

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

ENGINEERING COMMITTEE
TELECONFERENCE MEETING**

**April 8, 2021
8:30 a.m.**

Join Zoom Meeting by clicking on the link below:

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

Meeting ID: 823 9876 8458

Passcode: 561745

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 **April 8, 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 March 11, 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 the following:

- a. PC-2 Board to approve Change Orders 17 and 18 totaling of \$41,963.99; and
- b. PC-17 Board to approve Change Orders 21 through 29 totaling of \$72,585.84.

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

- Presentation

Recommended Action: Information Item

7. San Juan Creek Ocean Outfall Junction Structure Construction Update [Project Committee 5]

Recommended Action: Information Item

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

- Presentation

Recommended Action: Information Item

9. SOCWA Engineering Capital Improvements Updated Draft 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.

Dated this 1st day of April 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

March 11, 2021

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on March 11, 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
KEVIN BURTON	Irvine Ranch 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

Absent:

DAVE REBENS DORF	City of San Clemente
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Staff Present:

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

Also Present:

TARYN KJOSLINGS	South Coast Water District
CHRIS NEWTON	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
JESUS GARIBAY	Moulton Niguel Water District
SHERRY WANNIGER	Moulton Niguel Water District

1. Call Meeting to Order

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

2. Public Comments

None

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3. Approval of Minutes

a. Engineering Committee Meeting of February 11, 2021

ACTION TAKEN

Motion was made by Mr. Bunts seconded by Mr. Serna to approve the Engineering Committee Minutes of February 11, 2021 as submitted.

Motion Carried:	Aye 9, Nay 0, Abstained 0, Absent 1
	Hanna Johnson (CLB) Aye
	Dave Rebensdorf (CSC) Absent
	Mike Marquis (CSJC) Aye
	Mike Dunbar (EBSD) Aye
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Aye
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Aye
	Lorrie Lausten (TCWD) Aye

4. Operations Status Report

Mr. Burror gave a presentation on the PC-17 Cogen Credit. He stated a credit is based on the agencies discharging solids to PC-17. Mr. Burror provided some historical background on why PC-17 was formed back in 1978, noting it was the most economical way to treat solids then as it is still currently now. He stated the more solids you have the more energy you have. He continued by stating the all of the collective data that is used when evaluating the value of the power that is generated at PC-17; because more power is created than is used in the solids processing. He noted the process for evaluating the fees is complicated. An open discussion ensued.

This was an information item; no action was taken

At the discretion of the Committee, Mr. Manning stated that Ms. Baylor would be providing a verbal Operation report and then moving on to present Agenda Item 6. There were no objections from the Committee.

Ms. Baylor reported on the Report of Waste Discharge for San Juan Creek and Aliso Creek Ocean Outfalls that were submitted for review and evaluation. She stated she met with the Region 9 staff noting there were minor editorial requests to update San Juan Creek Ocean Outfall Report of Waste Discharge. Ms. Baylor also indicated there was a possibility that the Aliso Creek Ocean Outfall Permit may be coming before the Board sooner than the San Juan Creek Ocean Outfall Permit. She also reported on the HF183 research project. She noted the science advisory group was pleased with the progress of the research to date. An open discussion ensued.

This was an information item; no action was taken.

6. FY 21-22 Budget Flows and Solids Projections

Ms. Baylor reported on a new series of tables that will be provided to all of the member agencies. She noted the Use Audit flows that are used in the budget process lagged about six-months which is a large gap based on the budgeted numbers, especially now that many

of the member agencies are moving more towards recycling efforts. She stated the new tables are more aligned with the flows. An open discussion ensued.

ACTION TAKEN

Motion was made by Mr. Dunbar seconded by Mr. Serna to recommend to the Board of Directors to utilize the flow and solids numbers contained herein for the FY 21/22 SOCWA Budget planning process.

Motion Carried:	Aye 9, Nay 0, Abstained 0, Absent 1
	Hanna Johnson (CLB) Aye
	Dave Rebensdorf (CSC) Absent
	Mike Marquis (CSJC) Aye
	Mike Dunbar (EBSA) Aye
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Aye
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Aye
	Lorrie Lausten (TCWD) Aye

5. Capital Improvement Construction Projects Report

The Engineering staff reported on the project status of project progress for Package B, San Juan Creek Ocean Outfall Junction Structure Rehabilitation, and the Coastal Treatment Plant Facility Improvements. Mr. Manning reported on the progress of the Export Sludge Forcemain Replacement project stating groundbreaking will begin March 21st to begin trenching to lay some of the piping. Mr. Manning also stated OC Parks requested signs be posted to inform the public on the construction project. An open discussion ensued.

Mr. Dunbar requested that change orders be broken down by member agencies in the future reportings.

ACTION TAKEN

The PC-15 Engineering Committee Members conceded to recommending to the PC-15 Board to approve Change Orders 15 through 21 totaling \$87,320 (Moulton Niguel abstained).

Motion Carried:	Aye 3, Nay 0, Abstained 0, Absent 1
	Hanna Johnson (CLB) Aye
	Mike Dunbar (EBSA) Aye
	Rod Woods (MNWD) Abstain
	Marc Serna (SCWD) Aye

7. Regional Treatment Plant Aeration PLC Upgrade [Project Committee 17]

Mr. Manning reported that the PLC that controls the three (3) aeration blowers at the Regional Treatment Plant uses outdated technology and could not be backed up due to the age of the existing system. He noted the system would intermittently lose communication with the SCADA system triggering an alarm causing many after-hours-call outs. Mr. Manning stated the Operation staff requested proposals from Tesco and Trimax with Tesco being the low bidder for replacing the PLC, two local control panels, and the associated programming. Mr. Manning also stated that the project is a PC-17 liquids and is 100 % Moulton Niguel. An open discussion ensued.

ACTION TAKEN

Moulton Niguel agreed to support recommending to the PC-17 Board to award the contract to Tesco in the amount of \$98,980 for the aeration PLC upgrade for the Regional Treatment Plant Aeration System.

8. Coastal Treatment Plant Sludge Force Main Replacement Project Geotechnical Services During Construction [Project Committee 15]

Mr. Baranowski reported that a geotechnical firm was needed for soils and materials testing and would work in conjunction with the construction management firm to test soil samples, test backfill compaction and to do concrete strength testing. An open discussion ensued.

ACTION TAKEN

Motion was made by Mr. Dunbar and seconded by Mr. Serna recommend to the PC-15 Board to award the time and materials contract to Ninyo & Moore in the amount of \$65,790 for the Geotechnical services during construction for the Coastal Treatment Plant Sludge Force Main Project (Moulton Niguel abstained).

Motion Carried: Aye 3, Nay 0, Abstained 0, Absent 1
Hanna Johnson (CLB) Aye
Mike Dunbar (EBSD) Aye
Rod Woods (MNWD) Abstain
Marc Serna (SCWD) Aye

9. SOCWA Engineering Capital Improvements Updated Draft Budget

Mr. Manning gave an updated presentation on the draft CIP proposed budget for FY2021/2022. He noted some of the changes that came out of discussions with member agencies since the February Engineering meeting. He also noted Mr. Burror was still working on changes to the Small Cap budget and would be presented to the Finance Committee in April along with the draft CIP Budget. An open discussion ensued.

