

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

ENGINEERING COMMITTEE
TELECONFERENCE MEETING**

**October 13, 2022
8:30 a.m.**

Join Zoom Meeting by clicking on the link below:

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<https://socwa.zoom.us/>

Meeting ID: 828 8877 3989
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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 **October 13, 2022**. 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. 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. Approval of Minutes

- Engineering Committee Meeting of August 11, 2022

Recommended Action: Staff recommends the Engineering Committee to approve Minutes as submitted.

4. Operations Report

Recommended Action: Information Item.

5. JB Latham Salt Loading Model [Project Committee 2]

- Carollo Engineers Draft Report (***Under Separate Cover***)

Recommended Action: Information Item.

6. Asset Management Plans for San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) Permit Compliance

Recommended Action: Staff requests Engineering Committee member input orally or through written comments by October 24, 2022.

7. Capital Improvement Construction Projects Progress and Change Order Report (October) [Project Committee Nos. 2, 15 & 17]

Recommended Action: Staff recommends the Engineering Committee approve Olsson Construction Change Orders 61 and 62, including 0 additional days for a total amount of \$156,706.17, and a revised contract value of \$18,373,744.14 for the J.B. Latham Package B Project.

8. JB Latham Treatment Plant Electrical System Upgrades Bidding and Engineering Services 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 \$138,570 for the bidding and ESDC services for the JB Latham Treatment Plant Electrical System Upgrades project.

9. Coastal Treatment Plant (CTP) Export Sludge Force Main Replacement Project Update [Project Committee 15]

Recommended Action: Information Item.

10. Regional Treatment Plant (RTP) AWT No. 2 Upgrades Update [Project Committee 17]

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.

Dated this 6th day of October 2022.



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

Agenda Item

3

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee
FROM: David Baranowski, Director of Engineering
SUBJECT: Approval of Minutes

Overview

Minutes from the following meetings are included for review and approval by the Engineering Committee:

- August 11, 2022

Recommended Action: Staff recommends that the Engineering Committee approve Minutes as submitted.

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

August 11, 2022

DRAFT

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on August 11, 2022, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Zoom Meeting:

DAVID SHISSLER	City of Laguna Beach
DAVE REBENDORF	City of San Clemente [arrived @ 8:40 a.m.]
KEVIN BURTON	Irvine Ranch Water District
MIKE DUNBAR	Emerald Bay Service District [arrived @ 8:36 a.m.]
HANNAH FORD	El Toro Water District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
MARC SERNA	South Coast Water District
LORRIE LAUSTEN	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
DAVID BARANOWSKI	Director of Engineering
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
RONI YOUNG	Associate Engineer
MARY CAREY	Finance Controller
JEANETTE COTINOLA	Procurement / Contracts Manager
DINA ASH	HR Administrator
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law
TARYN KJOLSING	South Coast Water District
CHRIS NEWTON	South Coast Water District
HANNAH BROIDA	City of Laguna Beach
SHERRY WANNINGER	Moulton Niguel Water District
MATT COLLINGS	Moulton Niguel Water District
DAVE LARSEN	Moulton Niguel Water District

1. Call Meeting to Order

Mr. David Baranowski, Director of Engineering, called the meeting to order at 8:32 a.m.

2. Public Comments

None.

3. Approval of Minutes

Mr. Rod Woods, Moulton Niguel Water District stated corrections to the face of the agenda for the April 14, 2022, and May 11, 2022 Minutes. He also noted that Mr. Dave Larsen attended the May 11, and June 9, 2022 meetings and requested he be noted in attendance.

Due to the variance in attendance for each meeting, each set of Minutes are voted on individually.

a. Engineering Committee Meeting of April 14, 2022

ACTION

Motion was made by Mr. Bunts and seconded by Mr. Shissler to approve the Minutes as submitted.

Motion carried:	Aye 5, Nay 0, Abstained 2, Absent 2
Director Shissler	Aye
Director Rebensdorf	Absent
Director Dunbar	Absent
Director Ford	Aye
Director Burton	Abstain
Director Woods	Aye
Director Serna	Aye
Director Bunts	Aye
Director Lausten	Abstain

b. Engineering Committee Meeting of May 11, 2022

ACTION

Motion was made by Mr. Bunts and seconded by Mr. Woods to approve the Minutes as corrected.

