

LAVWMA

Prepared by



Dublin San Ramon
Services District

Water, wastewater, recycled water

QUARTERLY REPORT OF OPERATIONS

FY 2024-2025, 3rd Quarter



Quarterly Report of Operations LAVWMA Pumping and Conveyance System

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Executive Summary

For the third quarter fiscal year ending (FYE) 2025, the Livermore-Amador Valley Water Management Agency (LAVWMA) export conveyance system experienced no major outages or disruptions while pumping 1,537 million gallons (MG) of fully treated secondary effluent to the San Francisco Bay via the East Bay Dischargers Authority (EBDA) outfall diffuser and San Leandro Sample Station (SLSS; Table 6 or section Export Flow for more details).

This quarter the overall efficiency of the pumping system averaged 73.8% (Table 1; quarterly range FYEs 2023 & 2024 [n=8]: 66.0% to 74.0%), with an average electrical cost of \$419 per MG, or \$137 per acre-foot (AF; Table 1 or section Electrical Usage, Efficiency, & Cost for more details). Preventative maintenance (PM) work orders outnumbered corrective maintenance (CM) work orders 32.29 to 1 (quarterly range FYEs 2023 & 2024 [n=8]: 9.57 to 23.45; section Maintenance for more details).

For convenience, some year-to-date (YTD) values compared to budgeted are shown below (section Expenditures & Budget Utilization: Labor & O&M for more details).

- Overall costs: YTD \$2,373,246; Budget \$3,530,500
- Utilities costs: YTD \$1,415,132; Budget \$2,065,755
- Labor costs: YTD \$864,387; Budget \$1,182,824
- Labor hours: YTD 3,882.3; Budget 5,411
- WOs last quarter: 243.75 hours 215 PMs and 29.5 hours 8 CMs
- WOs this quarter: 177.5 hours 226 PMs and 17.0 hours 7 CMs
- Pump Efficiency: Jan-73.8% | Feb-73.8% | Mar-75.3%

Current Quarter Metrics

Monthly (Jan-Mar) export flows seen below (Figure 1) are consistent with normal operations. Pump efficiency was from ~ 74% to 75%.

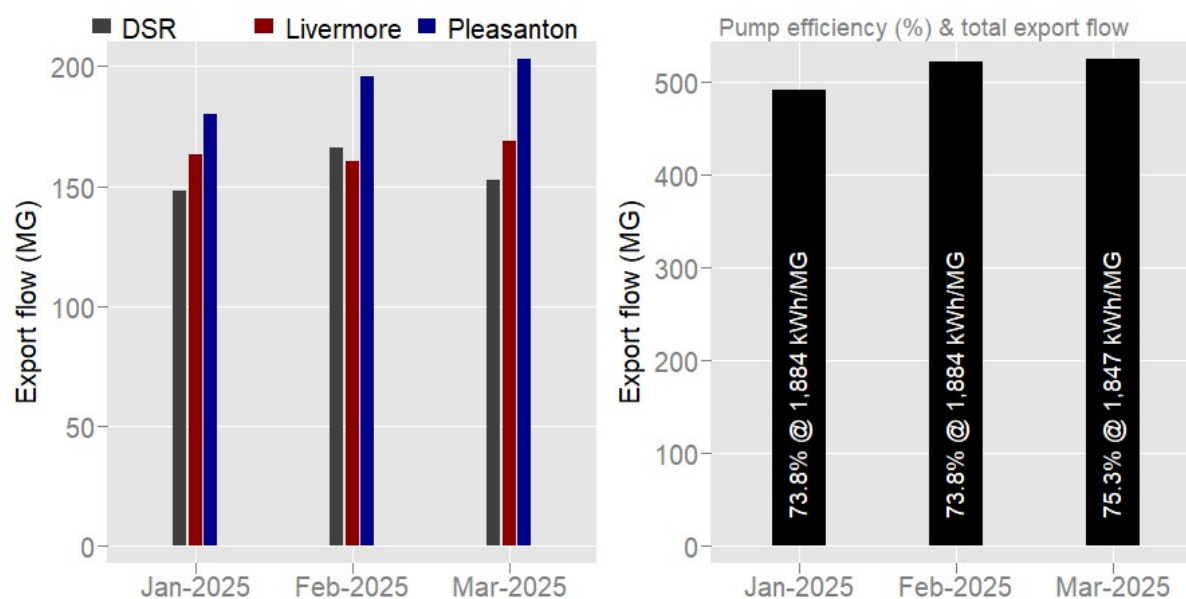


Figure 1 - LAVWMA Quarter 3 FYE 2025 export flows for Jan-2025, Feb-2025, & Mar-2025; monthly flows shown by source (left plot) and as total (right plot) with pump efficiency (%) at noted kilowatt hour (kWh) per million gallons (MG); NOTE: flow & pump efficiency data displayed by calendar month, not PG&E billing period

Feeder A and B power usage is depicted in (Figure 2). Most usage was during off-peak hours.

