funding program opportunities.

**Snapshot of the Proposed Hazen’s Funding Team’s Successful Funding Efforts**

Project Name and Location	Total Funding
Nature-based Mitigation to Adapt in an Era of Megafire, Sonoma County, CA	\$37,000,000
Groundwater Supply Treatment, East Orange Water Commission, NJ	\$9,600,000
NYC Wastewater Resiliency Plan, NYCDEP, NY	\$350,000,000
Nutrient Reduction Project, South Central Wastewater Authority, VA	\$195,000,000
West Hickman WWTP Wet Weather Storage Tank, Lexington-Fayette Urban County Government, KY	\$66,000,000

Job no. 20007-006

Winsor Water treatment Plan Rehabilitation, City of North Miami, FL	\$20,000,000
Multiple Consent Decree Projects, City of Raleigh, NC	\$181,000,000
Neuse River RRF Bioenergy Recovery Program, City of Raleigh, NC	\$50,000,000
WWTP Improvements, City of Bedford Heights, OH	\$44,000,000
Brook Hollow Interceptor, Dallas Water Utilities, TX	\$22,000,000
WTP Upgrade Phase I, Greenville Utilities Commission, NC	\$69,000,000

Our team has been instrumental in providing the technical support and program development necessary for local governments and utilities to submit competitive grant proposals, including highly competitive programs such as FEMA’s Building Resilient Infrastructure and Communities (BRIC) program. Members of our team secured over \$64 million in FEMA Hazard Mitigation Program Grants to offset impacts related to natural hazards and were successful in securing a \$37 million dollar FEMA BRIC grant, which remains the nation's largest FEMA grant to mitigate impacts from wildfire.

Hazen is particularly adept at developing successful applications for new funding opportunities, ensuring that utility partners are immediately able to take advantage of available programs and do not miss potential opportunities. One example of this success is the EPA administered WIFIA program, which was established in 2017. To provide the best information to clients and ensure the highest opportunity for success, Hazen immediately engaged WIFIA program staff, developed a detailed understanding of program priorities, and assisted clients in determining which capital projects best fit the program priorities. Hazen’s proven approach has helped clients receive WIFIA funding in each of the four years the program has existed, with approvals ranging from \$29 million to over \$400 million and totaling \$1.4 billion. We are also assisting clients in leveraging new and evolving funding water, wastewater, and resiliency opportunities presented by the enactment of the Bipartisan Infrastructure Law (BIL), including additional grant-like money through the Department of Water Resources (DWR), the Federal Emergency Management Agency (FEMA) and the State Water Resources Control Board State Revolving Fund (SRF) programs.

Hazen’s team has an extensive history of managing and administering grants. Our team’s experience and expertise include a solid understanding of local, state, and federal programs requirements (i.e., Code of Federal Regulations Title 44 Section 200 (2CFR200) and Section 404). Our team recognizes that sound project monitoring will improve the efficiency of project implementation and the obligations associated with the funding process. As part of our standard procedures, Hazen’s team can upon request, monitor and evaluate the progress of any funded project in accordance with the approved statement of work and budget, administrative requirements of 2CFR200 and any applicable state requirements.

**Experience of Project Manager**

Lisa Hulette, MBA, PMP will serve in the role of Project Manager. Lisa brings more than 20 years of leadership in the non-profit and public sectors with proven experience at leveraging multi-pronged, well-funded efforts designed to broaden support and create collaboration among diverse stakeholders. She is an expert fundraiser and has led teams that secured over \$350 million in public and private funds for water resource planning, stream restoration, hazard mitigation and land conservation projects throughout California.

Prior to joining Hazen and Sawyer, Ms. Hulette was the Lead Program Manager and Designer for the \$37 million FEMA Building Resilient Infrastructure and Communities (BRIC) grant awarded to Sonoma

County by United States President Biden on June 30, 2021, during a press conference. This is the largest wildfire project the federal government has funded to date and provides the foundation for FEMA's wildfire mitigation program. In addition to the FEMA BRIC award, Ms. Hulette was the lead in securing \$64 million from FEMA's Hazard Mitigation Grant Program to reduce risk from natural disasters in Sonoma County. In addition to hazard mitigation project design and facilitation, she has advanced several successful legislative actions to successfully streamline permitting for watershed restoration projects at the state level and managed a wide variety of projects from initial planning, through design, construction, and operation.

