

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

ENGINEERING COMMITTEE
TELECONFERENCE MEETING**

**June 10, 2021
8:30 a.m.**

Join Zoom Meeting by clicking on the link below:

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

Meeting ID: 861 1915 6873

Passcode: 403981

One tap mobile

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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 **June 10, 2021** at **8:30 a.m.** SOCWA staff will be present and conducting the call at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California. This meeting is being conducted via Teleconference pursuant to the California Governor Executive Order N-29-20.

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 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 EXHIBITS 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"). 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 April 8, 2021

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

4. Operations Report

Recommended Action: Information Item

5. Capital Improvement Construction Projects Report

Recommended Action: Staff recommends that the Engineering Committee recommend to the PC-15 Board of Directors to approve Change Orders 25 and 26 for \$4,210 for the CTP Facility Improvements project.

6. J.B. Latham Treatment Plant Package B Solids Contingency

Recommended Action: Staff recommends that the Engineering Committee recommend to the PC-2 Board of Directors to approve the addition of \$985,000 of contingency to the J.B. Latham Package B Solids Project (3287-000) for a total Solids contingency of \$1,657,400.

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 June 2021.



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

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

DRAFT

April 8, 2021

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on April 8, 2021, 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 Teams Meeting:

HANNAH JOHNSON	City of Laguna Beach
MIKE MARQUIS	City of San Juan Capistrano
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District [arrived @ 8:41 a.m.]
MARC SERNA	South Coast Water District

Absent:

DAVE REBENS DORF	City of San Clemente
KEVIN BURTON	Irvine Ranch Water District
LORRIE LAUSTEN	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
JIM BURROR	Director of Operations
DANIEL VASQUEZ	Chief Maintenance Mechanic
JEANETTE COTINOLA	Procurement/Contracts Administrator
MATT CLARKE	IT Administrator
GAGE GESIRIECH	Maintenance Supervisor
DANITA HIRSH	Executive Assistant

Also Present:

BRYAN LISK	Hazen and Sawyer
ALAN MLAKAR	Hazen and Sawyer
CHRIS THUNHORST	Hazen and Sawyer
TARYN KJOLSING	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
JESUS GARIBAY	Moulton Niguel Water District
SHERRY WANNINGER	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District

1. Call Meeting to Order

Mr. Manning, Director of Engineering called the meeting to order at 8:34 a.m.

2. Public Comments

None

3. Approval of Minutes

a. Engineering Committee Meeting of March 11, 2021

ACTION TAKEN

Motion was made by Mr. Dunbar seconded by Mr. Serna to approve the Engineering Committee Minutes of March 11, 2021 with noted correction to the Minutes.

Motion Carried:	Aye 6, Nay 0, Abstained 0, Absent 4
	Hanna Johnson (CLB) Aye
	Dave Rebensdorf (CSC) Absent
	Mike Marquis (CSJC) Aye
	Mike Dunbar (EBSD) Aye
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Absent
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Absent
	Lorrie Lausten (TCWD) Absent

4. Operations Status Report

Mr. Burror reported on the notice from the Governor's office regarding reopening the state on June 15, 2021, stating mask mandates will continue while essential businesses remain open. Mr. Burror also stated supply of goods and services continue to be difficult due to long delays in deliverables, noting most of the forecasts should stabilize towards the end of summer or beginning of fall when supply chains get back to some form of normalcy. Mr. Burror also reported staff is reviewing and preparing budgets, noting budget updates are going to the Finance Committee meeting on the 20th, and the O&M budget at this point is under budget. An open discussion ensued.

This was an information item; no action was taken.

5. Capital Improvement Construction Projects Report

Ms. Young reported Olson is wrapping up the work at Secodary Basins 4 and 5, and is also in the process of demolition of DAFT No. 2. She stated there ae two change orders for consideration. Change Order No. 17 is for the modification to MCC-D1 due to change in motor size in DAFTs 1 and 2 in the amount of \$34,392; and Change Order No. 18 is due to an additional visit to manually verify programming and start-up of Digester 4 in the amount of \$7,572. An open discussion ensued.

Mr. Manning stated there were no change orders to report on the San Juan Creek Ocean Outfall project. He stated the project is completed and he will be showing photos on the status update on Agenda Item 7.

Mr. Baranowski reported on the status of the Coastal Treatment Plant Improvements and the Export Sludge Forcemain Replacement Projects. He noted there are no change orders to report. An open discussion ensued.

Mr. Manning reported on the status of the Regional Treatment Plant Improvements Project. He stated there are nine change orders for consideration, Change Orders 21 through 29, totaling \$72,585.84. He described each of the change orders. An open discussion ensued.

ACTION TAKEN

The PC 2 and PC 17 Engineering Committee members consented to forwarding change orders to the full Board for consideration of approval.

