

Engineering

Blower Replacement Project

In November 2017, the District Board approved a construction services contract with Overaa to replace aging aeration equipment and improve the reliability and efficiency of the system. The new blowers and standby generator were successfully put into service. The remaining work includes cleanup and project close out activities. The contract completion date was October 18, 2019; the project was completed on time and on budget.

Plant Electrical Replacement Project

Design work continues on this project to rehabilitate or replace aging electrical components that are more than 30 years old and are becoming unreliable. The condition, age and outdated technology warranted an electrical system assessment that revealed several areas where replacement and upgrades are needed. The design is approximately 95% complete and it is expected to go out to bid in December 2019.

Collection System Master Plan

This project updates the 2008 Collection System Master Plan for District sewers. The work includes projecting sewer flow from established and planned development in the District service area. The retained consultant has developed a computer model of the collection system and has used the model to run several scenarios that predict sewer flow. Several segments of sewer have been identified with capacity deficiencies within the City of Fairfield. With the analysis complete, the consultant is preparing the Master Plan report. A summary of the effort and results will be provided at the January 2020 Board of Directors meeting.

Digester Reliability Improvement Project

The design is approximately 50 percent complete for the project. The work includes replacing the unreliable 30+ year old mixing system, piping components for Digester No. 2, and the failing emergency boiler. The design is expected to be completed in April 2020 and project advertised for construction bids shortly thereafter. Following the rehabilitation to Digester No. 2, Digester No. 2 can be put in service allowing Digester No. 1 to be taken out of service and cleaned and inspected.

Digester Feedstock and Biogas Utilization Master Plan

In early October, a kickoff meeting for this project was held with the consultant and District staff. Currently, the primary use of digester gas is to generate electricity and heat in a cogeneration engine. The current system was constructed in the early 1980s and many of the original components are over 35 years old. The District's main cogeneration engine-generator is approaching 20 years old, and while District staff continues to maintain the engine's functionality and reliability, this project will investigate options for current and future biogas utilization

The work in this project will provide the quality and quantity of biogas generated in processing wastewater. Projections will be based on biogas produced in current and future wastewater treatment plus biogas produced by processing other organics. This information will provide the design criteria for future digester gas management facilities.

Community Outreach

The following table presents the activities in the third quarter of 2019:

Date	Event	Participants	Description
10/8/2019	Inspire Career Fair	400	Career Fair for all 8 th Grade Students
9/23/2019	Coastal Creek Cleanup	632	632 Volunteers organized by FSSD staff removed nearly 700 pounds of garbage from 20 local creeks and waterways
9/20/2019	Critelli Olive Oil Factory Tour	4	Arranged a tour for pretreatment staff from the City of Chico. They have an olive oil manufacturer in their service area with compliance concerns, and were looking for pretreatment guidance

Personnel

During the 3rd quarter, two vacant positions were filled.

- 1) Theresa Parmigiani fills the vacant Senior Office Assistant position. In addition to many administrative support functions, she will be the primary administrative support for the Board of Directors.
- 2) Nicole Van Aken fills the Laboratory Manager position that was vacated by Giti Heravian who retired in September 2019.

Administration and Finance

Budget Analysis

Overall, the Expense and Revenue Budgets are tracking closely with the prorated fiscal year budget. The following addressing a few that do track with the prorated budget:

Table 1 Expenses.

Fund 1 – Operations

Account 0140/1601 - Major Maintenance resulted in significant variance, primarily due to timing of the Blower Project. The project started later than anticipated; however, overall project costs from start to completion in FY 2019/20 is projected to align with the total budget of \$10.6 million.

Account 0170 - Admin, Legal, Board, OPEB variance is primarily due to a one-time payment at the beginning of the fiscal year to reduce OPEB unfunded liability.

Fund 2 – Capital

Account 0220 – New Development Review/Inspection actual expense was primarily salaries and benefits. These costs are driven by the projects that are being developed in the Cities of Fairfield and Suisun City that impact District facilities.

Fund 4 – Drainage Maintenance

Account 0430 – Regional Facility Maintenance actual expenses include repair and replacement of lift stations.