Motion carried:	Aye 6, Nay 0, Abstained 2, Absent 1
Director Shissler	Abstain
Director Rebensdorf	Absent
Director Dunbar	Aye
Director Ford	Aye
Director Burton	Aye
Director Woods	Aye
Director Serna	Aye
Director Bunts	Aye
Director Lausten	Abstain

c. Engineering Committee Meeting of June 9, 2022

ACTION

Motion was made by Mr. Woods and seconded by Mr. Bunts to approve the Minutes as corrected.

(continuation of agenda item 3.c.)

Motion carried:	Aye 6, Nay 0, Abstained 3, Absent 0
	Director Shissler Abstain
	Director Rebensdorf Abstain
	Director Dunbar Aye
	Director Ford Aye
	Director Burton Abstain
	Director Woods Aye
	Director Serna Aye
	Director Bunts Aye
	Director Lausten Aye

4. Operations Report

Mr. Burror, Director of Operations gave an update on the break-in at the J.B. Latham Treatment Plant. He noted the offender was apprehended and would be prosecuted for the damages he caused. Mr. Burror also reported there continues to be extended lead times on small capital items due to delays with shipping computer chips. An open discussion ensued.

This was an information item; no action was taken.

5. One (1) Year Contract extension Award to Miles Chemical for Ferric Chloride
[Project Committees No. 15 and 17]

Mr. Burror modified the motion to be approved by the full Board of Directors instead of only PC 15 and PC 17 Board members.

ACTION

Motion was made by Mr. Dunbar and seconded by Mr. Shissler to recommend that the Board of Directors authorize the General Manager to provide a 1-year contract extension to Miles Chemical, Inc. for ferric chloride at a rate of \$975.0 per dry ton for full loads (40,00+ dry tons), \$1095.00 per dry ton for loads of 20,000 to <40,000 dry tons and \$1,216.00 per dry ton for loads of 10,000 to <20,000 dry tons.

Motion carried:	Aye 9, Nay 0, Abstained 0, Absent 0
	Director Shissler Aye
	Director Rebensdorf Aye
	Director Dunbar Aye
	Director Ford Aye
	Director Burton Aye
	Director Woods Aye
	Director Serna Aye
	Director Bunts Aye
	Director Lausten Aye

6. Use Audit Flow and Solids Methodology – Annual Update FY 2021-22

Ms. Amber Baylor, Director of Environmental Compliance reported that the Use Audit flow allocation methodology has relied on historical practice for allocation of costs. The intent of this agenda item is to review the methodology per Project Committee (PC) and provide comments, and approval for use in the annual Use Audit for FY 2021-22. She noted that any additional changes from the Engineering Committee would be incorporated to the FY 2021-22 Use Audit prior to taking to the Board in September for consideration of approval. An open discussion ensued.

There was consensus of the Engineering Committee to review the content data of the Use Audit Flows and Solids Methodology and submit comments if any to Ms. Baylor in time for Board discussion and consideration at the upcoming September Board.

7. Capital improvement Construction Projects Progress and Change Order Report (August) [Project Committee 2, 15, and 17]

Mr. Baranowski introduced changes to the progress report layout. An open discussion ensued.

ACTION TAKEN by PC 2

Motion was made by Mr. Woods and seconded by Mr. Bunts to approve Olsson Construction Change Orders No. 58 thru 60 for a total of \$49,080.37 with no additional days, and a revised contract value of 18,217,037.97 for the J.B. Latham Package B Project.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 0
	Director Woods Aye
	Director Serna Aye
	Director Bunts Aye

ACTION TAKEN by PC 17

Motion was made by Mr. Woods and seconded by Mr. Dunbar to recommend that the PC 17 Board of Directors approve JR Filanc Change Orders No. 1 thru 3 for a total of \$65,337.02 with no additional days, and a revised contract value of 1,812,531.02 for the RTP Aeration Diffuser Project.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	Director Shissler Aye
	Director Dunbar Aye
	Director Ford Aye
	Director Woods Aye
	Director Serna Aye

8. Coastal Treatment Plant Consequence of Failure Analysis Final Report [Project Committee 15]

Mr. Baranowski gave a PowerPoint presentation providing a summary and findings on the Coastal Treatment Plant Consequence of Failure Analysis (CoFA) for the Coast Treatment Plant. An open discussion ensued.

This was an information item; no action was taken.

