

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** AUGUST 24, 2021

**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 2021.

**D. FISCAL IMPACT**

This is an information item.

**E. ENVIRONMENTAL IMPACT**

This is an information item.

**F. ATTACHMENTS**

- 2021 Monthly Report
- 2020 Monthly Report
- July 2021 Water Delivered Annual Analysis

**ARROWHEAD WOODS MONTHLY DATA  
ACRE FEET**

2021 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	14.30	64.52	0.00	64.52	4.64	1.77	0.00	0.00	0.00	64.52	75.95	62.23	0.00	26.75	-1.05	14.77
FEBRUARY	0.00	12.49	37.67	21.25	58.92	5.34	1.37	0.00	0.00	0.00	58.92	67.44	52.34	0.00	25.70	0.41	14.69
MARCH	0.00	14.09	55.59	0.00	55.59	4.39	2.87	0.00	0.00	0.00	55.59	68.16	54.05	0.00	26.11	0.91	13.20
<b>1ST QUARTER</b>	<b>0.00</b>	<b>40.88</b>	<b>157.78</b>	<b>21.25</b>	<b>179.03</b>	<b>14.37</b>	<b>6.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>179.03</b>	<b>211.55</b>	<b>168.62</b>	<b>0.00</b>	<b>78.56</b>	<b>0.27</b>	<b>42.66</b>
APRIL	0.00	16.84	45.63	0.00	45.63	3.66	2.42	0.00	13.13	13.13	45.63	74.36	65.08	0.00	27.02	-0.94	10.22
MAY	0.00	16.99	110.09	0.00	110.09	7.32	6.54	0.00	13.58	13.58	110.09	139.88	125.77	0.00	26.08	0.30	13.81
JUNE	0.00	15.51	134.39	16.25	150.64	11.62	5.81	0.00	13.10	13.10	150.64	173.44	156.67	0.00	26.38	0.30	16.47
<b>2ND QUARTER</b>	<b>0.00</b>	<b>49.34</b>	<b>290.11</b>	<b>16.25</b>	<b>306.36</b>	<b>22.60</b>	<b>14.77</b>	<b>0.00</b>	<b>39.81</b>	<b>39.81</b>	<b>306.36</b>	<b>387.68</b>	<b>347.52</b>	<b>0.00</b>	<b>79.48</b>	<b>-0.34</b>	<b>40.50</b>
<b>SEMI-ANNUAL</b>	<b>0.00</b>	<b>90.22</b>	<b>447.89</b>	<b>37.50</b>	<b>485.39</b>	<b>36.97</b>	<b>20.78</b>	<b>0.00</b>	<b>39.81</b>	<b>39.81</b>	<b>485.39</b>	<b>599.23</b>	<b>516.14</b>	<b>0.00</b>	<b>158.04</b>	<b>-0.07</b>	<b>83.16</b>
JULY	0.00	15.99	147.54	41.07	188.61	14.32	4.44	0.00	5.39	5.39	188.61	200.11	182.05	0.00	26.39	0.81	17.25
AUGUST	0.00				0.00					0.00	0.00	0.00			27.20	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>15.99</b>	<b>147.54</b>	<b>41.07</b>	<b>188.61</b>	<b>14.32</b>	<b>4.44</b>	<b>0.00</b>	<b>5.39</b>	<b>5.39</b>	<b>188.61</b>	<b>200.11</b>	<b>182.05</b>	<b>0.00</b>	<b>53.59</b>	<b>0.81</b>	<b>17.25</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>106.21</b>	<b>595.43</b>	<b>78.57</b>	<b>674.00</b>	<b>51.29</b>	<b>25.22</b>	<b>0.00</b>	<b>45.20</b>	<b>45.20</b>	<b>674.00</b>	<b>799.34</b>	<b>698.19</b>	<b>0.00</b>	<b>211.63</b>	<b>0.74</b>	<b>100.41</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.

\* Due to technical issues with our metering system, the METERED WATER (13) data for January was collected between 02-01-2021 and 02-10-2021.

**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	-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	12.99	5.78	0.00	13.22	13.22	179.10	200.18	181.37	0.00	26.79	1.24	17.57
SEPTEMBER	0.00	14.27	101.99	59.93	161.92	11.34	5.63	0.00	10.50	10.50	161.92	180.98	164.41	0.00	28.03	0.06	16.51
<b>3RD QUARTER</b>	<b>0.00</b>	<b>45.00</b>	<b>334.44</b>	<b>183.53</b>	<b>517.97</b>	<b>36.49</b>	<b>18.11</b>	<b>0.00</b>	<b>37.01</b>	<b>37.01</b>	<b>517.97</b>	<b>581.60</b>	<b>529.66</b>	<b>0.00</b>	<b>80.10</b>	<b>2.81</b>	<b>49.13</b>
OCTOBER	0.00	14.76	91.85	46.27	138.12	11.13	5.41	0.00	0.00	0.00	138.12	147.16	132.27	0.00	28.09	-0.64	15.53
NOVEMBER	0.00	13.76	69.12	0.00	69.12	5.64	4.36	0.00	0.00	0.00	69.12	81.60	70.04	0.00	27.45	-0.29	11.85
DECEMBER	0.00	14.25	67.65	0.00	67.65	5.94	1.47	0.00	0.00	0.00	67.65	77.43	65.35	0.00	27.16	-0.41	12.49
<b>4TH QUARTER</b>	<b>0.00</b>	<b>42.77</b>	<b>228.62</b>	<b>46.27</b>	<b>274.89</b>	<b>22.71</b>	<b>11.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>274.89</b>	<b>306.19</b>	<b>267.66</b>	<b>0.00</b>	<b>82.70</b>	<b>-1.34</b>	<b>39.87</b>
<b>ANNUAL TOTAL</b>	<b>0.00</b>	<b>179.93</b>	<b>978.83</b>	<b>298.22</b>	<b>1277.05</b>	<b>97.85</b>	<b>53.66</b>	<b>0.00</b>	<b>46.00</b>	<b>46.00</b>	<b>1277.05</b>	<b>1458.79</b>	<b>1282.06</b>	<b>0.01</b>	<b>321.76</b>	<b>0.18</b>	<b>176.54</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+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.

August 24, 2021

July 2021 Water Delivered Annual Analysis

- In July 2021 (200.11AF) consumption is about the same compared to July of 2020 (200.44 AF). Through the 1<sup>st</sup> 7 months of 2021 (799.34AF) consumption is up 3.6% when compared to the 1<sup>st</sup> 7 months of 2020 (771.44 AF). These numbers are based off of column (12) on the Report, and only counts water delivered to the Distribution System.
- July 2021 188.61 Lake Draw = AF vs July 2020 = 176.95 AF. Through the 1<sup>st</sup> 7 months of 2021 674.00 Lake Draw = AF vs through the 1<sup>st</sup> 7 months of 2020 = 661.14 AF.
- July 2021 Wells To System = 15.99 AF vs July 2020 = 15.66 AF. Through the 1<sup>st</sup> 7 months of 2021 Wells to System = 106.21 AF vs through the 1<sup>st</sup> 7 months of 2020 = 107.82 AF.
- Through the 1<sup>st</sup> 7 months of 2021 total CLAWA purchase = 45.20 AF vs through the 1<sup>st</sup> 7 months of 2020 = 22.28 AF.
- Through the 1<sup>st</sup> 7 months of 2021 total Recycled Water Delivered to the LACC = 124.56 AF vs through the 1<sup>st</sup> 7 months of 2020 = 146.34 AF.