

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** JUNE 23, 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 IMPACT**

This is an information item.

**E. ENVIRONMENTAL IMPACT**

This is an information item.

**F. ATTACHMENTS**

- 2020 Monthly Report
- 2019 Monthly Report
- May 2020 Water Delivered Annual Analysis

**ARROWHEAD WOODS MONTHLY DATA  
ACRE FEET**

2020 MONTH	(1) TRANSFER TO GV LAKE (b)	(2) WELLS TO SYSTEM (c)	(3) BERNINA PLANT	(4) CEDAR GLEN PLANT	(5) COMBINED PLANT (b) (c)	(6) COMBINED PLANT BACKWASH (c)	(7) BERNINA RECYCLE (c)	(8) ROTW CLAWA PURCHASE (a)	(9) BRENTWOOD CLAWA PURCHASE (a)	(10) COMBINED PURCHASE (a) (c)	(11) LAKE DRAW (b)	(12) DELIVERED TO DISTRIBUTION (c) (d)	(13) METERED WATER (d)	(14) EMERGENCY TRANSFER TO DLP (d)	(15) STORAGE VOLUME (e)	(16) STORAGE VOLUME CHANGE +/- (d)	(17) 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	0.00	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	0.00	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	0.00	26.80	0.34	10.59
<b>1ST QUARTER</b>	<b>0.00</b>	<b>45.14</b>	<b>114.84</b>	<b>31.20</b>	<b>146.04</b>	<b>12.71</b>	<b>6.88</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>146.04</b>	<b>185.35</b>	<b>152.07</b>	<b>0.00</b>	<b>80.17</b>	<b>0.57</b>	<b>32.71</b>
APRIL	0.00	15.53	56.02	0.00	56.02	4.64	2.80	0.00	0.00	0.00	56.02	69.71	55.00	0.01	27.14	0.22	14.48
MAY	0.00	16.25	132.44	0.00	132.44	9.59	7.93	0.00	0.00	0.00	132.44	147.03	128.20	0.00	27.36	0.00	18.83
JUNE	0.00				0.00					0.00	0.00	0.00			24.29	-24.29	24.29
<b>2ND QUARTER</b>	<b>0.00</b>	<b>31.78</b>	<b>188.46</b>	<b>0.00</b>	<b>188.46</b>	<b>14.23</b>	<b>10.73</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>188.46</b>	<b>216.74</b>	<b>183.20</b>	<b>0.01</b>	<b>78.79</b>	<b>-24.07</b>	<b>57.60</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>76.92</b>	<b>303.30</b>	<b>31.20</b>	<b>334.50</b>	<b>26.94</b>	<b>17.61</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>334.50</b>	<b>402.09</b>	<b>335.27</b>	<b>0.01</b>	<b>158.96</b>	<b>-23.50</b>	<b>90.31</b>
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
<b>3RD QUARTER</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
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
<b>4TH QUARTER</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>ANNUAL TOTAL</b>	<b>0.00</b>	<b>76.92</b>	<b>303.30</b>	<b>31.20</b>	<b>334.50</b>	<b>26.94</b>	<b>17.61</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>334.50</b>	<b>402.09</b>	<b>335.27</b>	<b>0.01</b>	<b>158.96</b>	<b>-23.50</b>	<b>90.31</b>

(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+14)) - (16)

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

\* 0.01 AF transferred from LACSD to DLP for testing purposes while putting interconnection online in April 2020.