9. NPDES Asset Management Plans Update

Ms. Baylor updated the Committee on the NPDES Asset Management Plan (AMP) for the San Juan Creek Ocean Outfall and the Aliso Creek Ocean Outfall requested by the San Diego Regional Water Quality Control Board. She commented on the preliminary timeline for completion and stated that she would be reaching out to the Member Agency's requesting information and assistance for preparation of the AMP. An open discussion ensued.

There was consensus of the Engineering Committee to allow more time to review the content data of the NPDES Asset Management data and bring back to the Engineering Committee in September for discussion and consideration.

Adjournment

There being no further business, Mr. Baranowski adjourned the meeting at 9:50 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 Engineering Committee of August 11, 2022 and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

4

Engineering Committee Meeting

Meeting Date: October 13, 2022

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

Overview

Verbal update on operations and maintenance activities.

Recommended Action: Information Item.

Agenda Item

5

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee

FROM: Amber Baylor, Director of Environmental Compliance

SUBJECT: JB Latham Salt Loading Model [Project Committee No. 2]

Background

Biologically mediated carbon and nitrogen removal is essential to meet NPDES permit R9-2022-0005, issued by the San Diego Regional Water Quality Control Board (SDRWQCB)¹. Discharge compliance requirements are included in Ocean dischargers are also subject to requirements in the California Ocean Plan², specifically not to exceed 2 parts per thousand above natural background to maintain a buoyant discharge plume.

There is published literature indicating that wastewater with high salinity disrupts metabolic functioning in bacteria and reduces the ability to removal carbonaceous and nitrogenous loading into the treatment plant. SOCWA is concerned about the ability to meet permit requirements for the JB Latham Facility (discharge M-001A), contained in Table E-3 of section 4.2.2 of the NPDES permit, and requirements for percent removals across the facility for discharge.

Discussion

The work performed by Carollo Engineers was to determine the safe operating envelope of salt loading to Plant 1, Plant 2, and the combined discharge of the JB Latham treatment facility to be compliant with the NPDES and Ocean Plan requirements.

Staff will discuss the draft model results for flows and loads for the following current and future projects:

1. Plant 1: Lake Mission Viejo flow and loading data to be included in the model.
2. Plant 1: Mission Viejo Country Club flow and projected loading into the model.
3. Plant 1: El Niguel Country Club flow and projected loading into the model.
4. Plant 2: Dana Point Harbor revitalization dewatering flow and projected loading into the model.

The draft report from Carollo Engineers will be distributed ***under separate cover***.

Recommended Action: Information Item.

¹ SOCWA R9-2022-0005 NPDES Permit: <https://www.socwa.com/environment/permits/>

² California Ocean Plan: https://www.waterboards.ca.gov/water_issues/programs/ocean/docs/oceanplan2019.pdf

Agenda Item

6

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee

FROM: Amber Baylor, Director of Environmental Compliance

SUBJECT: Asset Management Plans for San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) Permit Compliance

Background

The San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) NPDES permits require that SOCWA provide an Asset Management Plan (AMP) for each outfall system. There are ten discharge facilities on the SJCOO and eight discharge facilities on the ACOO. The SJCOO and ACOO AMPs are due to the San Diego Regional Water Quality Control Board (SDRWQCB) 180 days after the adoption of the NPDES permits.

The SDRWQCB staff indicated that one AMP per outfall would satisfy the permit requirements. The AMP requirements are listed in both the ACOO and SJCOO NPDES Permit Section 6.3.5.7. The SDRWQCB provided the U.S. EPA's AMP¹ guidelines and a copy of the Orange County Sanitation District's (OCSd) AMP² as guidelines for compliance. Justification for the AMP by the SDRWQCB is provided through 40 CFR section 122.41(e), which states: "The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also include adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit."

The AMP documents are due to the SDRWQCB on October 28, 2022.

Advisory Committee Reviews

SOCWA staff prepared an outline, excel templates, and draft AMP documents for each member agency to review, comment, and respond to the compliance requirements. SOCWA presented the AMP outlines and draft AMPs to the Engineering Committee on August 11, 2022, and September 8, 2022, respectively, for discussion and consultation. Agencies provided various

¹ U.S. Environmental Protection Agency March 6, 2017. Asset Management Programs for Stormwater and Wastewater Systems: Overcoming Barriers to Development and Implementation. EPA Contract No. EP-C-14-003. Prepared by PG Environmental.. <https://www.epa.gov/sustainable-water-infrastructure/asset-management-programs-stormwater-and-wastewater-systems>

² Orange County Sanitation District. 2021 Asset Management Plan. <https://www.ocsan.gov/Home/Components/News/News/4656/270?npage=9>

forms of responses related to the request for information which included both narrative and numerical information. Staff met individually with agencies where schedules would allow and received additional comments through email communication which were incorporated in the revised draft AMPs.

