

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: JULY 2019

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 172,916,000 GALLONS
 AVERAGE B.O.D. : 203 mg/L
 AVERAGE SUSPENDED SOLIDS : 190 mg/L
 AVERAGE PHOSPHORUS : 4.40 mg/L
 AVERAGE AMMONIA-N : 33.44 mg/L
 AVERAGE CHLORIDES : 655.38 mg/L

MAXIMUM DAILY FLOW TO PLANT:
10,129,000

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	39.29	26.86	29.92	29.30	26.49	27.85
LITTLE CHUTE	25.49	30.36	25.46	26.91	39.75	27.58
KIMBERLY	12.76	11.27	11.59	11.53	9.04	23.53
COMBINED LOCKS	5.85	6.44	5.84	6.41	5.10	2.55
DARBOY	16.61	25.06	27.19	25.86	19.62	18.49

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 5,577,935 GALLONS
 B.O.D. : 9,183 POUNDS
 SUSPENDED SOLIDS : 8,799 POUNDS
 PHOSPHORUS : 200.07 POUNDS
 AMMONIA-N : 1,489 POUNDS
 CHLORIDES : 29,534 POUNDS

PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>	<u>AVG</u>	<u>%</u>
46.9	11,900,000	8,500,000	65.62
62.7	14,651	12,209	75.22
54.1	16,278	13,565	64.87
49.2	407	339	59.02
77.6	1,920	1,600	93.06

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 2,455,032			
SUSPENDED SOLIDS : 11.30 mg/L	37.7	30	mg/L
SUSPENDED SOLIDS : 208.58 lbs	26.0	801	lbs
B.O.D. : 7.05 mg/L	23.5	30	mg/L
PHOSPHORUS : 0.28 mg/L	28.3	1	mg/L
AMMONIA-N : 0.26 mg/L	6.0	4.4	mg/L
CHLORIDES : 657.69 mg/L			

FOX ENERGY CENTER PUMPED: 96,810,000 GALLONS

Effluent to Fox Energy
56%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: JULY

YEAR: 2019

<u>DATE</u>	<u>PLANT</u> <u>INCHES</u>	<u>KAUKAUNA</u> <u>INCHES</u>	<u>LITTLE CHUTE</u> <u>INCHES</u>	<u>KIMBERLY</u> <u>INCHES</u>	<u>DARBOY</u> <u>INCHES</u>
1	0.00	0.00	0.00	0.00	0.00
2	0.44	0.02	0.02	0.74	0.66
3	0.00	0.47	0.54	0.00	0.00
4	0.02	0.00	0.00	0.04	0.06
5	0.01	0.02	0.04	0.01	0.01
6	0.01	0.03	0.01	0.01	0.03
7	0.00	0.00	0.01	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.01	0.00	0.00
11	0.00	0.00	0.01	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.05	0.00
17	0.00	0.00	0.10	0.00	0.01
18	0.01	0.00	0.09	0.11	0.15
19	0.00	0.40	0.94	1.24	1.23
20	0.00	1.08	0.29	0.41	0.41
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.01	0.00	0.01	0.06
27	0.00	0.00	0.00	0.00	0.00
28	0.01	0.16	0.06	0.11	0.46
29	0.00	0.01	0.10	0.11	0.12
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
TOTAL:	0.50	2.21	2.22	2.84	3.20