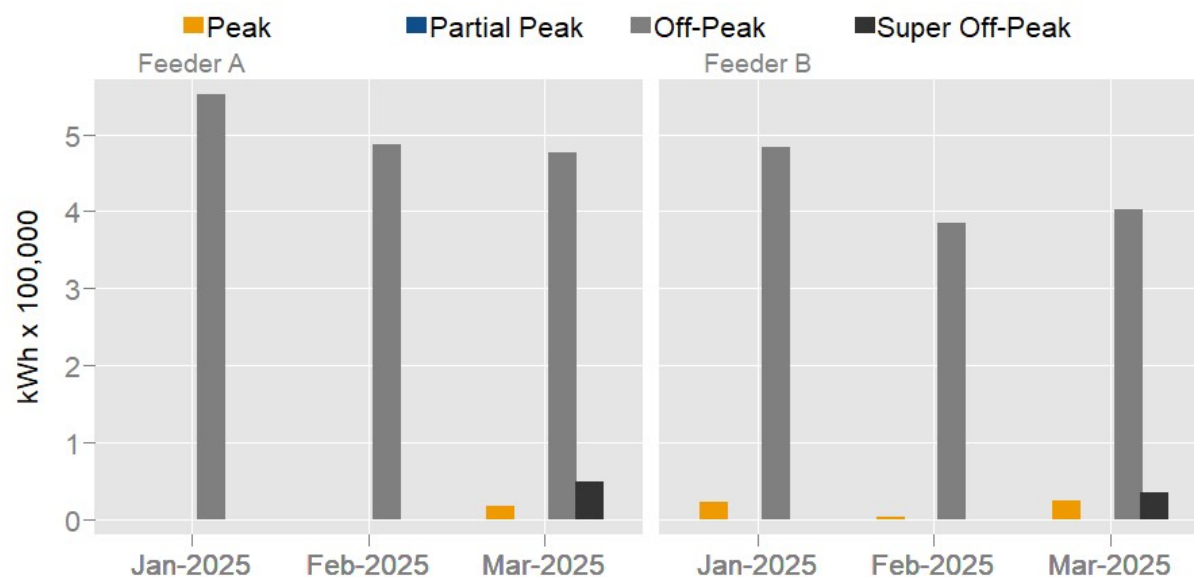


Figure 2 - LAVWMA Quarter 3 FYE 2025 electric usage as kilowatt hour (kWh) for PG&E billing cycles Jan-2025, Feb-2025, & Mar-2025; billing cycle usage displayed separately for feeder A (left) & feeder B (right) by time of use: peak, partial peak, off-peak; & super off-peak

Labor and utilities covered the largest fraction of overall cost in Q3 FYE 2025 (Figure 3, 3 left-most plots). There were no expenses for non-routine work this quarter.

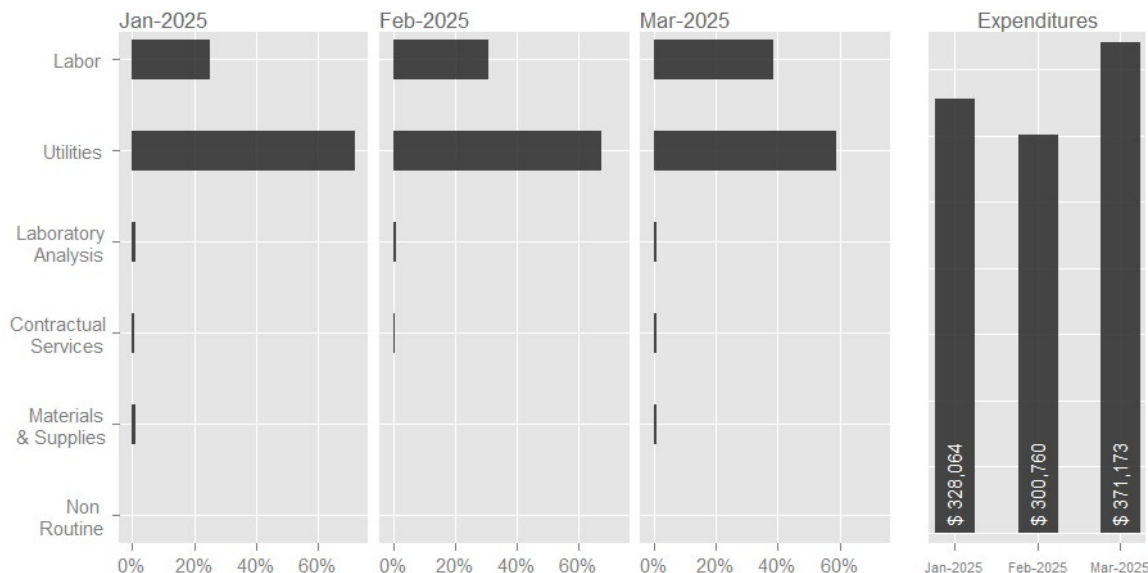


Figure 3 - LAVWMA Quarter 3 FYE 2025 expenditures for Jan-2025, Feb-2025, & Mar-2025 as percent of total cost by type (labor, utilizes, laboratory analysis, contractual services, materials & supplies, & non routine; left plot) and as monthly total (right plot)

There were no major equipment failures in Q3 FYE 2025, the pipeline and pumping plant ran without issue. Preventative maintenance (PM) work orders exceeded corrective maintenance (CM) work orders each month during Q3 FYE 2025 (Figure 4, right plot). The one CM workorder in Feb had no associated hours (i.e., a workorder to remove item from asset management system).