6. J.B. Latham Treatment Plant Utility Configuration Evaluation [Project Committee 2]

Ms. Young provided background information stating the scope is part of the MCC Condition Assessment and Design project that was added to explore potential cost savings and to utilize more power to the facility by combining three utility services. She also stated that based on the evaluation there is an estimated potential savings of \$5-6 thousand dollars on utility bills per month. Ms. Young introduced Mr. Bryan Lisk of Hazen and Sawyer who gave a presentation on the technical aspects of the JBLTP – Electrical System Evaluation Project. An open discussion ensued.

This was an information item; no action was taken.

7. San Juan Creek Ocean Outfall Junction Structure Construction Update

Mr. Manning gave a verbal report on the San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project. He provided a PowerPoint presentation of photos of the progress of the project. An open discussion ensued.

This was an information item; no action was taken.

8. J.B. Latham Treatment Plant Package B Construction Update [Project Committee 2]

Ms. Young gave a presentation on the construction status, project schedule and budget update. An open discussion ensued.

This was an information item; no action was taken.

9. SOCWA Engineering Capital Improvements Updated Draft Budget

Mr. Manning reported that there were some minor adjustments made to the budget that was present in March and will be presented to the Finance Committee on April 20. He stated once the Finance Department completes the final version of the budget, he will forward to the Engineering Committee for review prior to the Finance Committee meeting.

This was an information item; no action was taken.

Adjournment

There being no further business, Mr. Manning adjourned the meeting at 10:08 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of April 8, 2021 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

5

Engineering Committee Meeting

Meeting Date: June 10, 2021

TO: Engineering Committee
FROM: Jason Manning, Director of Engineering
SUBJECT: Capital Improvement Construction Projects Report

Overview

Active Construction Project Updates:

Attached are the updated CIP reports. Please note that there are two new change orders for PC 15 Coastal Treatment Plant Facility Improvements project totaling \$4,210.

As a reminder, change orders within the General Manager's purchasing authority (less than \$50,000) and within the project contingency will be presented in this report and then to the Board of Directors. This is in accordance with the current purchasing policy, the change order procedure update provided to Engineering Committee in November 2019 and the contingencies approved by the Board in December 2019.

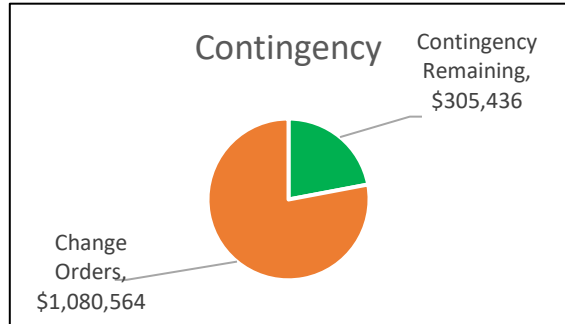
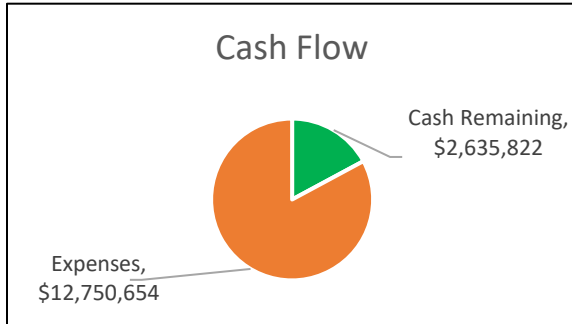
Recommended Action: Staff recommends that the Engineering Committee recommend to the PC-15 Board of Directors to approve Change Orders 25 and 26 for \$4,210 for the CTP Facility Improvements project.

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

May 25, 2021



Cash Flow

Collected	\$15,386,476
Expenses	\$12,750,654

Project

Completion

Schedule	73%
Budget	57%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Olsson	13497	\$ 17,325,000	\$ 562,791	\$ 17,887,791	\$ 9,766,232
Butier	13647	\$ 895,727	\$ 290,156	\$ 1,185,883	\$ 895,727
Carollo	13616	\$ 846,528	\$ 227,617	\$ 1,074,145	\$ 810,533
TetraTech	13605	\$ 94,000	\$ -	\$ 94,000	\$ 81,837
		\$ 19,161,255	\$ 1,080,564	\$ 20,241,819	\$11,554,329

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 616,800	\$ 383,825	\$ 232,975	62.2%
Common	3231-000	\$ 96,800	\$ 41,412	\$ 55,388	42.8%
Solids	3287-000	\$ 672,400	\$ 655,327	\$ 17,073	97.5%
		\$ 1,386,000	\$ 1,080,564	\$ 305,436	78.0%