This was an information item; no action was taken.

Adjournment

There being no further business, Mr. Manning adjourned the meeting at 9:40 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of March 11, 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: April 08, 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 the following change orders:

PC 02 JB Latham Treatment Plant Package B: Two new change orders totaling \$41,963.99.

PC 15 Coastal Treatment Plant Facility Improvements: no new change orders

PC 15 Export Sludge Force Main Replacement: no new change orders

PC 17 Regional Treatment Plant Miscellaneous Improvements: Nine new change orders totaling \$72,585.84

As a reminder, all change orders including those 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 following:

- a. PC 02 Board to approve Change Orders 17 and 18 totaling of \$41,963.99.
- b. PC 17 Board to approve Change Orders 21 through 29 totaling of \$72,585.84.

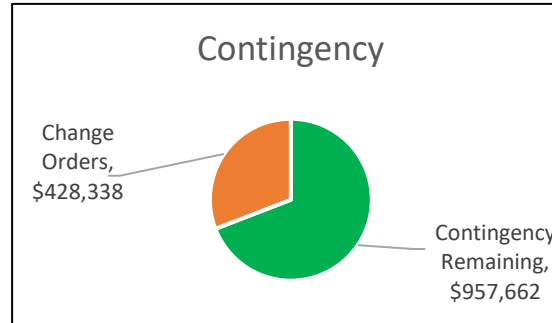
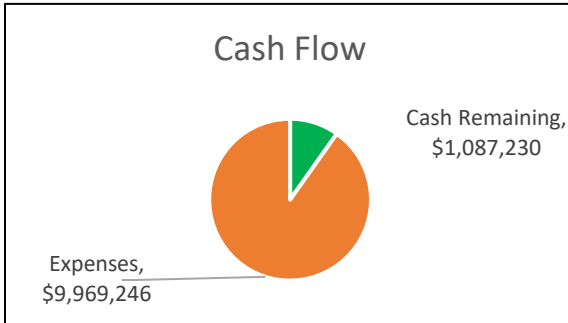
JBL Package B

Data Last Updated

March 26, 2021

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



Cash Flow

Collected	\$11,056,476
Expenses	\$9,969,246

Project Completion

Schedule	66%
Budget	45%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Olsson	13497	\$ 17,325,000	\$ 428,338	\$ 17,753,338	\$ 7,303,527
Butier	13647	\$ 1,055,325	\$ -	\$ 1,055,325	\$ 824,303
Carollo	13616	\$ 846,528	\$ -	\$ 846,528	\$ 707,968
TetraTech	13605	\$ 94,000	\$ -	\$ 94,000	\$ 81,837
		\$ 19,320,853	\$ 428,338	\$ 19,749,191	\$8,917,634

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 616,800	\$ 73,170	\$ 543,630	11.9%
Common	3231-000	\$ 96,800	\$ -	\$ 96,800	0.0%
Solids	3287-000	\$ 672,400	\$ 355,168	\$ 317,232	52.8%
		\$ 1,386,000	\$ 428,338	\$ 957,662	30.9%

JBL Package B

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)

JBL Package B

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

JBL Package B

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	Within Contingency, will be reviewed by Engineering Committee	3/26/2021		\$ 34,392
18	Olsson	3287-000	Integrator Additional Site Visits	Within Contingency, will be reviewed by Engineering Committee	3/26/2021		\$ 7,572
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 007	Olsson	3287-000	Relocation of MCC-F1	Potential Change	(blank)	\$40,000	
PCO 008	Olsson	3287-000	Conduit Routing Conflict from MCC-F1	Potential Change	(blank)	\$15,000	
PCO 009	Olsson	3287-000	PLC East Headworks Integration	Potential Change	(blank)	\$5,000	
PCO 012	Olsson	3287-000	PCL-CG Integration	Potential Change	(blank)	\$5,000	

JBL Package B

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
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)	\$5,000	
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	\$30,000	
Grand Total						\$225,448	\$ 428,338

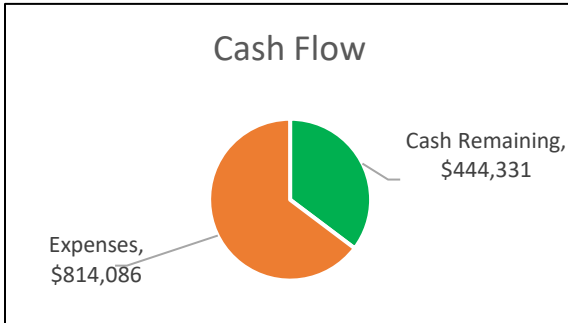
SJCOO Junction Structure Rehab

Data Last Updated

March 26, 2021

Project Financial Status

Project Committee	5
Project Name	San Juan Creek Ocean Outfall Junction Structure Rehabilitation
Project Description	Insertion of duplex stainless steel sleeve to reinforce Junction Structure on Doheny Beach



No Contingency

Cash Flow

Collected	\$1,258,417
Expenses	\$814,086

Project Completion

Schedule	93%
Budget	56%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	15575	\$ 1,041,572	\$ -	\$ 1,041,572	\$ 582,525
Black & Veatch	13880	\$ 169,366	\$ -	\$ 169,366	\$ 145,364
Dudek	15948	\$ 89,668	\$ -	\$ 89,668	\$ 4,230
		\$ 1,300,606	\$ -	\$ 1,300,606	\$732,119

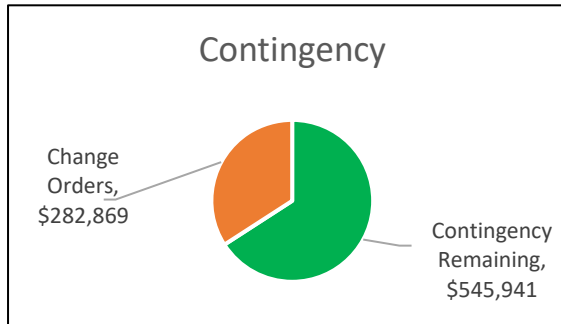
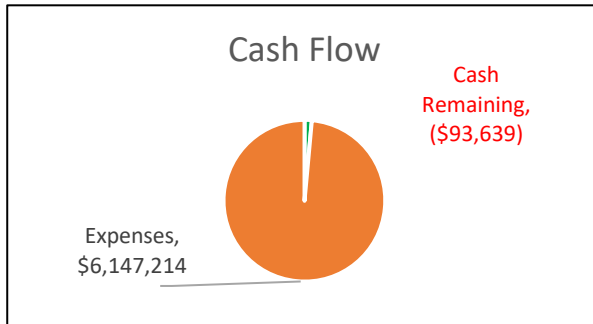
CTP Facility Improvements

Data Last Updated

March 26, 2021

Project Financial Status

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	\$6,053,575
Expenses	\$6,147,214