## **Approach**

Hazen will work closely with the South Orange County Water Authority (SOCWA) to provide a comprehensive funding strategy and implementation plan to plot a course to obtain and administer the best available funding opportunities. To do this, we will identify multiple potential funding options to provide the flexibility necessary to adapt to emerging funding programs, leverage existing programs, and to maximize the return on SOCWA's capital investment. Hazen will provide SOCWA with comprehensive funding consulting services aimed at maximizing grant opportunities to minimize the financial burden on SOCWA. Hazen will leverage both our in-house engineering expertise and knowledge of funding programs to ensure project planning, design, and implementation can be integrated to balance funding program priorities with project and schedule objectives.

Hazen uses the steps below to in our approach to identify and secure infrastructure funding for water utilities:

### **1. Strategize applicable, available, achievable, funding options**

An initial evaluation of SOCWA's current funding priorities will create a foundation for grant funding research and identification of feasible opportunities. Hazen will work closely with SOCWA to first develop an overall strategy to weigh the benefits and risks of all viable sources of grant funding and financing identified during the strategizing phase. This step will include analysis of the total program cost (e.g., including any federal cross cutter requirements), cashflow modeling, and comparing changes to rates under various funding scenarios. Understanding that SOCWA's goals – and funding opportunities – may shift over the course of the contract, this strategy will be revisited and revised, as needed, to remain a relevant guide.

### **2. Inform CIP design decisions to maximize available funding sources and amounts**

Hazen will use the outcomes of step 1 to inform any project design elements that will make a project or program more competitive for identified funding strategies. This step will also account for established application cycles of each grant program, and how they relate to existing or planned projects.

### **3. Conform to all funding agency requirements**

To ensure successful funding application efforts, Hazen will coordinate closely with SOCWA staff, our insight and knowledge of funding program "language," and our multidisciplinary staff to develop funding applications that fully integrate design, schedule, permitting, and stakeholder considerations.

### **4. Secure funds by developing competitive proposals/grant applications**

Based on our experience establishing relationships with funding agency staff (and existing knowledge of local, state, and federal programs), Hazen will work diligently to prepare successful grant applications that strike the balance between technical rigor and narrative building.

The discrete tasks we anticipate undertaking for this effort are described below.

## **Task 1 – Funding Strategy Plan Development**

Hazen will identify potential funding opportunities through iBank, SRF, WIFI, DWR, the Bureau of Reclamation, FEMA and any additional programs such as those related to BIL. The funding strategy will evaluate the benefit of each feasible funding alternative while considering impacts on schedule and total project costs of additional State and Federal processes and compliance requirements. Consideration will be given to the benefit of combining or separating projects or groups of projects for funding strategy purposes. An implementation plan will be developed based upon the evaluation. This task includes:

- Conducting an initial meeting to establish projects goals, schedule requirements, and financial capability.
- Based upon input from SOCWA, developing a funding strategy that will provide a plan for securing state and federal funding that identifies each potential source, application requirements and deadlines, and a submittal schedule to maximize funds with the greatest benefit to SOCWA.
- Preparing a memorandum detailing the results of the analysis and presenting the information to SOCWA.
- Up to three meetings and one presentation of the funding strategy.

## **Task 2 - Funding Application & Grant Writing Services.**

Hazen’s proposal development services are built on the highest quality research, writing, and problem-solving skills. Hazen backs its program planning and design capacity with solid financial and budgeting skills, resulting in final products that communicate compelling visions and well-conceived budgets. Hazen organizes projects around agreed upon schedules with built-in milestones for conceptual, programmatic, and financial review and approval. Hazen’s comprehensive proposal development sequence will involve the key steps listed below:

- Prepare a detailed proposal development checklist and work plan that: a) describes key proposal development activities such as document development, review, and feedback, b) outlines a timeline for completion, and c) identifies responsible parties.
- Ensure required system registrations such as Grants.gov and other submission platforms used by federal and state funders.
- Establish and schedule regular meetings with an application team that includes key Hazen and SOCWA staff. The first meeting of this Team will be a strategy session to review the funding opportunity, review and refine the work plan, and discuss the proposed approach to responding to proposal requirements.
- Develop a concept paper and concept budget in collaboration with relevant SOCWA staff. This step is particularly useful for projects involving multiple partners. Depending on the complexity and timeline of the individual grant proposal, this step may be abbreviated or skipped.
- Work with SOCWA staff to produce successive drafts of the project narrative, budget, attachments, and forms. Application attachments may include letters of support or commitment, memoranda of understanding or other partnership agreements, logical models, management plans, etc.

## **Task 3 – Agency Coordination and General Support**

- Coordinate with identified funding agencies to solicit early buy-in and support of application materials.
- Perform follow-up activities including sharing submission confirmation and updating SOCWA with any follow-up items.
- Hazen is also available to provide more targeted proposal development services as desired or requested by SOCWA. For example, Hazen can assist with kickoff activities such as developing a work plan, checklist of application components, and a proposal narrative outline based on the

RFP guidance and/or review application drafts both for quality and technical completeness. This flexibility may help maximize SOCWA's return on investment in Hazen funding services.