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	Approved by Board of Directors	12/12/2019		\$ 4,725
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	Approved by Board of Directors	6/4/2020		\$ 6,343
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	Approved by Board of Directors	6/4/2020		\$ 37,970
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	Approved by Board of Directors	6/4/2020		\$ 24,002
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	Approved by Board of Directors	8/6/2020		\$ 16,370
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	Approved by Board of Directors	8/6/2020		\$ 41,994
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	Approved by Board of Directors	8/6/2020		\$ 7,413
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	Approved by Board of Directors	8/6/2020		\$ (1,829)

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	Approved by Board of Directors	8/6/2020		\$ 18,678
10	Olsson	3287-000	Duct bank J Interferences	Approved by Board of Directors	12/17/2020		\$ 73,639
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	Approved by Board of Directors	12/17/2020		\$ 20,869
12	Olsson	3220-000	Duct bank K Interferences	Approved by Board of Directors	12/17/2020		\$ 15,567
13	Olsson	3287-000	Digester 3/4 PLC Relocation	Approved by Board of Directors	12/17/2020		\$ 41,368
14	Olsson	3287-000	Digester 4 Additional Tank Repair	Approved by Board of Directors	12/17/2020		\$ 34,800
15	Olsson	3220-000	Duct bank O Interferences	Approved by Board of Directors	12/17/2020		\$ 1,687
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	Approved by Board of Directors	2/4/2021		\$ 42,780

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
17	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	Approved by Board of Directors	5/6/2021		\$ 34,392
18	Olsson	3287-000	Integrator Additional Site Visits	Approved by Board of Directors	5/6/2021		\$ 7,572
19	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	Approved by Board of Directors	6/3/2021		\$ 29,417
20	Olsson	3220-000	Overhead Walkway Removal at Plant 1 Secondary Basins 5 through 9	Approved by Board of Directors	6/3/2021		\$ 62,114
21	Olsson	3287-000	Cogeneration PLC Modifications and Integration	Approved by Board of Directors	6/3/2021		\$ 42,923
1CM Common	Butier	3231-000	CM Change Order No. 1	Approved by Board of Directors	6/3/2021		\$ 23,202
1CM Liquids	Butier	3220-000	CM Change Order No. 1	Approved by Board of Directors	6/3/2021		\$ 139,285
1CM Solids	Butier	3287-000	CM Change Order No. 1	Approved by Board of Directors	6/3/2021		\$ 127,669
1ESDC Common	Carollo	3231-000	ESDC Change Order No. 1	Approved by Board of Directors	6/3/2021		\$ 18,210

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 1	Approved by Board of Directors	6/3/2021		\$ 109,256
1ESDC Solids	Carollo	3287-000	ESDC Change Order No. 1	Approved by Board of Directors	6/3/2021		\$ 100,151
PCO 002	Olsson	3287-000	Digester 4 Rail Coating. The coating is not needed and resulting in a credit but some rehabilitation work will be needed.	Potential Change	(blank)	-\$1,000	
PCO 004	Olsson	3287-000	Digester 4 Control Narrative needed	Potential Change	(blank)	\$5,000	
PCO 005	Olsson	3287-000	TWAS Slab Modifications	Potential Change	(blank)	\$50,000	
PCO 008	Olsson	3287-000	Conduit Routing Conflict from MCC-F1 and Relocation of MCC-F1	Potential Change	(blank)	\$350,000	
PCO 009	Olsson	3287-000	PLC East Headworks Integration	Potential Change	(blank)	\$10,000	
PCO 012	Olsson	3287-000	PCL-CG Integration	Potential Change	(blank)	\$5,000	
PCO 014	Olsson	3287-000	Digester 4 Compressor Supply Line	Potential Change	(blank)	\$18,146	
PCO 018	Olsson	3287-000	Duct bank L Interferences	Potential Change	(blank)	\$10,000	

