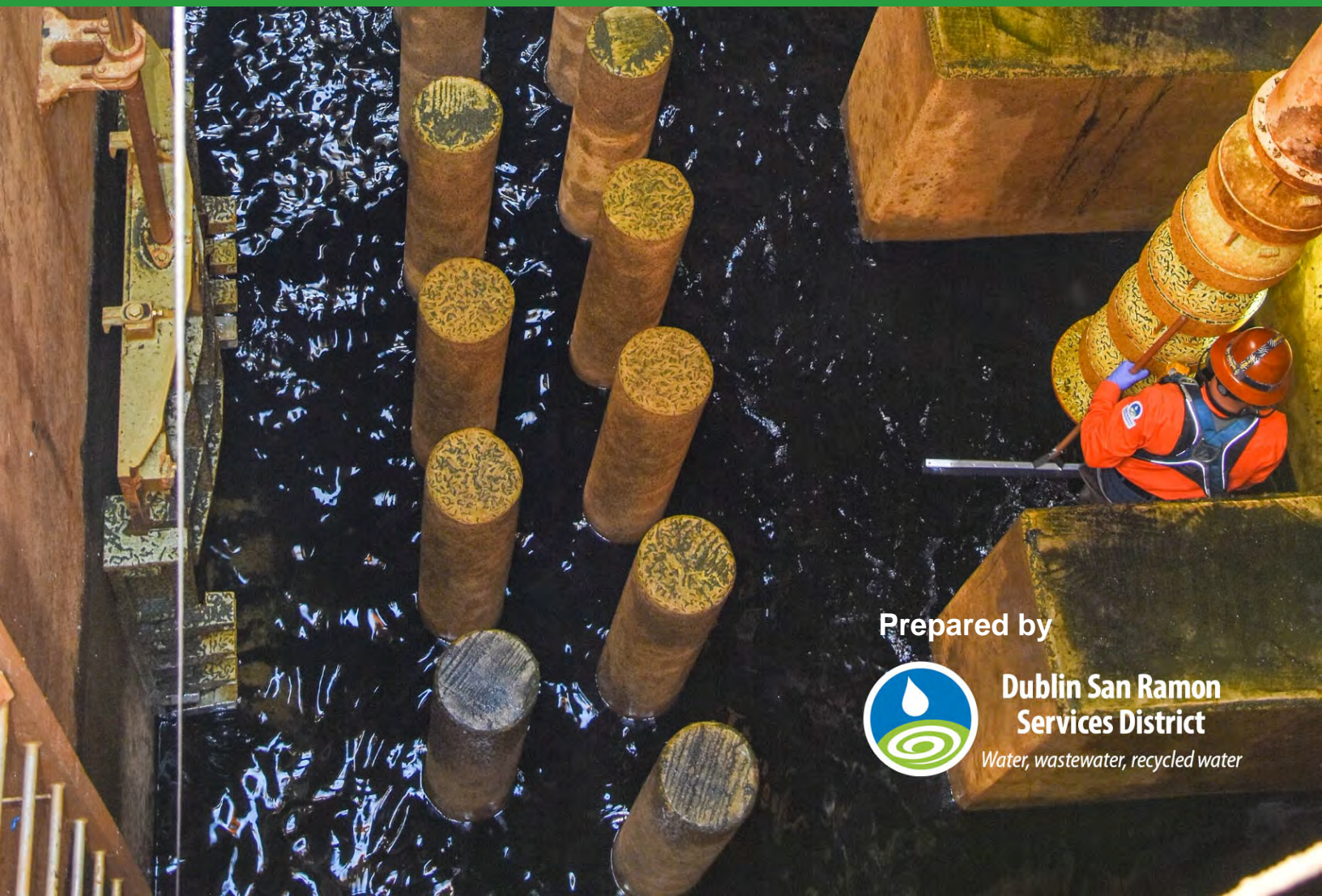




LAVWMA

QUARTERLY REPORT OF OPERATIONS

FY 2022-2023, 3rd Quarter



Prepared by



**Dublin San Ramon
Services District**

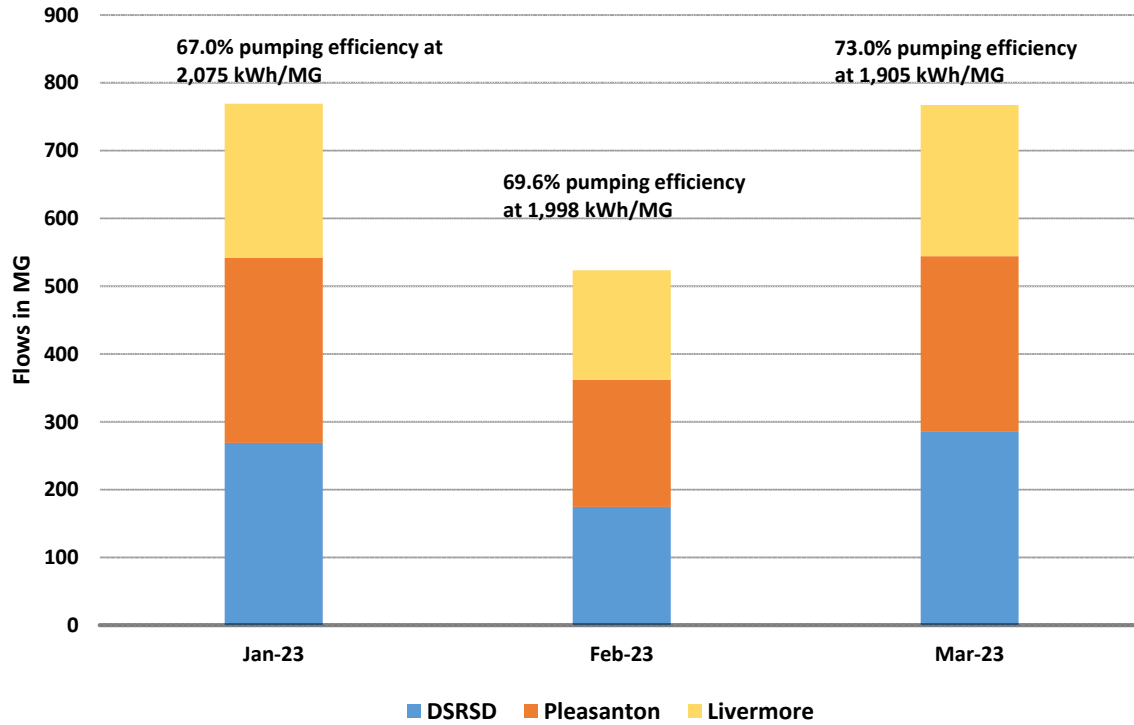
Water, wastewater, recycled water

QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
3rd Quarter FY 2022-2023: January to March 2023

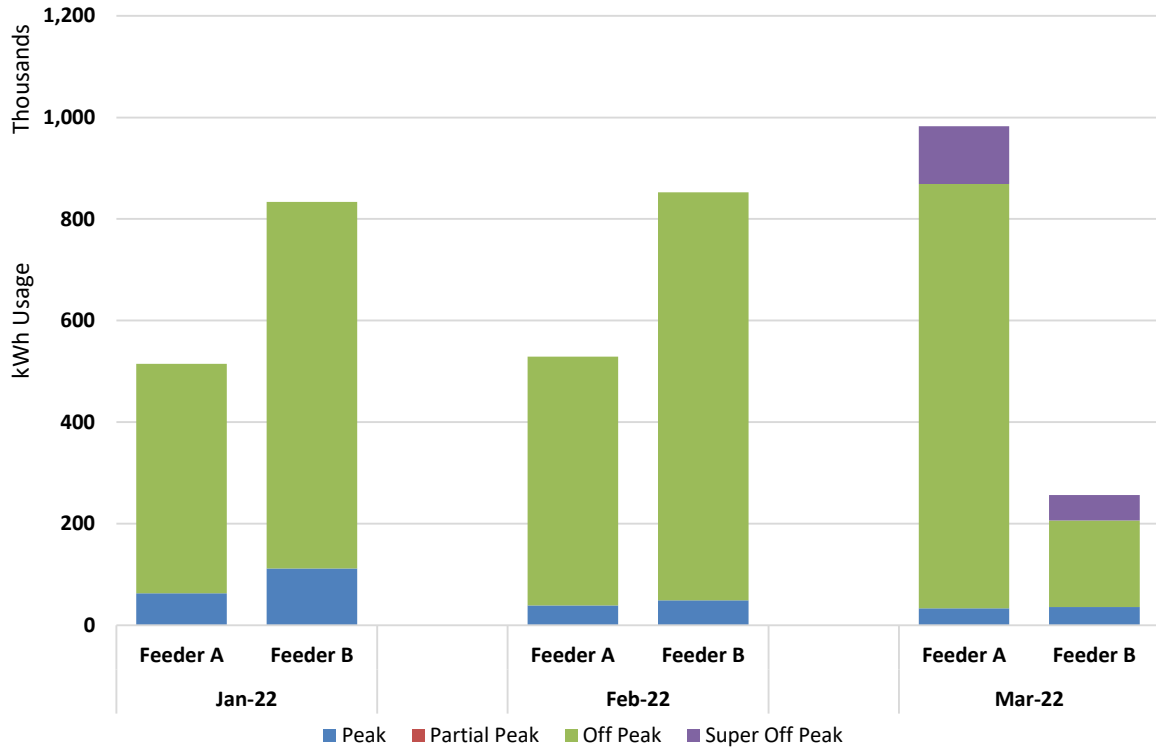
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LAVWMA FYE 2023 THIRD QUARTER AT A GLANCE

