

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** SEPTEMBER 22, 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
- August 2020 Water Delivered Annual Analysis

**ARROWHEAD WOODS MONTHLY DATA  
ACRE FEET**

2020 MONTH	(1) TRANSFER TO GY 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	-3.07	21.90
JUNE	0.00	15.24	112.47	37.22	149.69	11.71	6.70	0.00	8.99	8.99	149.69	168.91	149.47	0.00	24.29	0.99	18.45
<b>2ND QUARTER</b>	<b>0.00</b>	<b>47.02</b>	<b>300.93</b>	<b>37.22</b>	<b>338.15</b>	<b>25.94</b>	<b>17.43</b>	<b>0.00</b>	<b>8.99</b>	<b>8.99</b>	<b>338.15</b>	<b>385.65</b>	<b>332.67</b>	<b>0.01</b>	<b>78.79</b>	<b>-1.86</b>	<b>54.83</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>92.16</b>	<b>415.77</b>	<b>68.42</b>	<b>484.19</b>	<b>38.65</b>	<b>24.31</b>	<b>0.00</b>	<b>8.99</b>	<b>8.99</b>	<b>484.19</b>	<b>571.00</b>	<b>484.74</b>	<b>0.01</b>	<b>158.96</b>	<b>-1.29</b>	<b>87.54</b>
JULY	0.00	15.66	118.68	58.27	176.95	12.16	6.70	0.00	13.29	13.29	176.95	200.44	183.88	0.00	25.28	1.51	15.05
AUGUST	0.00	15.07	113.77	65.33	179.10	14.77	5.78	0.00	13.22	13.22	179.10	198.40	181.37	0.00	26.79	1.24	15.79
SEPTEMBER	0.00				0.00					0.00	0.00	0.00			28.03	0.00	0.00
<b>3RD QUARTER</b>	<b>0.00</b>	<b>30.73</b>	<b>232.45</b>	<b>123.60</b>	<b>356.05</b>	<b>26.93</b>	<b>12.48</b>	<b>0.00</b>	<b>26.51</b>	<b>26.51</b>	<b>356.05</b>	<b>398.84</b>	<b>365.25</b>	<b>0.00</b>	<b>80.10</b>	<b>2.75</b>	<b>30.84</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>122.89</b>	<b>648.22</b>	<b>192.02</b>	<b>840.24</b>	<b>65.58</b>	<b>36.79</b>	<b>0.00</b>	<b>35.50</b>	<b>35.50</b>	<b>840.24</b>	<b>969.84</b>	<b>849.99</b>	<b>0.01</b>	<b>239.06</b>	<b>1.46</b>	<b>118.38</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)	ROTW CLAWA PURCHASE (a)	BRENTWOOD CLAWA 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.

September 22, 2020

August 2020 Water Delivered Annual Analysis

- In August 2020 (198.40 AF) consumption was up 10.4% when compared to August 2019 (179.74 AF). Through the 1<sup>st</sup> 8 months of 2020 (969.84 AF) consumption is up 12% when compared to the 1<sup>st</sup> 8 months of 2019 (865.84 AF). These numbers are based off column (12) on the Report, and only counts water delivered to the Distribution System.
- August 2020 Lake Draw = 179.10 AF vs August 2019 = 137.42 AF. Through the 1<sup>st</sup> 8 months of 2020 Lake Draw = 840.24 AF vs through the 1<sup>st</sup> 8 months of 2019 = 723.80 AF.
- August 2020 Wells to System = 15.07 AF vs August 2019 = 16.93 AF. Through the 1<sup>st</sup> 8 months of 2020 Wells to System = 122.89 AF vs through the 1<sup>st</sup> 8 months of 2019 = 135.75 AF.
- Through the 1<sup>st</sup> 8 months of 2020 total CLAWA purchase = 35.50 AF vs through the 1<sup>st</sup> 8 months of 2019 = 41.16 AF.
- Through the 1<sup>st</sup> 8 months of 2020 total Recycled Water Delivered to the LACC = 202.85 AF vs through the 1<sup>st</sup> 8 months of 2019 = 149.37 AF.