

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

\*\*\* PLANT FLOW vs. METER STATIONS FLOW \*\*\*

MONTH: JUNE

YEAR: 2020

DATE	(LASER)	(LASER)	(LASER)	PLANT vs. M.STATIONS DIFFERENCE GALLONS	
	PLANT FLOW GALLONS	METER STATIONS FLOW GALLONS	PLANT FLOW MINUS HAULERS' GALLONS		
1	8,689,000	9,021,800	8,662,590	(359,210)	(4.15) % DIFFERENCE
2	8,671,000	9,004,400	8,637,920	(366,480)	(4.24) % DIFFERENCE
3	8,414,000	8,813,800	8,414,000	(399,800)	(4.75) % DIFFERENCE
4	7,914,000	8,297,400	7,911,030	(386,370)	(4.88) % DIFFERENCE
5	8,111,000	8,160,300	8,106,750	(53,550)	(0.66) % DIFFERENCE
6	7,023,000	7,066,200	7,023,000	(43,200)	(0.62) % DIFFERENCE
7	7,167,000	7,211,200	7,167,000	(44,200)	(0.62) % DIFFERENCE
8	7,016,000	7,097,100	6,991,630	(105,470)	(1.51) % DIFFERENCE
9	7,710,000	7,797,100	7,698,340	(98,760)	(1.28) % DIFFERENCE
10	8,358,000	8,182,600	8,358,000	175,400	2.10 % DIFFERENCE
11	8,408,000	8,228,800	8,402,630	173,830	2.07 % DIFFERENCE
12	6,212,000	6,498,200	6,195,600	(302,600)	(4.88) % DIFFERENCE
13	6,500,000	6,799,500	6,500,000	(299,500)	(4.61) % DIFFERENCE
14	6,535,000	6,836,500	6,535,000	(301,500)	(4.61) % DIFFERENCE
15	6,459,000	6,411,600	6,408,840	(2,760)	(0.04) % DIFFERENCE
16	6,108,000	6,067,200	6,098,820	31,620	0.52 % DIFFERENCE
17	6,116,000	6,101,400	6,106,040	4,640	0.08 % DIFFERENCE
18	5,950,000	5,936,700	5,927,460	(9,240)	(0.16) % DIFFERENCE
19	5,941,000	5,923,100	5,910,400	(12,700)	(0.21) % DIFFERENCE
20	7,926,000	7,892,700	7,926,000	33,300	0.42 % DIFFERENCE
21	7,529,000	7,494,700	7,529,000	34,300	0.46 % DIFFERENCE
22	10,501,000	10,464,300	10,495,910	31,610	0.30 % DIFFERENCE
23	11,366,000	11,323,500	11,360,710	37,210	0.33 % DIFFERENCE
24	9,077,000	8,875,400	9,077,000	201,600	2.22 % DIFFERENCE
25	8,206,000	8,033,400	8,192,540	159,140	1.94 % DIFFERENCE
26	7,586,000	7,607,600	7,578,050	(29,550)	(0.39) % DIFFERENCE
27	7,043,000	7,066,500	7,043,000	(23,500)	(0.33) % DIFFERENCE
28	6,965,000	6,990,100	6,965,000	(25,100)	(0.36) % DIFFERENCE
29	6,827,000	6,529,800	6,813,010	283,210	4.16 % DIFFERENCE
30	6,875,000	6,573,800	6,872,520	298,720	4.35 % DIFFERENCE
		-	-	-	
TOTAL:	227,203,000	228,306,700	226,907,790	(1,398,910)	-0.62 %
AVERAGE:	7,573,433	7,364,732		(46,630)	
MAXIMUM:	11,366,000	11,323,500			
MINIMUM:					

ULTRASONIC INFLUENT TOTAL FLOW vs LASER INFLUENT TOTAL FLOW

MILLION GALLONS

ULTRASONIC	205,368,000		
		=	21,835,000
LASER	227,203,000		

### HEADWORKS INFLUENT METERS

(LASER)

