

## **Operations Update**

Plant Operations – Plant operations and treatment were good for the month of May. Pounds limits for suspended solids were met; no credits were used from the treatment basin.

Wet Weather Event – On Monday May 27, 2019 the plant had experienced high flows in the late evening hours. This blending event lasted for about four hours. Total plant flow was 17,216,000 MGD, peaked at 34,000,000, and blended 84,000 gallons. That day there was a soaking rain for most of the day and became heavier in the evening hours causing the plant to go into the blending event.

## **Maintenance Update**

Day Tank Mixer (Wilo mixer) – The mixer will be here the week of June 17<sup>th</sup>.

Laser Flow System Meters – The plant now has some flow data comparing the laser flow meters to the ultrasonic partial flume meters at two meter stations. In the packets are the last three months of data showing the comparison between the two meters. The laser flow meters are trending less than the ultrasonic; notice the lower the flow the percent difference between the two meters is greater.

HOV Agricultural Land (Grass Buffers) – Working on getting a few quotes; the Outagamie Land Conservation Department has some contractors that they use and also will be getting a quote from the Outagamie Highway Department.

Turbine Pump #1 Rebuild – The Turbine pump was reinstalled on June 6<sup>th</sup>. LW Allen will be here the week of June 10<sup>th</sup> for startup. This was the last of the three turbine pumps sent in. If there are no premature failures on these pumps it is projected in about eight years the process of inspection/rebuild will be due once again.

Kevin Skogman  
Director of Operations & Maintenance

Mar-19

MS#1				MS#2																			
Date	Ultrasonic Gallons	Laser Gallons	% Diff	Date	Ultrasonic Gallons	Laser Gallons	% Diff																
31	853,000	772,000	9.50	31	759,000	625,000	17.655																
30	865,000	783,000	9.48	30	769,000	634,000	17.555																
29	944,000	855,000	9.43	29	840,000	692,000	17.619																
28	956,000	886,000	7.32	28	862,000	733,000	14.965																
27	960,000	890,000	7.29	27	866,000	735,000	15.127																
26	969,000	906,000	6.50	26	816,000	691,000	15.319																
25	1,022,000	955,000	6.56	25	860,000	729,000	15.233																
24	1,218,000	1,186,000	2.63	24	966,000	869,000	10.041																
23	1,217,000	1,185,000	2.63	23	965,000	868,000	10.052																
22	1,273,000	1,241,000	2.51	22	1,010,000	908,000	10.099																
21	1,342,000	1,323,000	1.42	21	1,115,000	1,035,000	7.175																
20	1,292,000	1,275,000	1.32	20	1,073,000	996,000	7.176																
19	1,248,000	1,207,000	3.29	19	1,107,000	1,037,000	6.323																
18	1,175,000	1,136,000	3.32	18	1,043,000	976,000	6.424																
17	1,173,000	1,154,000	1.62	17	1,190,000	1,141,000	4.118																
16	1,206,000	1,186,000	1.66	16	1,224,000	1,173,000	4.167																
15	1,607,000	1,580,000	1.68	15	1,630,000	1,563,000	4.110																
14	3,826,000	3,934,000	(2.82)	14	2,986,000	2,783,000	6.798																
13	2,219,000	2,282,000	(2.84)	13	1,731,000	1,613,000	6.817																
12	985,000	864,000	12.28	12	761,000	624,000	18.003																
11	661,000	580,000	12.25	11	511,000	418,000	18.200																
10	551,000	413,000	25.05	10	583,000	447,000	23.328																
9	505,000	379,000	24.95	9	535,000	410,000	23.364																
8	515,000	387,000	24.85	8	546,000	418,000	23.443																
7	517,000	377,000	27.08	7	471,000	353,000	25.053																
6	518,000	377,000	27.22	6	472,000	353,000	25.212																
5	503,000	355,000	29.42	5	502,000	362,000	27.888																
4	513,000	361,000	29.63	4	511,000	370,000	27.593																
3	536,000	398,000	25.75	3	543,000	398,000	26.703																
2	523,000	388,000	25.81	2	530,000	388,000	26.792																
1	520,000	386,000	25.77	1	527,000	386,000	26.755																
<b>TOTAL</b>	<b>32,212,000</b>	<b>30,001,000</b>			<b>28,304,000</b>	<b>24,728,000</b>																	
<table border="1"> <tr> <td><b>Avg</b></td> <td><b>Avg Daily DIFF</b></td> <td><b>Avg</b></td> <td><b>% Diff</b></td> </tr> <tr> <td>1,039,097</td> <td>71,323</td> <td>967,774</td> <td>11.70</td> </tr> </table>				<b>Avg</b>	<b>Avg Daily DIFF</b>	<b>Avg</b>	<b>% Diff</b>	1,039,097	71,323	967,774	11.70	<table border="1"> <tr> <td><b>Avg</b></td> <td><b>Avg Daily DIFF</b></td> <td><b>Avg</b></td> <td><b>% Diff</b></td> </tr> <tr> <td>913,032</td> <td>115,355</td> <td>797,677</td> <td>15.778</td> </tr> </table>				<b>Avg</b>	<b>Avg Daily DIFF</b>	<b>Avg</b>	<b>% Diff</b>	913,032	115,355	797,677	15.778
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**Apr-19**