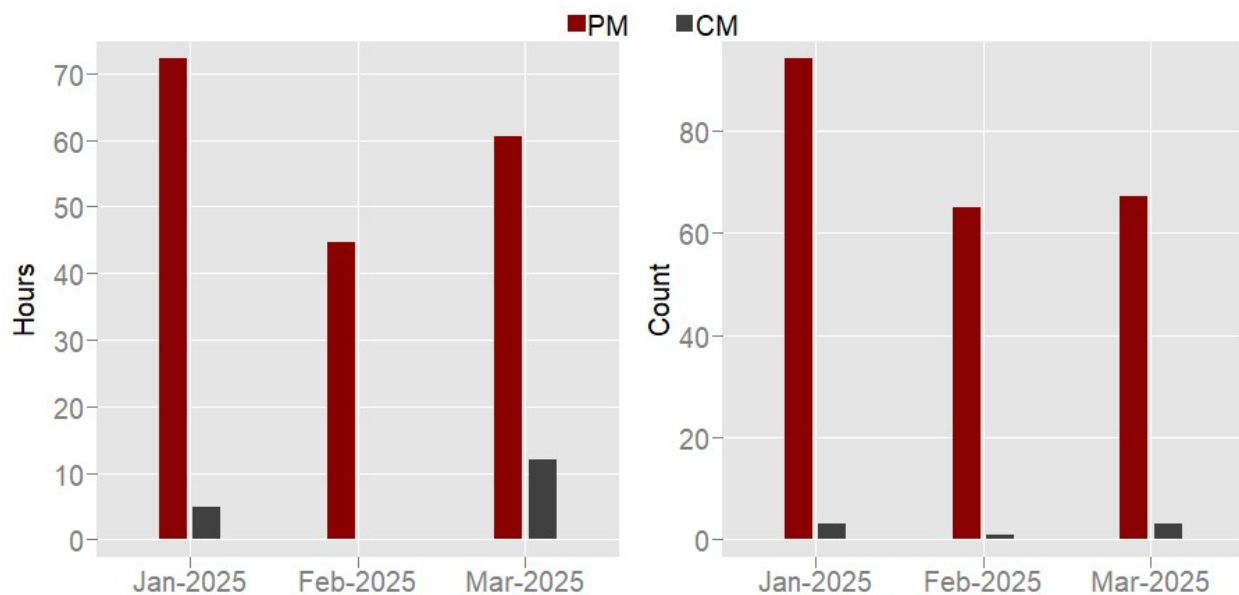


Figure 4 - LAVWMA Quarter 3 FYE 2025 preventative maintenance (PM) & corrective maintenance (CM) work order hours (left plot) and count (right plot) for Jan-2025, Feb-2025, & Mar-2025

Operations

Of the ~1,537 MG of effluent conveyed through the LAVWMA system during the third quarter, 466 MG (30.3%) came from Dublin San Ramon (DSR), 492 MG (32.1%) from the City of Livermore, and 578 MG (37.6%) from the City of Pleasanton. Refer to section Export Flow for more details.

PG&E's current rate plan has four time-of-use (TOU) periods (in order of decreasing rates): peak (year-round), partial peak (June-September), off-peak (year-round), and super off-peak (March-May). Whenever possible, staff implement an efficient pumping plan to avoid pumping during higher rate periods (i.e., peak and partial peak).

Over the past quarter, DSRSD staff managed LAVWMA's holding basins to minimize the number of pumps running during a given billing cycle. Such an approach was based on anticipated flows from the City of Livermore and DSRSD's wastewater treatment facilities. Refer to section Electrical Usage, Efficiency, & Cost for more information about energy use.

Maintenance

During the quarter, staff logged 177.5 hours completing 226 preventative maintenance (PM) work orders and 17.0 hours completing 7 corrective maintenance (CM) work orders on LAVWMA equipment and systems. Refer to Figure 4 for monthly breakdown (work order data updated 23-Apr-2025).

Recently refurbished, pump motor number 2 was installed and returned to service on April 11, 2025. Operations have prioritized its run and there have been no known issues. Pumps 1, 3, and 5 are also recently refurbished pumps and all are in rotation. So far, the pumps have operated without any major issue. Pump 7 is out of service and is being overhauled.

The following are some additional noteworthy maintenance activities during the quarter:

Electrical

- Pump Station Motor #2 repaired under warranty and commissioned
- Pump Station Motor #7 sent out for overhaul
- Received stem nuts and adapter plates for actuator replacements
- Met with Alameda County regarding street widening project to locate cathodic protection equipment

Instrument & Controls

- Replaced failed DSRSD combined pH sensor
- Troubleshoot Basin 3 level indicating transmitter controller
- Troubleshoot 42" export pipeline analog signal coming into PLC

Operations

- Evaluated effects of pump sequencing on air entrainment (Jan 24 through Feb 4)
- Reinstalled pump #2 and placed in lead service

Mechanical

- Normal business operations

Laboratory

- Normal business operations

Electrical Usage, Efficiency, & Cost

Monthly pump efficiency (O_e) was estimated as the fraction of a calculated kWh/MG given full efficiency (i.e., 100%) to the actual kWh/MG (see equations below).

$$O_e = \frac{\text{full efficiency kWh}}{\text{actual kWh}} \times 100$$

$$\text{Full Efficiency kWh} = \frac{\overline{GPM} \times TDH}{3960} \times 0.746 \times d \times 24h$$

where

- $\overline{GPM} = \frac{\text{Export Flow (MG)} \times 10^6}{d \times 1440 \text{ min/d}}$
- TDH (total dynamic head) = 442.8 ft (static lift = 408.8 ft, piping losses = 34 ft)
- 3960 = units conversion constant for water between 40° F and 220° F
- 0.746 = horsepower to kW conversion constant (0.746 hp / kW)
- d = number of days
- h = indicates hour (as 24 hours/day)

Table 1 - LAVWMA FYE 2025 quarterly kWh usage, export flow, pump efficiency, & cost for PG&E-based billing cycle; current quarter & year-to-date (YTD) summaries provided below monthly values