(ULTRASONIC)

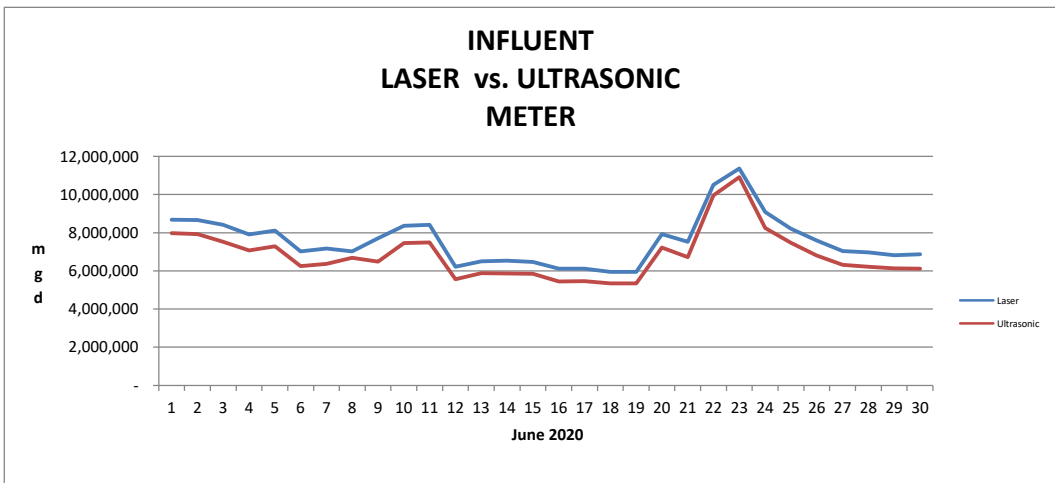
MONTH: June

DATE	FLOW GALLONS	FLOW GALLONS	% DIFF
1	8,689,000	7,978,000	8.18
2	8,671,000	7,922,000	8.64
3	8,414,000	7,525,000	10.57
4	7,914,000	7,072,000	10.64
5	8,111,000	7,292,000	10.10
6	7,023,000	6,253,000	10.96
7	7,167,000	6,367,000	11.16
8	7,016,000	6,684,000	4.73
9	7,710,000	6,481,000	15.94
10	8,358,000	7,460,000	10.74
11	8,408,000	7,494,000	10.87
12	6,212,000	5,561,000	10.48
13	6,500,000	5,876,000	9.60
14	6,535,000	5,858,000	10.36
15	6,459,000	5,849,000	9.44
16	6,108,000	5,445,000	10.85
17	6,116,000	5,454,000	10.82
18	5,950,000	5,335,000	10.34
19	5,941,000	5,348,000	9.98
20	7,926,000	7,221,000	8.89
21	7,529,000	6,723,000	10.71
22	10,501,000	9,955,000	5.20
23	11,366,000	10,913,000	3.99
24	9,077,000	8,247,000	9.14
25	8,206,000	7,470,000	8.97
26	7,586,000	6,809,000	10.24
27	7,043,000	6,312,000	10.38
28	6,965,000	6,215,000	10.77
29	6,827,000	6,139,000	10.08
30	6,875,000	6,110,000	11.13

227,203,000

205,368,000

DIFF= 21,835,000



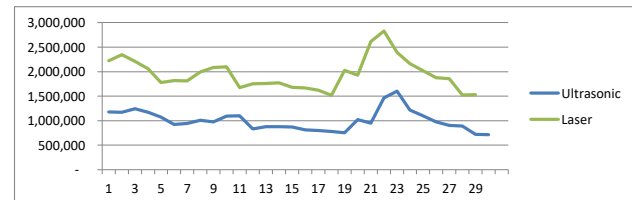
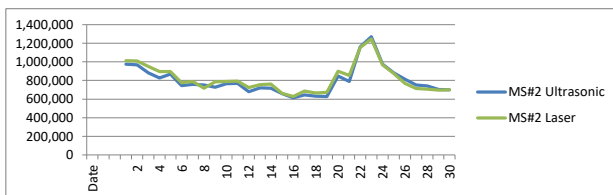
LITTLE CHUTE (June 2020)