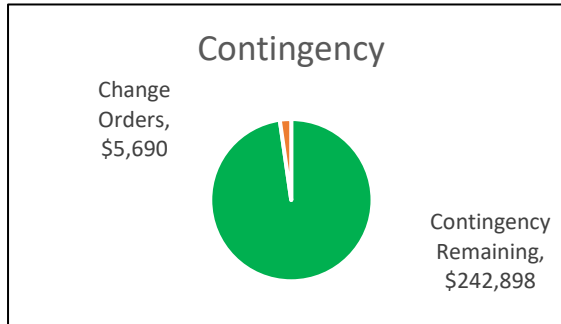
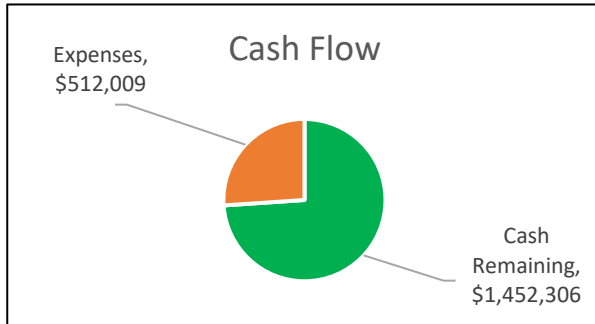
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 026	Olsson	3287-000	Gas Hatch Lids Mating Connection	Potential Change	(blank)	\$7,771	
PCO 028	Olsson	3287-000	4" Gas Line Routing Modifications	Potential Change	(blank)	\$18,147	
PCO 032	Olsson	3287-000	Gas Mixer Conduit Conflict	Potential Change	(blank)	\$12,384	
PCO 037	Olsson	3231-000	Energy Building Monorail and Other Conflicts	Potential Change	12/10/2020	\$10,000	
PCO 039	Olsson	3220-000	Diversion Structure Gate Actuator Power Feed Replacement	Potential Change	8/13/2020	\$5,000	
PCO 050	Olsson	3220-000	Telescoping Valves Rework	Potential Change	12/23/2020	\$27,884	
PCO 43	Olsson	3220-000	Telescoping Valve Pipe Support	Potential Change	(blank)	\$3,754	
PCO 46	Olsson	3220-000	UV Protected Wear Strips	Potential Change	(blank)	\$29,545	
PCO 66	Olsson	3287-000	DAFT 1 and 2 Repairs	Potential Change	(blank)	\$300,000	
PCO 98	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	Potential Change	(blank)	-\$800,000	
PCO 99	Olsson	3223-000	Energy Building Modifications Descope (F1-F4, G1-G2, & H1-H2)	Potential Change	(blank)	-\$600,000	
Grand Total						-\$538,369	\$ 1,080,564

Project Financial Status

Data Last Updated

Project Committee	15
Project Name	Export Sludge Forcemain Replacement
Project Description	New 6-inch HDPE force main replacing ageing 4-inch (x2) lines from the Coastal Treatment Plant to the Regional Treatment Plant through Aliso Canyon

May 25, 2021



Cash Flow

Collected	\$1,964,315
Expenses	\$512,009

Project Completion

Schedule	42%
Budget	12%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	15949	\$ 3,107,346	\$ 5,690	\$ 3,113,036	\$ 331,372
Butier	16164	\$ 226,100	\$ -	\$ 226,100	\$ 27,215
PSOMAS	15961	\$ 277,368	\$ -	\$ 277,368	\$ 14,958
Dudek	15947	\$ 387,750	\$ -	\$ 387,750	\$ 97,213
Ninyo & Moore	16268	\$ 65,790	\$ -	\$ 65,790	\$ 5,702
		\$ 4,064,354	\$ 5,690	\$ 4,070,044	\$476,460

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3541-000	\$ 248,588	\$ 5,690	\$ 242,898	2.3%
		\$ 248,588	\$ 5,690	\$ 242,898	2.3%

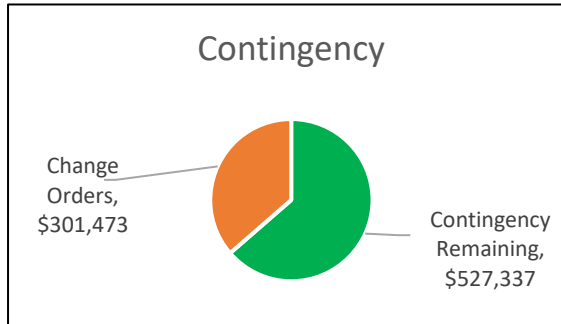
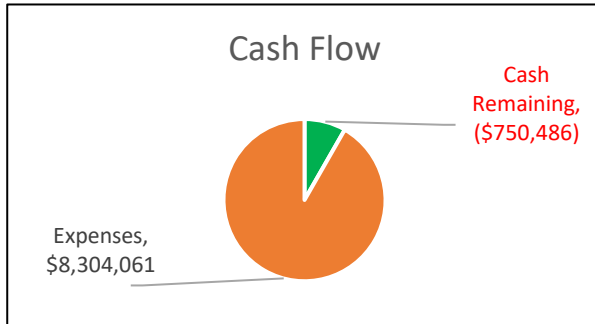
Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Filanc	3541-000	Alternative Fiber Optic Conduit Installation at Jack and Bore	Approved by Board of Directors	6/3/2021		\$5,690
PCO 001	Filanc	3541-000	HDPE Pipe Price Adjustment	Potential Change	3/26/2021	\$18,276	
PCO 002	Filanc	3541-000	Pipe Bedding Material Potential Change	Potential Change	3/26/2021	\$0	
PCO 004	Filanc	3541-000	Time Extension Due to Creek Bank Environmental Constraint	Potential Change	3/26/2021	\$0	
PCO 005	Filanc	3541-000	Existing 6-Inch Sludge Line Fix for Pressure Test	Potential Change	3/26/2021	\$7,964	
PCO 006	Filanc	3541-000	Additional Fiber Optic Conduit (Duplicate PCO)	Potential Change	3/26/2021	\$0	
Grand Total						\$26,240	\$5,690