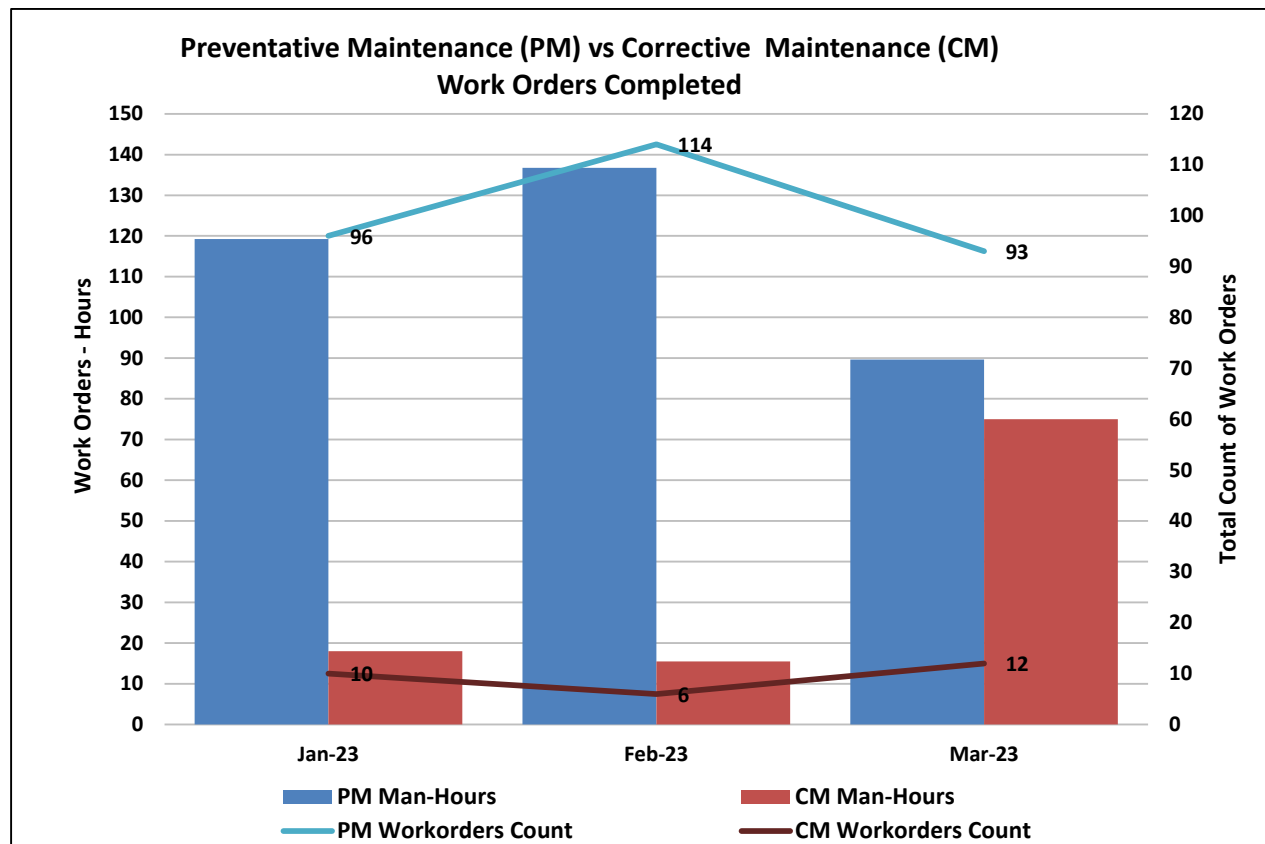
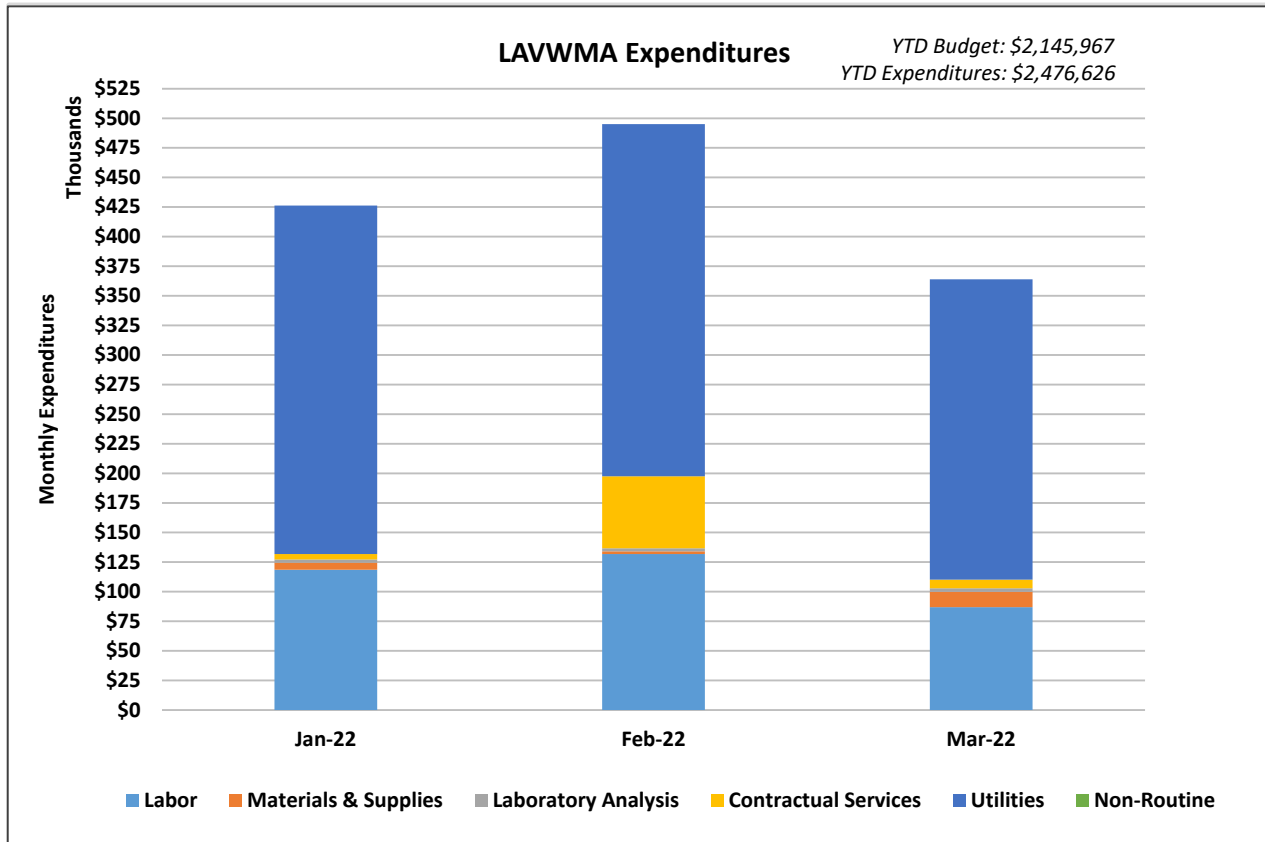
LAVWMA Monthly Export Flows and Pumping Efficiency



LAVWMA Energy Consumption



LAVWMA FYE 2023 THIRD QUARTER AT A GLANCE



QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
3rd Quarter FY 2022-2023: January to March 2023

1. EXECUTIVE SUMMARY

The Livermore-Amador Valley Water Management Agency (LAVWMA) pumping and effluent conveyance system operated above regular pumping rates during several historical rainfall events throughout the third quarter of Fiscal Year 2022-2023. A total of 2,059.81 million gallons of fully treated secondary effluent were pumped to San Francisco Bay via the East Bay Dischargers Authority (EBDA) outfall diffuser and San Leandro Sample Station (SLSS); this is almost twice the amount pumped during the previous quarter. The overall efficiency of the pumping system averaged 69.9%, with an average electrical cost of \$424 per million gallons, or \$138 per acre-foot.

Total year-to-date operations and maintenance (O&M) expense is \$2,476,626 or 87% of the O&M annual budget amount of \$2,861,290 and the overall cost of operation is \$665 per million gallons pumped or \$217 per acre-foot.

2. OPERATIONS

Of the 2,059.81 million gallons of effluent conveyed through the LAVWMA system, approximately 611 million gallons came from the City of Livermore, 720 million gallons from City of Pleasanton and 729 million gallons from DSRSD. The monthly export flow summary is shown on Table 4. Monthly reports sent to EBDA which detail daily export flows and monitoring analysis of the treated effluent during the quarter are shown on Table 9.