#### **Task 4 – Project Management**

- Administrative duties and meetings to ensure project execution
- Monthly progress reports
- Invoicing and budget management

#### **Estimated Fees**

The attached table presents our estimated level-of-effort and fee to conduct the above tasks. The total not-to-exceed fee for the proposed scope of work is \$60,140.

#### **Estimated Schedule**

Hazen estimates that we can complete the above scope of work within 4 months after receiving the Notice to Proceed from SOCWA.

We sincerely appreciate the opportunity to submit this proposal. If you should have any questions or wish to discuss our proposal, please contact me at [DRJones@HazenandSawyer.com](mailto:DRJones@HazenandSawyer.com) or (916) 769-8753. Thank you.

Sincerely,



Dave Jones, PE  
Vice President

Enclosure

South Orange County Wastewater Authority	Funding Strategy Plan - Fee Estimate							
							Total	
	Project Director	Technical Advisors QA/QC	Project Manager	Admin. Support	Total Hours	Labor		
	Jones	Robertson	Hulette	Baruda			ODC	Total
	\$325	\$325	\$280	\$130				
<b>TASK 1 - Funding Strategy Development</b>								
1.1 Conduct project kick-off meeting	2	1	4	0	7	\$ 2,095		\$2,095
1.2 Identify potential funding opportunities	0	0	2	4	6	\$ 1,080		\$1,080
1.3 Conduct comparison of funding opportunities specific to project	1	1	5	0	7	\$ 2,050		\$2,050
1.4 Prepare memo summarizing comparison	1	1	4	2	8	\$ 2,030		\$2,030
1.5 Meet with SOCWA to review memo	2	0	4	0	6	\$ 1,770		\$1,770
1.6 Develop draft funding strategy	2	1	8	2	13	\$ 3,475		\$3,475
1.7 Prepare memo on funding strategy	1	1	4	2	8	\$ 2,030		\$2,030
1.8 Meet with SOCWA to discuss memo	2	0	4	0	6	\$ 1,770		\$1,770
1.9 Finalize funding strategy memo	2	1	5	2	10	\$ 2,635		\$2,635
<b>SUBTOTAL TASK 1</b>	<b>13</b>	<b>6</b>	<b>40</b>	<b>12</b>	<b>71</b>	<b>\$ 18,935</b>	<b>\$0</b>	<b>\$18,935</b>
<b>TASK 2 - Funding Application and Grant Writing Services</b>	<i>(Estimate for per funding application/Final cost for each application to be approved via email prior to start of Task 2)</i>							
2.1 Prepare funding proposal development checklist and work plan	0	0	1	3	4	\$ 670		\$670
2.2 Confirm required system registrations	0	0	1	2	3	\$ 400		\$400
2.3 Conduct strategy session to refine work plan	2	2	6	2	12	\$ 3,240		\$3,240
2.4 Develop concept paper and budget	2	1	6	4	13	\$ 3,175		\$3,175
2.5 Produce successive drafts of funding application(s). Assume 4 drafts.	4	4	32	8	48	\$ 12,600		\$12,600
<b>SUBTOTAL TASK 2</b>	<b>8</b>	<b>7</b>	<b>46</b>	<b>19</b>	<b>80</b>	<b>\$20,085</b>	<b>\$0</b>	<b>\$20,085</b>
<b>TASK 3 - Agency Coordination and General Support</b>								
3.1 Coordinate with funding agencies	0	0	4	0	4	\$ 1,120		\$1,120
3.2 Perform follow-up activities	1	1	2	1	5	\$ 1,340		\$1,340
<b>SUBTOTAL TASK 3</b>	<b>1</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>9</b>	<b>\$ 2,460</b>	<b>\$ -</b>	<b>\$ 2,460</b>
<b>TASK 9 - Meetings and Project Management</b>								
1.1 Administrative Duties	0	0	12	12	24	\$ 4,920		\$4,920
1.2 Monthly Progress Reports (assume 3 reports)	2	0	6	6	14	\$ 3,110		\$3,110
1.3 Project Progress Meetings (assume 4 meetings)	4	0	8	4	16	\$ 4,060	\$1,000	\$5,060
1.4 Budget and Schedule Management	2	0	12	12	26	\$ 5,570		\$5,570
<b>SUBTOTAL TASK 9</b>	<b>8</b>	<b>0</b>	<b>38</b>	<b>34</b>	<b>80</b>	<b>\$ 17,660</b>	<b>\$1,000</b>	<b>\$18,660</b>
<b>TOTAL</b>	<b>30</b>	<b>14</b>	<b>130</b>	<b>66</b>	<b>240</b>	<b>\$ 59,140</b>	<b>\$ 1,000</b>	<b>\$ 60,140</b>