Project Financial Status

Data Last Updated
May 25, 2021

Project Committee	15
Project Name	Facility Improvements
Project Description	New ferric chloride system, new collection equipment in East Sedimentation basins, concrete repair, structural improvements, new switchgear and numerous electrical upgrades



Cash Flow

Collected	\$7,553,575
Expenses	\$8,304,061

Project Completion

Schedule	92%
Budget	72%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
PCL	13751	\$ 9,209,000	\$ 301,473	\$ 9,510,473	\$ 6,901,369
Butier	13647	\$ 812,288	\$ 290,156	\$ 1,102,444	\$ 808,498
Hazen & Sawyer	13648	\$ 490,484	\$ -	\$ 490,484	\$ 274,174
		\$ 10,511,772	\$ 591,629	\$ 11,103,401	\$7,984,041

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3539-000	\$ 828,810	\$ 301,473	\$ 527,337	36.4%
		\$ 828,810	\$ 301,473	\$ 527,337	36.4%

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	PCL	3539-000	Additional Potholing	Approved by Board of Directors	8/6/2020		\$ 22,936
2	PCL	3539-000	Gas Line Replacement	Approved by Board of Directors	8/6/2020		\$ 41,006
3	PCL	3539-000	Main Switchgear Building Underground Conflicts	Approved by Board of Directors	8/6/2020		\$ 8,683
4	PCL	3539-000	Mud Valve Bolt Removal	Approved by Board of Directors	8/6/2020		\$ 6,577
5	PCL	3539-000	Additional Anchor Bolt Removal	Approved by Board of Directors	8/6/2020		\$ 15,271
6	PCL	3539-000	Slide Gate Concrete Repair	Approved by Board of Directors	8/6/2020		\$ 3,396
7	PCL	3539-000	Sludge Collector Wear Strips	Approved by Board of Directors	8/6/2020		\$ 5,304
8	PCL	3539-000	SCE Transformer Slab Box	Approved by Board of Directors	9/3/2020		\$ 4,378
9	PCL	3539-000	Duct Bank 5 Buried Utility Conflicts	Approved by Board of Directors	10/1/2020		\$ 32,224
10	PCL	3539-000	Telescoping Valve Modifications	Approved by Board of Directors	10/1/2020		\$ 36,067
11	PCL	3539-000	Secondary Effluent Channel Improvements	Approved by Board of Directors	12/17/2020		\$ 5,153

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
12	PCL	3539-000	Portable Generator Tap Enclosures in Buildings 2 & 15	Approved by Board of Directors	12/10/2020		\$ 18,356
13	PCL	3539-000	Conduit, wiring, and mounting of LL1 fixtures	Approved by Board of Directors	12/10/2020		\$ 5,001
14	PCL	3539-000	MCC Feeder Credit	Approved by Board of Directors	2/4/2021		\$ (8,803)
15	PCL	3539-000	Switchgear Building Concrete Repair	Approved by Board of Directors	3/11/2021		\$ 40,144
16	PCL	3539-000	Sludge Collector Mounting Plate Replacement	Approved by Board of Directors	3/11/2021		\$ 10,623
17	PCL	3539-000	Basin Leaking Crack Repair in East Secondaries	Approved by Board of Directors	3/11/2021		\$ 1,863
18	PCL	3539-000	Additional Spall Repair - Grit Channels	Approved by Board of Directors	3/11/2021		\$ 26,405
19	PCL	3539-000	Mixed Liquor Channel Remobilization	Approved by Board of Directors	3/11/2021		\$ 5,323
20	PCL	3539-000	Building 10 Roof Repairs	Approved by Board of Directors	3/11/2021		\$ 2,245
21	PCL	3539-000	Building 8 Gas Line Rerouting	Approved by Board of Directors	3/11/2021		\$ 717
22	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Approved by Board of Directors	6/3/2021		\$ 9,722

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
23	PCL	3539-000	Grit Chamber Conflicts	Approved by Board of Directors	6/3/2021		\$ 3,888
24	PCL	3539-000	1/2" Ferric Line Conflicts	Approved by Board of Directors	6/3/2021		\$ 784
25	PCL	3539-000	Helical Skimmer Wiring	Within Contingency, to be reviewed by Engineering Committee	6/10/2021		\$ 1,072
26	PCL	3539-000	MCC 15 Unmarked Wire Chasing	Within Contingency, to be reviewed by Engineering Committee	6/10/2021		\$ 3,138
PCO 006	PCL	3539-000	Additional Pothole Paving	Potential Change	(blank)	\$5,000	
PCO 013	PCL	3539-000	Ferric Containment Foundation	Potential Change	(blank)	\$15,000	
PCO 015	PCL	3539-000	RAS Channel Modification Descope	Potential Change	(blank)	-\$2,000	
PCO 016	PCL	3539-000	Spray Water Piping Replacement	Potential Change	(blank)	\$1,500	
PCO 024	PCL	3539-000	Drainage Pump Station Descope	Potential Change	(blank)	-\$400,000	
PCO 026	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Potential Change	(blank)	\$10,000	
PCO 028	PCL	3539-000	Ops Building Gas Line Relocation	Potential Change	(blank)	\$5,000	