LAVWMA's emergency preparedness includes the permitted Wet Weather Operations Strategy. Between January and March, multiple atmospheric rivers pushed through northern California, bringing approximately 20 inches of rain and (as previously stated) almost twice the amount of flow conveyed through the LAVWMA system. For comparison, only one inch of rain and 1,079 MG of treated effluent flow was recorded during the same time frame in 2022. Additionally, PG&E continues to grow more unreliable in providing electricity to the region, as demonstrated by a PG&E power outage experienced by the LAVWMA system on March 26. DSRSD staff utilized empty storage basins and procured an emergency generator to ensure overall system power and conveyance reliability.

Currently PG&E implements a rate plan – broken down into peak, partial peak, off peak, and seasonal super off peak periods – that increases rates for energy used during certain periods of the day, based on energy demand across the energy grid. LAVWMA's energy consumption in the third quarter reflects the beginning of PG&E's seasonal "super off peak" rate, which is available during the spring months of March, April, and May between the hours of 9 AM and 2 PM, as well as unusually high energy consumption caused by the wet weather events and increased flow. Whenever possible throughout the reporting period, staff utilized an enhanced Operations Strategy, implementing an efficient pumping plan and avoided pumping during partial peak and peak PG&E energy demand periods. However, flow demands due to EBDA pumping restrictions and substantial rainfall required LAVWMA to run during peak rate periods for short intervals on several occasions; the resulting increased electrical costs are reflected in Table 1.

Over the past quarter, staff focused on system monitoring and reliability due to the impact by the storms. Response to the many storm events themselves and response to damage to the Arroyo Mocho creek bank contributed to the overall labor hours. Staff cleared silt and soil from the emergency discharge point at San Leandro Sample Station on two occasions. Influent flowmeters located at the LAVWMA Junction Structure (area before the LAVWMA holding basins) had reached

the end of their useful lives and were replaced on the DSRSD line and the Livermore line, leading to more accurate flow reading, particularly in anticipation of the low flow season. Staff conducted a discharge exercise at the two wet weather outfall locations identified in DSRSD's permit, which is described in greater detail in Section 5. Finally, the District addressed issues with the calcium thiosulfate pumps and replenished the inventory of calcium thiosulfate, which is used to remove chlorine from treated water before it is discharged into San Lorenzo Creek at the emergency discharge point. As a result, there was an increase in labor costs over the prior quarter, as is depicted by the LAVWMA Expenditures table on page 3. The above noteworthy items contributed to the significant increase in corrective work orders in March.



Photos: Before and after photos of the discharge point that was cleared of soil and silt runoff from the January 2023 storms.

3. MAINTENANCE

During the quarter, 875 hours were spent to complete 622 preventative maintenance work orders and 183 hours to complete 55 corrective maintenance work orders on LAVWMA equipment and systems.

The following are some noteworthy maintenance activities during the quarter:

Electrical:

- Troubleshoot and assessed 54" gate actuator at Junction Structure
- Prepped and tested Alamo Creek permitted emergency release point
- Troubleshoot and repaired junction structure sump pump
- Installed generator, transformer, and cables
- Tested rental generator (verified Proof of Concept) for emergency power to LAVWMA pump station
- Worked with consultant to set the generator relay trip settings for rental generator
- Tested the pumps while on standby generator
- Troubleshoot and repaired dewatering pumps for multiple basins
- Replaced faulty street lights throughout the pump station
- Tested LAVWMA generator phase rotation meter with contractor

Instrumentation and Controls:

- Prepped and tested Alamo Creek overflow discharge
- Installed and tested rectifier remote monitoring equipment
- Connected and tested new flow meter for Livermore pipeline in Junction Structure
- Connected and tested new flow meter for DSRSD pipeline in Junction Structure

- Tested SLSS flapper gate discharge to San Lorenzo Creek
- Repaired SLSS pressure transmitter
- Troubleshoot SLSS SCADA during one of the large storms
 - Upgraded SLSS SCADA server to industrial computer that is panel mounted
- Troubleshoot and repaired chlorine analyzer at Junction Structure
- Troubleshoot and repaired LAVMWA PS PLC I/O issues
- Troubleshoot pump 6 RTD issues

Mechanical:

- Replaced the 30" flow meter at the junction structure
- Removed several trees blown down from a wind storm
- Detected one air valve leak using Smart Detectors technology; removed obstruction and removed excess water to prevent spill from vault

4. **BUDGET VARIANCE AND EXPENSES**

Third quarter labor expenses totaled \$337,249 for 1,580 man-hours of effort, an average of 3.0 full time equivalents (FTEs). O&M expenses for the quarter including labor, supplies, laboratory analysis, contractual services, and utilities totaled \$1,285,293 for an average cost of \$624 per million gallons pumped or \$203 per acre-foot. The total expense for the Livermore sole use pipeline for the quarter was \$3,734.

As a direct result of the storms, O&M expenses were unusually high in several areas. Electrical charges caused by peak rate use have led utilities to exceed the projected year-to-date budget by \$390,805. DSRSD staff used contractual services to provide traffic management and implement the new emergency generator, with contractual services exceeding the projected year-to-date budget by \$100,733. Earlier labor savings were absorbed by additional staff time used to respond to the storm, with labor now only \$52,552 under the projected year-to-date budget. Overall, O&M expenses exceed the projected year-to-date budget by \$331,659. DSRSD staff have communicated with the LAVWMA General Manager regarding the variances and any resulting LAVWMA Board actions which may be necessary per the terms of the Maintenance Agreement.

Operation and maintenance (O&M) expenses and budget utilization details are shown on Tables 5, 6, 7, and 8.

5. **ITEMS OF INTEREST**

DSRSD is the operator for the LAVWMA export and storage facilities that pump the combined flow from the DSRSD WWTP and Livermore WWTP into EBDA's system for discharge into the San Francisco Bay. Per the 2021 EBDA-LAVWMA Amended and Restated Master Agreement, LAVWMA has rights to pump up to 41.2 MGD to the EBDA system but can be curtailed to 19.72 MGD under certain conditions. On January 6, staff managed a period where EBDA was restricting the amount of flow that LAVWMA could discharge to the EBDA system due to necessary EBDA pump repair work. During this period, staff diverted treated effluent flow to the LAVWMA storage basins. After the restriction was lifted, staff increased the export pumping capacity and ran multiple pumps during the peak PG&E demand period.

LAVWMA's discharge permit allows LAVWMA to utilize two wet weather outfalls, San Lorenzo Creek in San Leandro and Alamo Canal adjacent to the DSRSD WWTP, under certain wet weather conditions. In March DSRSD staff took advantage of the historic rainfall and subsequent increased creek flow, with water board and LAVWMA's GM approval, and conducted discharge exercises at each location. A combined Livermore and DSRSD discharge flow of 35,839 gallons was recorded during the Alamo Canal exercise, with no chlorine residual detected.

During this reporting period, staff also conducted a test at the San Leandro Sample Station, where a flow of 44,495 gallons was recorded. The San Lorenzo Creek discharge uncovered an operational issue with the dechlorination system; the calcium thiosulfate pumps did not deliver adequate product for disinfection. As a result of the exercises, DSRSD created a standard process to perform weekly tests and to flush the line and updated the flow totalizers to provide real-time data.



Photo: LAVWMA Emergency Discharge Exercise at the Alamo Canal LAVWMA Junction Structure, March 29, 2023

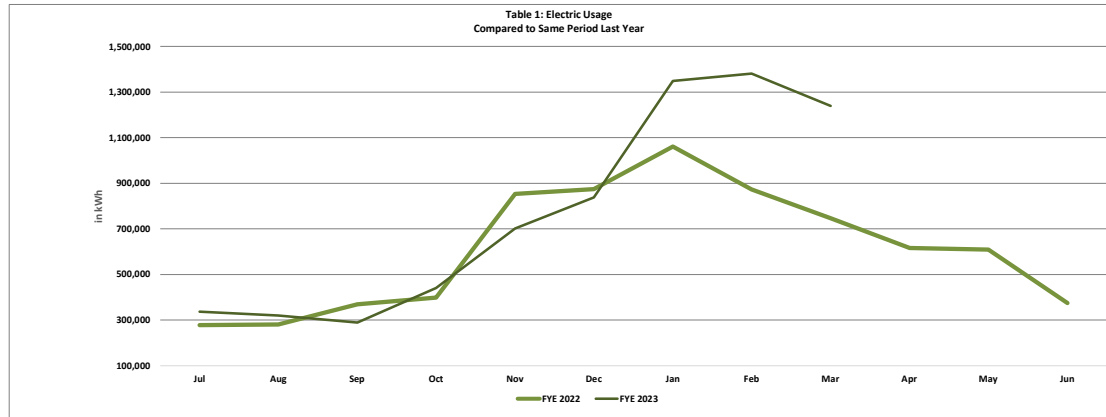
6. CAPITAL PROJECTS

As additional information, Table 11 provides a status summary of the capital projects that are primarily managed by the LAVWMA General Manager. The O&M budget and expenditures discussed in this quarterly report do not include capital projects.

