

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: JULY 2016

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 147,968,000 GALLONS
 AVERAGE B.O.D. : 206 mg/L
 AVERAGE SUSPENDED SOLIDS : 223 mg/L
 AVERAGE PHOSPHORUS : 5.71 mg/L
 AVERAGE AMMONIA-N : 36.66 mg/L
 AVERAGE CHLORIDES : 592.86 mg/L

MAXIMUM DAILY FLOW TO PLANT:
6,140,000 GALLONS

PERCENT (%) BY COMMUNITY OF TOTAL MONTHLY VOLUME TREATED AT WWTP

<u>COMMUNITY</u>	<u>FLOW</u>	<u>BOD</u>	<u>TSS</u>	<u>PHOSPHORUS</u>	<u>AMMONIA</u>	<u>CHLORIDES</u>
KAUKAUNA	35.19	23.42	23.93	26.91	30.36	28.58
LITTLE CHUTE	25.71	30.74	32.79	27.93	33.60	31.61
KIMBERLY	14.73	16.02	15.66	14.62	11.16	18.32
COMBINED LOCKS	6.02	6.82	5.14	6.54	6.18	1.74
DARBOY	18.35	23.00	22.48	24.00	18.70	19.75

AVERAGE DAILY INFLUENT LOADINGS

FLOW :	4,773,161 GALLONS	%	40.1
B.O.D. :	8,200 POUNDS	%	56.0
SUSPENDED SOLIDS :	8,881 POUNDS	%	54.6
PHOSPHORUS :	227 POUNDS	%	55.8
AMMONIA-N :	1,460 POUNDS	%	76.0
CHLORIDES :	23,601 POUNDS		

PLANT DESIGN CRITERIA

11,900,000 GALLONS/DAY
 14,651 POUNDS/DAY
 16,278 POUNDS/DAY
 407 POUNDS/DAY
 1,920 POUNDS/DAY

FINAL EFFLUENT

	<u>MONTHLY AVERAGE</u>	%	<u>PERMIT LIMIT</u>
cB.O.D. :	6.72 mg/L	26.9	25 mg/L
SUSPENDED SOLIDS :	17.79 mg/L	59.3	30 mg/L
PHOSPHORUS :	0.38 mg/L	38.2	1 mg/L
AMMONIA-N :	0.30 mg/L		
CHLORIDES :	622.14 mg/L		

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: JULY

YEAR: 2016

<u>DATE</u>	<u>PLANT INCHES</u>	<u>KAUKAUNA INCHES</u>	<u>LITTLE CHUTE INCHES</u>	<u>KIMBERLY INCHES</u>	<u>DARBOY INCHES</u>
1	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.07	0.07	0.07	0.07	0.09
7	0.15	0.15	0.14	0.13	0.16
8	0.02	0.01	0.03	0.06	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.02	0.01	0.00	0.02	0.03
11	0.03	0.04	0.02	0.01	0.00
12	0.00	0.00	0.04	0.08	0.01
13	0.00	0.00	0.00	0.00	0.00
14	0.17	0.27	0.00	0.31	0.13
15	0.24	0.24	0.46	0.28	0.24
16	0.00	0.00	0.00	0.00	0.00
17	0.50	0.41	0.35	0.37	0.48
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.39	0.42	0.42	0.52	0.54
22	0.00	0.00	0.00	0.00	0.00
23	0.20	0.25	0.00	0.22	0.26
24	0.39	0.23	0.60	0.15	0.28
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.14	0.11	0.07	0.25	0.04
28	0.04	0.01	0.13	0.05	0.00
29	0.00	0.00	0.03	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
TOTAL:	2.36	2.22	2.36	2.52	2.26