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 029	PCL	3539-000	Building 15 Concrete Restoration	Potential Change	(blank)	\$20,000	
PCO 031	PCL	3539-000	Roll Up Door Fascia	Potential Change	(blank)	\$3,000	
PCO 032	PCL	3539-000	DAF Stair Railing	Potential Change	(blank)	-\$500	
PCO 035	PCL	3539-000	Grit Chamber Conflicts	Potential Change	(blank)	\$20,000	
PCO 038	PCL	3539-000	Aeration Channel Conflicts	Potential Change	(blank)	\$8,000	
PCO 044	PCL	3539-000	Building 10 Wall Repair	Potential Change	(blank)	\$2,000	
PCO 046	PCL	3539-000	1/2" Ferric Line Conflicts	Potential Change	(blank)	\$5,000	
PCO 047	PCL	3539-000	West Telescoping Valve Improvements	Potential Change	(blank)	\$25,000	
PCO 048	PCL	3539-000	West Secondary Effluent Channel Concrete Repair	Potential Change	(blank)	\$20,000	
PCO 049	PCL	3539-000	Removal of Scope - West Basin Sludge/Scum Collection Equipment	Potential Change	(blank)	-\$300,000	
PCO 050	PCL	3539-000	RAS Box Leaks	Potential Change	(blank)	\$0	
PCO 051	PCL	3539-000	Grit Grating Modifications	Potential Change	(blank)	\$0	

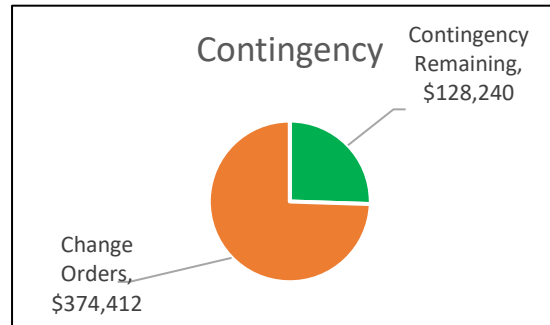
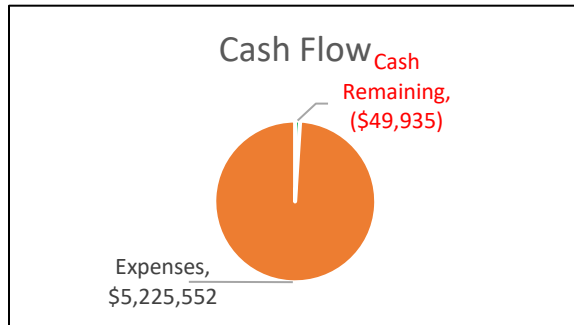
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 053	PCL	3539-000	West Grit Channel Unforeseen Conflicts	Potential Change	3/26/2021	\$15,000	
PCO 059	PCL	3539-000	Telescoping Valve Stand Modifications	Potential Change	(blank)	\$5,000	
PCO 060	PCL	3539-000	Headworks Roofing Additions	Potential Change	(blank)	\$3,500	
PCO 061	PCL	3539-000	Headworks bypass	Potential Change	(blank)	\$20,000	
Grand Total						-\$519,500	\$301,473

Project Financial Status

Data Last Updated

Project Committee	17
Project Name	Miscellaneous Improvements 2018
Project Description	Secondary electrical upgrades and Primary Gallery rehabilitation, installation of access walkway and Energy Building roof

May 25, 2021



Cash Flow

Collected	\$5,175,617
Expenses	\$5,225,552

Project Completion

Schedule	100%
Budget	97%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	13678	\$ 4,181,205	\$ 313,752	\$ 4,494,957	\$ 4,357,204
Dudek	14164	\$ 137,625	\$ 60,660	\$ 198,285	\$ 187,522
Lee & Ro	14006	\$ 123,310	\$ -	\$ 123,310	\$ 123,213
		\$ 4,442,140	\$ 374,412	\$ 4,816,552	\$4,667,939

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3701-000	\$ 343,593	\$ 346,644	\$ (3,051)	100.9%
Common	3769-000	\$ 4,545	\$ -	\$ 4,545	0.0%
Solids	3751-000	\$ 154,514	\$ 27,768	\$ 126,746	18.0%
		\$ 502,652	\$ 374,412	\$ 128,240	74.5%