TABLE 1 - Electric Usage, Efficiency and Costs

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report

PG&E Service Accounts: Rate Schedule B20 starting March 2021															Total Export Flow ¹ MG	Pumping					
Acct # 8482061923-1						Acct # 8440395259-5						Billing Days	Total			Cost				Efficiency	
Service A						Service B							kWh	\$/kWh		\$	Energy kWh/MG	\$/MG	\$/AF	%	
Month	kWh	Peak	Partial Peak	Off Peak	Super Off Peak	\$	kWh	Peak	Partial Peak	Off Peak	Super Off Peak	\$	Days	kWh	\$/kWh	\$					
Jul-22	0	0	0	0	0	\$1,807	336,556	1,732	1,635	333,189	0	\$72,791	31	336,556	\$0.22	\$74,598	167	2,021	\$448	\$146	68.8%
Aug-22	140,062	0	44	140,018	0	\$30,882	180,226	2,139	1,914	176,173	0	\$40,618	32	320,288	\$0.22	\$71,500	163	1,966	\$439	\$143	70.7%
Sep-22	123,902	0	0	123,902	0	\$28,070	165,391	2,105	1,813	161,473	0	\$37,727	30	289,293	\$0.23	\$65,797	131	2,209	\$502	\$164	62.9%
Oct-22	140,195	0	0	140,195	0	\$34,065	301,346	2,156	997	298,193	0	\$67,784	29	441,541	\$0.23	\$101,849	201	2,199	\$507	\$165	63.2%
Nov-22	245,189	0	0	245,189	0	\$54,210	456,025	2,817	0	453,208	0	\$87,368	32	701,214	\$0.20	\$141,578	340	2,063	\$416	\$136	67.4%
Dec-22	175,006	5,433	0	169,573	0	\$34,895	662,353	16,666	0	645,687	0	\$126,168	29	837,359	\$0.19	\$161,063	406	2,061	\$396	\$129	67.5%
Jan-23	514,735	62,976	0	451,759	0	\$121,783	833,426	111,786	0	721,640	0	\$171,299	30	1,348,161	\$0.22	\$293,082	650	2,075	\$451	\$147	67.0%
Feb-23	528,821	39,102	0	489,719	0	\$122,322	852,339	49,185	0	803,154	0	\$175,148	32	1,381,160	\$0.22	\$297,470	691	1,998	\$430	\$140	69.6%
Mar-23	982,853	33,351	0	835,295	114,207	\$187,908	256,407	35,931	0	170,330	50,146	\$65,305	30	1,239,260	\$0.20	\$253,213	650	1,905	\$389	\$127	73.0%
Apr-23																	412	0	\$0	\$0	n/a
May-23																	0	n/a	n/a	n/a	n/a
Jun-23																	0	n/a	n/a	n/a	n/a
Quarter																					
Average	675,470					\$144,004	647,391					\$137,250	31	1,322,860	\$0.21	\$281,255	664	1,993	\$424	\$138	69.9%
Total	2,026,409					\$432,013	1,942,172					\$411,751	92	3,968,581		\$843,764	1,992	5,978			
Minimum	514,735					\$121,783	256,407					\$65,305	30	1,239,260	\$0.20	\$253,213	650	1,905	\$389	\$127	67.0%
Maximum	982,853					\$187,908	852,339					\$175,148	32	1,381,160	\$0.22	\$297,470	691	2,075	\$451	\$147	73.0%
YTD																					
Average	316,751					\$68,438	449,341					\$93,801	31	766,092	\$0.21	\$162,239	318	1,850	\$398	\$130	67.8%
Total	2,850,763					\$615,943	4,044,069					\$844,207	275	6,894,832		\$1,460,150	3,811	18,497			
Minimum	0					\$1,807	165,391					\$37,727	29	289,293	\$0.19	\$65,797	0	0	\$0	\$0	62.9%
Maximum	982,853					\$187,908	852,339					\$175,148	32	1,381,160	\$0.23	\$297,470	691	2,209	\$507	\$165	73.0%



NOTES:

1) This Table 1 does not reflect what was the actual expenditures paid for the month and may not match what is in Table 8 Expenditures. The primary purpose of Table 1 is to show the electric usage and efficiency for the month it actually occurred.

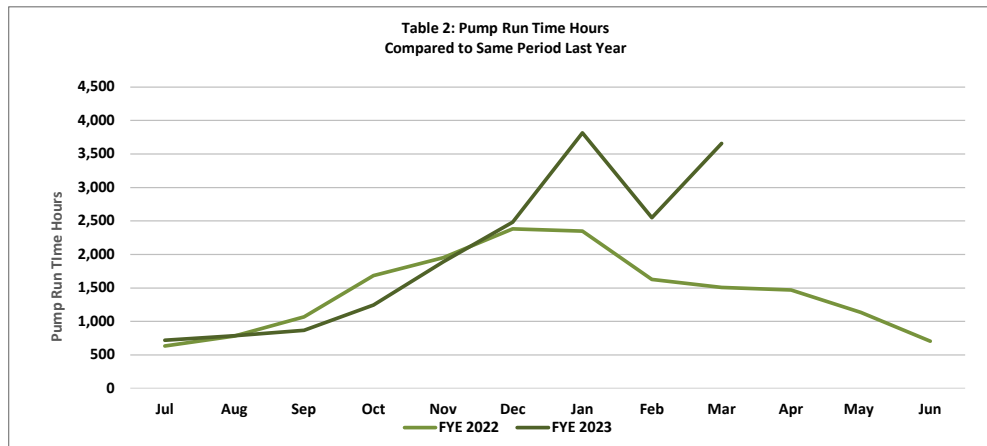
2) To calculate pumping efficiency, read dates, electric usage, and export flows are **matched to PG&E billing periods**: 12/13 - 1/11 for January, 1/12 - 2/12 for February, and 2/13 - 3/14 for March.

3) Pumping efficiency is based on continuous average flows and a TDH of 442.8 feet, including static lift of 408.8 feet and piping losses of 34 feet (per Charlie Joyce, B&C, 2/12/07).

TABLE 2 - Pump Run Time Hours

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report

Month	Pump No. 1	Pump No. 2	Pump No. 3	Pump No. 4	Pump No. 5	Pump No. 6	Pump No. 7	Pump No. 8	Pump No. 9	Pump No. 10	TOTAL	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Run Hours	Pump Utilization %
Jul-22	0	14	0	338	0	1	0	1	182	183	719	9.7%
Aug-22	0	1	95	296	0	1	93	1	0	298	784	10.5%
Sep-22	0	79	87	124	118	1	125	23	188	124	869	12.1%
Oct-22	0	207	79	186	128	47	309	109	110	68	1,243	16.7%
Nov-22	0	492	255	7	224	30	296	118	459	10	1,890	26.3%
Dec-22	0	430	320	240	301	105	425	110	521	29	2,483	33.4%
Jan-23	0	562	293	537	477	165	423	520	533	306	3,815	51.3%
Feb-23	0	214	279	160	428	376	167	470	169	288	2,550	37.9%
Mar-23	0	511	513	93	544	517	411	539	0	531	3,659	49.2%
Apr-23											0	0.0%
May-23											0	0.0%
Jun-23											0	0.0%
Quarter												
Average	0	429	361	263	483	353	334	510	234	375	3,341	46.1%
Total	0	1,287	1,084	790	1,449	1,058	1,001	1,529	702	1,125	10,024	
Minimum	0	214	279	93	428	165	167	470	0	288	2,550	37.9%
Maximum	0	562	513	537	544	517	423	539	533	531	3,815	51.3%
YTD												
Average	0	279	213	220	247	138	250	210	240	204	1,501	20.6%
Total	0	2,509	1,921	1,981	2,220	1,243	2,250	1,889	2,163	1,837	18,012	
Minimum	0	1	0	7	0	1	0	1	0	10	0	0.0%
Maximum	0	562	513	537	544	517	425	539	533	531	3,815	51.3%

