

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

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

MONTH: NOVEMBER

YEAR: 2019

DATE	(LASER) INFLUENT FLOW GALLONS	(LASER) Meter Station FLOW GALLONS	% DIFF
	1	7,546,000	7,442,000
2	7,720,000	7,611,100	1.41
3	7,415,000	7,316,100	1.33
4	7,276,000	7,134,000	1.54
5	6,899,000	6,767,000	1.57
6	6,701,000	6,639,900	0.63
7	6,608,000	6,545,700	0.65
8	6,442,000	6,499,700	(1.49)
9	6,525,000	6,580,500	(0.85)
10	6,730,000	6,787,000	(0.85)
11	6,240,000	6,143,600	0.88
12	6,298,000	6,196,500	1.41
13	5,704,000	6,002,600	(5.44)
14	5,929,000	6,238,800	(5.66)
15	5,825,000	5,848,200	(1.09)
16	5,896,000	5,915,800	(0.34)
17	6,155,000	6,172,100	(0.28)
18	5,550,000	5,743,400	(4.16)
19	5,829,000	6,035,700	(3.88)
20	6,288,000	6,828,000	(8.91)
21	13,023,000	14,139,900	(8.75)
22	10,096,000	10,866,000	(8.12)
23	8,856,000	9,527,000	(7.58)
24	8,283,000	8,914,100	(7.62)
25	7,563,000	8,104,200	(7.66)
26	9,182,000	9,845,200	(7.62)
27	13,782,000	14,867,000	(8.17)
28	10,593,000	11,430,800	(7.91)
29	9,277,000	10,007,300	(8.09)
30	10,360,000	11,176,000	(7.88)

TOTAL: 230,591,000 239,325,200 -4.03

LITTLE CHUTE

	MS#2			
Nov-19	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	797,000		581,000	27.102
2	812,000		595,000	26.724
3	784,000		571,000	27.168
4	769,000		600,000	21.977
5	710,000		569,000	19.859
6	711,000		529,000	25.598
7	689,000		522,000	24.238
8	684,000		562,000	17.836
9	704,000		569,000	19.176
10	714,000		587,000	17.787
11	644,000		527,000	18.168
12	638,000		531,000	16.771
13	616,000		534,000	13.312
14	654,000		556,000	14.985
15	645,000		572,000	11.318
16	659,000		579,000	12.140
17	691,000		604,000	12.590
18	621,000		505,000	18.680
19	654,000		531,000	18.807
20	663,000		644,000	2.866
21	1,576,000		1,333,000	15.419
22	1,167,000		986,000	15.510
23	979,000		865,000	11.645
24	910,000		809,000	11.099
25	898,000		794,000	11.581
26	1,131,000		963,000	14.854
27	1,783,000		1,420,000	20.359
28	1,248,000		1,092,000	12.500
29	1,061,000		956,000	9.896
30	1,204,000		1,068,000	11.296
TOTAL	25,816,000		21,554,000	

	Avg	Avg	
	Daily	DIFF	
	860,533	718,467	16.709
		142,067	

	MS#3			
Nov-19	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	1,066,000		2,302,000	(115.947)
2	1,087,000		2,355,000	(116.651)
3	1,049,000		2,262,000	(115.634)
4	1,040,000		2,235,000	(114.904)
5	960,000		2,119,000	(120.729)
6	888,000		2,037,000	(129.392)
7	862,000		2,009,000	(133.063)
8	859,000		1,968,000	(129.104)
9	884,000		1,993,000	(125.452)
10	896,000		2,056,000	(129.464)
11	830,000		1,934,000	(133.012)
12	822,000		1,951,000	(137.348)
13	749,000		1,900,000	(153.672)
14	796,000		1,975,000	(148.116)
15	711,000		1,739,000	(144.585)
16	726,000		1,760,000	(142.424)
17	761,000		1,837,000	(141.393)
18	795,000		1,821,000	(129.057)
19	839,000		1,913,000	(128.010)
20	856,000		1,685,000	(96.846)
21	2,038,000		3,490,000	(71.246)
22	1,510,000		2,938,000	(94.570)
23	1,267,000		2,577,000	(103.394)
24	1,178,000		2,411,000	(104.669)
25	1,060,000		2,185,000	(106.132)
26	1,335,000		2,665,000	(99.625)
27	2,259,000		3,631,000	(60.735)
28	1,581,000		2,791,000	(76.534)
29	1,344,000		2,444,000	(81.845)
30	1,525,000		2,730,000	(79.016)
TOTAL	32,573,000		67,713,000	

	Avg	Avg	
	Daily	DIFF	
	1,085,767	2,257,100	(115.419)
		(1,171,333)	