		MS#2		
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	974,000		1,013,000	(4.00)
2	968,000		1,010,000	(4.34)
3	882,000		952,000	(7.94)
4	828,000		896,000	(8.21)
5	868,000		895,000	(3.11)
6	745,000		775,000	(4.03)
7	758,000		791,000	(4.35)
8	750,000		716,000	4.53
9	728,000		787,000	(8.10)
10	766,000		788,000	(2.87)
11	769,000		792,000	(2.99)
12	681,000		723,000	(6.17)
13	720,000		756,000	(5.00)
14	718,000		761,000	(5.99)
15	659,000		663,000	(0.61)
16	613,000		627,000	(2.28)
17	646,000		685,000	(6.04)
18	631,000		667,000	(5.71)
19	627,000		674,000	(7.50)
20	847,000		899,000	(6.14)
21	788,000		854,000	(8.38)
22	1,161,000		1,153,000	0.69
23	1,273,000		1,247,000	2.04
24	975,000		967,000	0.82
25	884,000		875,000	1.02
26	812,000		770,000	5.17
27	752,000		715,000	4.92
28	741,000		707,000	4.59
29	704,000		695,000	1.28
30	700,000		699,000	0.14
<b>TOTAL</b>	<b>23,968,000</b>		<b>24,552,000</b>	

		MS#3		
	Ultrasonic		Laser	%
	Gallons		Gallons	Diff
1	1,179,000		2,226,000	(88.80)
2	1,170,000		2,221,000	(89.83)
3	1,246,000		2,347,000	(88.36)
4	1,171,000		2,207,000	(88.47)
5	1,077,000		2,058,000	(91.09)
6	924,000		1,782,000	(92.86)
7	941,000		1,818,000	(93.20)
8	1,010,000		1,814,000	(79.60)
9	979,000		1,993,000	(103.58)
10	1,092,000		2,087,000	(91.12)
11	1,097,000		2,100,000	(91.43)
12	831,000		1,674,000	(101.44)
13	878,000		1,752,000	(99.54)
14	876,000		1,761,000	(101.03)
15	871,000		1,775,000	(103.79)
16	811,000		1,678,000	(106.91)
17	801,000		1,669,000	(108.36)
18	783,000		1,624,000	(107.41)
19	755,000		1,519,000	(101.19)
20	1,020,000		2,027,000	(98.73)
21	949,000		1,926,000	(102.95)
22	1,463,000		2,613,000	(78.61)
23	1,603,000		2,829,000	(76.48)
24	1,215,000		2,393,000	(96.95)
25	1,100,000		2,164,000	(96.73)
26	978,000		2,020,000	(106.54)
27	906,000		1,876,000	(107.06)
28	892,000		1,855,000	(107.96)
29	721,000		1,522,000	(111.10)
30	717,000		1,533,000	(113.81)
<b>TOTAL</b>	<b>30,056,000</b>		<b>58,863,000</b>	

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
798,933	<b>DIFF</b>	818,400	<b>(2.618)</b>
	<b>(19,467)</b>		

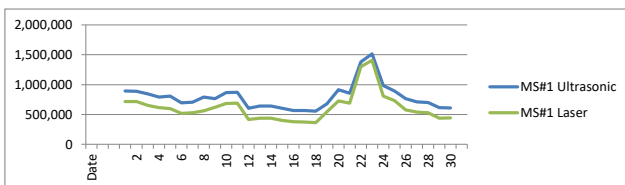
<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
1,001,867	<b>DIFF</b>	1,962,100	<b>(97.498)</b>
	<b>(960,233)</b>		