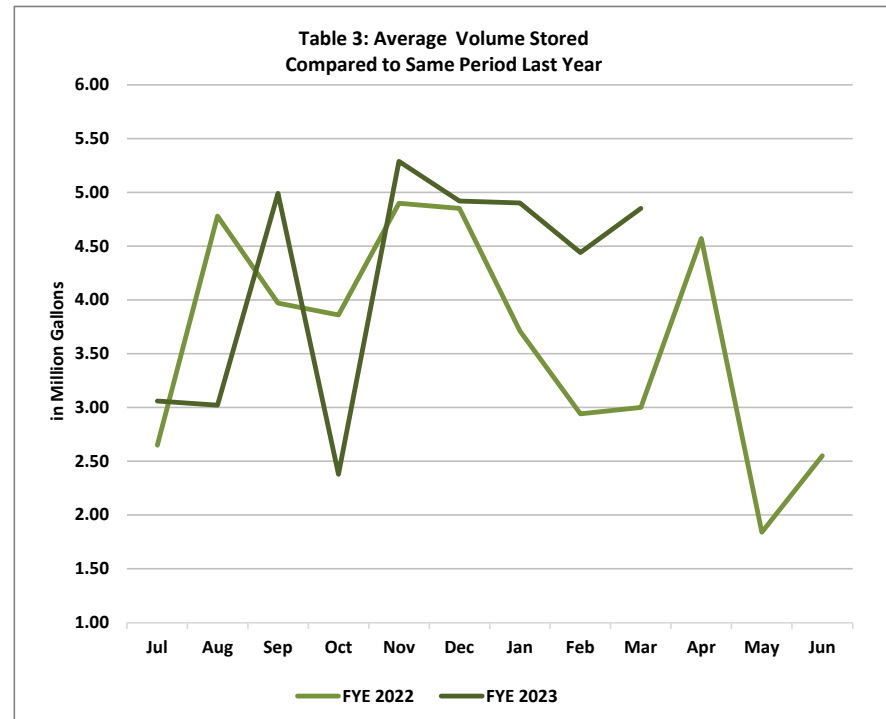


DUBLIN SAN RAMON SERVICES DISTRICT

TABLE 3 - Monthly Average Storage Basin Levels and Volume

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report

Month	Average Daily Volume			Average Volume Stored MG	Storage Available MG	Storage Basin Utilization %
	Basin No. 1	Basin No. 2	Basin No. 3			
	Feet	Feet	Feet			
Jul-22	1.58	0.21	4.24	3.06	18	17.0%
Aug-22	2.17	0.22	3.82	3.02	18	16.8%
Sep-22	3.18	1.52	5.08	4.99	18	27.7%
Oct-22	3.20	0.21	1.77	2.38	18	13.2%
Nov-22	1.48	2.31	6.06	5.29	18	29.4%
Dec-22	4.06	0.25	5.27	4.92	18	27.3%
Jan-23	4.88	3.45	0.86	4.90	18	27.2%
Feb-23	2.11	0.05	6.03	4.44	18	24.7%
Mar-23	3.08	0.11	6.23	4.85	18	26.9%
Apr-23					18	0.0%
May-23					18	0.0%
Jun-23					18	0.0%
Quarter						
Average	3.36	1.20	4.37	4.73		0.26
Minimum	2.11	0.05	0.86	4.44		0.25
Maximum	4.88	3.45	6.23	4.90		0.27
YTD						
Average	3.02	1.02	4.39	4.21		17.5%
Minimum	1.48	0.05	0.86	2.38		0.0%
Maximum	4.88	3.45	6.23	5.29		29.4%



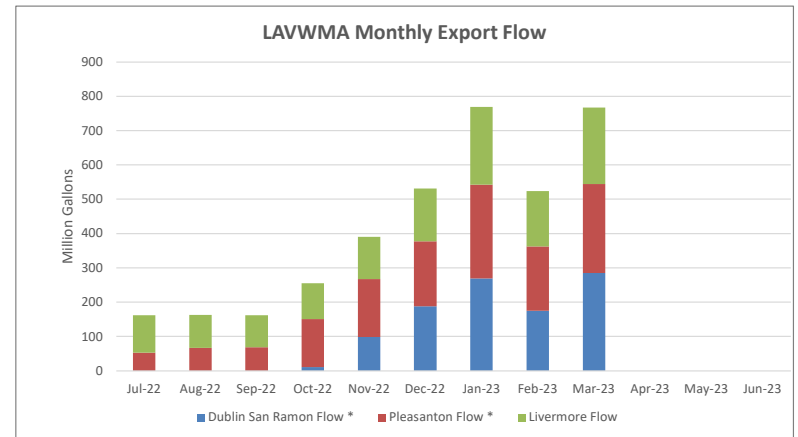
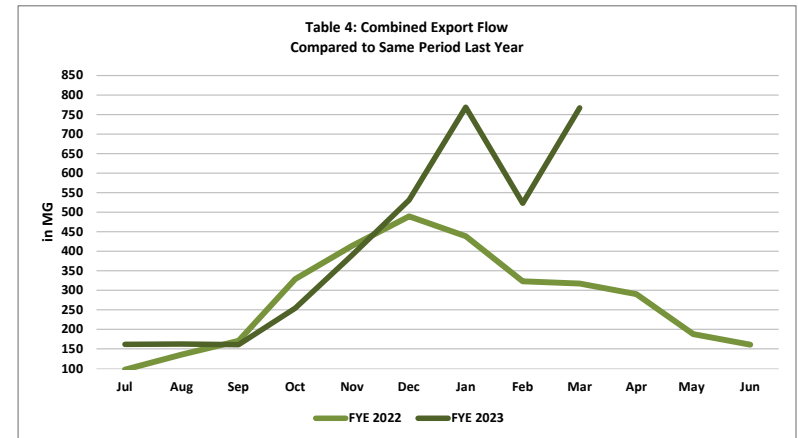
Note: Total available storage volume is 18 million gallons.

TABLE 4 - Monthly Export Flow

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report
Estimated Flow: 3,552 MG

	Dublin San Ramon	Pleasanton	Livermore	Combined Export	Total for Quarter	PGE tab
Month	Flow * MG	Flow * MG	Flow MG	Flow MG		
Jul-22	0.00	52.86	109.08	161.93		161.93
Aug-22	0.00	66.98	95.65	162.62		162.62
Sep-22	0.00	68.48	92.90	161.38	485.94	161.38
Oct-22	10.48	140.14	104.04	254.65		254.65
Nov-22	98.09	169.48	122.41	389.98		389.98
Dec-22	187.90	189.56	154.12	531.58	1,176.22	531.58
Jan-23	268.84	273.25	227.01	769.11		769.11
Feb-23	174.59	187.42	161.41	523.42		523.42
Mar-23	285.27	259.05	222.97	767.29	2,059.81	767.29
Apr-23	0.00	0.00				0.00
May-23	0.00	0.00				0.00
Jun-23	0.00	0.00			0.00	88.82
Quarter						
Total	728.70	719.73	611.39	2,059.81		
Average	242.90	239.91	203.80	686.60		
Minimum	174.59	187.42	161.41	523.42		
Maximum	285.27	273.25	227.01	769.11		
YTD						
Total	1,025.16	1,407.22	1,289.58	3,721.97		
Average	85.43	117.27	143.29	413.55		
Minimum	0.00	0.00	92.90	161.38		
Maximum	285.27	273.25	227.01	769.11		

Budgeted Flow:
3552



* Monthly totals do not include flows diverted for recycling use by DERWA and Pleasanton.

TABLE 5 - Labor Effort, Expenditures, and Budget Utilization

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report

FY Labor Budget \$1,161,350

	Billed			YTD		Labor	Export	
	Labor	FTE	Labor	Labor	Budget	Budget	Flow	
Month	Hours	Equiv	Invoice	Expense	Utilization	Remaining	MG	AF
-----	-----	-----	-----	-----	-----	-----	-----	-----
Jul-22	433.0	2.5	\$83,781	\$83,781	7.2%	\$1,077,569	161.93	497
Aug-22	345.0	2.0	\$73,088	\$156,869	13.5%	\$1,004,481	162.62	499
Sep-22	343.0	2.0	\$66,501	\$223,370	19.2%	\$937,980	161.38	495
Oct-22	567.5	3.3	\$105,424	\$328,794	28.3%	\$832,556	254.65	782
Nov-22	215.0	1.2	\$46,528	\$375,322	32.3%	\$786,028	389.98	1,197
Dec-22	532.5	3.1	\$105,889	\$481,211	41.4%	\$680,139	531.58	1,631
Jan-23	576.0	3.3	\$118,515	\$599,727	51.6%	\$561,623	769.11	2,360
Feb-23	605.5	3.5	\$131,785	\$731,512	63.0%	\$429,838	523.42	1,606
Mar-23	398.5	2.3	\$86,949	\$818,461	70.5%	\$342,889	767.29	2,355
Apr-23								
May-23								
Jun-23								
<u>QUARTER</u>								
Total	1,580.0		\$337,249				2,059.81	6,322
Average	526.7	3.0	\$112,416				686.60	2,107
Minimum	398.5	2.3	\$86,949				523.42	1,606
Maximum	605.5	3.5	\$131,785				769.11	2,360
<u>YTD</u>								
Total YTD	4,016.0		\$818,461		70.5%	\$342,889	3,721.97	11,423
Average YTD	446.2	2.6	\$90,940				413.55	1,269
Minimum	215.0	1.2	\$46,528				161.38	495
Maximum	605.5	3.5	\$131,785				769.11	2,360

Notes:

TABLE 6 - O&M Expenditures and Budget Utilization

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report

Total O&M Budget: **\$2,861,289**

Month	Labor Expenses	A/P Expenses	Total O&M Expenses	YTD O&M Expenses	Budget Utilization	O&M Budget Remaining	Overall O&M Cost		Export Flow	
							\$/MG	\$/AF	MG	AF
Jul-22	\$83,781	\$3,146	\$86,927	\$86,927	3.0%	\$2,774,362	\$537	\$175	161.93	497
Aug-22	\$73,088	\$171,670	\$244,757	\$331,684	11.6%	\$2,529,605	\$1,505	\$490	162.62	499
Sep-22	\$66,501	\$75,275	\$141,776	\$473,460	16.5%	\$2,387,829	\$879	\$286	161.38	495
Oct-22	\$105,424	\$143,851	\$249,275	\$722,735	25.3%	\$2,138,554	\$979	\$319	254.65	782
Nov-22	\$46,528	\$147,294	\$193,823	\$916,558	32.0%	\$1,944,731	\$497	\$162	389.98	1,197
Dec-22	\$105,889	\$168,886	\$274,775	\$1,191,333	41.6%	\$1,669,956	\$517	\$168	531.58	1,631
Jan-23	\$118,515	\$307,699	\$426,215	\$1,617,548	56.5%	\$1,243,741	\$554	\$181	769.11	2,360
Feb-23	\$131,785	\$363,328	\$495,113	\$2,112,661	73.8%	\$748,628	\$946	\$308	523.42	1,606
Mar-23	\$86,949	\$277,017	\$363,965	\$2,476,626	86.6%	\$384,663	\$474	\$155	767.29	2,355
Apr-23										
May-23										
Jun-23										
<u>QUARTER</u>										
Total	\$337,249	\$948,044	\$1,285,293				\$624	\$203	2,059.81	6,322
Average	\$112,416	\$316,015	\$428,431						686.60	2,107
Minimum	\$86,949	\$277,017	\$363,965				\$474	\$155	523.42	1,606
Maximum	\$131,785	\$363,328	\$495,113				\$946	\$308	769.11	2,360
<u>YTD</u>										
Total YTD	\$818,461	\$1,658,166	\$2,476,626		86.6%	\$384,663	\$665	\$217	3,721.97	11,423
Average YTD	\$90,940	\$184,241	\$275,181							
Minimum	\$46,528	\$3,146	\$86,927				\$474	\$155	161.38	495
Maximum	\$131,785	\$363,328	\$495,113				\$1,505	\$490	769.11	2,360

Notes:

TABLE 7 - O&M Expenditures and Budget Utilization for Livermore Sole Use Facilities

LAVWMA SYSTEM: Fiscal Year 2022-2023, Quarterly Report

Livermore Sole Use Facilities			
Month	Labor	A/P	Total
-----	Expenses	Expenses	Expenses
-----	-----	-----	-----
Jul-22	\$0	\$0	\$0
Aug-22	\$0	\$545	\$545
Sep-22	\$0	\$257	\$257
Oct-22	\$0	-\$461	-\$461
Nov-22	\$0	\$550	\$550
Dec-22	\$0	\$1,245	\$1,245
Jan-23	\$0	\$1,545	\$1,545
Feb-23	\$589	\$140	\$729
Mar-23	\$1,331	\$129	\$1,460
Apr-23	\$0	\$0	\$0
May-23	\$0	\$0	\$0
Jun-23	\$0	\$0	\$0
<u>Quarter</u>			
Total	\$1,920	\$1,814	\$3,734
Average	\$640	\$605	\$1,245
Minimum	\$0	\$129	\$729
Maximum	\$1,331	\$1,545	\$1,545
<u>YTD</u>			
YTD Total	\$1,920	\$3,950	\$5,870
YTD Average	\$160	\$329	\$489
YTD Minimum	\$0	-\$461	-\$461
YTD Maximum	\$1,331	\$1,545	\$1,545

TABLE 8

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES: GOODS & SERVICES

Current FY Period: 9

ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M															
	Budget FY 2022-2023	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023	YTD TOTAL	YTD Budget
Labor															
Staff	\$1,161,350	\$83,781	\$73,088	\$66,501	\$105,424	\$46,528	\$105,889	\$118,515	\$131,785	\$86,949				\$818,461	\$871,013
Subtotal	\$1,161,350	\$83,781	\$73,088	\$66,501	\$105,424	\$46,528	\$105,889	\$118,515	\$131,785	\$86,949	\$0	\$0	\$0	\$818,461	\$871,013
Materials & Supplies															
Operations Supplies	\$13,650	\$74	\$12	\$12	\$12	\$12	\$14	\$14	\$14	\$14				\$179	\$10,238
Mechanical Supplies	\$27,300	\$432	\$238	\$249		\$1,882	\$1,199	\$3,617	\$657	\$2,355				\$10,629	\$20,475
Electrical Supplies	\$48,447	\$19	\$1,188	\$3,675	\$2,274	\$19	\$38	\$2,420	\$1,631	\$10,639				\$21,903	\$36,335
Subtotal	\$89,397	\$526	\$1,438	\$3,936	\$2,286	\$1,913	\$1,251	\$6,051	\$2,302	\$13,007	\$0	\$0	\$0	\$32,711	\$67,048
Laboratory Analysis															
Compliance Testing	\$10,500	\$848	\$1,060	\$848	\$848	\$1,060	\$848	\$848	\$896	\$1,120				\$8,376	\$7,875
Operational Support Testing	\$4,200	\$392	\$392	\$392	\$392	\$392	\$392	\$392	\$414	\$414				\$3,572	\$3,150
Special Sampling	\$23,100	\$1,380	\$1,490	\$1,380	\$1,380	\$1,490	\$1,380	\$1,380	\$1,344	\$1,344				\$12,568	\$17,325
Subtotal	\$37,800	\$2,620	\$2,942	\$2,620	\$2,620	\$2,942	\$2,620	\$2,620	\$2,654	\$2,878	\$0	\$0	\$0	\$24,516	\$28,350
Contractual Services															
Sub-surface Repairs	\$15,750													\$0	\$11,813
Street Sweeping	\$5,250													\$0	\$3,938
Cathodic Protection Survey & Repairs	\$31,500													\$0	\$23,625
Underground Service Alert	\$4,725				\$508									\$508	\$3,544
SCADA software maintenance contract	\$17,850		\$5,052							\$376				\$5,428	\$13,388
Remote monitoring annual service for PS and Rec	\$5,250													\$0	\$3,938
Med voltage switchgear 3-yr PM (FY22, \$18k)														\$0	\$0
HVAC Maintenance/Repairs	\$788													\$0	\$591
Termite/Pest Control	\$945													\$0	\$709
Landscape/weed maintenance	\$10,500			\$980										\$980	\$7,875
Janitorial Service	\$9,975	paid in July	\$440	\$880			\$1,320			\$880				\$3,519	\$7,481
Fire Extinguisher Maintenance	\$210													\$0	\$158
Postage/Shipping Charges	\$0													\$0	\$0
Misc Professional/Contractual Services	\$31,500		\$14,008		\$37,049		\$1,763	\$4,684	\$60,762	\$6,093				\$124,358	\$23,625
Subtotal	\$134,243	\$0	\$19,499	\$1,860	\$37,556	\$0	\$3,083	\$4,684	\$60,762	\$7,349	\$0	\$0	\$0	\$134,793	\$100,682
Utilities															
Electricity (PG&E)	\$1,430,205	paid in Aug	\$147,188	\$66,310	\$101,389	\$142,128	\$161,717	\$293,775	\$297,610	\$253,342				\$1,463,459	\$1,072,654
Water & Sewer (Pleasanton)	\$945		\$396	\$327		\$311		\$354		\$218				\$1,605	\$709
Water (EBMUD)	\$1,050		\$207	\$222			\$215	\$215		\$222				\$1,082	\$788
Telephone/communications	\$6,300													\$0	\$4,725
WW Treatment (DSRSD)	\$0													\$0	\$0
Subtotal	\$1,438,500	\$0	\$147,790	\$66,859	\$101,389	\$142,439	\$161,932	\$294,344	\$297,610	\$253,782	\$0	\$0	\$0	\$1,466,146	\$1,078,875
Non-Routine															
	\$0													\$0	\$0
	\$0													\$0	\$0
Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Monthly Total		\$86,927	\$244,757	\$141,776	\$249,275	\$193,823	\$274,775	\$426,215	\$495,113	\$363,965	\$0	\$0	\$0	\$2,476,626	\$2,145,968
YTD Total	\$2,861,290	\$86,927	\$331,684	\$473,460	\$722,735	\$916,558	\$1,191,333	\$1,617,548	\$2,112,661	\$2,476,626	\$2,476,626	\$2,476,626	\$2,476,626		
Combined Export Flow, mg	3552	162	163	161	256	390	532	769	523	767				3,723	2,664
Pumping Efficiency															
Monthly Cost, \$/mg		\$537	\$1,505	\$879	\$975	\$497	\$517	\$554	\$946	\$474	-	-	-		
YTD Running Cost, \$/mg	\$805	\$537	\$1,022	\$974	\$975	\$810	\$716	\$665	\$715	\$665	-	-	-	\$665	

Q3 Notes:

Months of storms with unprecedented amount of rain

Includes \$44,582.52 Generator & Transformer because of the storms

Electricity costs increased more than \$100,000/month, due to electrical demand during storms

