

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: JUNE 2016

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 178,887,000 GALLONS
AVERAGE B.O.D. : 222 mg/L
AVERAGE SUSPENDED SOLIDS : 205 mg/L
AVERAGE PHOSPHORUS : 5.46 mg/L
AVERAGE AMMONIA-N : 29.26 mg/L
AVERAGE CHLORIDES : 549.09 mg/L

MAXIMUM DAILY FLOW TO PLANT:
11,213,000 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	36.58	25.43	26.67	29.59	29.99	32.96
LITTLE CHUTE	26.77	33.95	35.99	29.78	32.90	32.20
KIMBERLY	15.50	15.28	14.25	13.01	11.42	16.00
COMBINED LOCKS	5.87	5.92	5.05	6.77	6.27	1.86
DARBOY	15.29	19.41	18.04	20.85	19.43	16.97

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 5,962,900 GALLONS
B.O.D. : 11,057 POUNDS
SUSPENDED SOLIDS : 10,211 POUNDS
PHOSPHORUS : 271 POUNDS
AMMONIA-N : 1,455 POUNDS
CHLORIDES : 27,307 POUNDS

<u>%</u>
50.1
75.5
62.7
66.7
75.8

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

**MONTHLY
AVERAGE**

cB.O.D. : 5.33 mg/L
SUSPENDED SOLIDS : 13.47 mg/L
PHOSPHORUS : 0.35 mg/L
AMMONIA-N : 0.83 mg/L
CHLORIDES : 516.15 mg/L

<u>%</u>
21.3
44.9
35.3

PERMIT LIMIT

25 mg/L
30 mg/L
1 mg/L

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: JUNE

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	0.59	0.44	0.47	0.43	0.44
2	0.00	0.00	0.00	0.00	0.00
3	0.05	0.09	0.16	0.01	0.18
4	0.04	0.07	0.16	0.25	0.12
5	0.12	0.17	0.19	0.30	0.01
6	0.01	0.27	0.40	0.13	0.10
7	0.01	0.01	0.02	0.02	0.02
8	0.00	0.00	0.00	0.01	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.44	0.42	0.51	0.36	0.28
11	0.00	0.00	0.00	0.00	0.00
12	0.01	0.03	0.02	0.06	0.08
13	0.36	0.31	0.31	0.27	0.24
14	0.07	0.03	0.04	0.04	0.03
15	1.35	1.27	1.63	1.46	1.45
16	0.00	0.00	0.00	0.01	0.01
17	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.04	0.09	0.09	0.07	0.02
24	0.00	0.00	0.00	0.00	0.00
25	0.03	0.02	0.00	0.00	0.05
26	1.35	1.35	1.57	1.58	1.55
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.72	0.89	0.57	0.77	1.04
TOTAL:	5.19	5.46	6.14	5.77	5.62