# Agenda Item

# 11

**Engineering Committee Meeting**

**Meeting Date:** January 12, 2023

**TO:** Engineering Committee  
**FROM:** David Baranowski, Director of Engineering  
**SUBJECT:** Update on the Fiscal Year 2022/2023 Budget

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## Overview

The budget for fiscal year 2022/2023 includes \$16.2 million for capital projects (not including small capital). This represents the amount of money that SOCWA planned to collect from the member agencies to fund capital projects between July 2022 and June 2023. As of the latest financial reports (period ending November 30, 2022), \$3.6 million has been collected. The following provides an updated budget forecast for the remainder of this fiscal year.

## What Happened

There are various reasons for the reduction in capital budget collection. Some of the contributing factors include the departure of the Director of Engineering in January 2022, reduced Engineering staffing, contractor delays due to COVID and supply chain interruptions, project designs taking longer than expected, and staffing needed to support construction already underway. A few projects were budgeted as if they would be constructed this year, but delays in design or bidding will push out the timing of the construction into future years. Additionally, some projects had sufficient cash on hand, which meant new funds were not needed. Furthermore, MNWD will perform the construction of the RTP AWT upgrades. In combination, these factors have greatly reduced the amount of capital SOCWA plans to spend this year.

Staff presented a capital budget summary to the Committee in September 2022. Staff noted in the presentation that the entire budget was unlikely to be collected or spent this year.

## Changes Going Forward

Staff realize that the SOCWA capital budget affects the finances of the member agencies. Staff have updated the list of projects in the capital budget to reflect the current outlook for the remainder of the fiscal year. The following pages include an updated capital budget which shows the original budget for each project, the funds collected for the first three quarters, any funds expected to be collected for the fourth quarter, and the revised total for the fiscal year.

Staff have also prepared a workplan of capital projects for this fiscal year and next included in the following pages. The workplan serves as the basis for the funds to be collected in the fourth quarter and feeds into the budget planning for the next fiscal year.

Staff are in the process of hiring a third engineer. The additional staff member will increase the production of the team and likely the amount of capital spent.

Staff are also making changes to the way budgets are prepared. Staff are aware of the history of inaccurate budgets and plan to be more accurate moving forward. Over the past five years, capital budgets have ranged from \$15 million to \$30 million, which included major construction projects at all three facilities. Staff will refocus their efforts on the planning and design of new projects in the coming months and years. Staff estimate capital budgets will be less than \$10 million in coming years unless major projects at multiple facilities coincide.

### Revised Budget Projection

The collected funds referenced above only include the first two quarters of the fiscal year. The third collection occurred on January 1, 2023. To date, the funds collected are as follows:

- Quarter 1 = \$1.75 million
- Quarter 2 = \$1.33 million
- Quarter 3 = \$0.55 million

The total funds collected for the first three quarters are \$3.63 million. This equates to 22 percent of the overall budget.

Staff forecast they will collect another \$1.3 million of the budget in the fourth quarter of the fiscal year. The revised fiscal year outlook is a \$4.9 million capital budget (excluding small capital), 30 percent of the original budget.

The following pages include a revised capital budget and a revised workplan. The table below summarizes the allocation by member agency. These numbers are only estimates, actual numbers are determined by the Finance Department.

Table 1 – Estimated Capital Budget Allocations by Member Agency (excludes Small Cap)

Member Agency	Original Budget Allocation	Revised Budget Allocation	Funds Collected (Q1 to Q3)	Estimated Funds to be Collected
City of Laguna Beach	\$1,416,888	\$296,509	\$37,971	\$258,538
City of San Clemente	\$33,056	\$6,492	\$6,492	\$0
Emerald Bay Service District	\$109,764	\$22,740	\$2,676	\$20,064
El Toro Water District	\$438,011	\$120,123	\$99,713	\$20,410
Irvine Ranch Water District	\$323,138	\$82,762	\$82,762	\$0
Moulton Niguel Water District	\$8,296,952	\$1,374,618	\$963,931	\$410,687
South Coast Water District	\$2,652,442	\$1,241,461	\$920,067	\$321,395
Santa Margarita Water District	\$2,960,681	\$1,792,653	\$1,521,364	\$271,289
Total	\$16,230,932	\$4,937,357	\$3,634,975	\$1,302,382

Staff plan to share this information with the Finance Committee.