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES: LABOR

Current FY Period: 9

ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M														
FY 2022-2023	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023	May 2023	Jun 2023	YTD TOTAL	YTD Budget
<i>Estimated Personnel Hours</i>														
Division 51 - FOD	40	-	-	-	10.00	-	10.00	-	-	-	-	-	20.00	30.00
Water/Wastewater Sys Lead Op	0												-	-
Water/Wastewater Sys OP IV-On Call	0												-	-
Water/Wastewater Sys OP IV	30												-	22.50
Water/Wastewater Sys OP III	0												-	-
Water/Wastewater Sys OP I/II	10				10.00		10.00						20.00	7.50
Maintenance Worker	0												-	-
Supervisor	0												-	-
Division 52 - WWTP	3,080	133.00	121.50	171.00	284.00	123.00	250.50	140.00	125.50	115.00	-	-	1,463.50	2,310.00
Process Lead Operator IV/V	150		24.00	1.00	10.00	7.00	7.00	12.50	2.00	12.00			75.50	112.50
Senior WWTP Operator III	720	37.00	73.50	79.50	72.00	72.00	27.00	31.00	27.50				481.50	540.00
Operator In Training	400	59.50	9.00	79.50	148.00	12.00	95.50	100.50	68.00	58.50			630.50	300.00
Operator II	1,700	36.50	15.00	11.00	54.00	32.00	86.00						234.50	1,275.00
Operator II (SLSS)	0												-	-
Operations Superintendent	110							24.50	17.00				41.50	82.50
Division 53 - MECH	1,230	149.50	171.00	138.50	147.50	69.00	207.00	209.50	291.50	162.50	-	-	1,546.00	922.50
Senior Mechanic-Crane Cert	60	44.00	70.50	69.00	29.50	34.00	77.00	95.00	117.50	88.50			625.00	45.00
Senior Mechanic - USA	80		16.50	29.50	12.50	8.00			2.00				68.50	60.00
Maintenance Worker	60				5.00								5.00	45.00
Mechanic I/II	980	20.50	29.00	28.00	17.00	4.00	62.50	86.50	109.00	40.00			396.50	735.00
Mechanic II-Crane Cert	0	68.50	43.00	10.00	43.00	9.00	41.50	8.00	39.00	9.00			271.00	-
Mechanic I/II - USA	0		4.00	2.00	10.00	2.00	24.00	20.00	17.00	23.00			102.00	-
Mechanic II-Crane Cert - USA	0	16.50	8.00		30.50	12.00	2.00						69.00	-
Supervisor	50							9.00					9.00	37.50
Division 54 - ELEC	1,130	136.00	44.00	31.00	119.50	16.00	42.00	223.00	174.50	84.50	-	-	870.50	847.50
Senior Instrument/Controls Tech	30	18.00		1.00		2.00	9.00	20.00	14.00	10.00			74.00	22.50
Instrumentation & Controls Tech I/II	300	55.00	35.00	8.50	63.50	5.00	7.00	68.00	74.50	63.50			380.00	225.00
OPS Control Sys Spec	300												-	225.00
Senior Electrician	30							36.00	10.00				46.00	22.50
Electrician I/II	440	63.00	7.00	19.50	53.00	8.00	26.00	94.00	73.00	8.00			351.50	330.00
Principal Electrical Engineer	30		2.00	2.00	3.00	1.00		5.00	3.00	3.00			19.00	22.50
Division 55 - Laboratory	0	-	-	-	-	-	-	-	-	24.00	-	-	24.00	-
EC Inspector II-Pretreatment	0	-							24.00				24.00	-
Laboratory Technician	0	-											-	-
Supervisor	0	-											-	-
Division 26 - SAFETY	60	-	-	-	-	-	-	-	-	-	-	-	-	45.00
Safety Officer	60	-	-	-	-	-	-	-	-	-	-	-	-	45.00
Division 40 - ENG	260	14.50	8.50	2.50	6.50	7.00	23.00	3.50	14.00	12.50	-	-	92.00	195.00
Senior Engineer-Supervisory	0												-	-
Associate/Senior Civil Engineer-SME	100	14.50	4.50	2.50	6.50	7.00	23.00	3.50	14.00	10.50			86.00	75.00
Construction Inspector I/II	80		4.00										4.00	60.00
Engineering Technician II	40								2.00				2.00	30.00
GIS Analyst	40												-	30.00
<i>Total Estimated Personnel Hours</i>	5,800													
<i>FTE</i>	2.8													
Total Monthly Hours	433.00	345.00	343.00	567.50	215.00	532.50	576.00	605.50	398.50	-	-	-	4,016.00	4,350.00

Notes:

Division 55 hours in March associated with the discharge exercise

TABLE 9

LAVWMA	January		2023
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 SELECT FIRST

Enter only numerical data in the result columns and only qualifiers in the qualifier columns. Any other comments should go in the corresponding cell on the Comments tab.

Parameter	Flow	CBOD Qual	CBOD	TSS Qual	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Qual	Fecal Coliforms	Entero Qual	Enterococci
Units	MGD		mg/L		mg/L	SU	SU	mg/L	mg/L		MPN/100mL		MPN/100mL
Test Method	Daily Average (Mean)		SM 5210 B-2011		SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (IV	Daily Average (Mean)		SM 9221 C,E-2006		Enterolert
MDL					1.4								
RL			3.0		4.5						2		1
Location	LAVWMA-EXP		LAVWMA-EXP		LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS		SLSS		SLSS
1/1/2023	32.29					6.80	7.05	4.24					
1/2/2023	26.49					7.04	7.34	4.88					
1/3/2023	25.72					7.13	7.25	4.01		<	2	<	10
1/4/2023	26.13		6.4		11	7.02	7.31	4.09					
1/5/2023	27.80					7.00	7.30	4.47					
1/6/2023	28.94					6.99	7.11	4.88					
1/7/2023	23.88					7.02	7.12	4.62					
1/8/2023	26.12					7.06	7.17	4.30					
1/9/2023	31.41					6.95	7.11	3.73					
1/10/2023	28.76					6.92	7.07	4.88					
1/11/2023	28.68					7.00	7.15	4.93					
1/12/2023	26.51		3.9		6.0	7.02	7.15	4.30					
1/13/2023	21.83					7.11	7.20	4.42					
1/14/2023	32.11					6.97	7.16	3.06					
1/15/2023	32.11					7.00	7.06	3.05					
1/16/2023	36.38					6.99	7.12	3.73					
1/17/2023	30.38					7.02	8.12	4.88		<	2	<	10
1/18/2023	28.45		3.5		6.4	7.07	7.07	4.93					
1/19/2023	20.49					7.13	7.23	3.35					
1/20/2023	19.41					7.02	7.25	3.79					
1/21/2023	23.80					7.00	7.29	3.74					
1/22/2023	23.11					7.23	7.23	3.79					
1/23/2023	21.50					7.08	7.26	3.03					
1/24/2023	17.12					7.13	7.96	3.31		<	2	<	10
1/25/2023	19.75					7.44	7.88	2.86					
1/26/2023	20.03		4.9		8.7	7.42	7.65	2.37					
1/27/2023	19.09					7.51	7.69	2.16					
1/28/2023	17.16					7.44	7.67	2.48					
1/29/2023	18.71					7.47	7.63	2.40					
1/30/2023	16.42					7.39	7.68	2.44					
1/31/2023	18.55					7.45	7.66	2.18		<	2	<	10

Note:

Column E - pH Minimum; online

Column F - pH Maximum; online

LAVWMA	February		2023
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SELECT FIRST

Enter only numerical data in the result columns and only qualifiers in the qualifier columns. Any other comments should go in the corresponding cell on the Comments tab.

Parameter	Flow	CBOD Qual	CBOD	TSS Qual	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Qual	Fecal Coliforms	Entero Qual	Enterococci
Units	MGD		mg/L		mg/L	SU	SU	mg/L	mg/L		MPN/100mL		MPN/100mL
Test Method	Daily Average (Mean)		SM 5210 B-2011		SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (IV	Daily Average (Mean)		SM 9221 C,E-2006		Enterolert
MDL					1.4								
RL			3.0		4.5						2		10
Location	LAVWMA-EXP		LAVWMA-EXP		LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS		SLSS		SLSS
2/1/2023	17.77		6.2		8.1	7.53	7.79	2.61					
2/2/2023	18.17					7.55	7.76	2.65					
2/3/2023	15.57					7.57	7.66	2.61					
2/4/2023	18.46					7.46	7.66	2.77					
2/5/2023	22.00					7.53	7.70	2.67					
2/6/2023	21.69					7.48	7.67	2.78					
2/7/2023	20.15					7.46	7.72	3.17					
2/8/2023	17.74		4.7		8.0	7.60	7.78	3.77		<	2	<	10
2/9/2023	17.93					7.46	7.95	3.18					
2/10/2023	20.21					7.53	7.69	3.13					
2/11/2023	19.32					7.53	7.73	3.18					
2/12/2023	19.39					7.46	7.71	3.02					
2/13/2023	17.44					7.51	7.98	2.88					
2/14/2023	15.53					7.46	7.79	2.37		<	2		
2/15/2023	15.35		10		15.0	7.43	7.71	2.37					
2/16/2023	17.40					7.41	7.64	2.91					
2/17/2023	15.50					7.46	7.65	3.59					
2/18/2023	15.29					7.41	7.66	3.64					
2/19/2023	15.60					7.41	7.66	2.86					
2/20/2023	18.33					7.33	7.56	2.90					
2/21/2023	18.04					7.41	7.75	2.67		<	2	<	10
2/22/2023	16.11		7.1		13.0	7.51	7.75	2.39					
2/23/2023	16.90					7.55	7.84	2.44					
2/24/2023	23.39					7.47	7.80	3.13					
2/25/2023	20.48					7.50	7.69	3.59					
2/26/2023	21.55					7.46	7.72	3.58					
2/27/2023	22.18					7.51	7.60	3.27					
2/28/2023	25.94					7.38	7.53	3.64		<	2	<	10

Note:

Column E - pH Minimum; online

Column F - pH Maximum; online

LAVWMA	March		2023
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SELECT FIRST

Enter only numerical data in the result columns and only qualifiers in the qualifier columns. Any other comments should go in the corresponding cell on the Comments tab.