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Filanc	3701-000	Additional Conduit Support around Admin Building	Approved by Board of Directors	8/6/2020		\$ 32,929
2	Filanc	3701-000	Primary Deck Conduit Supports	ved by Board of Dir	8/6/2020		\$ 9,611
3	Filanc	3701-000	Electrical Manhole 2 collar concrete/pavement repair	ved by Board of Dir	8/6/2020		\$ 2,987
4	Filanc	3701-000	Primary Gallery Concrete Deck Repair	ved by Board of Dir	8/6/2020		\$ 6,363
5	Filanc	3701-000	VFD Cabinet change from 316 to 304 Stainless Steel	ved by Board of Dir	8/6/2020		\$ (2,100)
6	Filanc	3701-000	Duct bank Vault size change to accommodate existing utilities and sump	ved by Board of Dir	8/6/2020		\$ 37,690
7	Filanc	3751-000	Energy Building Roof Steel Beam Anchor Embedment	ved by Board of Dir	8/6/2020		\$ 10,281
8	Filanc	3701-000	Polymer VFD Improvements	ved by Board of Dir	10/1/2020		\$ 15,549
9	Filanc	3751-000	Repair/improve floor grating in equipment to meet safety standards	ved by Board of Dir	10/1/2020		\$ 1,843

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
10	Filanc	3751-000	Additional roofing materials required to level surface	Approved by Board of Directors	10/1/2020		\$ 4,465
11	Filanc	3701-000	Additional backfill material for MH-1	Approved by Board of Directors	10/1/2020		\$ 2,939
12	Filanc	3701-000	Admin Bldg. roof drain rerouting	Approved by Board of Directors	10/1/2020		\$ 966
13	Filanc	3751-000	Additional angle steel needed to support new roof	Approved by Board of Directors	10/1/2020		\$ 1,069
14	Filanc	3701-000	Rebate work on Primary Gallery Deck to resolve potential safety issue	Approved by Board of Directors	10/1/2020		\$ 4,736
15	Filanc	3701-000	Replace installation of fan with louver	Approved by Board of Directors	2/4/2021		\$ (647)
16	Filanc	3701-000	New wire pulled for Sed Basins 5 & 6 flow meters	Approved by Board of Directors	2/4/2021		\$ 1,056
17	Filanc	3701-000	New lighting, outlet, and circuit for scum and sample pumps	Approved by Board of Directors	2/4/2021		\$ 24,000
18	Filanc	3701-000	Install flow indicators, remove	Approved by Board of Directors	2/4/2021		\$ 41,094
19	Filanc	3701-000	Modify hardware, PLC logic, and HMI for a polymer alternate water use.	Approved by Board of Directors	2/4/2021		\$ 15,858

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
20	Filanc	3701-000	Add new DAF flow meters including additional piping and conduit	ved by Board of Dir	2/4/2021		\$ 30,477
21	Filanc	3701-000	Headworks Conduits for Grit Augers	ved by Board of Dir	5/6/2021		\$ 10,756
22	Filanc	3701-000	Light Fixtures at Sed Tank Stairs #1	ved by Board of Dir	5/6/2021		\$ 997
23	Filanc	3701-000	Drain Pump Level Controls	ved by Board of Dir	5/6/2021		\$ 1,630
24	Filanc	3701-000	MCC-C to DAF-2 Conduit Installation	ved by Board of Dir	5/6/2021		\$ 6,783
25	Filanc	3701-000	ORT Feeder Cable Removal and Installation	ved by Board of Dir	5/6/2021		\$ 12,265
26	Filanc	3701-000	Scum Pit Level Indicator	ved by Board of Dir	5/6/2021		\$ 3,891
27	Filanc	3701-000	Extra Stairs at Tank 1	ved by Board of Dir	5/6/2021		\$ 28,638
28	Filanc	3701-000	DAF Pressure Relief Safety Valve	ved by Board of Dir	5/6/2021		\$ 5,707
29	Filanc	3701-000	DAF 1 & 3 Bucket Relay	ved by Board of Dir	5/6/2021		\$ 1,919
Grand Total							\$ 313,752

Agenda Item

6

Engineering Committee Meeting

Meeting Date: June 10, 2021

TO: SOCWA Engineering Committee

FROM: Jason Manning, Director of Engineering

SUBJECT: J.B. Latham Treatment Plant Package B Solids Contingency
[Project Committee 2]

Overview

Over the past few engineering committee meetings, we have updated the committee on the progress of the J.B. Latham Package B project as well as some of the challenges we have encountered on the project. As reported in the most recent Capital Improvement Construction Report and in Table 1 below, the Solids portion of the Package B project is nearly out of contingency. In order to prevent delays, we are requesting the approval of additional contingency for the Solids portion of the project and may need to hold a special PC -2 Board Meeting prior to the August 2021 Board meeting for approval of the contingency request.