Table 2 Revenue.

Revenue, in general, aligned with the budget. Actual connection fee revenue was lower than budget mainly because actual permits issued were less than what the City of Fairfield projected. Budget for FY 19/20 & 20/21 District-billed sewer charges have been adjusted/reduced to reflect the lower actual revenues in FYs 2017/18 & 2018/19.

Table 1

Fairfield-Suisun Sewer District
 Expense Report Summary - Budget Format
 Year-To-Date September 30, 2019

		Budget	YTD Actual	% Used
Fund 1 – Operations				
0110	Treatment Plant O&M	\$ 7,753,950	\$ 2,054,149	26%
0110	Electricity and Chemicals	1,433,000	379,133	26%
0115	Laboratory	704,000	244,090	35%
0130	City Sewer Line Maintenance	2,661,000	624,622	23%
0140/1601	Major Maintenance	12,998,000	2,503,125	19%
0170	Admin, Legal, Board, OPEB	3,685,000	2,422,093	66%
0160	Utility Billing - Fairfield	452,000	133,427	30%
0160	Utility Billing – Suisun	134,000	34,649	26%
0160	Financial & Personnel Services	851,000	195,560	23%
0150	Regulatory Programs	1,112,000	203,777	18%
Total Expenses		31,783,950	8,794,624	28%
Fund 2 – Construction				
0210	Project Planning	130,700	22,662	17%
0220	New Development	46,000	31,729	69%
	Review/Inspect			
0000	Collection System Master Plan	45,000	0	0%
0270	Northeast Fairfield PS	900,000	0	0%
0280	Digester Feedback/Biogas MP	375,000	0	0%
Total Expenses		1,496,700	54,391	4%
Fund 4 – Drainage Maintenance				
0410	Drainage Maint Admin	23,000	3,714	16%
0420	Local Facility Maintenance	959,000	0	0%
0430	Regional Facility Maintenance	62,000	21,812	35%
0440	URMP	439,350	143,480	33%
	Desilting	31,000	0	0%
	DM Maintenance & Upgrade	100,000	0	0%
Total Expenses		1,614,350	169,006	10%
Total – All Funds		\$ 34,895,000	\$ 9,018,021	26%

Table 2

Fairfield-Suisun Sewer District
 Revenue Report Summary
 Year-To-Date September 30, 2019

		FY 2019/20		
		Budget	YTD Actual	% Used
Fund 1 – Operations				
5010	Sewer Service Charges - FF	\$ 19,992,000	\$ 4,746,524	24%
5012	Sewer Service Charges - AB	957,000	282,526	30%
5013	Sewer Service Charges - District-billed	1,358,000	222,091	16%
5015	Sewer Service Charges - SS	4,632,000	1,199,669	26%
5020	Sewer Service Charges - TAFB	894,000	265,537	30%
5025	Sewer Service Charges - Other	-	500	0%
5305	Lease Income	-	21,731	0%
5405	Interest Earnings	739,000	218,043	30%
5505	Miscellaneous	153,000	3,044	2%
5510	Biosolids Facility Charge	79,000	54,780	69%
	Total	28,804,000	7,014,445	24%
Fund 2 – Construction				
5105	Capacity Fees - FF	3,181,000	560,331	18%
5110	Capacity Fees - SS	-	-	0%
5405	Interest Earnings	124,000	40,493	33%
5410	Interest - Connection Fees	-	2,327	0%
	Total	3,305,000	603,151	18%
Fund 4 – Drainage Maintenance				
5205	Drainage Maintenance	1,600,000	-	0%
5405	Interest Earnings	30,000	13,086	44%
	Total	1,630,000	13,086	1%
Total - All Funds		\$ 33,739,000	\$ 7,630,682	23%