Parameter	Flow	CBOD Qual	CBOD	TSS Qual	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Qual	Fecal Coliforms	Entero Qual	Enterococci
Units	MGD		mg/L		mg/L	SU	SU	mg/L	mg/L		MPN/100mL		MPN/100mL
Test Method	Daily Average (Mean)		SM 5210 B-2011		SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (IV)	Daily Average (Mean)		SM 9221 C,E-2006		Enterolert
MDL					1.4								
RL			3.0		4.5						2		10
Location	LAVWMA-EXP		LAVWMA-EXP		LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS		SLSS		SLSS
3/1/2023	26.09		11		11	7.43	7.59	4.00					
3/2/2023	24.14					7.38	7.55	4.13					
3/3/2023	20.65					7.35	7.50	3.73					
3/4/2023	20.13					7.38	7.52	3.38					
3/5/2023	25.45					7.35	7.55	4.06					
3/6/2023	20.69					7.36	7.52	4.13					
3/7/2023	20.10					7.41	7.52	3.95		<	2		
3/8/2023	21.97		3.4		11	7.14	7.28	4.24					
3/9/2023	25.38					7.28	7.53	4.14					
3/10/2023	34.55					7.12	7.36	4.00					
3/11/2023	28.78					7.18	7.29	3.50					
3/12/2023	28.38					7.19	7.28	3.29					
3/13/2023	30.88					7.18	7.28	3.26					
3/14/2023	28.21					7.22	7.45	3.33		<	2	<	10
3/15/2023	28.10		5.8		8.4	7.25	7.37	3.20					
3/16/2023	24.01					7.27	7.38	3.44					
3/17/2023	24.24					7.28	7.39	2.80					
3/18/2023	23.03					7.25	7.39	2.79					
3/19/2023	24.10					7.30	7.42	2.97					
3/20/2023	22.70					7.28	7.36	3.19					
3/21/2023	26.58					7.33	7.56	3.14			2	<	10
3/22/2023	29.47		5.1		8.0	7.23	7.42	3.03					
3/23/2023	27.11					7.26	7.35	4.07					
3/24/2023	25.55					7.29	7.37	4.04					
3/25/2023	24.14					7.25	7.44	3.66					
3/26/2023	24.30					7.28	7.44	3.39					
3/27/2023	17.45					7.23	7.48	2.84					
3/28/2023	23.38					7.30	7.42	2.97		<	2	<	10
3/29/2023	22.00		6.1		6.0	7.25	7.44	3.21					
3/30/2023	23.98					7.20	7.33	3.12					
3/31/2023	21.77					7.20	7.30	3.33					

Note:

Column G - pH Minimum; online

Column H - pH Maximum; online

TABLE 10

*DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY*

LAVWMA - 1st Quarter 2022

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH (Actual)	pH Saturation	Langlier Index
01/13/23	748	17.4	146	330	7.3	7.3	0.0
02/06/23	754	18.3	126	336	7.6	7.3	0.3
03/07/23	795	17.5	138	346	7.6	7.3	0.3
MAXIMUM	795	18.3	146	346	7.6	7.3	0.3
MINIMUM	748	17.4	126	330	7.3	7.3	0.0
AVERAGE	766	17.7	137	337	7.5	7.3	0.2

*DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY*

DSRSD - 1st Quarter 2022

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH (Actual)	pH Saturation	Langlier Index
01/13/23	765	17.4	168	342	7.5	7.2	0.3
02/06/23	781	18.5	147	348	7.6	7.2	0.4
03/07/23	784	18.3	146	336	7.6	7.2	0.4
MAXIMUM	784	18.5	168	348	7.6	7.2	0.4
MINIMUM	765	17.4	146	336	7.5	7.2	0.3
AVERAGE	777	18.1	154	342	7.6	7.2	0.4

CITY OF LIVERMORE LIVERMORE WATER RECLAMATION PLANT

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH (Actual)	pH Saturation	Langlier Index
01/04/23	625	18.0	96	366	7.6	7.5	0.1
02/02/23	680	18.0	95	325	7.5	7.5	-0.1
03/01/23	660	17.0	103	353	7.5	7.5	0.0
MAXIMUM	680	18.0	103	366	7.6	7.5	0.1
MINIMUM	625	17.0	95	325	7.5	7.5	-0.1
AVERAGE	655	17.7	98	348	7.5	7.5	0.0

TABLE 11

LAVWMA Action Item List

Month: May-23

SAG Task	Responsible Party	Due Date	Status	Completion Date
Items for May 2023 LAVWMA Board Meeting.	SAG	NA	First inperson meeting in three years. Normal financial and project status reports, election of officers, 3rd Quarter O&M Report, Declaration of an Emergency for the Livermore Pipe Repair Project, FYE24 O&M and Capital Project Budget, update on legal and legislative issues, and the GM report.	
Operations Coordination Committee Task	Responsible Party	Due Date	Status	Completion Date
FYE23 Replacement Projects: See Items Below	Weir/Delight	Various dates	Refer to information below.	
MCC and Soft Starter Replacement Project. Carryover from FYE20 and into FYE21. Estimated design cost \$250,000. Project now includes Electrical Improvements to the Main Switchgear at the Pump Station. Total estimated cost \$2,300,000 - \$2,500,000.	Weir/Atendido	12/31/2021	Project is complete. The Notice of Completion with Alameda County has been filed and final payment has been made. One warranty item was successfully resolved in January 2023, related to the settings to allow the standby generator to operate properly. Will delete this in the next report.	11/30/2022
San Leandro Sample Station Design Improvements. Estimated cost \$1,000,000 plus engineering costs of \$230,000 for a total of \$1,230,000	Weir	12/31/2023	Final plans and specs are nearing completion. Hope to issue bid packet in May 2023. Have increased cost in FYE24 budget due to inflation, long lead time, and supply chain issues.	
Cathodic Protection Projects	Weir/Atendido	12/31/2020	Corrpro has disappeared. Will do a full survey in the next year, which may lead to some additional repair/upgrade work.	6/30/2023
PLC Upgrade at the Pump Station. Estimated cost \$300,000	Ching	6/30/2021	Will be included in DSRSD SCADA project, which is design build. Project has begun. Scoping meetings with staff have been held and the project is progressing.	
Pipeline Inspection. Estimated cost \$100,000	Halliday	12/31/2023	Will be carried over to FYE24. Have one quote and obtaining one more.	
Replace three flow meters at the junction structure. Estimated cost is \$250,000.	Portugal	6/30/2023	Two meters installed; last one will be this month. Have carried over to FYE24 to allow for possible piping modifications.	
Replace 17 valve actuators at the pump station. Estimated cost is \$255,555.	Quinlan	12/31/2023	There are seventeen valves that have electric actuators at the pump station. All of the valves actuators were installed when the pump station was upgraded twenty years ago and they are at the end of their useful lives. The actuators will be replaced with the newest technology and will match the style that are commonly used at DSRSD. The actuators cost approximately \$9,000 each and will be installed by DSRSD staff. The total cost includes staff time for the installation.	
PG&E Reliability and Solar/Battery storage. This is a new project and no cost has yet been identified.	Weir	TBD	Solar is not an option at this time. DSRSD is the property owner and is completing its own Electrical Master Plan. Unknown at this time if a project will be completed. Woodard & Curran study completed. Will include a CIP for installing tap box, transformer, and anything else to make connection to a portable generator as quick as possible. Rental of a generator may be needed during extreme wet weather seasons.	TBD
Other Items				
Wet Weather Issues	Sevilla	10/31/2020	Many storms in January through March tested all facilities, with no serious issues.	
Live test of SLSS system	Sevilla/Atendido	3/31/2023	Was successfully tested in March 2023.	
Live test of Alamo Canal discharge during wet weather	Carson/Sevilla	TBD	Was successfully tested in March 2023.	
Wet Well Isolation Gates	Quinlan	6/30/2023	Gate is in good shape but won't fully close. No date set, perhaps this winter. May be coordinated with replacement of the valve actuators.	
EBDA Enterococcus Issue	Sevilla		No issues at this time.	
YTD O&M Expenses compared to budget	Carson, Weir	Ongoing	No issues at this time. PG&E costs in January through April 2023 were high due to the numerous storms.	