	Billing Days	kWh	Flow (MG)	kWh/MG	Pump Efficiency	Cost (\$)	\$/kWh	\$/MG	\$/AF
Q1									
Jul-2024	31	299,594	160	1,876.20	74.1%	\$105,687	\$0.35	\$662	\$216
Aug-2024	31	286,133	153	1,874.75	74.2%	\$81,928	\$0.29	\$537	\$175
Sep-2024	30	336,042	187	1,792.35	77.6%	\$99,963	\$0.30	\$533	\$174
Q2									
Oct-2024	29	441,763	229	1,932.11	72.0%	\$116,266	\$0.26	\$509	\$166
Nov-2024	32	642,764	355	1,809.32	76.8%	\$163,208	\$0.25	\$459	\$150
Dec-2024	30	836,322	444	1,882.69	73.8%	\$194,743	\$0.23	\$438	\$143
Q3									
Jan-2025	32	1,058,935	562	1,882.99	73.8%	\$234,691	\$0.22	\$417	\$136
Feb-2025	29	875,559	464	1,886.51	73.7%	\$201,510	\$0.23	\$434	\$141
Mar-2025	30	1,005,207	534	1,881.26	73.9%	\$217,135	\$0.22	\$406	\$132
Q3									
Average		979,900	520	1,884	73.8%	\$217,779	\$0.22	\$419	\$137
Total	91	2,939,701	1,561	5,651		\$653,336			
Minimum		875,559	464	1,881	73.7%	\$201,510	\$0.22	\$406	\$132
Maximum		1,058,935	562	1,887	73.9%	\$234,691	\$0.23	\$434	\$141
YTD									
Average		642,480	343	1,869	74.4%	\$157,237	\$0.26	\$488	\$159
Total	274	5,782,320	3,089	16,818		\$1,415,132			
Minimum		286,133	153	1,792	72.0%	\$81,928	\$0.22	\$406	\$132
Maximum		1,058,935	562	1,932	77.6%	\$234,691	\$0.35	\$662	\$216

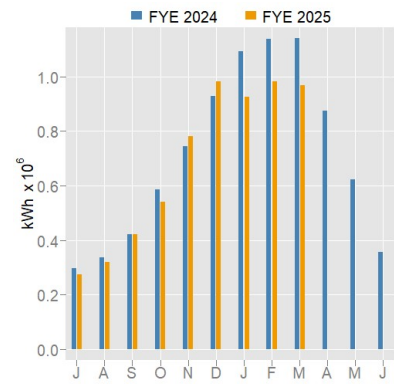


Figure 5 - LAVWMA monthly kWh usage FYE 2024 & FYE 2025 through Mar-2025; note: plotted kWh values by calendar month, not PG&E based billing cycle

Table 2 - LAVWMA FYE 2025 quarterly kWh usage and cost for PG&E-based billing cycle separately for Service A & Service B

	Service A				Service B				
	Peak (kWh)	Partial Peak (kWh)	Off-Peak (kWh)	Super Off-Peak (kWh)	Cost (\$)	Peak (kWh)	Partial Peak (kWh)	Off-Peak (kWh)	Super Off-Peak (kWh)
Q1									
Jul-2024	0	0	110,784	0	\$34,670	2,028	1,778	185,003	0
Aug-2024	0	0	127,927	0	\$35,306	2,160	0	154,258	1,788
Sep-2024	0	0	325,319	0	\$90,559	2,056	1,689	6,978	0
Q2									
Oct-2024	0	0	430,837	0	\$106,617	2,166	1,214	7,546	0
Nov-2024	0	0	562,453	0	\$126,340	2,387	0	77,924	0
Dec-2024	0	0	375,946	0	\$85,202	7,354	0	453,022	0
Q3									
Jan-2025	0	0	552,309	0	\$120,927	23,247	0	483,380	0
Feb-2025	0	0	487,036	0	\$108,480	3,034	0	385,489	0
Mar-2025	16,495	0	477,026	48,975	\$115,132	25,026	0	403,259	34,425
Q3									
Average	5,498	0	505,457	16,325	\$114,846	17,102	0	424,043	11,475
Total	16,495	0	1,516,371	48,975	\$344,538	51,307	0	1,272,128	34,425
Minimum	0	0	477,026	0	\$108,480	3,034	0	385,489	0
Maximum	16,495	0	552,309	48,975	\$120,927	25,026	0	483,380	34,425
YTD									
Average	1,833	0	383,293	5,442	\$91,470	7,718	520	239,651	4,024
Total	16,495	0	3,449,637	48,975	\$823,232	69,458	4,681	2,156,859	36,213
Minimum	0	0	110,784	0	\$34,670	2,028	0	6,978	0
Maximum	16,495	0	562,453	48,975	\$126,340	25,026	1,778	483,380	34,425

Pump Run Time

Monthly pump utilization (U_m) was calculated as the fraction of total pump hours given the total hours possible if nine¹ pumps ran continuously (i.e., 24 hours per day; equation below, where h = total hours, m = given month, d = days in month). Pump utilization remained between 34% and 40% in Q3 (Table 4).

$$U_m = \frac{h_m}{9 \times 24 \times d_m} \times 100$$

Table 3 - LAVWMA FYE 2025 monthly pump hours by pump and total; quarterly and YTD summaries provided below monthly values