Table 1 – Package B Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$616,800	\$383,825	\$232,975	62.2%
Common	3231-000	\$96,800	\$41,412	\$55,388	42.8%
Solids	3287-000	\$672,400	\$655,327	\$17,073	97.5%
Total		\$1,386,000	\$1,080,564	\$305,436	78.0%

We currently have an estimated \$785,448 in potential change orders for the Solids portion of the project as shown in Table 2.

Table 2 – Potential Change Orders for Package B Solids

PCO 002	3287-000	Digester 4 Rail Coating. The coating is not needed and resulting in a credit but some rehabilitation work will be needed.	Potential Change	\$(1,000)
PCO 004	3287-000	Digester 4 Control Narrative needed	Potential Change	\$5,000
PCO 005	3287-000	TWAS Slab Modifications	Potential Change	\$50,000
PCO 008	3287-000	Conduit Routing Conflict from MCC-F1 and Relocation of MCC-F1	Potential Change	\$350,000
PCO 009	3287-000	PLC East Headworks Integration	Potential Change	\$10,000
PCO 012	3287-000	PCL-CG Integration	Potential Change	\$5,000
PCO 014	3287-000	Digester 4 Compressor Supply Line	Potential Change	\$18,146
PCO 018	3287-000	Duct bank L Interferences	Potential Change	\$10,000
PCO 026	3287-000	Gas Hatch Lids Mating Connection	Potential Change	\$7,771
PCO 028	3287-000	4" Gas Line Routing Modifications	Potential Change	\$18,147
PCO 032	3287-000	Gas Mixer Conduit Conflict	Potential Change	\$12,384
PCO 66	3287-000	DAFT 1 and 2 Repairs	Potential Change	\$300,000
Total				\$785,448

The two major potential change orders are the MCC F1 Relocation (PCO 008) and DAFT 1 and 2 Repairs (PCO 66).

MCC F1:

MCC F1 replaces MCC F which is currently located outside in a Class I Division I area. MCC F1 will provide power to Digesters 1 and 2 for pumping, heating, and instrumentation. The MCC was originally planned to be located in the access road behind Digesters 1 and 2 but during potholing and trenching, utility conflicts arose that prevented any further consideration of a buried duct bank. The design for the MCC was then moved so that the cabinet would be located in an area where overhead conduit bridges would be used. The cost estimate for the construction of this redesign was significantly higher than anticipated. Carollo Engineers then provided three potential alternatives to the first overhead redesign.

Option 1: Keep the overhead design but utilize a duct bank in the adjacent planter eliminating exposed conduit and use a cable tray for the bridges. Aluminum conduit is also being considered in place of PVC coated steel conduit which may reduce material and labor costs for exposed conduit.

Option 2: Utilize surface duct banks across the access road.

Option 3: Utilize precast “Trenwa” style trenches across the access road.

Options 2 and 3 pose more potential conflicts with some shallow utilities and would raise the height of the access road. A pipe bridge that transports hot water and digester gas to/from the digesters is already located across the road. The access road is used for large equipment to service not just the digesters but the digester gas conditioning system further down the access road. The road height increase may prevent some larger vehicles from accessing areas past the bridge. Storm flows, spills, and issues with below grade conductor and conduit is another concern with a precast trench.

We have therefore directed Carollo Engineers to update the design using Option 1. We will update Engineering Committee once we have an updated cost for MCC F1 Option 1.

Digester 1 & 2 with Pipe Bridge



DAFT 1 and 2 Repairs:

The J.B. Latham Treatment Plant has two DAFTs and both are included in Package B for refurbishment. DAFT 2 has currently been stripped of all internal parts and in doing so, the metal interior tank was found to be in much worse condition than expected. We are currently working through some options for repair (patch, coating, or complete reskinning) and have procured enough steel for at least DAFT 2. We do not have a full cost estimate for this work but have anticipated the higher cost options for estimating the increased contingency.

DAFT 2 Internal Corrosion



Fiscal Impact

As stated above, the current estimate for potential change orders is \$785,448. Because of the nature of this project there may be additional change orders not yet identified and the cost of identified potential change orders may vary as we progress. We are therefore requesting an additional \$985,000 of contingency for the J.B. Latham Package B Solids (3287-000) bringing the Solids contingency to \$1,657,400 and the total project contingency to \$2,371,000 (13.7% of the original construction contract of \$17,325,000). Any change orders against the contingency will be presented to the Engineering Committee and the Board for approval. The additional contingency will allow us to continue to direct work to be completed without causing delay to construction.

As a reminder, we are also working through descoping several items that will reduce the construction contract amount for both Liquids and Common portions of the project.

Recommended Action: Staff requests that the Engineering Committee recommend to the PC-2 Board of Directors to approve the addition of \$985,000 of contingency to the J.B. Latham Package B Solids Project (3287-000) for a total Solids contingency of \$1,657,400.