Project Completion

Schedule	90%
Budget	54%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
PCL	13751	\$ 9,209,000	\$ 282,869	\$ 9,491,869	\$ 4,974,122
Butier	13647	\$ 812,288	\$ -	\$ 812,288	\$ 628,248
Hazen & Sawyer	13648	\$ 490,484	\$ -	\$ 490,484	\$ 251,841
		\$ 10,511,772	\$ 282,869	\$ 10,794,641	\$5,854,210

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3539-000	\$ 828,810	\$ 282,869	\$ 545,941	34.1%
		\$ 828,810	\$ 282,869	\$ 545,941	34.1%

CTP Facility Improvements

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
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

CTP Facility Improvements

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

CTP Facility Improvements

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
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	
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 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 040	PCL	3539-000	Helical Skimmer Wiring	Potential Change	(blank)	\$2,000	
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	

CTP Facility Improvements

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 051	PCL	3539-000	Grit Grating Modifications	Potential Change	(blank)	\$0	
PCO 052	PCL	3539-000	MCC 15 Unmarked Wire Chasing	Potential Change	3/26/2021	\$6,000	
PCO 053	PCL	3539-000	West Grit Channel Unforeseen Conflicts	Potential Change	3/26/2021	\$15,000	
Grand Total						-\$539,500	\$ 282,869

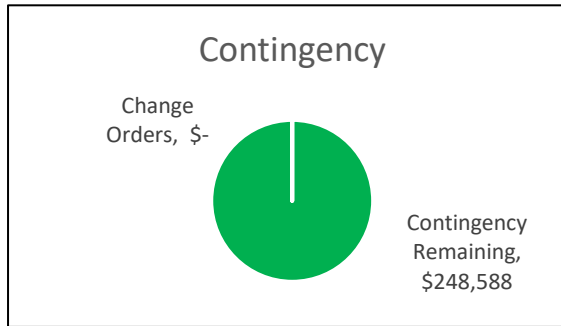
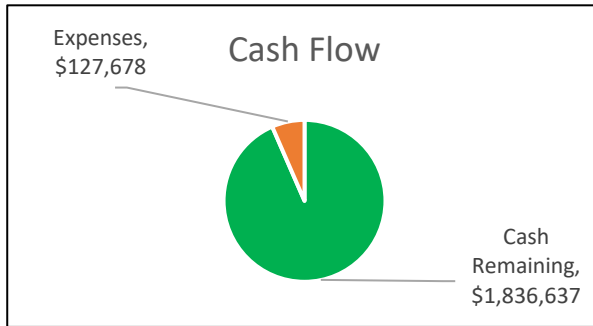
CTP Export Sludge

Data Last Updated

March 26, 2021

Project Financial Status

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



Cash Flow

Collected	\$1,964,315
Expenses	\$127,678

Project Completion

Schedule	27%
Budget	3%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	15949	\$ 3,107,346	\$ -	\$ 3,107,346	\$ 85,000
Butier	13647	\$ 226,100	\$ -	\$ 226,100	\$ -
PSOMAS	15961	\$ 277,368	\$ -	\$ 277,368	\$ -
Dudek	15947	\$ 387,750	\$ -	\$ 387,750	\$ 29,301
Ninyo & Moore	16268	\$ 65,790	\$ -	\$ 65,790	\$ -
		\$ 4,064,354	\$ -	\$ 4,064,354	\$114,301

Contingency

Area	Project Code	Amount	Change Orders	total Remainin	Percent Used
Liquids	3541-000	\$ 248,588	\$ -	\$ 248,588	0.0%
		\$ 248,588	\$ -	\$ 248,588	0.0%

CTP Export Sludge

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
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 003	Filanc	3541-000	Alternative Fiber Optic Conduit Installation at Jack and Bore	Potential Change	3/26/2021	\$5,690	
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						\$31,930	

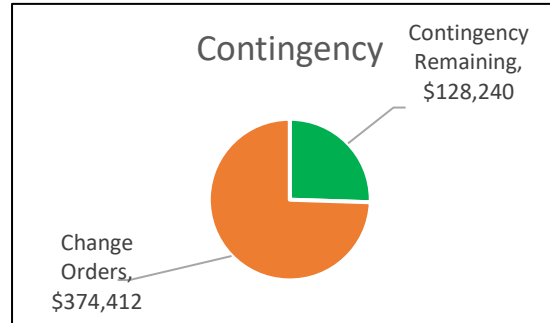
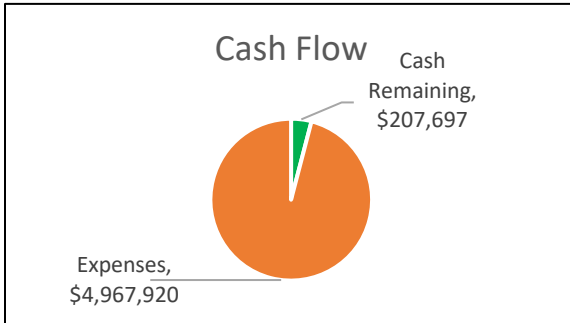
RTP Miscellaneous Improvements 2018

Data Last Updated

March 26, 2021

Project Financial Status

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



Cash Flow

Collected	\$5,175,617
Expenses	\$4,967,920

Project Completion

Schedule	99%
Budget	92%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	13678	\$ 4,181,205	\$ 313,752	\$ 4,494,957	\$ 4,109,886
Dudek	14164	\$ 137,625	\$ 60,660	\$ 198,285	\$ 182,727
Lee & Ro	14006	\$ 123,310	\$ -	\$ 123,310	\$ 123,213
		\$ 4,442,140	\$ 374,412	\$ 4,816,552	\$4,415,826

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%

RTP Miscellaneous Improvements 2018

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		\$32,929.28
2	Filanc	3701-000	Primary Deck Conduit Supports	Approved by Board of Directors	8/6/2020		\$ 9,611.12
3	Filanc	3701-000	Electrical Manhole 2 collar concrete/pavement repair	Approved by Board of Directors	8/6/2020		\$ 2,986.60
4	Filanc	3701-000	Primary Gallery Concrete Deck Repair	Approved by Board of Directors	8/6/2020		\$ 6,363.00
5	Filanc	3701-000	VFD Cabinet change from 316 to 304 Stainless Steel	Approved by Board of Directors	8/6/2020		\$ (2,100.00)
6	Filanc	3701-000	Duct bank Vault size change to accommodate existing utilities and sump	Approved by Board of Directors	8/6/2020		\$ 37,690
7	Filanc	3751-000	Energy Building Roof Steel Beam Anchor Embedment	Approved by Board of Directors	8/6/2020		\$10,280.90
8	Filanc	3701-000	Polymer VFD Improvements	Approved by Board of Directors	10/1/2020		\$ 15,549
9	Filanc	3751-000	Repair/improve floor grating in equipment to meet safety standards	Approved by Board of Directors	10/1/2020		\$ 1,843