Hours	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Total
Q1											
Jul-2024	108	0	144	28	94	2	13	1	263	1	654
Aug-2024	313	0	135	1	213	8	10	16	119	6	820
Sep-2024	102	0	93	0	97	261	0	277	0	271	1,102
Q2											
Oct-2024	272	0	266	18	279	195	0	179	24	195	1,428
Nov-2024	511	0	172	165	504	0	158	0	431	0	1,942
Dec-2024	519	0	289	544	438	72	0	0	537	0	2,398
Q3											
Jan-2025	469	0	487	427	436	0	0	0	464	0	2,282
Feb-2025	477	0.5	478	498	483	0	0	0	490	0	2,427
Mar-2025	555	0	182	585	513	1	0	1	566	1	2,406
	Pump 1	Pump 2	Pump 3	Pump 4	Pump 5	Pump 6	Pump 7	Pump 8	Pump 9	Pump 10	Total
Q1											
Average Hours	174	0	124	10	134	90	7	98	127	93	859
Std Dev Hours	120.3	0.0	27.1	16.2	67.7	147.9	6.6	155.5	131.7	154.6	226.4
Hours	523	0	372	29	403	271	22	294	382	279	2,576
Min Hours	102	0	93	0	94	2	0	1	0	1	654
Max Hours	313	0	144	28	213	261	13	277	263	271	1102
Q2											
Average Hours	434	0	242	242	407	89	53	60	330	65	1923
Std Dev Hours	140.3	0.0	61.8	271.4	116.0	98.6	91.5	103.5	270.5	112.7	485.2
Hours	1,302	0	726	727	1,221	267	158	179	991	195	5,768
Min Hours	272	0	172	18	279	0	0	0	24	0	1428
Max Hours	519	0	289	544	504	195	158	179	537	195	2398
Q3											
Average Hours	500	0.2	382	503	477	0.4	0	0.4	507	0.4	2372
Std Dev Hours	47.6	0.3	173.4	79.5	38.6	0.7	0.0	0.8	53.1	0.7	78.2
Hours	1,501	0.5	1,147	1,510	1,432	1	0	1	1,520	1	7,115
Min Hours	469	0	182	427	436	0	0	0	464	0	2282
Max Hours	555	0.5	487	585	513	1	0	1	566	1	2427
Total Average Hours	370	0	250	252	340	60	20	53	322	53	1718
Total Std Dev Hours	177.1	0.2	145.6	256.5	171.7	99.5	52.1	102.6	224.4	104.1	725.3
Total Hours	3,326	0.5	2,246	2,266	3,056	540	181	474	2,894	475	15,458
Total Min Hours	102	0	93	0	94	0	0	0	0	0	654
Total Max Hours	555	0.5	487	585	513	261	158	277	566	271	2427

Table 4 - LAVWMA FYE 2025 monthly percent pump utilization; quarterly and YTD summaries provided below monthly values

	Pump Utilization
Q1	
Jul-2024	9.8%
Aug-2024	12.2%
Sep-2024	17.0%
Q2	
Oct-2024	21.3%
Nov-2024	30.0%
Dec-2024	35.8%
Q3	
Jan-2025	34.1%
Feb-2025	40.1%
Mar-2025	35.9%
Q1	
Average Pump Utilization	13.0%
Min Pump Utilization	9.8%
Max Pump Utilization	17.0%
Q2	
Average Pump Utilization	29.0%
Min Pump Utilization	21.3%
Max Pump Utilization	35.8%
Q3	
Average Pump Utilization	36.7%
Min Pump Utilization	34.1%
Max Pump Utilization	40.1%
Total Average Pump Utilization	26.3%
Total Min Pump Utilization	9.8%
Total Max Pump Utilization	40.1%

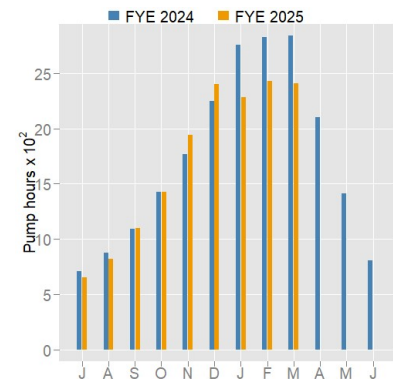


Figure 6- LAVWMA FYE 2024 & FYE 2025 monthly total pump hours through Mar-2025

¹ Ten pumps total, but one in reserve as a back-up to the other nine

Basin Levels

Table 5 - LAVWMA FYE 2025 monthly average levels (in feet) by basin and overall (total); current quarter and YTD summaries provided below monthly values

Average	Basin 1	Basin 2	Basin 3	Total
Q1				
Jul-2024	2.01	0.08	2.38	1.49
Aug-2024	3.35	0.08	3.48	2.31
Sep-2024	3.09	0.09	3.21	2.13
Q2				
Oct-2024	2.87	0.09	2.95	1.97
Nov-2024	3.75	0.11	3.30	2.39
Dec-2024	4.78	0.11	4.19	3.03
Q3				
Jan-2025	2.72	0.11	4.05	2.30
Feb-2025	5.51	0.34	4.50	3.45
Mar-2025	5.31	0.25	3.35	2.97
Q3				
Average	4.51	0.24	3.97	2.91
Minimum	2.72	0.11	3.35	2.30
Maximum	5.51	0.34	4.50	3.45
YTD				
Average	3.71	0.14	3.49	2.45
Minimum	2.01	0.08	2.38	1.49
Maximum	5.51	0.34	4.50	3.45

Export Flow

Combined export flow includes Dublin San Ramon, the City of Livermore, and the City of Pleasanton. Monthly totals do not include flows diverted for recycling use by DERWA and Pleasanton. Budgeted FYE 2025 flow is 3,356 MG at an estimated cost of \$1,052/MG.