**Recommended Action:** Information Item.

**South Orange County Wastewater Authority**  
**Update to the Large Capital Projects Scheduled for FY 2022-23** (in dollars)

	<b>FY 2022/23 Budget</b>	<b>Collected (QTRs 1 to 3)</b>	<b>4th QTR Estimate</b>	<b>Revised FY 2022/23 Budget</b>	<b>% Collected</b>	<i>Status</i>
<b>PC 02 J B Latham</b>						
<b>Liquids</b>						
3215-000 - Motor Control Center M Replacement Design (2019)	\$ 353,136	\$ -	\$ -	\$ -	0%	Construction delayed, project in design
3220-000 - Facility Improvements B - Basin Upgrades Construction I (201	\$ 1,374,581	\$ 2,274,581	\$ -	\$ 2,274,581	165%	Underway
32212L-000 - Primary Tank Covers Replacements	\$ 300,000	\$ 300,000	\$ -	\$ 300,000	100%	Underway
32226L-000 - Effluent Pump Station Upgrades	\$ 375,000	\$ 93,750	\$ -	\$ 93,750	25%	Design to begin Q1 of FY24
32231L-000 - MCC G Replacement	\$ 377,000	\$ -	\$ -	\$ -	0%	Construction delayed, project in design
32234L-000 - Chlorine Contact Basin Isolation Gates and Structural Rehabi	\$ 165,736	\$ -	\$ 100,000	\$ 100,000	60%	Design to begin Q4
32235L-000 - Effluent PS Electrical Rehabilitation	\$ 250,000	\$ 65,000	\$ -	\$ 65,000	26%	See project 32226L-000
3252-000 - Plant 1 Standby Power Generator Repl (2017)	\$ 502,906	\$ 250,000	\$ -	\$ 250,000	50%	Construction delayed, project in design
3253-000 - Effluent System Valves Replacement (2107)	\$ 100,000	\$ -	\$ -	\$ -	0%	See project 32226L-000
3285-000 - Main Plant Drain Line Reconstruction (2018)	\$ 231,136	\$ -	\$ -	\$ -	0%	Delayed to future year
<b>Total Liquids</b>	<b>\$ 4,029,495</b>	<b>\$ 2,983,331</b>	<b>\$ 100,000</b>	<b>\$ 3,083,331</b>	<b>77%</b>	
<b>Common</b>						
3216-000 - Hoist System for Maintenance Shop (2013)	\$250,000	\$ -	\$ 50,000	\$ 50,000	20%	Construction delayed, project in design
32231C-000 - Process Water Repiping (system full of shells)	\$50,000	\$ -	\$ 50,000	\$ 50,000	100%	Study to begin Q4
32232C-000 - 2337 Administration Building Roof Reconstruction	\$207,000	\$ -	\$ 100,000	\$ 100,000	48%	Preparing to bid in Q3
<b>Total Common</b>	<b>\$ 507,000</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>39%</b>	
<b>Solids</b>						
3222-000 - Centrate System Design (2019)	\$ 12,074	\$ 12,074	\$ -	\$ 12,074	100%	Underway
32225S-000 - JBL Energy Building Upgrades - Solids	\$ 465,000	\$ -	\$ 75,000	\$ 75,000	16%	Construction delayed, project in design
32232S-000 - Buried Digester and Flare Gasline Replacement	\$ 50,000	\$ -	\$ -	\$ -	0%	Delayed to future year
32233S-000 - Scum Line Replacement	\$ 25,000	\$ -	\$ 25,000	\$ 25,000	100%	Design to begin Q3
32234S-000 - JBL Heat exchanger #4 pipe replacement (thinning pipe)	\$ 75,000	\$ -	\$ -	\$ -	0%	Delayed to future year
32235S-000 - Building #65 Roof	\$ 75,000	\$ -	\$ -	\$ -	0%	Included in Package B
32236S-000 - SCR Blower	\$ 100,000	\$ -	\$ 100,000	\$ 100,000	100%	Work to begin Q4 pending coordination with Ops
3234-000 - Centrate Piping Reconstruction (2021)	\$ 300,000	\$ 100,000	\$ -	\$ 100,000	33%	Construction delayed, project in design
<b>Total Solids</b>	<b>\$ 1,102,074</b>	<b>\$ 112,074</b>	<b>\$ 200,000</b>	<b>\$ 312,074</b>	<b>28%</b>	
<b>Total PC 02 J B Latham</b>	<b>\$ 5,638,569</b>	<b>\$ 3,095,405</b>	<b>\$ 500,000</b>	<b>\$ 3,595,405</b>	<b>64%</b>	
<b>PC 05 San Juan Creek Ocean Outfall</b>						
<b>Outfall</b>						
36221O-000 - Surge System Air Valve Replacement	\$ 39,064	\$ 39,064	\$ -	\$ 39,064	100%	Work to begin Q4 pending coordination with Ops
<b>Total Outfall</b>	<b>\$ 39,064</b>	<b>\$ 39,064</b>	<b>\$ -</b>	<b>\$ 39,064</b>	<b>100%</b>	
<b>Total PC 05 San Juan Creek Ocean Outfall</b>	<b>\$ 39,064</b>	<b>\$ 39,064</b>	<b>\$ -</b>	<b>\$ 39,064</b>	<b>100%</b>	
<b>PC 15 Coastal Treatment Plant</b>						
<b>Liquids</b>						
35221L-000 - Auxiliary Blower and Maintenance Building Roofs	\$ 100,000	\$ -	\$ 50,000	\$ 50,000	50%	Preparing to bid in Q3
35228L-000 - Aeration Blower System Upgrades	\$ 1,250,000	\$ -	\$ 50,000	\$ 50,000	4%	Construction delayed, project in design
35229L-000 - Foul Air System	\$ 76,422	\$ -	\$ -	\$ -	0%	Project superseded by 35235L-000
3522AL-000 - Drainage Pump Station	\$ 125,000	\$ 31,250	\$ 93,750	\$ 125,000	100%	Design to begin Q3 (RFP released in Q2)
35235L-000 - Odor Control Scrubber/Foul Air System Reconstruction	\$ 329,000	\$ -	\$ 100,000	\$ 100,000	30%	Study to begin Q3 or Q4
35238L-000 - Relocate influent flow meters	\$ 250,000	\$ 25,000	\$ -	\$ 25,000	10%	Underway, coordinating work with Ops