RTP Miscellaneous Improvements 2018

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

RTP Miscellaneous Improvements 2018

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
18	Filanc	3701-000	Update instrumentation including 13 new pressure indicators, remove unneeded stations, various epoxy and concrete repair.	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
20	Filanc	3701-000	Add new DAF flow meters including additional piping and conduit	Approved by Board of Directors	2/4/2021		\$ 30,477
21	Filanc	3701-000	Headworks Conduits for Grit Augers	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 10,756
22	Filanc	3701-000	Light Fixtures at Sed Tank Stairs #1	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 997

RTP Miscellaneous Improvements 2018

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
23	Filanc	3701-000	Drain Pump Level Controls	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 1,630
24	Filanc	3701-000	MCC-C to DAF-2 Conduit Installation	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 6,783
25	Filanc	3701-000	ORT Feeder Cable Removal and Installation	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 12,265
26	Filanc	3701-000	Scum Pit Level Indicator	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 3,891
27	Filanc	3701-000	Extra Stairs at Tank 1	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 28,638
28	Filanc	3701-000	DAF Pressure Relief Safety Valve	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 5,707

RTP Miscellaneous Improvements 2018

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
29	Filanc	3701-000	DAF 1 & 3 Bucket Relay	Within Contingency, will be reviewed by Engineering Committee	3/29/2021		\$ 1,919
Grand Total							\$ 313,752

JBLTP – Electrical System Evaluation



J.B. Latham Treatment Plant Utility Configuration Evaluation

Agenda Item 6

April 2021

Project Background

Explore energy cost savings potential by combining the three (3) utility services at the JB Latham plant

- **Single 15kV primary service vs. three 480V secondary services**
- **Lower peak demand charges**
- **Facilitate installation of a single standby power generator to back up the whole plant**

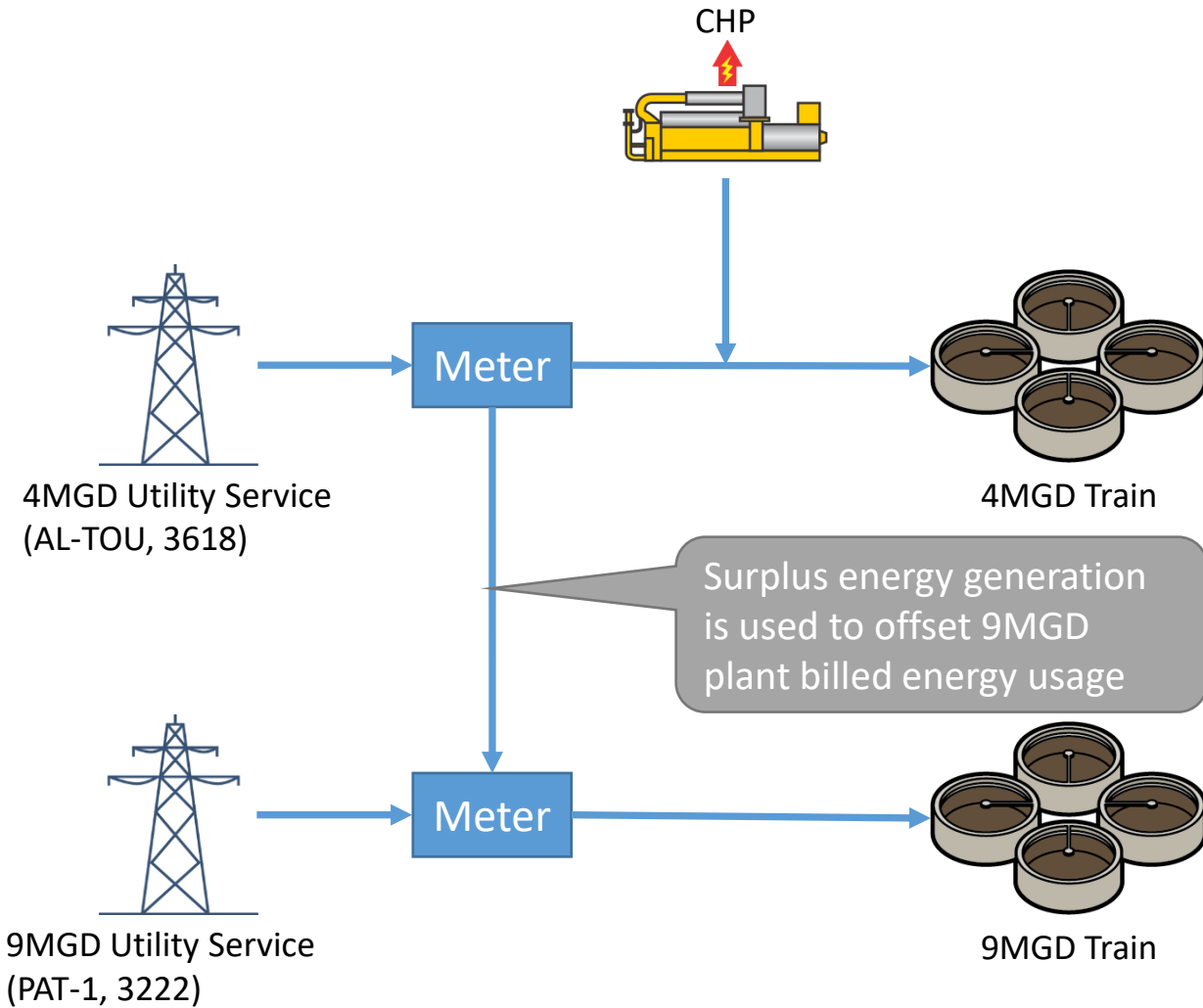
Current Utility Billing

- 4MGD Side – G-AL-TOU-Industrial (Includes biogas fueled CHP)
- 9MGD Side – G-PAT-1-Commercial
- Effluent Pump Station – TOU-PA3 (Less than 3% of the overall plant energy usage)

April 2018 to March 2020 Billing Summary (2 Years)

Bill Period	Meter #		
	6693222	06583618	06581600
Apr 2018 to Mar 2020	\$502,707	\$447,755	\$30,594
Total	\$981,056 (2 years)		

4MGD Side Virtual Net Metering



Detail of Current Charges

Electric Service

Rate: Time of Use - PAT-1-Commercial Climate Zone: Coastal
 Billing Period: 6/11/19 - 7/11/19 Total Days: 30
 Meter Number: 06693222 (Next scheduled read date Aug 12, 2019) Cycle: 8
 Meter Constant: 300.000 Billing Voltage Level: Secondary
 Circuit: 0794 Your circuit is currently not subject to rotating outage.
 However, this is subject to change without notice.
 Total Usage: 194,082 (Usage based on interval data)

ELECTRIC CHARGES

Customer Charge Amount(\$)
105.49

Electricity Delivery (Details below) 128,571 kWh

SUMMER USAGE	On-Peak	Semi-Peak	Off-Peak	
kWh used	33,606	29,733	65,232	
Rate/kWh	\$.00578	\$.00578	\$.00578	
Charge	\$194.24	+ \$171.86	+ \$377.04	= 743.14