The link to the revised draft AMPs will be provided ***under separate cover*** for final review and comment by the Engineering Committee. Final comments are due back to SOCWA staff by October 24, 2022, for SOCWA staff to submit within the compliance deadline of October 28, 2022.

Recommended Action: Staff requests Engineering Committee member input orally or through written comments by October 24, 2022.

Agenda Item

7

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee

FROM: David Baranowski, Director of Engineering

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

Overview

Active Construction Project Updates:

Attached are the updated CIP reports. Please note that there are two new change orders for Olsson Construction for PC 2 J.B. Latham Package B project totaling \$156,706.17.

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 61 for \$9,971.62, including 0 additional day(s)
- Change Order 62 for \$146,734.55, including 0 additional day(s)

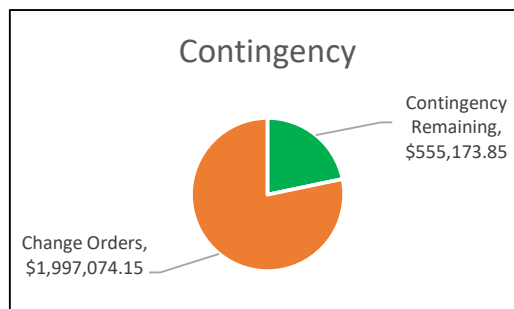
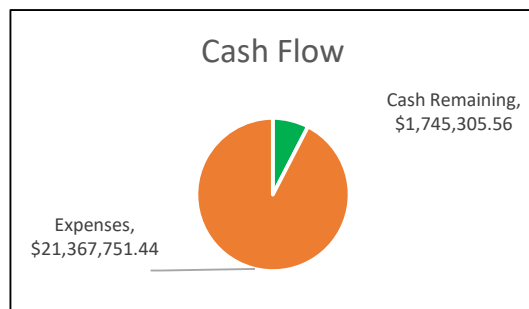
For a total of \$156,706.17, with no additional days, and a revised contract value of \$18,373,744.14 for the J.B. Latham Package B Project.

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

October 3, 2022



Cash Flow

Collected	\$ 23,113,057.00
Expenses	\$ 21,367,751.44

Project Completion

Schedule	93%
Budget	90%

Contracts

Company	PO No.	Original	Change Orders*	Amendments	Total	Invoiced
Olsson	13497	\$ 17,325,000.00	\$ 1,048,744.14		\$ 18,373,744.14	\$ 16,971,079.50
Butier	13647	\$ 895,727.00		\$ 1,005,251.00	\$ 1,900,978.00	\$ 1,685,469.50
Carollo	13616	\$ 846,528.00		\$ 616,037.00	\$ 1,462,565.00	\$ 1,239,428.36
TetraTech	13605	\$ 94,000.00		\$ -	\$ 94,000.00	\$ 93,884.70
Ninyo & Moore	14279	\$ 49,399.00		\$ 30,000.00	\$ 79,399.00	\$ 43,478.27
ADS Environmental	16452	\$ 107,200.00	\$ -		\$ 107,200.00	\$ 46,125.00
Hallsten	16578	\$ 251,422.00	\$ 16,715.25		\$ 268,137.25	\$ -
Dudek	17401	\$ 48,360.00		\$ -	\$ 48,360.00	\$ 30,070.00
		\$ 19,617,636.00	\$ 1,065,459.39	\$ 1,651,288.00	\$ 22,334,383.39	\$ 20,109,535.33

*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	\$ 816,226.27	\$ 153,452.73	84.2%
Common	3231-000	\$ 38,120.00	\$ 3,305.76	\$ 34,814.24	8.7%
Solids	3287-000	\$ 1,544,449.00	\$ 1,177,542.12	\$ 366,906.88	76.2%
		\$ 2,552,248.00	\$ 1,997,074.15	\$ 555,173.85	78.2%