35239L-000 - CTP west secondary scum skimmers	\$ 300,000	\$ -	\$ 50,000	\$ 50,000	17%	Design to begin Q3 or Q4
3525-000 - Personnel Building Reconstruction (2019)	\$ 308,632	\$ -	\$ 308,632	\$ 308,632	100%	Construction scheduled to begin Q4
3541-000 - Export Sludge System Construction (2020)	\$ 438,870	\$ -	\$ -	\$ -	0%	Sufficient funds already collected
3544-000 - Aeration Upgrade Construction - Part I (2021)	\$ 352,056	\$ -	\$ -	\$ -	0%	Sufficient funds already collected
<b>Total Liquids</b>	<b>\$ 3,529,980</b>	<b>\$ 56,250</b>	<b>\$ 652,382</b>	<b>\$ 708,632</b>	<b>20%</b>	
<b>Total PC 15 Coastal Treatment Plant</b>	<b>\$ 3,529,980</b>	<b>\$ 56,250</b>	<b>\$ 652,382</b>	<b>\$ 708,632</b>	<b>20%</b>	
<b>PC 17 Joint Regional Wastewater Reclamation</b>						
<b>Liquids</b>						
3722AL-000 - MCC A, C, G, H Replacement	\$ 787,352	\$ 30,000	\$ -	\$ 30,000	4%	Construction delayed, project in design
3742-000 - Aeration System Upgrade (2019)	\$ 2,351,036	\$ 2,000	\$ 50,000	\$ 52,000	2%	Study to begin Q4
<b>Total Liquids</b>	<b>\$ 3,138,388</b>	<b>\$ 32,000</b>	<b>\$ 50,000</b>	<b>\$ 82,000</b>	<b>3%</b>	
<b>Common</b>						
37203C-000 - Admin. Bldg. Door and Window Repair	\$ 60,000	\$ -	\$ -	\$ -	0%	Delayed to future year
3744-000 - Admin Building Repair Design (2019)	\$ 2,174	\$ -	\$ -	\$ -	0%	Delayed to future year
3746-000 - Motor Control Center A, G, H Design (2019)	\$ 47,156	\$ 47,156	\$ -	\$ 47,156	100%	Construction delayed, project in design
3748-000 - SE Electrical Manhole Reconstruction (2019)	\$ 121,196	\$ 20,000	\$ -	\$ 20,000	17%	Construction delayed, project in design
<b>Total Common</b>	<b>\$ 230,526</b>	<b>\$ 67,156</b>	<b>\$ -</b>	<b>\$ 67,156</b>	<b>29%</b>	
<b>Solids</b>						
37232S-000 - SCR Blower	\$100,000	\$ -	\$ 100,000	\$ 100,000	100%	Work to begin Q4 pending coordination with Ops
37236S-000 - MCC A, C, G, H Replacement	\$305,876	\$ 10,000	\$ -	\$ 10,000	3%	Construction delayed, project in design
<b>Total Solids</b>	<b>\$ 405,876</b>	<b>\$ 10,000</b>	<b>\$ 100,000</b>	<b>\$ 110,000</b>	<b>27%</b>	
<b>AWT</b>						
3758-000 - AWT No.2 Reconstruction (2020)	\$ 1,919,190	\$ -	\$ -	\$ -	0%	Funds no longer needed, MNWD to manage construction
3759-000 - AWT No.2 Electrical Upgrades (2020)	\$ 234,636	\$ -	\$ -	\$ -	0%	Funds no longer needed, MNWD to manage construction
<b>Total AWT</b>	<b>\$ 2,153,826</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0%</b>	
<b>Total PC 17 Joint Regional Wastewater Reclamation</b>	<b>\$ 5,928,616</b>	<b>\$ 109,156</b>	<b>\$ 150,000</b>	<b>\$ 259,156</b>	<b>4%</b>	
<b>PC 21 Effluent Transmission Main</b>						
<b>Reach B/C/D</b>						
3107-000 - Air Valve Replacement Construction (D) (2021)	\$ 339,776	\$ 100,000	\$ -	\$ 100,000	29%	Construction delayed, project in design
31221B-000 - Trail Bridge Crossing (D)	\$ 156,074	\$ -	\$ -	\$ -	0%	Construction delayed, project in design/planning
<b>Total Reach B/C/D</b>	<b>\$ 495,850</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>20%</b>	
<b>Reach E</b>						
3108-000 - Air Valve Replacement Construction ( E) (2021)	\$ 236,960	\$ 100,000	\$ -	\$ 100,000	42%	Construction delayed, project in design
<b>Total Reach E</b>	<b>\$ 236,960</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>42%</b>	
<b>Total PC 21 Effluent Transmission Main</b>	<b>\$ 732,810</b>	<b>\$ 200,000</b>	<b>\$ -</b>	<b>\$ 200,000</b>	<b>27%</b>	
<b>PC 24 Aliso Creek Ocean Outfall</b>						
<b>Outfall</b>						
34231O-000 - Metering and Sampling	\$ 66,965	\$ -	\$ -	\$ -	0%	Sufficient funds already collected
3480-000 - Internal Seal Replacement (2018)	\$ 60,100	\$ 60,100	\$ -	\$ 60,100	100%	Design underway, construction in Q1 of FY24
<b>Total Outfall</b>	<b>\$ 127,065</b>	<b>\$ 60,100</b>	<b>\$ -</b>	<b>\$ 60,100</b>	<b>47%</b>	
<b>Total PC 24 Aliso Creek Ocean Outfall</b>	<b>\$ 127,065</b>	<b>\$ 60,100</b>	<b>\$ -</b>	<b>\$ 60,100</b>	<b>47%</b>	
<b>FY 2022-23 Total Work Plan</b>	<b>\$ 15,996,104</b>	<b>\$ 3,559,975</b>	<b>\$ 1,302,382</b>	<b>\$ 4,862,357</b>	<b>30%</b>	