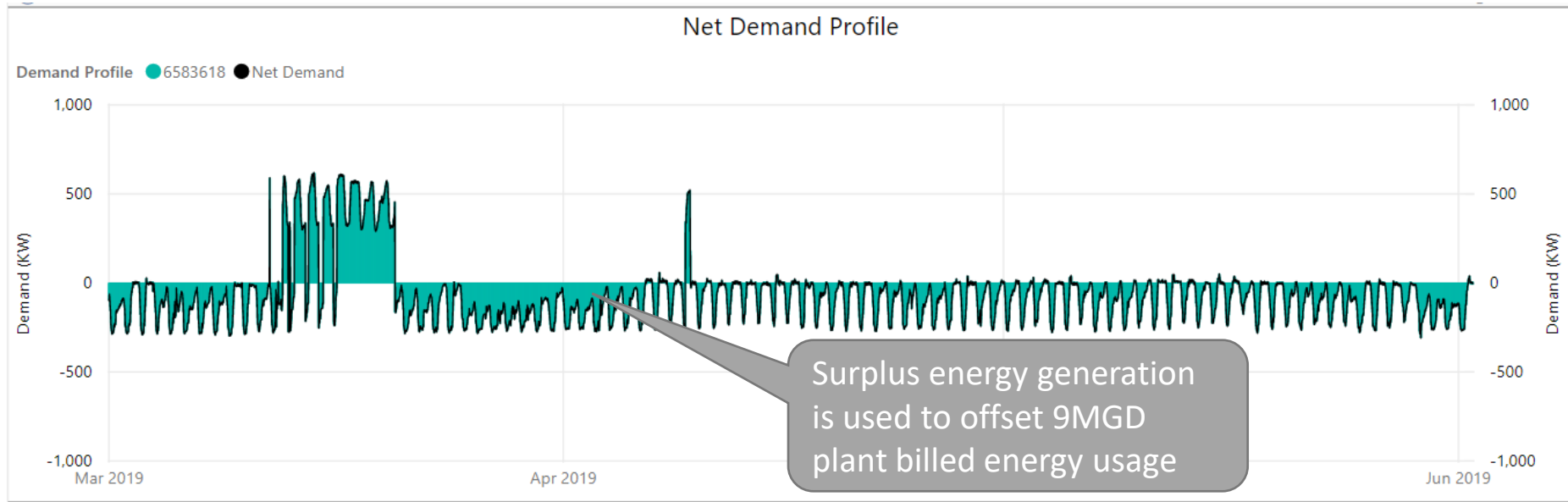
For Electric meter number **06693222** the total allocated credit for this month is **65,511**. The current applied virtual net metering credit to offset your usage is **65,511 kWh**. The current applied generation credit is **\$0.00**.

Your non-bypassable charges for this month were based on usage of **65,511 kWh**.

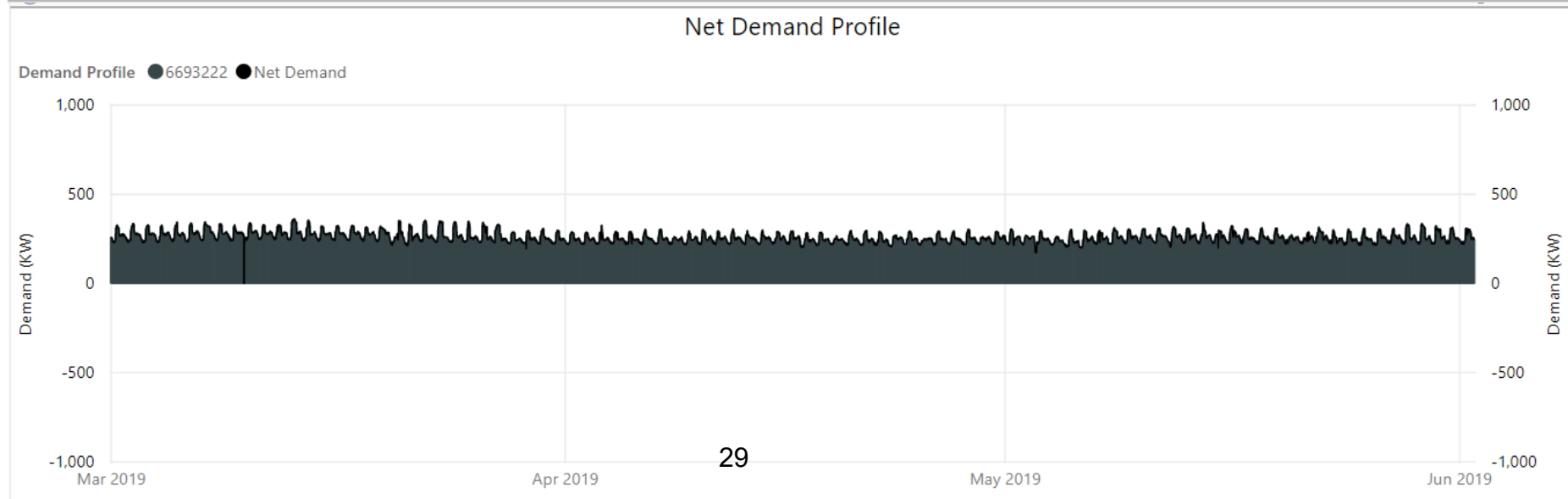
Summer On-Peak Demand	348.0 kW x \$.00	.00
Summer Semi-Peak Demand	349.2 kW x \$.00	.00
Summer Time Of Use Demand	349.2 kW x \$12.56	4,385.95
Summer Non-Coincident Demand	357.6 kW x \$7.40	2,646.24

Typical Demand Profiles (March-April 2019)