KIMBERLY

MS#1				
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	893,000		718,000	19.60
2	887,000		717,000	19.17
3	843,000		651,000	22.78
4	792,000		613,000	22.60
5	807,000		599,000	25.77
6	692,000		518,000	25.14
7	705,000		529,000	24.96
8	789,000		562,000	28.77
9	765,000		617,000	19.35
10	867,000		684,000	21.11
11	871,000		688,000	21.01
12	605,000		415,000	31.40
13	640,000		435,000	32.03
14	638,000		437,000	31.50
15	604,000		399,000	33.94
16	563,000		377,000	33.04
17	566,000		370,000	34.63
18	553,000		360,000	34.90
19	679,000		543,000	20.03
20	917,000		725,000	20.94
21	854,000		688,000	19.44
22	1,381,000		1,302,000	5.72
23	1,514,000		1,410,000	6.87
24	984,000		809,000	17.78
25	891,000		732,000	17.85
26	766,000		577,000	24.67
27	710,000		536,000	24.51
28	699,000		530,000	24.18
29	614,000		439,000	28.50
30	611,000		442,000	27.66
<b>TOTAL</b>	<b>23,700,000</b>		<b>18,422,000</b>	

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
790,000	<b>DIFF</b>	614,067	<b>23.99</b>
	<b>175,933</b>		

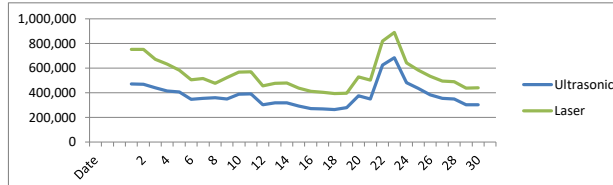


Jun-20

COMBINED LOCKS

MS#4				
	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	471,000		752,000	(59.66)
2	468,000		751,000	(60.47)
3	441,000		670,000	(51.93)
4	414,000		631,000	(52.42)
5	405,000		583,000	(43.95)
6	347,000		504,000	(45.24)
7	353,000		515,000	(45.89)
8	360,000		476,000	(32.22)
9	350,000		524,000	(49.71)
10	388,000		566,000	(45.88)
11	390,000		570,000	(46.15)
12	302,000		455,000	(50.66)
13	319,000		476,000	(49.22)
14	318,000		479,000	(50.63)
15	293,000		436,000	(48.81)
16	272,000		412,000	(51.47)
17	269,000		404,000	(50.19)
18	264,000		394,000	(49.24)
19	278,000		396,000	(42.45)
20	375,000		528,000	(40.80)
21	349,000		502,000	(43.84)
22	623,000		820,000	(31.62)
23	684,000		888,000	(29.82)
24	481,000		643,000	(33.68)
25	435,000		582,000	(33.79)
26	382,000		533,000	(39.53)
27	354,000		495,000	(39.83)
28	349,000		489,000	(40.11)
29	302,000		438,000	(45.03)
30	301,000		441,000	(46.51)
<b>TOTAL</b>	<b>11,337,000</b>		<b>16,353,000</b>	

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
377,900	<b>DIFF</b>	545,100	<b>(45.025)</b>
	<b>(167,200)</b>		



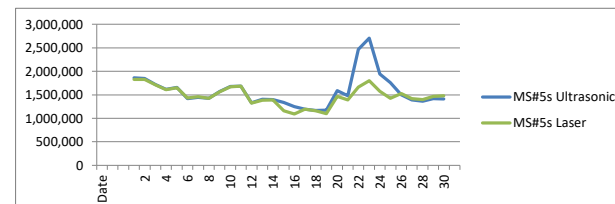
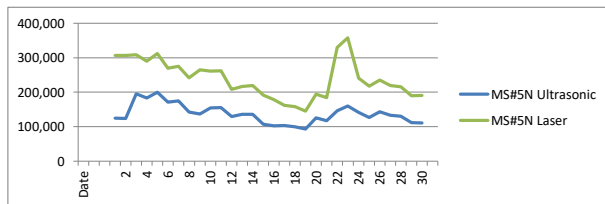
KAUKAUNA (June 2020)