KIMBERLY

	MS#1			
Nov-19	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	863,000		802,000	7.07
2	880,000		821,000	6.70
3	849,000		789,000	7.07
4	799,000		717,000	10.26
5	737,000		679,000	7.87
6	730,000		651,000	10.82
7	707,000		642,000	9.19
8	723,000		656,000	9.27
9	743,000		665,000	10.50
10	754,000		685,000	9.15
11	651,000		563,000	13.52
12	644,000		568,000	11.80
13	621,000		547,000	11.92
14	660,000		568,000	13.94
15	616,000		532,000	13.64
16	629,000		539,000	14.31
17	660,000		563,000	14.70
18	603,000		512,000	15.09
19	636,000		537,000	15.57
20	832,000		922,000	(10.82)
21	1,980,000		1,910,000	3.54
22	1,309,000		1,261,000	3.67
23	1,097,000		1,106,000	(0.82)
24	1,021,000		1,035,000	(1.37)
25	971,000		962,000	0.93
26	1,224,000		1,168,000	4.58
27	2,054,000		1,954,000	4.87
28	1,437,000		1,502,000	(4.52)
29	1,221,000		1,316,000	(7.78)
30	1,386,000		1,469,000	(5.99)
TOTAL	28,037,000		26,641,000	

	Avg	Avg		
	Daily	DIFF		
	934,567	46,533	888,033	6.62

COMBINED LOCKS

	MS#4			
Nov-19	Ultrasonic		Laser	%
Date	Gallons		Gallons	Diff
1	426,000		410,000	3.756
2	434,000		420,000	3.226
3	419,000		410,000	2.148
4	400,000		391,000	2.250
5	369,000		371,000	(0.542)
6	361,000		355,000	1.662
7	350,000		351,000	(0.286)
8	348,000		335,000	3.736
9	358,000		339,000	5.307
10	363,000		350,000	3.581
11	320,000		311,000	2.813
12	317,000		313,000	1.262
13	291,000		297,000	(2.062)
14	309,000		309,000	-
15	293,000		305,000	(4.096)
16	299,000		309,000	(3.344)
17	313,000		322,000	(2.875)
18	277,000		291,000	(5.054)
19	293,000		306,000	(4.437)
20	364,000		392,000	(7.692)
21	866,000		812,000	6.236
22	659,000		602,000	8.649
23	552,000		528,000	4.348
24	514,000		494,000	3.891
25	439,000		436,000	0.683
26	554,000		529,000	4.513
27	992,000		873,000	11.996
28	694,000		671,000	3.314
29	590,000		587,000	0.508
30	670,000		656,000	2.090
TOTAL	13,434,000		13,075,000	

	Avg	Avg		
	Daily	DIFF		
	447,800	11,967	435,833	1.519

KAUKAUNA

	MS#5N			
Nov-19	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	148,000		416,000	(181.081)
2	150,000		426,000	(184.000)
3	145,000		409,000	(182.069)
4	130,000		377,000	(190.000)
5	119,000		357,000	(200.000)
6	139,000		382,000	(174.820)
7	134,000		377,000	(181.343)
8	130,000		367,000	(182.308)
9	134,000		372,000	(177.612)
10	136,000		384,000	(182.353)
11	105,000		308,000	(193.333)
12	104,000		310,000	(198.077)
13	119,000		367,000	(208.403)
14	127,000		381,000	(200.000)
15	108,000		342,000	(216.667)
16	110,000		347,000	(215.455)
17	115,000		362,000	(214.783)
18	92,000		299,000	(225.000)
19	98,000		314,000	(220.408)
20	99,000		332,000	(235.354)
21	234,000		688,000	(194.017)
22	165,000		559,000	(238.788)
23	139,000		490,000	(252.518)
24	129,000		459,000	(255.814)
25	134,000		420,000	(213.433)
26	168,000		509,000	(202.976)
27	267,000		764,000	(186.142)
28	187,000		587,000	(213.904)
29	159,000		514,000	(223.270)
30	180,000		574,000	(218.889)
TOTAL	4,204,000		12,793,000	

	Avg	Avg	
	Daily	DIFF	
	140,133	426,433	(205.427)
		(286,300)	

	MS#5s			
Nov-19	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	1,746,000		1,519,000	13.001
2	1,780,000		1,554,000	12.697
3	1,717,000		1,492,000	13.104
4	1,738,000		1,470,000	15.420
5	1,604,000		1,394,000	13.092
6	1,550,000		1,307,000	15.677
7	1,504,000		1,288,000	14.362
8	1,429,000		1,216,000	14.906
9	1,470,000		1,232,000	16.190
10	1,490,000		1,270,000	14.765
11	1,372,000		1,125,000	18.003
12	1,359,000		1,135,000	16.483
13	1,288,000		1,067,000	17.158
14	1,369,000		1,110,000	18.919
15	1,239,000		1,039,000	16.142
16	1,265,000		1,051,000	16.917
17	1,327,000		1,097,000	17.332
18	1,225,000		1,005,000	17.959
19	1,291,000		1,056,000	18.203
20	1,511,000		1,423,000	5.824
21	3,594,000		2,948,000	17.974
22	2,560,000		2,113,000	17.461
23	2,147,000		1,853,000	13.694
24	1,997,000		1,733,000	13.220
25	1,793,000		1,534,000	14.445
26	2,258,000		1,862,000	17.538
27	3,816,000		2,990,000	21.646
28	2,670,000		2,298,000	13.933
29	2,270,000		2,012,000	11.366
30	2,576,000		2,247,000	12.772
TOTAL	54,955,000		46,440,000	