** Amount reflects contingency for Construction Contracts only

Summary of New Change Orders

Change Order No	CSJC	MNWD	SCWD	SMWD	\$ Amount
61	\$ 2,991.49	\$ 2,156.03	\$ 1,994.32	\$ 2,829.78	\$ 9,971.62
62	\$ 45,149.09	\$ 33,861.82	\$ 42,327.27	\$ 25,396.36	\$ 146,734.55
Grand Total	\$ 48,140.58	\$ 36,017.85	\$ 44,321.60	\$ 28,226.15	\$ 156,706.17

Change Orders and Amendments

Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
Within Contingency, to be reviewed by Engineering Committee						\$ 156,706.17
61	Olsson	3287-000	Digester hatch connection, temperature guage adjustment, and potholing	10/13/2022		\$ 9,971.62
62	Olsson	3220-000	Plant 1 Primary and Secondary Basins crack injection, concrete repair, channel cleaning, solids removal	10/13/2022		\$ 146,734.55
Approved by Board of Directors					191	\$ 2,560,041.22
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
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

<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>
1CM Solids	Butier	3287-000	CM Change Order No. 1	7/13/2021		\$ 269,595.00
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
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
Potential Change						\$ 280,706.50
PCO 002	Olsson	3287-000	Digester 4 Rail Coating	(blank)		\$ (1,000.00)

<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>
PCO 004	Olsson	3287-000	Digester 4 Control Narrative	(blank)		\$ 5,000.00
PCO 005	Olsson	3287-000	TWAS Slab Modifications	(blank)		\$ 50,000.00
PCO 009	Olsson	3287-000	PLC East Headworks Integration	(blank)		\$ 10,000.00
PCO 039	Olsson	3220-000	Diversion Structure Gate Actuator Power Feed Replacement	8/13/2020		\$ 5,000.00
PCO 050	Olsson	3220-000	Telescoping Valves Rework	12/23/2020		\$ 27,884.00
PCO 092	Olsson	3287-000	Hot Water System Expansion Tank	8/31/2021		\$ 5,000.00
PCO 094	Olsson	3287-000	Additional Red Coloring Agent to Concrete	9/1/2021		\$ 5,000.00
PCO 095	Olsson	3287-000	Foul Air Rerouting at DAFT 2	9/2/2021		\$ 5,000.00
PCO 098	Olsson	3220-000	Plant 1 Bypass pumping Change	10/12/2021		\$ 74,226.27
PCO 113	Olsson	3287-000	Field Wiring Solenoid Valve for DAFT 2 Pressurization System	3/15/2022		\$ 25,061.07
PCO 120	Olsson	3287-000	DAFT Grout Removal and Replacement Credit	8/17/2022		\$ (10,295.53)
PCO 121	Olsson	3287-000	DAFT 1 Additional Repair	10/4/2022		\$ 68,020.07
PCO 126	Olsson	3287-000	Additional epoxy coating removal in the Boiler Room	9/27/2022		\$ 6,310.62

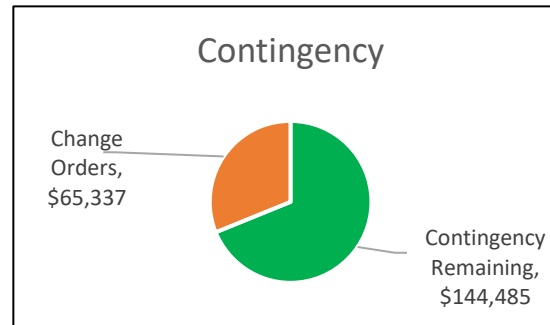
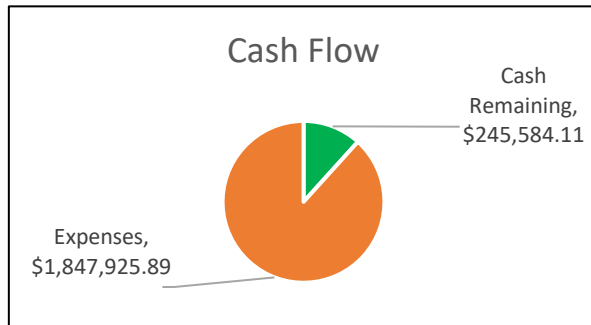
<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 138	Olsson	3287-000	Boiler room interlock with the supply fan and removing louver installation	(blank)		\$ 5,500.00
Grand Total					191	\$ 2,997,453.89

Project Financial Status

Project Committee	17
Project Name	Aeration Diffuser Replacements
Project Description	Replacing panel diffusers with disc diffusers in all six aeration basins. Includes replacement of drop pipes and air distribution piping inside the basins.