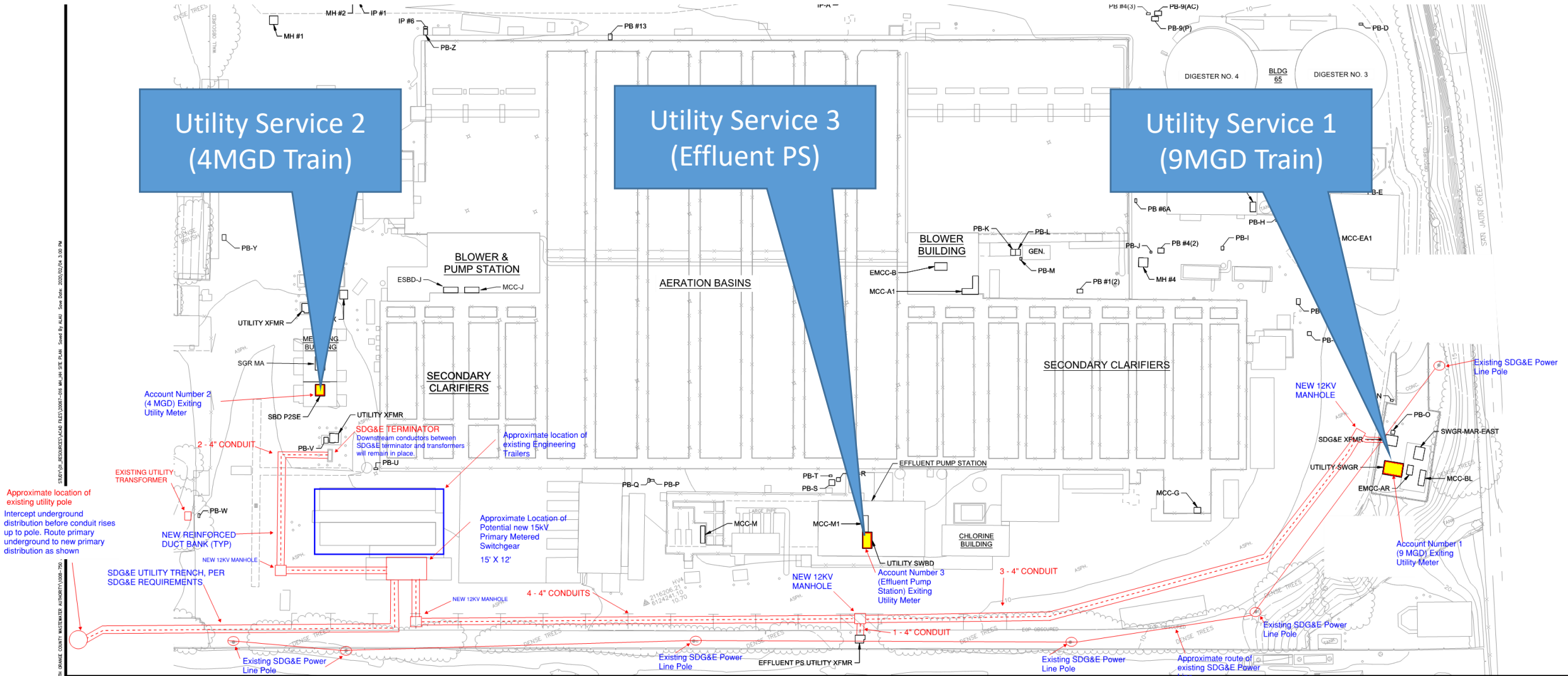
4MGD Meter



9MGD Meter



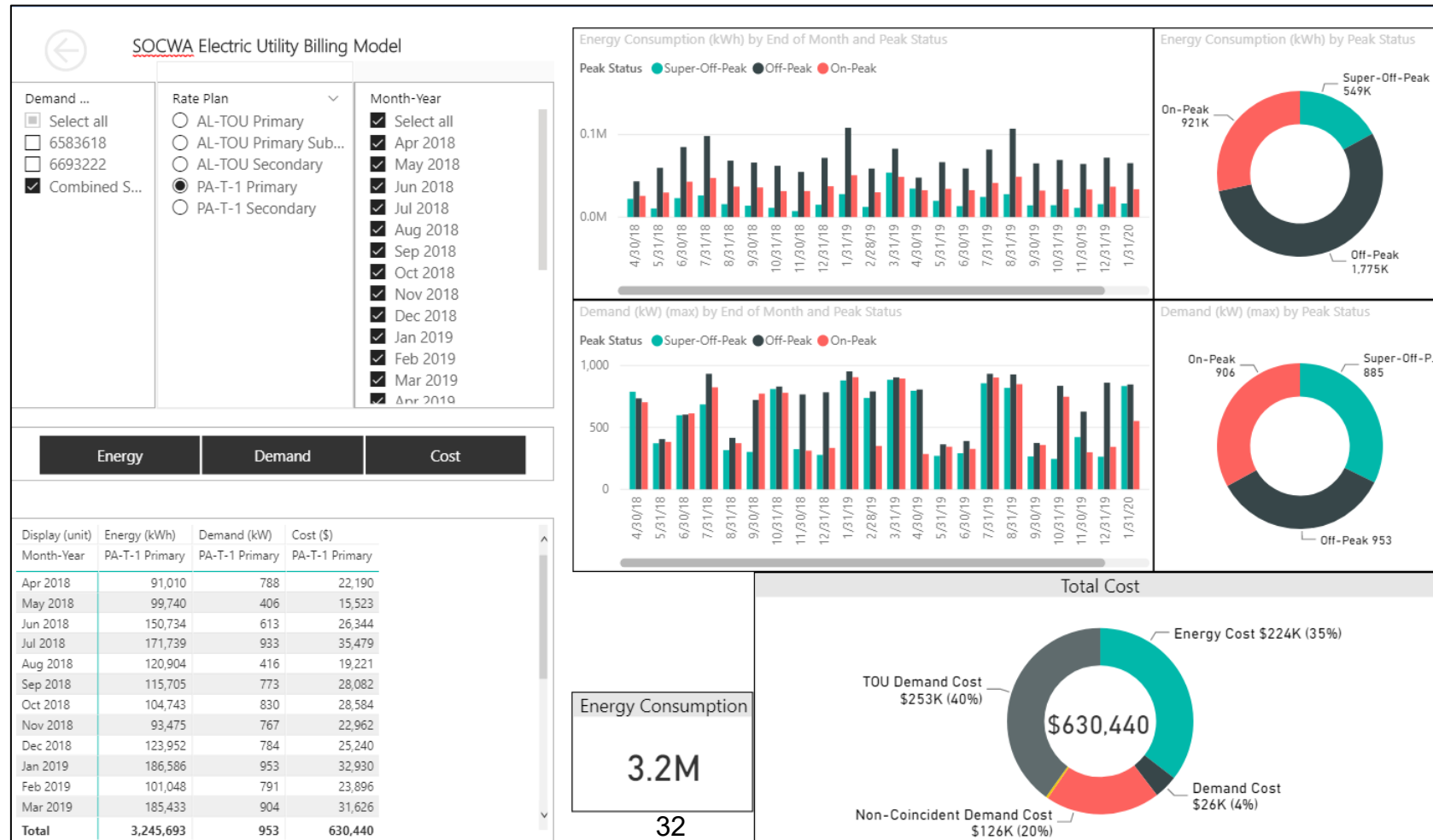
Site Plan – Combining Electrical Services



Methodology

Utility Billing Rate Model (Interval Data Analysis)

An energy cost analysis was performed using two years' worth (April 2018 – March 2020) of historical interval data from SOCWA in Hazen's Utility Billing Rate Model developed in Power BI.



