

LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT

MEMORANDUM

DATE: APRIL 28, 2020

TO: BOARD OF DIRECTORS
Lake Arrowhead Community Services District

FROM: 
MATT BROOKS, Operations Manager

SUBJECT: OPERATIONS MANAGER'S REPORT

A. RECOMMENDATION

This is an information item.

B. REASON FOR RECOMMENDATION

This is an information item.

C. BACKGROUND INFORMATION

This report is to give an update on water delivered in 2020.

D. FISCAL INFORMATION

This is an information item.

E. ENVIRONMENTAL IMPACT

This is an information item.

F. ATTACHMENTS

- 2020 Monthly Report
- 2019 Monthly Report
- March 2020 Water Delivered Quarterly Analysis

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2020 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	ROTW CLAWA PURCHASE (a)	BRENTWOOD CLAWA PURCHASE (a)	COMBINED PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	UN-METERED WATER (d)
JANUARY	0.00	15.43	24.03	31.20	55.23	4.72	1.50	0.00	0.00	0.00	55.23	67.44	55.99	26.57	0.23	11.22
FEBRUARY	0.00	14.64	46.73	0.00	46.73	4.48	2.79	0.00	0.00	0.00	46.73	59.68	48.78	26.80	0.00	10.90
MARCH	0.00	15.07	44.08	0.00	44.08	3.51	2.59	0.00	0.00	0.00	44.08	58.23	47.30	26.80	0.34	10.59
1ST QUARTER	0.00	45.14	114.84	31.20	146.04	12.71	6.88	0.00	0.00	0.00	146.04	185.35	152.07	80.17	0.57	32.71
APRIL	0.00				0.00					0.00	0.00	0.00		27.14	0.00	0.00
MAY	0.00				0.00					0.00	0.00	0.00			0.00	0.00
JUNE	0.00				0.00					0.00	0.00	0.00			0.00	0.00
2ND QUARTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.14	0.00	0.00
SEMI-ANNUAL	0.00	45.14	114.84	31.20	146.04	12.71	6.88	0.00	0.00	0.00	146.04	185.35	152.07	107.31	0.57	32.71
JULY	0.00				0.00					0.00	0.00	0.00			0.00	0.00
AUGUST	0.00				0.00					0.00	0.00	0.00			0.00	0.00
SEPTEMBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
3RD QUARTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OCTOBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
NOVEMBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
DECEMBER	0.00				0.00					0.00	0.00	0.00			0.00	0.00
4TH QUARTER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANNUAL TOTAL	0.00	45.14	114.84	31.20	146.04	12.71	6.88	0.00	0.00	0.00	146.04	185.35	152.07	107.31	0.57	32.71

(a) CLAWA consumption numbers are based upon monthly billing statements provided by CLAWA. CLAWA reads these meters on or near the 24th of each month, so the numbers may not be an actual representation of water consumed for said calendar month.

(b) Lake Draw = (1) + (5)

(c) Delivered to Distribution = (2) + (5) - (6) + (7) + (10)

(d) Un-Metered Water = ((12) - (13)) - (15)

(e) Storage Volume calculated 8:00 am the 1st of every month.