**ARROWHEAD WOODS MONTHLY DATA  
ACRE FEET**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
2019 MONTH	TRANSFER TO GV LAKE	WELLS TO SYSTEM	BERNINA PLANT	CEDAR GLEN PLANT	COMBINED PLANT	COMBINED PLANT BACKWASH	BERNINA RECYCLE	CLAWA PURCHASE (a)	CLAWA PURCHASE (a)	BRENTWOOD PURCHASE (a)	LAKE DRAW (b)	DELIVERED TO DISTRIBUTION (c)	METERED WATER	STORAGE VOLUME (e)	STORAGE VOLUME CHANGE +/-	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
<b>1ST QUARTER</b>	<b>0.00</b>	<b>47.69</b>	<b>13.31</b>	<b>149.92</b>	<b>163.23</b>	<b>12.71</b>	<b>0.29</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>163.23</b>	<b>198.50</b>	<b>160.38</b>	<b>75.15</b>	<b>2.61</b>	<b>35.51</b>
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
<b>2ND QUARTER</b>	<b>0.00</b>	<b>53.75</b>	<b>255.30</b>	<b>0.00</b>	<b>255.30</b>	<b>21.03</b>	<b>13.05</b>	<b>0.00</b>	<b>2.34</b>	<b>2.34</b>	<b>255.30</b>	<b>303.41</b>	<b>263.89</b>	<b>80.95</b>	<b>-1.66</b>	<b>41.18</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>101.44</b>	<b>268.61</b>	<b>149.92</b>	<b>418.53</b>	<b>33.74</b>	<b>13.34</b>	<b>0.00</b>	<b>2.34</b>	<b>2.34</b>	<b>418.53</b>	<b>501.91</b>	<b>424.27</b>	<b>156.10</b>	<b>0.95</b>	<b>76.69</b>
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
<b>3RD QUARTER</b>	<b>0.00</b>	<b>50.22</b>	<b>258.48</b>	<b>191.43</b>	<b>449.91</b>	<b>35.93</b>	<b>15.44</b>	<b>0.00</b>	<b>44.31</b>	<b>44.31</b>	<b>449.91</b>	<b>523.95</b>	<b>479.24</b>	<b>78.74</b>	<b>2.22</b>	<b>42.49</b>
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
<b>4TH QUARTER</b>	<b>0.00</b>	<b>46.40</b>	<b>150.56</b>	<b>86.88</b>	<b>237.44</b>	<b>23.84</b>	<b>5.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>237.44</b>	<b>265.82</b>	<b>229.15</b>	<b>79.43</b>	<b>-0.36</b>	<b>37.03</b>
<b>ANNUAL TOTAL</b>	<b>0.00</b>	<b>198.06</b>	<b>677.65</b>	<b>428.23</b>	<b>1105.88</b>	<b>93.51</b>	<b>34.60</b>	<b>0.00</b>	<b>46.65</b>	<b>46.65</b>	<b>1105.88</b>	<b>1291.68</b>	<b>1132.66</b>	<b>314.27</b>	<b>2.81</b>	<b>156.21</b>

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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.

June 23, 2020

### May 2020 Water Delivered Annual Analysis

- In May 2020 (147.03 AF), consumption was up 48.7% when compared to May 2019 (98.85 AF)! Through the 1<sup>st</sup> 5 months of 2020 (402.09 AF), consumption is 10% higher when compared to the 1<sup>st</sup> 5 months of 2019 (365.60 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System. The two biggest contributors to the increase in 2020 vs 2019 are the COVID-19 stay at home order and the weather. May 2019 was below average in temperature and this was definitely reflected in May 2019's consumption numbers. For example, May 2018 was 120.35 AF and May 2017 was 132.62 AF. May 2020 is definitely higher than average, however, keep in mind that May 2019 was lower than usual.
- May 2020 Lake Draw = 132.44 AF vs May 2019 = 83.86 AF. Through the 1<sup>st</sup> 5 months of 2020 Lake Draw = 334.50 AF vs through the 1<sup>st</sup> 5 months of 2019 = 298.16 AF.
- May 2020 Wells to System = 16.25 AF vs May 2019 = 17.66 AF. Through the 1<sup>st</sup> 5 months of 2020 Wells to System = 76.92 AF vs through the 1<sup>st</sup> 5 months of 2019 = 84.72 AF.
- Through the 1<sup>st</sup> 5 months of 2020 total CLAWA purchase = 0 AF vs through the 1<sup>st</sup> 5 months of 2019 = 0 AF.
- Recycled water deliveries to the LACC commenced on May 13, 2020 and we delivered 29.26 AF in May 2020. In May 2019 we delivered 12.55 AF of Recycled water to the LACC.