Table 6 - LAVWMA FYE 2025 monthly export flows in million gallons (MG) for Dublin San Ramon, Livermore, & Pleasanton; current quarter and YTD summaries provided below monthly values; note totals (quarterly & YTD) provided in with monthly summary

	Dublin San Ramon (MG)	Livermore (MG)	Pleasanton (MG)	Combined Export (MG)
Q1	0.00	325.05	219.24	544.29
Jul-2024	0.00	103.27	42.54	145.81
Aug-2024	0.00	108.55	67.49	176.04
Sep-2024	0.00	113.23	109.21	222.44
Q2	287.21	452.93	495.59	1,235.72
Oct-2024	16.60	134.64	143.90	295.15
Nov-2024	108.50	149.06	162.55	420.11
Dec-2024	162.11	169.22	189.14	520.47
Q3	466.22	492.09	578.39	1,536.70
Jan-2025	147.95	163.03	179.81	490.79
Feb-2025	165.77	160.47	195.52	521.76
Mar-2025	152.50	168.60	203.05	524.15
Total	753.43	1,270.07	1,293.22	3,316.71
Q3				
Average	155.41	164.03	192.80	512.23
Minimum	147.95	160.47	179.81	490.79
Maximum	165.77	168.60	203.05	524.15
YTD				
Average	83.71	141.12	143.69	368.52
Minimum	0.00	103.27	42.54	145.81
Maximum	165.77	169.22	203.05	524.15

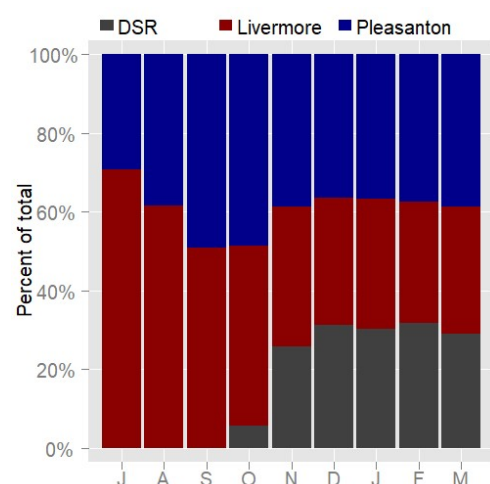


Figure 7- LAVWMA FYE 2025 through Mar-2025 monthly export flows by region as a percent of total; DSR = Dublin San Ramon

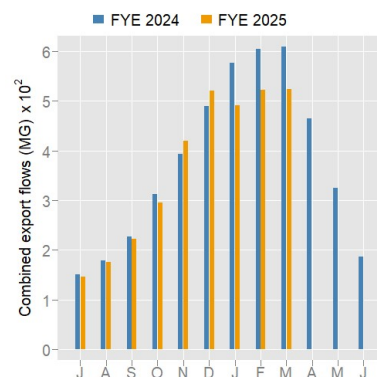


Figure 8 - LAVWMA FYE 2024 & FYE 2025 through Mar-2025 monthly combined export flows (MG)

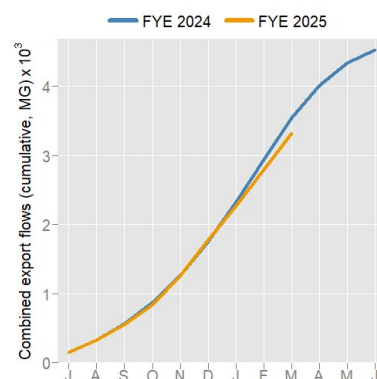


Figure 9 - LAVWMA FYE 2024 & FYE 2025 through Mar-2025 monthly cumulative combined export flows (MG)

Expenditures & Budget Utilization: Labor & O&M

Expenses this quarter included crane testing and rental, annual permit renewal (Bay Area Air District), and software maintenance. Overall O&M expenses increased in Q3 compared to Q2.

Table 7 - LAVWMA FYE 2025 monthly expenditure for labor, accounts payable (A/P), and overall (O&M); cost per export flow (MG and acre-foot [AF]) provided for reference; quarterly and YTD summaries provided below monthly values; note totals (quarterly & YTD) provided in with monthly summary

	Labor Expenses	A/P Expenses	O&M Expenses	\$/MG	\$/AF
Q1	\$297,739	\$324,092	\$621,831	\$1,142	\$372
Jul-2024	\$84,522	\$118,392	\$202,915	\$1,392	\$453
Aug-2024	\$105,323	\$88,786	\$194,109	\$1,103	\$359
Sep-2024	\$107,893	\$116,914	\$224,807	\$1,011	\$329
Q2	\$249,426	\$501,993	\$751,418	\$608	\$198
Oct-2024	\$63,070	\$125,457	\$188,527	\$639	\$208
Nov-2024	\$101,340	\$170,910	\$272,250	\$648	\$211
Dec-2024	\$85,015	\$205,626	\$290,641	\$558	\$182
Q3	\$317,223	\$682,774	\$999,997	\$651	\$212
Jan-2025	\$82,215	\$245,849	\$328,064	\$668	\$218
Feb-2025	\$92,307	\$208,453	\$300,760	\$576	\$188
Mar-2025	\$142,701	\$228,472	\$371,173	\$708	\$231
Total	\$864,387	\$1,508,859	\$2,373,246	\$716	\$233
Q3					
Average	\$105,741	\$227,591	\$333,332	\$651	\$212
Minimum	\$82,215	\$208,453	\$300,760	\$576	\$188
Maximum	\$142,701	\$245,849	\$371,173	\$708	\$231
YTD					
Average	\$96,043	\$167,651	\$263,694	\$811	\$264
Minimum	\$63,070	\$88,786	\$188,527	\$558	\$182
Maximum	\$142,701	\$245,849	\$371,173	\$1,392	\$453