**ARROWHEAD WOODS MONTHLY DATA
ACRE FEET**

2019 MONTH	(1) TRANSFER TO GV LAKE	(2) WELLS TO SYSTEM	(3) BERNINA PLANT	(4) CEDAR GLEN PLANT	(5) COMBINED PLANT	(6) COMBINED PLANT BACKWASH	(7) BERNINA RECYCLE	(8) ROTW CLAWA PURCHASE (a)	(9) BRENTWOOD CLAWA PURCHASE (a)	(10) COMBINED PURCHASE (a)	(11) LAKE DRAW (b)	(12) DELIVERED TO DISTRIBUTION (c)	(13) METERED WATER	(14) STORAGE VOLUME (e)	(15) STORAGE VOLUME CHANGE +/-	(16) UN-METERED WATER (d)
JANUARY	0.00	13.17	0.00	60.63	60.63	4.33	0.00	0.00	0.00	0.00	60.63	69.47	56.45	23.82	0.80	12.22
FEBRUARY	0.00	15.90	1.38	55.11	56.49	4.54	0.00	0.00	0.00	0.00	56.49	67.85	53.02	24.62	2.09	12.74
MARCH	0.00	18.62	11.93	34.18	46.11	3.84	0.29	0.00	0.00	0.00	46.11	61.18	50.91	26.71	-0.28	10.55
1ST QUARTER	0.00	47.69	13.31	149.92	163.23	12.71	0.29	0.00	0.00	0.00	163.23	198.50	160.38	75.15	2.61	35.51
APRIL	0.00	19.37	51.07	0.00	51.07	4.56	2.37	0.00	0.00	0.00	51.07	68.25	57.30	26.43	0.00	10.95
MAY	0.00	17.66	83.86	0.00	83.86	6.93	4.26	0.00	0.00	0.00	83.86	98.85	84.74	26.37	1.78	12.33
JUNE	0.00	16.72	120.37	0.00	120.37	9.54	6.42	0.00	2.34	2.34	120.37	136.31	121.85	28.15	-3.44	17.90
2ND QUARTER	0.00	53.75	255.30	0.00	255.30	21.03	13.05	0.00	2.34	2.34	255.30	303.41	263.89	80.95	-1.66	41.18
SEMI-ANNUAL	0.00	101.44	268.61	149.92	418.53	33.74	13.34	0.00	2.34	2.34	418.53	501.91	424.27	156.10	0.95	76.69
JULY	0.00	17.38	114.45	53.40	167.85	14.46	5.79	0.00	7.63	7.63	167.85	184.19	169.40	24.71	3.29	11.50
AUGUST	0.00	16.93	78.28	59.14	137.42	11.49	5.69	0.00	31.19	31.19	137.42	179.74	165.47	28.00	-1.97	16.24
SEPTEMBER	0.00	15.91	65.75	78.89	144.64	9.98	3.96	0.00	5.49	5.49	144.64	160.02	144.37	26.03	0.90	14.75
3RD QUARTER	0.00	50.22	258.48	191.43	449.91	35.93	15.44	0.00	44.31	44.31	449.91	523.95	479.24	78.74	2.22	42.49
OCTOBER	0.00	16.17	72.36	41.78	114.14	12.70	1.71	0.00	0.00	0.00	114.14	119.32	105.48	26.93	-0.85	14.69
NOVEMBER	0.00	15.01	38.71	23.65	62.36	5.03	2.46	0.00	0.00	0.00	62.36	74.80	64.13	26.08	0.34	10.33
DECEMBER	0.00	15.22	39.49	21.45	60.94	6.11	1.65	0.00	0.00	0.00	60.94	71.70	59.54	26.42	0.15	12.01
4TH QUARTER	0.00	46.40	150.56	86.88	237.44	23.84	5.82	0.00	0.00	0.00	237.44	265.82	229.15	79.43	-0.36	37.03
ANNUAL TOTAL	0.00	198.06	677.65	428.23	1105.88	93.51	34.60	0.00	46.65	46.65	1105.88	1291.68	1132.66	314.27	2.81	156.21

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(b) Lake Draw = (1) + (5)

(c) Delivered to Distribution = (2) + (5) - (6) + (7) + (10)

(d) Un-Metered Water = ((12) - (13)) - (15)

(e) Storage Volume calculated 8:00 am the 1st of every month.

April 28, 2020

March 2020 Water Delivered Quarterly Analysis

- In March 2020 (58.23 AF), consumption was slightly down when compared to March 2019 (61.18 AF). Through the 1st Quarter of 2020 (185.35 AF), consumption was 6.6% lower when compared to the 1st Quarter of 2019 (198.50). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- March 2020 Lake Draw = 44.08 AF vs March 2019 = 46.11 AF. Through the 1st Quarter of 2020 Lake Draw = 146.04 AF vs through the 1st Quarter of 2019 = 163.23 AF.
- March 2020 Wells To System = 15.07 AF vs March 2019 = 18.62 AF. Through the 1st Quarter of 2020 Wells to System = 45.14 AF vs through the 1st Quarter of 2019 = 47.69 AF.
- Through the 1st Quarter of 2020 total CLAWA purchase = 0 AF vs through the 1st Quarter of 2019 = 0 AF.
- Through the 1st Quarter of 2020 total Recycled Water Delivered to the LACC = 0 AF vs through the 1st Quarter of 2019 = 0 AF.