PAT-1 vs AL-TOU (PAT-1 Rate Lower Overall Cost)

Table 3: Billing Rate PA-T-1 – Per kW Charges

Service Type	Season	Max On-Peak Demand*	Time-Of-Use (TOU) Demand	Non-Coincident Demand
Secondary	Summer	\$3.99 per kW	\$14.35 per kW	\$7.31 per kW
	Winter	-		
Primary	Summer	\$3.97 per kW	\$14.28 per kW	\$7.07 per kW
	Winter	-		

*Note: The Summer Max On-Peak Demand charge consists of the commodity demand cost

Table 1: Billing Rate AL-TOU – Per kW Charges

Service Type	Season	Max On-Peak Demand*	Non-Coincident Demand
Secondary	Summer	\$28.92 per kW	\$24.48 per kW
	Winter	\$19.23 per kW	
Primary	Summer	\$28.68 per kW	\$23.94 per kW
	Winter	\$19.12 per kW	

*Note: The Summer Max On-Peak Demand charge includes additional commodity demand costs

PAT-1 vs AL-TOU (PAT-1 Rate Lower Overall Cost)

Table 4: Billing Rate PA-T-1 – Per kWh Charges

Service Type	Season	On-Peak kWh*	Off-Peak kWh*	Super Off-Peak kWh*
Secondary	Summer	\$0.08323 per kWh	\$0.06940 per kWh	\$0.05564 per kWh
	Winter	\$0.07378 per kWh	\$0.06555 per kWh	\$0.05642 per kWh
Primary	Summer	\$0.08284 per kWh	\$0.06908 per kWh	\$0.05545 per kWh
	Winter	\$0.07344 per kWh	\$0.06528 per kWh	\$0.05623 per kWh

*Note: All energy charges include additional commodity energy costs

Table 2: Billing Rate AL-TOU – Per kWh Charges

Service Type	Season	On-Peak kWh*	Off-Peak kWh*	Super Off-Peak kWh*
Secondary	Summer	\$0.12628 per kWh	\$0.10679 per kWh	\$0.08158 per kWh
	Winter	\$0.10626 per kWh	\$0.09506 per kWh	\$0.08265 per kWh
Primary	Summer	\$0.12570 per kWh	\$0.10633 per kWh	\$0.08133 per kWh
	Winter	\$0.10581 per kWh	\$0.09470 per kWh	\$0.08240 per kWh

*Note: All energy charges include additional commodity energy costs

Results

Results Summary

Utility Configuration	Estimated Electric Utility Costs (\$/Year)	Difference From Base Case	Capital Cost to Implement	Final Recommendations
Current 3 Separate Services (Base Case)	\$491,000/Year	N/A	N/A	N/A
Combined Services Under Rate AL-TOU	\$561,000/Year	\$70,000/Year Increase	\$2,090,000	No Payback. Not Recommended
Combined Services Under Rate PAT-1	\$325,500/Year	\$165,00/Year Reduction	\$2,090,000	Greater than 20-year Payback
Keep 3 services and change the 4MGD Service to PAT-1	\$430,000/Year	\$60,000/Year Reduction	\$0 (no cost)	Recommended. No capital cost

Moving Forward

- **Electrical service consolidation energy cost savings did not underwrite the capital costs however, consolidating electrical services provides other benefits:**
 - Simplifies the standby power system configuration and reliability.
 - Removing overhead power lines will free up usable site space
- **Changing the 4MGD utility service rate to PAT-1 was a “no cost” change that saved ~\$60,000/year.**



Agenda Item 8

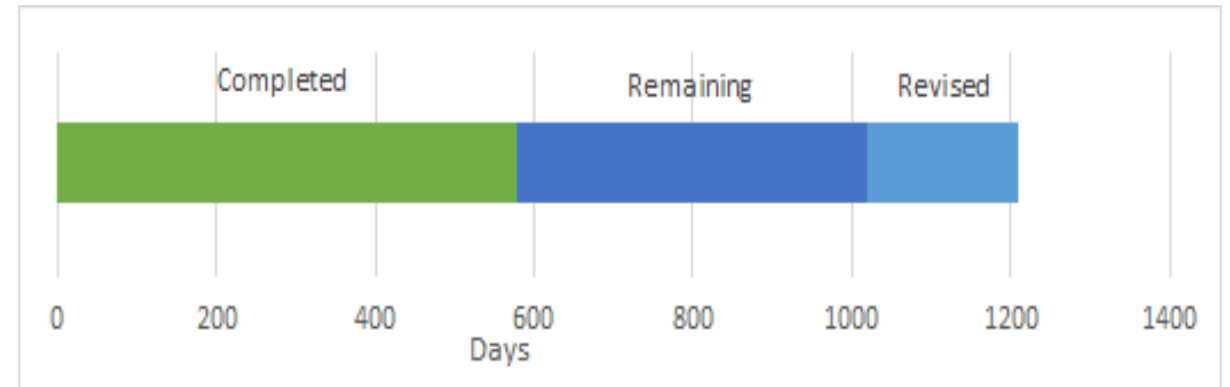
JB Latham Package B Project

Construction Update

April 8, 2021

Construction Schedule Update

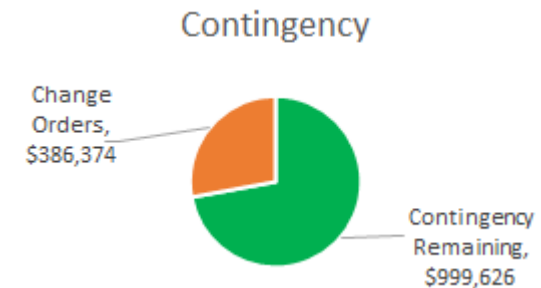
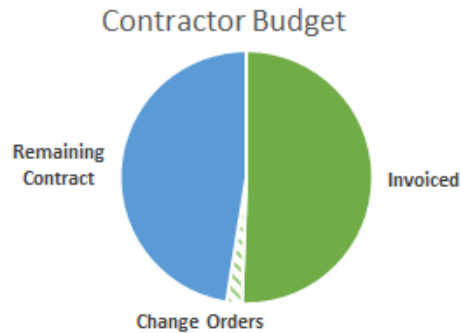
Schedule Completion	48%
Started	July 2019
Baseline Schedule Completion	August 2021
Revised Completion	February 2022



Schedule and Budget Update

Contractor Budget Completion	66%
Original Contract Value	\$19,320,853
Change Orders	\$386,374
Revised Contract Value	\$19,707,227
Invoiced	\$9,966,530

Total Project Budget Completion	45%
Original Contracts	\$19,320,853
Contingency	\$1,386,000
Invoiced	\$9,966,530
Contingency Used	\$386,374
Contract Remaining	\$10,353,949
Contingency Remaining	\$999,626