MS#5N				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	125,000		307,000	(145.60)
2	124,000		307,000	(147.58)
3	195,000		309,000	(58.46)
4	183,000		290,000	(58.47)
5	200,000		312,000	(56.00)
6	171,000		270,000	(57.89)
7	175,000		275,000	(57.14)
8	142,000		242,000	(70.42)
9	137,000		265,000	(93.43)
10	154,000		261,000	(69.48)
11	155,000		262,000	(69.03)
12	129,000		208,000	(61.24)
13	136,000		217,000	(59.56)
14	136,000		219,000	(61.03)
15	107,000		192,000	(79.44)
16	102,000		179,000	(75.49)
17	103,000		162,000	(57.28)
18	100,000		158,000	(58.00)
19	93,000		145,000	(55.91)
20	126,000		194,000	(53.97)
21	117,000		184,000	(57.26)
22	146,000		330,000	(126.03)
23	160,000		358,000	(123.75)
24	141,000		241,000	(70.92)
25	127,000		218,000	(71.65)
26	143,000		235,000	(64.34)
27	133,000		219,000	(64.66)
28	130,000		216,000	(66.15)
29	112,000		190,000	(69.64)
30	111,000		191,000	(72.07)
<b>TOTAL</b>	<b>4,113,000</b>		<b>7,156,000</b>	

MS#5s				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	1,858,000		1,827,000	1.67
2	1,845,000		1,824,000	1.14
3	1,720,000		1,709,000	0.64
4	1,616,000		1,608,000	0.50
5	1,654,000		1,652,000	0.12
6	1,418,000		1,431,000	(0.92)
7	1,444,000		1,460,000	(1.11)
8	1,427,000		1,422,000	0.35
9	1,569,000		1,563,000	0.38
10	1,679,000		1,673,000	0.36
11	1,687,000		1,683,000	0.24
12	1,329,000		1,322,000	0.53
13	1,405,000		1,383,000	1.57
14	1,400,000		1,391,000	0.64
15	1,340,000		1,157,000	13.66
16	1,248,000		1,094,000	12.34
17	1,194,000		1,191,000	0.25
18	1,167,000		1,159,000	0.69
19	1,176,000		1,098,000	6.63
20	1,588,000		1,465,000	7.75
21	1,479,000		1,391,000	5.95
22	2,467,000		1,661,000	32.67
23	2,704,000		1,797,000	33.54
24	1,944,000		1,572,000	19.14
25	1,760,000		1,422,000	19.20
26	1,497,000		1,526,000	(1.94)
27	1,388,000		1,416,000	(2.02)
28	1,366,000		1,401,000	(2.56)
29	1,416,000		1,469,000	(3.74)
30	1,409,000		1,479,000	(4.97)
<b>TOTAL</b>	<b>47,194,000</b>		<b>44,246,000</b>	

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
137,100	DIFF	238,533	(74.397)
	<b>(101,433)</b>		

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
1,573,133	DIFF	1,474,867	4.756
	<b>98,267</b>		



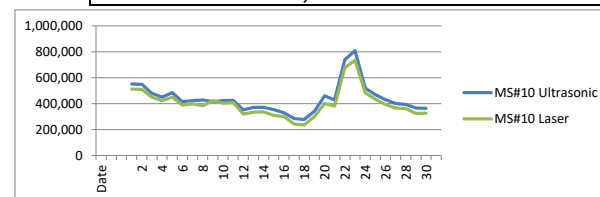
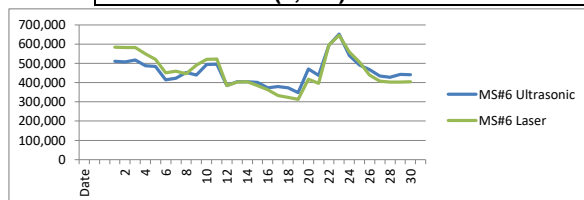
KAUKAUNA (June 2020)