Data Last Updated

October 3, 2022



Cash Flow

Collected	\$ 2,093,510.00
Expenses	\$ 1,847,925.89

Project Completion

Schedule	100%
Budget	99%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Invoiced
Filanc	16306	\$ 1,747,194.00	\$ 65,337.02		\$ 1,812,531.02	\$ 1,812,531.02
Lee & Ro	16119	\$ 37,738.00		\$ -	\$ 37,738.00	\$ 17,551.47
					\$ -	\$ -
		\$ 1,784,932.00	\$ 65,337.02	\$ -	\$ 1,850,269.02	\$ 1,830,082.49

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

Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3753-000	\$ 209,822.00	\$ 65,337.02	\$ 144,484.98	31.1%
		\$ 209,822.00	\$ 65,337.02	\$ 144,484.98	31.1%

Change Orders

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Amount</u>	<u>Days</u>
Approved by Board of Directors					\$ 65,337.02	234
01	Filanc	3753-000	Corroded Grating Angle Replacement	9/1/2022	\$ 5,748.01	0
02	Filanc	3753-000	Diffuser Support Modifications (Supply Chain Issue)	9/1/2022	\$ 21,437.52	0
03	Filanc	3753-000	Air Header Insulation	9/1/2022	\$ 38,151.49	0
04	Filanc	3753-000	Diffuser Delivery Time Extension	10/6/2022	\$ -	234
Grand Total					\$ 65,337.02	234

Agenda Item

8

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee

FROM: Roni Young Grant, Associate Engineer

SUBJECT: J.B. Latham Treatment Plant Electrical System Upgrades Bidding and Engineering Service during Construction [Project Committee 2]

Overview

Hazen and Sawyer (Hazen), the design engineering firm for the Electrical System Upgrades project, has wrapped up the design for the J.B. Latham Treatment Plant Electrical Evaluation System which includes the replacement of MCC-M, MCC-G, and the Plant 1 Generator. The project is expected to go to bid in December of this year.

Hazen submitted the attached proposals to provide engineering support during bidding and construction (ESDC). The bidding services proposed fee is \$14,170 and includes the following scope:

- Respond to RFIs, issue addendum and pre-bid site walk.

The construction services fee is \$124,400 and includes the following scope:

- Project management during construction
- Inspection visits
- Project meetings and site visits
- Submittal reviews
- RFI responses
- Change order reviews
- Record drawing preparation

The combined total of the two proposals is \$138,570. Table 1 shows the project allocation and Table 2 shows the allocation by member agency.

Table 1 – Project Allocation

Project	Bidding Services	ESDC Services	Total
PC 2, Task 3252-000, Electrical System Upgrades and Plant 1 Generator Replacement	\$14,170	\$124,400	\$138,570

Table 2 – Allocation by Member Agency

Member Agency	PC2, Task 3252-000
Moulton Niguel Water District	\$31,978
South Coast Water District	\$39,972
Santa Margarita Water District	\$66,620
Total	\$138,570

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 \$138,570 for the bidding and ESDC services for the JB Latham Treatment Plant Electrical System Upgrades project.



Hazen and Sawyer
7700 Irvine Center Drive, Suite 200
Irvine, CA 92618 • 949.557.8549

September 27, 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 Services

Dear Ms. Roni Young:

SOCWA has requested that Hazen provide bidding services for the J.B. Latham Treatment Plant MCC-M and MCC-G Replacement Project. Attached is the 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.

Very truly yours,

A handwritten signature in black ink, appearing to read "Alan Mlakar", followed by a long horizontal line extending to the right.

Alan Mlakar, PE
Project Manager

Enclosure

Scope of Work – Bidding Services

Task 1 RFI's

Hazen will respond to up to 10 requests for information during bidding at an average of 4 hours each. This task also assumes 1 addendum.

Task 2 Pre-Bid Site Walk

Hazen will attend a pre-bid site walk.

Compensation

Hazen proposes to complete the scope on a time and expense basis for a not to exceed amount of \$14,170.