**South Orange County Wastewater Authority**

**Update to the Non Capital Projects Scheduled for FY 2022-23 (in dollars)**

	<b>FY 2022/23 Budget</b>	<b>Collected (QTRs 1 to 3)</b>	<b>4th QTR Estimate</b>	<b>Revised FY 2022/23 Budget</b>	<b>% Collected</b>	<i>Status</i>
<b>PC 05 San Juan Creek Ocean Outfall</b>						
<b>Outfall</b>						
462110-000 - Land Outfall Facility Condition Assessment	\$ 52,328	\$ -	\$ -	\$ -	0%	<i>Delayed to future year</i>
462210-000 - Marine Outfall Core Sample and Condition Asses	\$ 90,000	\$ -	\$ -	\$ -	0%	<i>Delayed to future year</i>
<b>Total Outfall</b>	<b>\$ 142,328</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0%</b>	
<b>Total PC 05 San Juan Creek Ocean Outfall</b>	<b>\$ 142,328</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0%</b>	
<b>PC 17 Joint Regional Wastewater Reclamation</b>						
<b>Common</b>						
47224C-000 - Consequence of Failure Analysis	\$ 75,000	\$ 75,000	\$ -	\$ 75,000	100%	<i>Underway</i>
<b>Total Common</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ -</b>	<b>\$ 75,000</b>	<b>100%</b>	
<b>Total PC 17 Joint Regional Wastewater Reclamation</b>	<b>\$ 75,000</b>	<b>\$ 75,000</b>	<b>\$ -</b>	<b>\$ 75,000</b>	<b>100%</b>	
<b>FY 2022-23 Total Work Plan</b>	<b>\$ 217,328</b>	<b>\$ 75,000</b>	<b>\$ -</b>	<b>\$ 75,000</b>	<b>35%</b>	