Date	MS#6		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	511,000	584,000	(14.29)
2	508,000	582,000	(14.57)
3	518,000	582,000	(12.36)
4	487,000	548,000	(12.53)
5	484,000	520,000	(7.44)
6	415,000	450,000	(8.43)
7	423,000	459,000	(8.51)
8	453,000	445,000	1.77
9	439,000	490,000	(11.62)
10	494,000	520,000	(5.26)
11	496,000	523,000	(5.44)
12	384,000	384,000	-
13	405,000	402,000	0.74
14	404,000	404,000	-
15	401,000	384,000	4.24
16	373,000	363,000	2.68
17	380,000	333,000	12.37
18	372,000	323,000	13.17
19	348,000	312,000	10.34
20	470,000	417,000	11.28
21	438,000	396,000	9.59
22	594,000	596,000	(0.34)
23	652,000	645,000	1.07
24	541,000	559,000	(3.33)
25	490,000	506,000	(3.27)
26	468,000	439,000	6.20
27	434,000	408,000	5.99
28	427,000	403,000	5.62
29	443,000	402,000	9.26
30	441,000	405,000	8.16
<b>TOTAL</b>	<b>13,693,000</b>	<b>13,784,000</b>	

Date	MS#10		% Diff
	Ultrasonic Gallons	Laser Gallons	
1	552,000	511,000	7.43
2	548,000	509,000	7.12
3	480,000	451,000	6.04
4	451,000	424,000	5.99
5	485,000	449,000	7.42
6	416,000	389,000	6.49
7	423,000	397,000	6.15
8	427,000	384,000	10.07
9	415,000	423,000	(1.93)
10	424,000	404,000	4.72
11	426,000	407,000	4.46
12	351,000	320,000	8.83
13	371,000	334,000	9.97
14	370,000	336,000	9.19
15	354,000	308,000	12.99
16	330,000	300,000	9.09
17	285,000	242,000	15.09
18	278,000	235,000	15.47
19	341,000	300,000	12.02
20	461,000	400,000	13.23
21	429,000	380,000	11.42
22	738,000	678,000	8.13
23	809,000	733,000	9.39
24	519,000	482,000	7.13
25	470,000	436,000	7.23
26	431,000	393,000	8.82
27	400,000	365,000	8.75
28	393,000	361,000	8.14
29	365,000	324,000	11.23
30	363,000	326,000	10.19
<b>TOTAL</b>	<b>13,105,000</b>	<b>12,001,000</b>	

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
456,433	<b>DIFF</b>	459,467	<b>(0.163)</b>
	<b>(3,033)</b>		

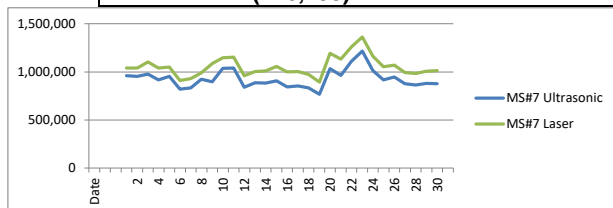
<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
436,833	<b>DIFF</b>	400,033	<b>8.676</b>
	<b>36,800</b>		

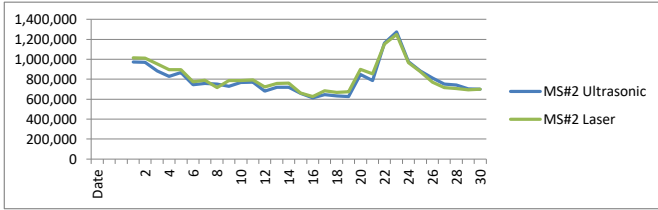


DARBOY (June 2020)