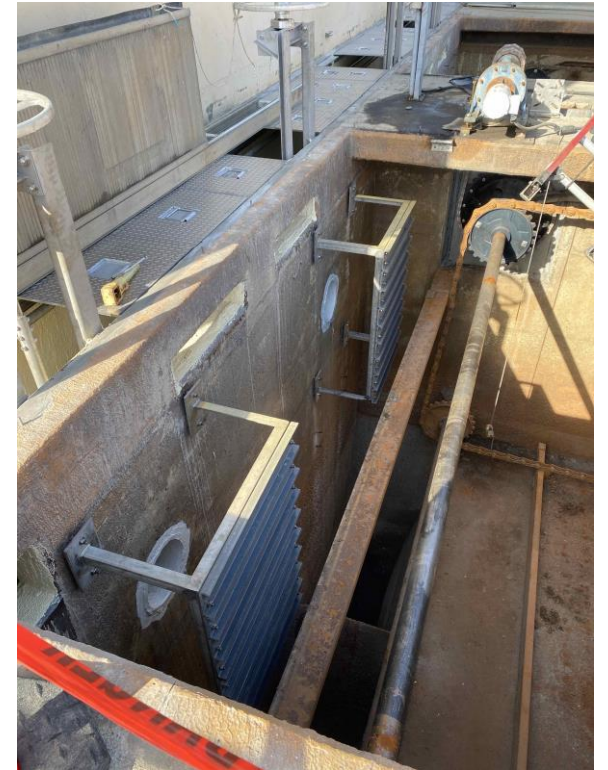
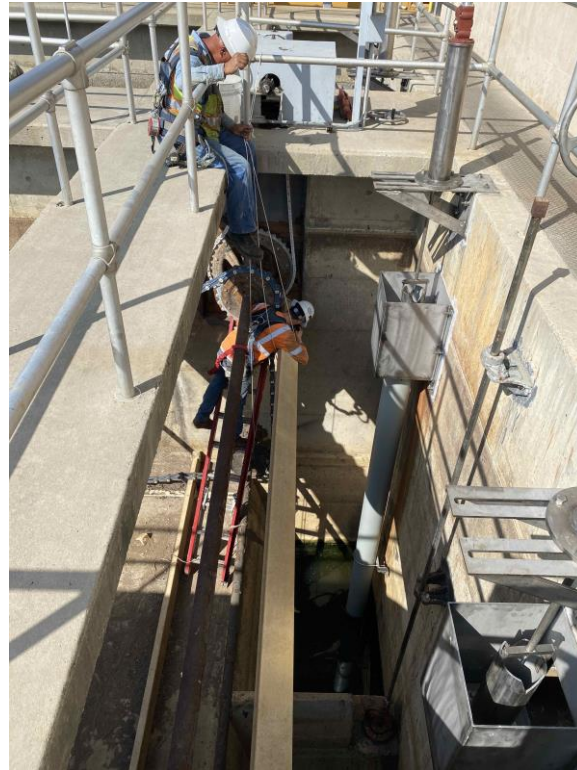


Construction Status Update

	Scope	Status	Est. % Complete
	Plant 1 and 2 Primary and Secondary Basins Rehabilitations	Ongoing	37%
	DAFT, TWAS, Digesters 1 through 3 Improvements	Ongoing	30%
	Laboratory Demolition	Ongoing	10%
	Digester 4 Improvements	Ongoing	97%
	Liquids Facility Safety Improvements	Ongoing	5%
	Solids Facility Safety Improvements	Ongoing	40%
	Boiler System	Ongoing	2%
	Fiber Loop	Ongoing	66%
	MCC Upgrades	Ongoing	90%
	Effluent Pump Station Improvements	Removed	15%
	Energy Building Structural Improvements	Removed	15%

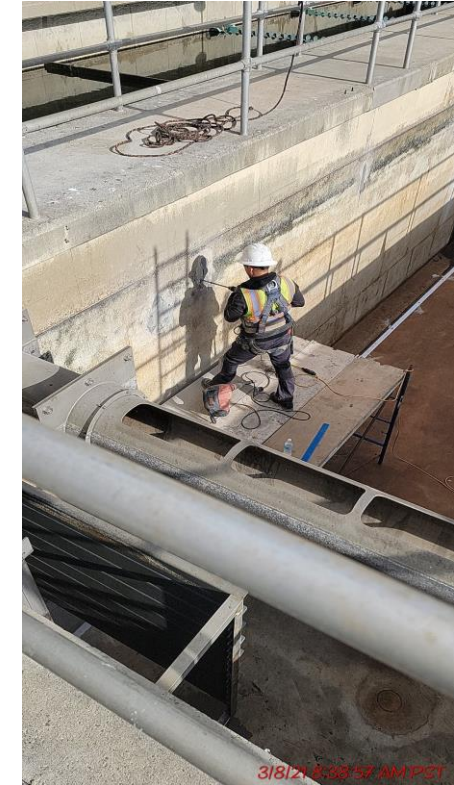
Plant 2 Primary and Secondary Basins

- Gates and baffles
- Repair influent channel walls
- Telescoping valves
- Work has been completed



Plant 1 Secondary Sedimentation Basins

- Replaced sludge collection equipment and launders
- Replaced inlet, drain, and telescoping valves
- Repaired concrete cracks
- Completed Tanks 1 through 3, moving onto Tanks 4 and 5



DAFT and TWAS Area

- DAFTs 1 and 2 Rehabilitation
- TWAS Pump Station
- Ongoing



Digesters 3 and 4

- Digester 4 rehabilitation
- Heating system
- Control building roof and stairs
- Digester 4 startup in manual operation



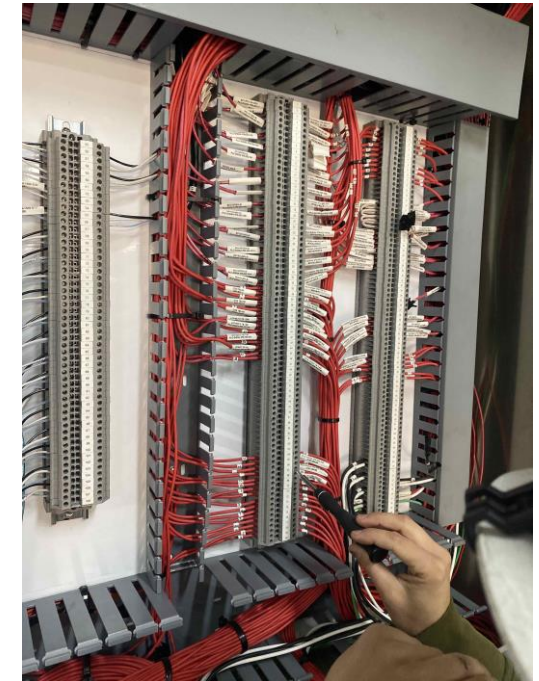
Digesters 1 and 2

- Control building roof
- Mixing and heating system
- Digester 3 cleaning comes first
- Removal of the existing boiler
- Installation of a new boiler system in the Energy Recovery Building
- Ongoing



Lab Demolition, Fiber Loop and Safety Improvements

- Lab Demolition
 - At the end of the project
- Fiber Loop
 - Ongoing
- Safety Improvements - ongoing
 - Handrails and toe boards
 - Fall protections
 - Hatch-skylight



Major Project Changes

- Removed scope for modification to the Effluent Pump Station
- Removed scope for the structural rehabilitation of the Energy Recovery Building
- Project delays due to various reasons
 - Digester 3 and 4 Control Building Roof
 - Ragging in Digester 3
 - Underground utilities impacting various duct banks
 - Olsson delays
- Contract extension for Butier and Carollo

Removed Scoped

- Effluent Pump Station

- Replacement of valves and piping
- Will be grouped with the MCC/VFD work in the area
- Project will start in the next 18 months
- Anticipated contract reduction of \$595,000



- Structural Rehabilitation in the Energy Recovery Building

- Addition of crane/hoist
- Replacement of roof and skylights
- Will be done with the centrate system re-piping in the building
- Project will start in the next 18 months
- Anticipated contract reduction of \$816,000



Project Outlook

- Contractor to continue with Plant 1 rehabilitation, Digesters and DAFT/TWAS area
- Awaiting revised project schedule with removed scope
- Awaiting credits for removed scope
- Awaiting finalized amended costs from Butier and Carollo