Table 9 - LAVWMA FYE 2025 billed labor hours and full-time employment equivalent; quarterly and YTD summaries provided below monthly values; note billed labor hour totals (quarterly & YTD) provided with monthly summary

	Billed Labor Hours	FTE Equivalent
Q1	1,349.5	
Jul-2024	383.5	2.2
Aug-2024	471.5	2.7
Sep-2024	494.5	2.9
Q2	1,138.0	
Oct-2024	286.5	1.7
Nov-2024	464.0	2.7
Dec-2024	387.5	2.2
Q3	1,394.8	
Jan-2025	358.0	2.1
Feb-2025	409.8	2.4
Mar-2025	627.0	3.6
Total	3,882.3	
Q3		
Average	464.9	2.7
Minimum	358.0	2.1
Maximum	627.0	3.6
YTD		
Average	431.4	2.5
Minimum	286.5	1.7
Maximum	627.0	3.6

Table 8 - LAVWMA FYE 2025 YTD expenditures (O&M & labor) with percent budget utilized and budget remaining

	O&M YTD Expenses	O&M Budget Utilization	O&M Budget Remaining	Labor YTD Expenses	Labor Budget Utilization	Labor Budget Remaining
Q1						
Jul-2024	\$202,915	5.7%	\$3,327,584	\$84,522	7.1%	\$1,098,302
Aug-2024	\$397,024	11.2%	\$3,133,475	\$189,846	16.1%	\$992,978
Sep-2024	\$621,831	17.6%	\$2,908,668	\$297,739	25.2%	\$885,085
Q2						
Oct-2024	\$810,358	23.0%	\$2,720,141	\$360,809	30.5%	\$822,015
Nov-2024	\$1,082,608	30.7%	\$2,447,891	\$462,149	39.1%	\$720,675
Dec-2024	\$1,373,250	38.9%	\$2,157,250	\$547,164	46.3%	\$635,660
Q3						
Jan-2025	\$1,701,314	48.2%	\$1,829,185	\$629,380	53.2%	\$553,444
Feb-2025	\$2,002,074	56.7%	\$1,528,425	\$721,686	61.0%	\$461,138
Mar-2025	\$2,373,246	67.2%	\$1,157,253	\$864,387	73.1%	\$318,437

Expenditures: Livermore Sole Use Facilities

Table 10 - LAVWMA FYE 2025 expenditures (labor & accounts payable [A/P]) for Livermore sole use facilities; quarterly and YTD (Total) summaries provided below monthly values

Expenses	Labor	A/P	Total
Q1			
Jul-2024	\$0	\$745	\$745
Aug-2024	\$0	\$609	\$609
Sep-2024	\$0	\$686	\$686
Q2			
Oct-2024	\$401	\$0	\$401
Nov-2024	\$1,203	\$657	\$1,860
Dec-2024	\$401	\$812	\$1,213
Q3			
Jan-2025	\$0	\$786	\$786
Feb-2025	\$0	\$747	\$747
Mar-2025	\$0	\$815	\$815
	Labor	A/P	Total
Q1			
Total	\$0	\$2,040	\$2,040
Average	\$0	\$680	\$680
Minimum	\$0	\$609	\$609
Maximum	\$0	\$745	\$745
Q2			
Total	\$2,004	\$1,469	\$3,474
Average	\$668	\$490	\$1,158
Minimum	\$401	\$0	\$401
Maximum	\$1,203	\$812	\$1,860
Q3			
Total	\$0	\$2,349	\$2,349
Average	\$0	\$783	\$783
Minimum	\$0	\$747	\$747
Maximum	\$0	\$815	\$815
Total Total	\$2,004	\$5,858	\$7,862
Total Average	\$223	\$651	\$874
Total Minimum	\$0	\$0	\$401
Total Maximum	\$1,203	\$815	\$1,860

Detailed YTD O&M Budget Comparison to Actual Expenses

LAVWMA BUDGET COMPARISON TO ACTUAL EXPENSES: GOODS & SERVICES																Current FY Period:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project Total: LAVWMA	Labor LAVWMA	Phase Total: supply	Materials & Supplies	Laboratory Analysis	Contractual Services	Utilities	Non-Routine	ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
								Budget FY 2024-2025	July 2024	August 2024	September 2024	October 2024	November 2024	December 2024	January 2025	February 2025	March 2025	April 2025	May 2025	June 2025	YTD TOTAL	Budget																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