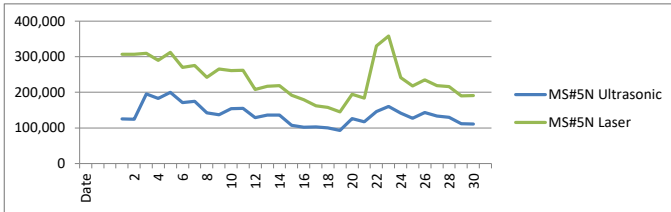
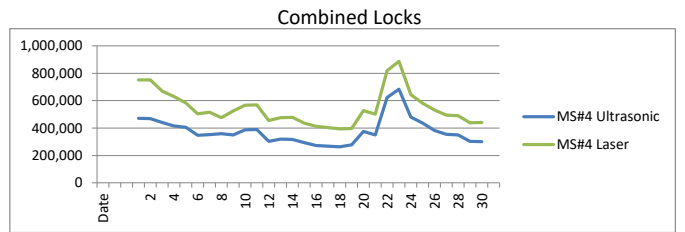
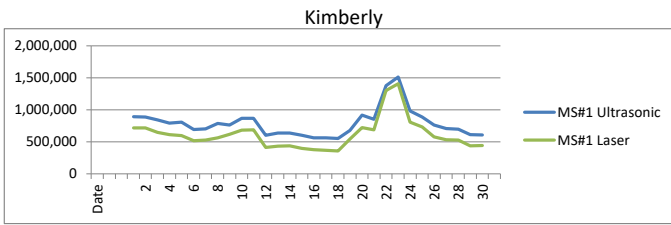
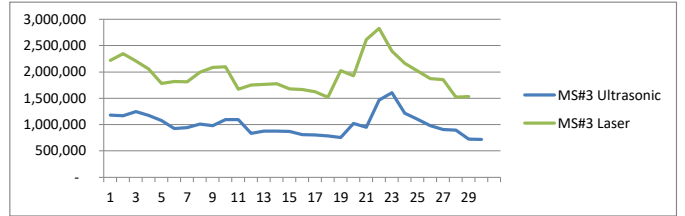
MS#7				
	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	959,000		1,041,000	(8.55)
2	952,000		1,039,000	(9.14)
3	976,000		1,104,000	(13.11)
4	917,000		1,039,000	(13.30)
5	955,000		1,051,000	(10.05)
6	819,000		910,000	(11.11)
7	834,000		929,000	(11.39)
8	924,000		991,000	(7.25)
9	896,000		1,088,000	(21.43)
10	1,036,000		1,148,000	(10.81)
11	1,041,000		1,154,000	(10.85)
12	839,000		961,000	(14.54)
13	886,000		1,005,000	(13.43)
14	883,000		1,011,000	(14.50)
15	906,000		1,057,000	(16.67)
16	844,000		999,000	(18.36)
17	854,000		1,003,000	(14.17)
18	835,000		975,000	(16.77)
19	767,000		893,000	(16.43)
20	1,035,000		1,192,000	(15.17)
21	964,000		1,132,000	(17.43)
22	1,111,000		1,261,000	(13.50)
23	1,217,000		1,364,000	(12.08)
24	1,012,000		1,165,000	(15.12)
25	917,000		1,053,000	(14.83)
26	947,000		1,069,000	(12.88)
27	878,000		993,000	(13.10)
28	864,000		982,000	(13.66)
29	881,000		1,006,000	(14.19)
30	877,000		1,013,000	(15.51)
<b>TOTAL</b>	<b>27,826,000</b>		<b>31,628,000</b>	

<b>Avg</b>	<b>Avg Daily</b>	<b>Avg</b>	
927,533	<b>DIFF</b>	1,054,267	<b>(13.644)</b>
	<b>(126,733)</b>		