	Avg	Avg	
	Daily	DIFF	
	1,831,833	1,548,000	15.340
		283,833	

KAUKAUNA

	MS#6			
Nov-19	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	455,000		151,000	66.813
2	463,000		154,000	66.739
3	447,000		148,000	66.890
4	467,000		146,000	68.737
5	430,000		139,000	67.674
6	427,000		294,000	31.148
7	414,000		290,000	29.952
8	390,000		262,000	32.821
9	401,000		266,000	33.666
10	407,000		274,000	32.678
11	389,000		258,000	33.676
12	386,000		261,000	32.383
13	358,000		234,000	34.637
14	381,000		243,000	36.220
15	331,000		193,000	41.692
16	338,000		195,000	42.308
17	354,000		203,000	42.655
18	372,000		234,000	37.097
19	392,000		246,000	37.245
20	335,000		331,000	1.194
21	796,000		685,000	13.945
22	600,000		618,000	(3.000)
23	503,000		542,000	(7.753)
24	468,000		507,000	(8.333)
25	452,000		436,000	3.540
26	570,000		529,000	7.193
27	847,000		785,000	7.320
28	593,000		603,000	(1.686)
29	504,000		528,000	(4.762)
30	572,000		590,000	(3.147)
TOTAL	13,842,000		10,345,000	

	Avg	Avg	
	Daily	Daily	
	DIFF	DIFF	
	116,567	344,833	27.985

	MS#10			
Nov-19	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	458,000		384,000	16.157
2	467,000		392,000	16.060
3	450,000		377,000	16.222
4	439,000		361,000	17.768
5	405,000		342,000	15.556
6	370,000		300,000	18.919
7	359,000		295,000	17.827
8	397,000		280,000	29.471
9	408,000		283,000	30.637
10	414,000		292,000	29.469
11	348,000		281,000	19.253
12	344,000		283,000	17.733
13	295,000		279,000	5.424
14	313,000		289,000	7.668
15	310,000		275,000	11.290
16	316,000		278,000	12.025
17	331,000		291,000	12.085
18	311,000		276,000	11.254
19	328,000		290,000	11.585
20	418,000		373,000	10.766
21	994,000		773,000	22.233
22	709,000		614,000	13.399
23	595,000		538,000	9.580
24	553,000		503,000	9.042
25	524,000		447,000	14.695
26	661,000		542,000	18.003
27	1,111,000		931,000	16.202
28	777,000		716,000	7.851
29	661,000		627,000	5.144
30	750,000		700,000	6.667
TOTAL	14,816,000		12,612,000	

	Avg	Avg	
	Daily	Daily	
	DIFF	DIFF	
	493,867	73,467	14.999

DARBOY

	MS#7			
Nov-19	Ultrasonic		Laser	
Date	Gallons		Gallons	%
				Diff
1	965,000		860,000	10.881
2	984,000		880,000	10.569
3	949,000		845,000	10.959
4	912,000		819,000	10.197
5	841,000		777,000	7.610
6	853,000		765,000	10.317
7	827,000		754,000	8.827
8	880,000		840,000	4.545
9	905,000		850,000	6.077
10	918,000		877,000	4.466
11	841,000		820,000	2.497
12	832,000		828,000	0.481
13	789,000		761,000	3.549
14	838,000		791,000	5.609
15	866,000		833,000	3.811
16	885,000		843,000	4.746
17	928,000		880,000	15.517
18	818,000		784,000	4.156
19	862,000		824,000	4.408
20	650,000		709,000	(9.077)
21	1,546,000		1,469,000	4.981
22	1,204,000		1,151,000	4.402
23	1,009,000		1,010,000	(0.099)
24	939,000		945,000	(0.639)
25	873,000		871,000	0.229
26	1,100,000		1,058,000	3.818
27	1,610,000		1,489,000	7.516
28	1,127,000		1,145,000	(1.597)
29	958,000		1,003,000	(4.697)
30	1,087,000		1,120,000	(3.036)
TOTAL	28,796,000		27,601,000	

	Avg	Avg	
	Daily	DIFF	
	959,867	920,033	4.367
		39,833	