EBDA Monthly Reports

Parameter	Flow	CBOD Qual	CBOD	TSS	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Qual	Fecal Coliforms	Entero Qual	Enterococci
Units	MGD		mg/L	mg/L	SM 2540 D-2011	SU	SU	mg/L	mg/L		MPN/100mL		MPN/100mL
Test Method	Daily Average (Mean)	SM 5210 B-2011		SM 2540 D-2011		Instant Min	Instant Max	Daily Average (Mean)	Daily Average (Mean)		SM 9221 C,E-2006		Enterolert
MDL		2.0		1.2									
RL		2.0		4.5							2		10
Location	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS	SLSS		SLSS
1/1/2025	10.53					7.52	7.67	1.89					
1/2/2025	12.69					7.52	7.70	1.69					
1/3/2025	12.64					7.55	7.66	1.58					
1/4/2025	11.73					7.54	7.68	1.53					
1/5/2025	9.45					7.48	7.67	1.49					
1/6/2025	12.24					7.49	7.63	1.41					
1/7/2025	12.16					7.48	7.64	1.80		<	2	<	10
1/8/2025	11.89	6.1		8.0		7.52	7.69	2.30					
1/9/2025	11.36					7.52	7.73	1.97					
1/10/2025	11.32					7.52	7.70	1.75					
1/11/2025	10.71					7.52	7.75	2.21					
1/12/2025	10.51					7.48	7.73	1.79					
1/13/2025	7.94					7.52	7.68	1.70					
1/14/2025	11.52					7.52	7.75	1.50			4	<	10
1/15/2025	10.75	4.1		4.0		7.60	7.72	1.45					
1/16/2025	11.85					7.55	7.75	1.47					
1/17/2025	9.49					7.62	7.78	1.70					
1/18/2025	9.47					7.54	7.73	1.75					
1/19/2025	11.37					7.62	7.75	1.48					
1/20/2025	11.17					7.54	7.73	1.47					
1/21/2025	9.93					7.52	7.69	1.33			2	<	10
1/22/2025	7.29	7.7		5.4		7.60	8.03	1.25					
1/23/2025	10.03					7.63	7.78	1.68					
1/24/2025	11.73					7.53	8.10	2.42					
1/25/2025	8.43					8.05	8.27	2.19					
1/26/2025	11.22					8.00	8.16	2.66					
1/27/2025	11.20					7.01	8.15	2.71					
1/28/2025	8.13					7.14	7.32	2.63				<	10
1/29/2025	11.16	9.7		7.9		7.26	7.55	2.10					
1/30/2025	8.46					7.14	7.39	1.95					
1/31/2025	10.15					7.21	7.39	1.96					
Note:													
Column G - pH Minimum; online													
Column H - pH Maximum; online													

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	Instant Min	Instant Max	Daily Average (Mean)	Daily Average (Mean)		SM 9221 C,E-2006		Enterolert
MDL			2.0		1.2								
RL			2.0		4.5						2		10
Location	LAVWMA-EXP		LAVWMA-EXP		LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP		SLSS		SLSS
3/1/2025	13.98					7.99	8.20	2.37					
3/2/2025	17.95					7.98	8.16	2.49					
3/3/2025	18.03					7.93	8.14	2.55					
3/4/2025	15.22					7.93	8.12	2.65		<	2		
3/5/2025	16.18		4.9		5.6	8.00	8.13	2.71					
3/6/2025	16.73					7.36	8.17	2.84					
3/7/2025	14.25					7.32	7.44	2.96					
3/8/2025	14.50					7.30	7.40	2.85					
3/9/2025	15.97					7.28	7.47	3.08					
3/10/2025	17.13					7.26	7.51	2.82					
3/11/2025	14.78					7.36	7.52	2.70		<	2		
3/12/2025	15.42		4.6		5.5	7.41	7.54	2.56					
3/13/2025	18.84					7.33	7.46	2.84					
3/14/2025	19.75					7.32	7.59	2.75					
3/15/2025	19.96					7.32	7.44	2.26					
3/16/2025	18.68					7.37	7.47	2.11					
3/17/2025	15.39					7.36	7.47	1.94					
3/18/2025	17.48					7.28	7.48	1.96		<	2	<	10
3/19/2025	26.15		5.4		6.2	7.40	7.51	2.23					
3/20/2025	22.93					7.40	7.52	2.02					
3/21/2025	18.42					7.33	7.54	1.96					
3/22/2025	18.25					7.35	7.55	2.06					
3/23/2025	15.66					7.44	7.53	1.82					
3/24/2025	15.67					7.37	7.86	1.68					
3/25/2025	15.02					7.42	7.86	1.59		<	2		10
3/26/2025	14.82		5.7		8.3	7.47	7.57	1.98					
3/27/2025	14.84					7.50	7.64	2.24					
3/28/2025	14.56					7.49	7.59	2.10					
3/29/2025	15.06					7.30	7.56	2.58					
3/30/2025	15.05					7.33	7.53	2.39					
3/31/2025	17.49					7.44	7.53	2.01					
Note:													
Column G - pH Minimum; online													
Column H - pH Maximum; online													

Langelier Saturation Index Report (Livermore, DSRSD, LAVWMA)

The Langelier Saturation index is used to predict corrosion potential on the export pipeline. Keeping a Langelier index between -0.5 – 0.5 is a good target.

Langelier pH Saturation Index (Jan-25 through Mar-25)

Agency	Collection Date	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH Actual	pH Saturation	Langelier Index
Livermore	02/04/25	630	20.0	75	302	7.5	7.3	0.3
DSRSD	01/13/25	682	20.2	96	298	7.3	7.4	-0.1
LAVWMA	01/13/25	676	18.3	94	305	7.5	7.5	0

Errata

In last quarter's report, we incorrectly reported monthly and total export flow values for Dublin San Ramon and Pleasanton (see excerpt below, red rectangles indicating incorrect values). The values have been corrected and are posted in Table 6 within this document. Combined export flows were unaffected.

	Dublin San Ramon (MG)	Livermore (MG)	Pleasanton (MG)	Combined Export (MG)
Q1	0.00	325.05	219.24	544.29
Jul-2024	0.00	103.27	42.54	145.81
Aug-2024	0.00	108.55	67.49	176.04
Sep-2024	0.00	113.23	109.21	222.44
Q2	252.75	452.93	530.04	1,235.72
Oct-2024	0.00	134.64	160.50	295.15
Nov-2024	95.51	149.06	175.53	420.11
Dec-2024	157.24	169.22	194.01	520.47