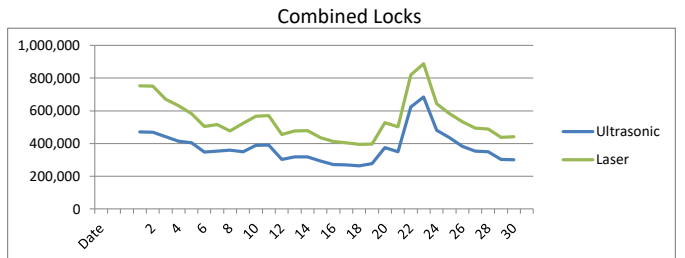
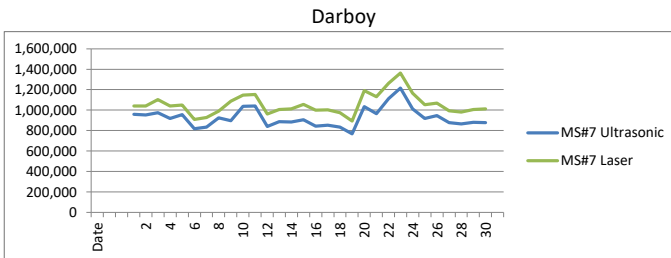
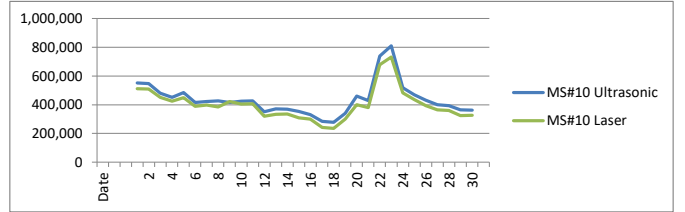
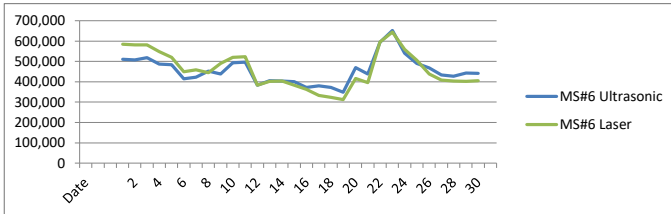
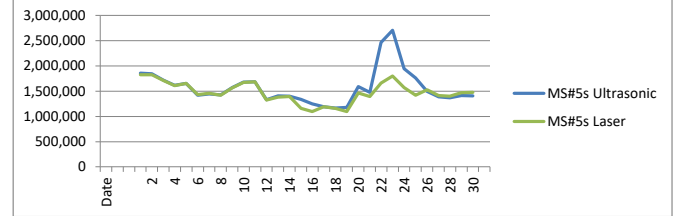




Little Chute



Kaukauna





May Total Flows

<b>Kaukauna</b>		<b>% Diff</b>
Laser	96,426,000	0.05
Ultrasonic	96,379,000	

<b>Darboy</b>		<b>% Diff</b>
Laser	33,361,000	9.11
Ultrasonic	30,321,000	

<b>Combined Locks</b>		<b>% Diff</b>
Laser	21,019,000	31.37
Ultrasonic	14,426,000	

<b>Kimberly</b>		<b>% Diff</b>
Laser	24,246,000	(20.26)
Ultrasonic	29,158,000	

<b>Little Chute</b>		<b>% Diff</b>
Laser	87,885,000	29.53
Ultrasonic	61,935,000	

June Total Flows

<b>Kaukauna</b>		<b>% Diff</b>
Laser	77,187,000	(1.19)
Ultrasonic	78,105,000	

<b>Darboy</b>		<b>% Diff</b>
Laser	31,628,000	12.02
Ultrasonic	27,826,000	

<b>Combined Locks</b>		<b>% Diff</b>
Laser	16,353,000	30.67
Ultrasonic	11,337,000	

<b>Kimberly</b>		<b>% Diff</b>
Laser	18,422,000	(28.65)
Ultrasonic	23,700,000	

<b>Little Chute</b>		<b>% Diff</b>
Laser	83,415,000	35.23
Ultrasonic	54,024,000	