Figure 1

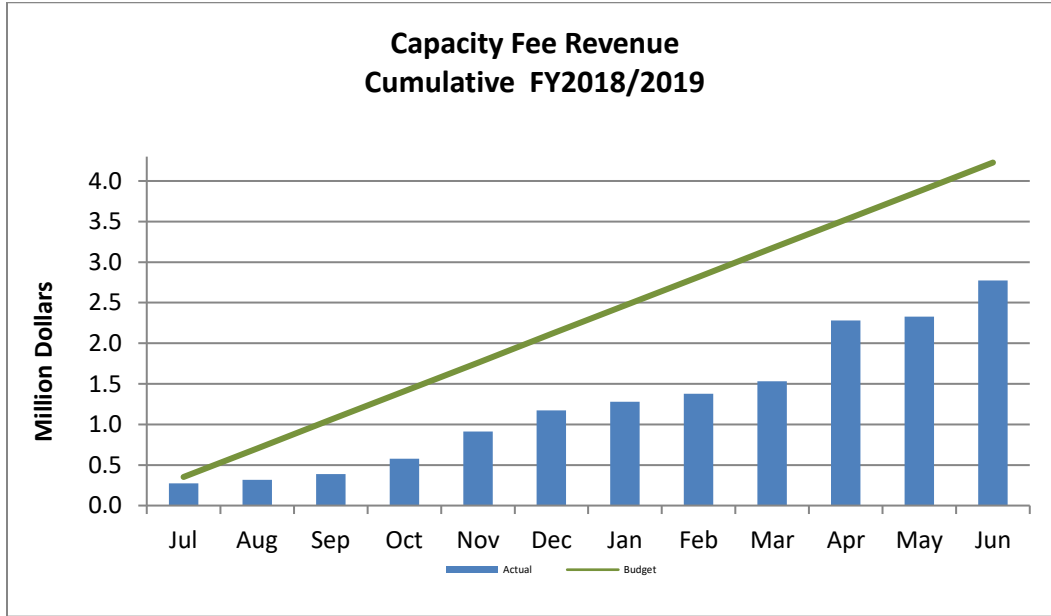


Figure 2

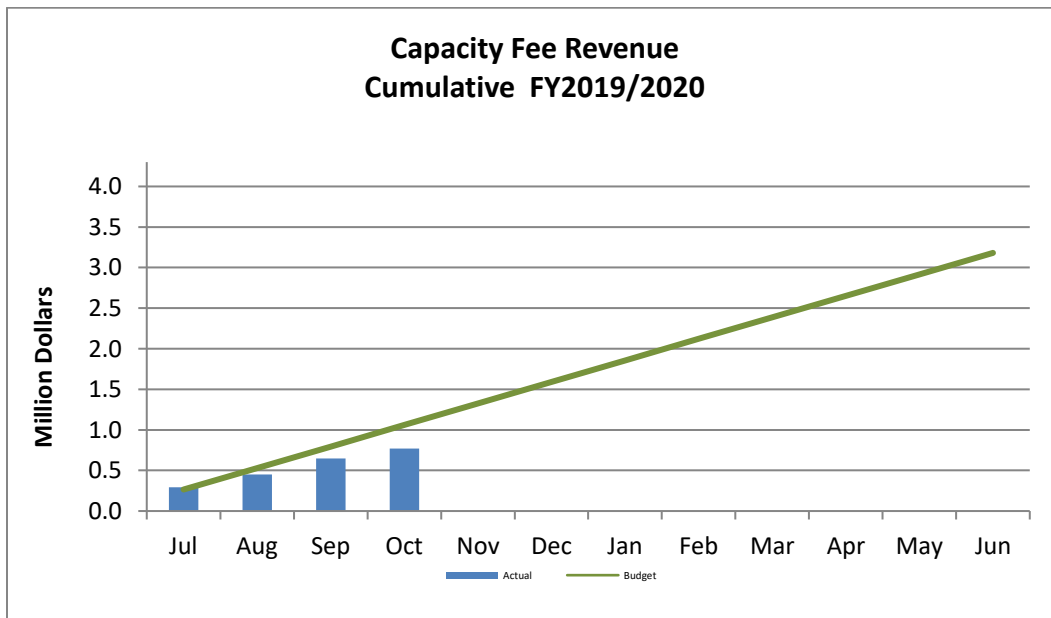


Figure 3

