

**LAKE ARROWHEAD COMMUNITY SERVICES DISTRICT**

**MEMORANDUM**

**DATE:** January 26, 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 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
- December 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	-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>

(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) ROTW	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.

January 26, 2021

December 2020 Water Delivered Annual Analysis

- In December 2020 (77.43 AF), consumption was up 7.4% when compared to December 2019 (71.70 AF). In 2020 consumption was up 11.5% (1458.79 AF) compared to 2019 (1291.68 AF). These numbers are based off column (12) on the Report, and only counts water delivered to the Distribution System.
- December 2020 Lake Draw = 67.65 AF vs December 2019 = 60.94 AF. In 2020 lake withdrawals were up 13.5% (1277.05 AF) compared to 2019 (1105.88 AF). However, 1277 AF = 81.5% of the allotted 1566 AF per year for consumptive purposes under SWRCB Order WR 2006-001.
- December 2020 Wells to System = 14.25 AF vs December 2019 = 15.22 AF. In 2020 “Wells to System” was down 9% (179.93 AF) when compared to 2019 (198.06 AF).
- December 2020 total CLAWA purchase = 0 AF vs December 2019 = 0 AF. In 2020 CLAWA purchase = 46.00 AF, compared to 2019 = 46.65 AF.
- December 2020 Recycled Water delivered = 0 AF vs December 2019 = 0 AF. 2020 Recycled Water delivered was up 21.8% (269.00 AF) compared to 2019 (210.59 AF).