MS#1				MS#2																											
Date	Ultrasonic Gallons	Laser Gallons	% Diff	Date	Ultrasonic Gallons	Laser Gallons	% Diff																								
30	934,000	876,000	6.21	30	828,000	627,000																									
29	970,000	910,000	6.19	29	861,000	651,000																									
28	899,000	846,000	5.90	28	800,000	928,000	(16.000)																								
27	950,000	894,000	5.89	27	846,000	980,000	(15.839)																								
26	1,033,000	972,000	5.91	26	919,000	1,066,000	(15.996)																								
25	1,245,000	1,236,000	0.72	25	1,056,000	908,000	14.015																								
24	1,311,000	1,301,000	0.76	24	1,112,000	956,000	14.029																								
23	1,979,000	2,048,000	(3.49)	23	1,494,000	1,351,000	9.572																								
22	1,860,000	1,926,000	(3.55)	22	1,404,000	1,270,000	9.544																								
21	945,000	902,000	4.55	21	922,000	780,000	15.401																								
20	1,012,000	966,000	4.55	20	987,000	836,000	15.299																								
19	1,125,000	1,074,000	4.53	19	1,097,000	929,000	15.314																								
18	1,461,000	1,457,000	0.27	18	1,359,000	1,271,000	6.475																								
17	1,423,000	1,418,000	0.35	17	1,324,000	1,238,000	6.495																								
16	1,069,000	1,021,000	4.49	16	937,000	783,000	16.435																								
15	1,026,000	980,000	4.48	15	899,000	752,000	16.352																								
14	1,274,000	1,271,000	0.24	14	984,000	855,000	13.110																								
13	1,382,000	1,379,000	0.22	13	1,067,000	928,000	13.027																								
12	1,490,000	1,486,000	0.27	12	1,150,000	1,000,000	13.043																								
11	924,000	842,000	8.87	11	841,000	693,000	17.598																								
10	811,000	740,000	8.75	10	738,000	609,000	17.480																								
9	875,000	794,000	9.26	9	718,000	595,000	17.131																								
8	913,000	829,000	9.20	8	748,000	620,000	17.112																								
7	853,000	750,000	12.08	7	735,000	565,000	23.129																								
6	742,000	653,000	11.99	6	639,000	491,000	23.161																								
5	767,000	675,000	11.99	5	661,000	508,000	23.147																								
4	778,000	678,000	12.85	4	687,000	540,000	21.397																								
3	783,000	683,000	12.77	3	691,000	544,000	21.274																								
2	823,000	724,000	12.03	2	686,000	563,000	17.930																								
1	837,000	736,000	12.07	1	697,000	572,000	17.934																								
<b>TOTAL</b>	<b>32,494,000</b>	<b>31,067,000</b>			<b>27,887,000</b>	<b>24,409,000</b>																									
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**May-19**

MS#1				MS#2			
Date	Ultrasonic Gallons	Laser Gallons	% Diff	Date	Ultrasonic Gallons	Laser Gallons	% Diff
31	1,000,000	954,000	4.60	31	868,000	732,000	15.668
30	1,113,000	1,062,000	4.58	30	965,000	815,000	15.544
29	1,457,000	1,504,000	(3.23)	29	1,247,000	1,162,000	6.816
28	2,126,000	2,195,000	(3.25)	28	1,821,000	1,697,000	6.809
27	2,435,000	2,214,000	9.08	27	1,910,000	1,585,000	17.016
26	1,000,000	995,000	0.50	26	784,000	713,000	9.056
25	1,176,000	1,171,000	0.43	25	923,000	839,000	9.101
24	980,000	975,000	0.51	24	768,000	698,000	9.115
23	870,000	814,000	6.44	23	818,000	678,000	17.115
22	967,000	906,000	6.31	22	909,000	755,000	16.942
21	1,002,000	957,000	4.49	21	857,000	720,000	15.986
20	1,057,000	1,008,000	4.64	20	904,000	759,000	16.040
19	1,178,000	1,093,000	7.22	19	1,009,000	846,000	16.155
18	804,000	746,000	7.21	18	689,000	578,000	16.110
17	812,000	754,000	7.14	17	696,000	584,000	16.092
16	774,000	676,000	12.66	16	745,000	595,000	20.134
15	762,000	667,000	12.47	15	734,000	587,000	20.027
14	778,000	698,000	10.28	14	748,000	616,000	17.647
13	823,000	738,000	10.33	13	790,000	652,000	17.468
12	919,000	865,000	5.88	12	819,000	691,000	15.629
11	964,000	907,000	5.91	11	860,000	725,000	15.698
10	1,037,000	976,000	5.88	10	925,000	780,000	15.676
9	1,385,000	1,356,000	2.09	9	1,136,000	990,000	12.852
8	1,211,000	1,185,000	2.15	8	994,000	866,000	12.877
7	729,000	643,000	11.80	7	745,000	566,000	24.027
6	780,000	688,000	11.79	6	797,000	605,000	24.090
5	910,000	854,000	6.15	5	809,000	604,000	25.340
4	888,000	833,000	6.19	4	789,000	589,000	25.349
3	970,000	910,000	6.19	3	862,000	643,000	25.406
2	1,205,000	1,197,000	0.66	2	1,008,000	850,000	15.675
1	1,351,000	1,341,000	0.74	1	1,130,000	953,000	15.664
<b>TOTAL</b>	<b>32,463,000</b>	<b>30,928,000</b>			<b>28,191,000</b>	<b>23,741,000</b>	

  

<b>Avg</b> 1,079,452	<b>Avg Daily DIFF</b> 51,000	<b>Avg</b> 1,028,452	<b>% Diff</b> 5.41
<b>Avg</b> 937,387	<b>Avg Daily DIFF</b> 147,935	<b>Avg</b> 789,452	<b>% Diff</b> 16.359