TASK		SA	A	AE	Total	
Hourly Rate =		\$280	\$230	\$160	Hours	Labor
Bidding						
	Task 1 - RFI's (10 assumed)	10	15	15	40	\$ 8,650
	Task 1 - Addendum (1 assumed)	2	8	8	18	\$ 3,680
	Task 2 - Pre-Bid Site Walk		8		8	\$ 1,840
	Total	12	31	23	66	\$ 14,170

Hazen and Sawyer Labor Classifications

SA- Senior Associate
A - Associate
AE - Assistant Engineer
CAD - CAD Designer

Labor Total	\$ 14,170
Other Direct Costs	
Total (Labor + ODCs)	\$ 14,170



Hazen and Sawyer
7700 Irvine Center Drive, Suite 200
Irvine, CA 92618 • 949.557.8549

September 12, 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 Engineering Services During Construction

Dear Ms. Roni Young:

SOCWA has requested that Hazen provide engineering services during construction for the J.B. Latham Treatment Plant MCC-M and MCC-G Replacement Project. Attached is the 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.

Very truly yours,

A handwritten signature in black ink, appearing to read "Alan Mlakar", followed by a long horizontal line extending to the right.

Alan Mlakar, PE
Project Manager

Enclosure

Scope of Work

Engineering Services During Construction

Task 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.

Task 2 Inspection Visits

Hazen will provide up to 4 inspections at 6 hours each.

Task 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.

Task 4 Submittal Reviews

Hazen will review up to 20 submittals and 10 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.

Task 5 RFI Responses

Hazen will respond to up to 10 requests for information at an average of 6 hours each.

Task 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.

Task 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 28. 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 \$124,400.

**South Orange County Wastewater Authority
J. B. Latham Treatment Plant
MCC-M and MCC-G Replacement Project Engineering Services During Construction
September 12, 2022**

TASK		SA	A	AE	Total Hours	Labor
Hourly Rate =		\$280	\$230	\$160		
ESDC						
	Task 1 - Project Management During Construction	48	60		108	\$ 27,240
	Task 2 - Inspection Visits (4 assumed)		24		24	\$ 5,520
	Task 3 - Project Meetings and Site Visits (18 assumed)	32	52	24	108	\$ 24,760
	Task 4 - Submittal Reviews (20 submittals and 10 resubmittals assumed)	18	54	108	180	\$ 34,740
	Task 5 - RFI Responses (10 assumed)	7	24	29	60	\$ 12,120
	Task 6 - Change Order Reviews (2 assumed)	8	8		16	\$ 4,080
	Task 7 - Record Drawing Preparation	12	8	64	84	\$ 15,440
Total		125	230	225	580	\$ 123,900

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

Labor Total	\$ 123,900
Other Direct Costs	\$ 500
Total (Labor + ODCs)	\$ 124,400

Agenda Item

9

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee

FROM: David Baranowski, Director of Engineering

SUBJECT: Coastal Treatment Plant (CTP) Export Sludge Force Main Replacement Project Update [Project Committee 15]

Overview

The new Export Sludge Force Main began operation in November 2021 and the construction project was completed in early 2022. Staff will provide updates on the following:

- Sludge pumping performance
- Restoration of construction impacts (hydroseeding)
- Progress of environmental mitigation

Recommended Action: Information Item.

Agenda Item

10

Engineering Committee Meeting

Meeting Date: October 13, 2022

TO: Engineering Committee

FROM: David Baranowski, Director of Engineering

SUBJECT: Regional Treatment Plant AWT No. 2 Upgrades Update
[Project Committee No 17]

Overview

The AWT No. 2 Reconstruction project was restarted earlier this year. In May, Carollo Engineers prepared a memorandum explaining changes to the previous design scope based on repairs already made by staff. In August, the Board approved a contract for Carollo Engineers to update the design and prepare bid documents.

Carollo Engineers has finished updating the design and SOCWA staff are in the process of reviewing the documents. The design files are provided for your review, if desired. Links to the technical specifications and drawing set are below. Please contact David Baranowski (dbaranowski@socwa.com) with any comments, questions, issues accessing the documents, or to set up a meeting to discuss. The deadline for comments is October 20th.

Technical Specifications Link: [10b RTPAdvWaterTreatmentFilter2Rehab_Vol1of2_FRS.pdf](#)
Drawing Set Link: [10c RTPAdvWaterTreatmentFilter2Rehab_Vol2of2_FRS.pdf](#)

Recommended Action: Information Item.