**South Orange County Wastewater Authority**

**Update to the Non Capital Miscellaneous Projects Scheduled for FY 2022-23 (in dollars)**

	<b>FY 2022/23 Budget</b>	<b>Collected (QTRs 1 to 3)</b>	<b>4th QTR Estimate</b>	<b>Revised FY 2022/23 Budget</b>	<b>% Collected</b>	<i>Status</i>
<b>PC 05 San Juan Creek Ocean Outfall</b>						
<b>Outfall</b>						
562310-000 - DHS Facility Compliance Review	\$ 17,500	\$ -	\$ -	\$ -	0%	<i>Delayed to future year</i>
<b>Total Outfall</b>	<b>\$ 17,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0%</b>	
<b>Total PC 05 San Juan Creek Ocean Outfall</b>	<b>\$ 17,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0%</b>	
<b>FY 2022-23 Total Work Plan</b>	<b>\$ 17,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0%</b>	

SOCWA CIP Workplan

Project Number	Project Name	Revised FY 23 Budget	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>PC 2 - J.B. Latham Treatment Plant</b>											
3220/32212L	Facility Improvements B	\$ 2,574,581	Construction ongoing	C	C	C					
3215/3252/ 32231L	Electrical System Upgrades	\$ 250,000	Design underway	D	D	D	D	B&A	C	C	C
3222/3234	Centrate Piping Reconstruction	\$ 112,074	Design underway	D	D	D	B&A	C	C		
32234L	Chlorine Contact Basin Isolation Gates and Structural Rehabi	\$ 100,000						D	D	B&A	C
32226L/32235L/ 3253	Effluent Pump Station Upgrades	\$ 158,750					D	D	B&A	C	C
32232C	Administration Building Roof Reconstruction	\$ 100,000				B&A	C	C			
32233S	Scum Line Replacement	\$ 25,000					D	B&A	C		
32231C	Process Water Repiping	\$ 50,000					P	P	P	D	D
3216/32225S	Energy Building Upgrades	\$ 125,000				P	D	D	B&A	C	C
<b>PC 5 - San Juan Creek Ocean Outfall</b>											
362210	Surge System Air Valve Replacement	\$ 39,064	Coordinating with Ops			P	C	C			
<b>PC 15 - Coastal Treatment Plant</b>											
3541-000	Export Sludge System Construction (2020)	\$ -	Pipe complete and mitigation work ongoing	ENV	ENV	ENV	ENV	ENV	ENV	ENV	ENV
35228L	Aeration Blower System Upgrades	\$ 50,000	Diffusers purchased and design underway	D	D	B&A	C	C	C	C	
3525	Personnel Building Reconstruction	\$ 308,632	Design underway	D	D	B&A	C	C	C		
35221L	Auxiliary Blower Building Roof	\$ 50,000				B&A	C	C			
3522AL	Drainage Pump Station	\$ 125,000	Design RFP released			D	D	D	D	B&A	C
35238L	Odor Control Scrubber/Foul Air System Reconstruction	\$ 100,000				P	P	P	D	D	B&A
35238L	Relocate Influent Flow Meters	\$ 25,000	Coordinating with Ops		P	P	P				
35239L	West Secondary Scum Skimmers	\$ 50,000				P	D	B&A	C		
<b>PC 17 - Regional Treatment Plant</b>											
3722AL/C/S	MCC A, C, G, H Replacement	\$ 107,156	Design underway	D	D	D	D	D	D	D	D
3758/3759	AWT No.2 Reconstruction (2020)	\$ -	MNWD to manage construction	D	D	D					
47224C	Consequence of Failure Analysis	\$ 75,000	Study underway	P	P	P	P				
3742	Aeration System Upgrades	\$ 52,000					P	P	P		

SOCWA CIP Workplan

Project Number	Project Name	Revised FY 23 Budget	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>PC 21 - Effluent Transmission Main</b>											
3107 (B/C/D)/ 3108 (E)	Air Valve Replacement Construction (D) (2021)	\$ 200,000	Design underway	D	D	D	D	B&A	C	C	
3101/31221B	Trail Bridge Crossing (D)	\$ -	Planning/design underway	P	P	P	P	P			
<b>PC 24 - Aliso Creek Ocean Outfall</b>											
3480	Internal Seal Replacement	\$ 60,100	Design underway	D	D	D	B&A	C	C	C	

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