

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: JULY 2018

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 132,642,000 GALLONS
 AVERAGE B.O.D. : 246 mg/L
 AVERAGE SUSPENDED SOLIDS : 239 mg/L
 AVERAGE PHOSPHORUS : 5.32 mg/L
 AVERAGE AMMONIA-N : 37.43 mg/L
 AVERAGE CHLORIDES : 673.08 mg/L

MAXIMUM DAILY FLOW TO PLANT:
5,301,000

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	35.70	26.11	30.76	29.21	28.71	29.57
LITTLE CHUTE	27.67	31.51	25.97	26.19	35.78	34.52
KIMBERLY	12.37	12.26	13.75	12.33	8.91	13.94
COMBINED LOCKS	4.68	5.33	5.48	5.78	5.33	1.12
DARBOY	19.59	24.79	24.04	26.50	21.28	20.85

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>PLANT DESIGN CRITERIA</u>					
	<u>%</u>	<u>MAX</u>	<u>AVG</u>	<u>%</u>		
FLOW : 4,280,600 GALLONS	36.0	11,900,000	8,500,000	50.36	GALLONS/DAY	
B.O.D. : 8,788 POUNDS	60.0	14,651	12,209	71.98	POUNDS/DAY	
SUSPENDED SOLIDS : 8,522 POUNDS	52.4	16,278	13,565	62.82	POUNDS/DAY	
PHOSPHORUS : 190 POUNDS	46.6	407	339	55.98	POUNDS/DAY	
AMMONIA-N : 1,336 POUNDS	69.6	1,920	1,600	83.48	POUNDS/DAY	
CHLORIDES : 24,019 POUNDS						

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 940,968			
SUSPENDED SOLIDS : 17.79 mg/L	59.3	30	mg/L
SUSPENDED SOLIDS : 151.17 lbs	18.9	801	lbs
c.B.O.D. : 5.40 mg/L	21.6	25	mg/L
PHOSPHORUS : 0.44 mg/L	43.7	1	mg/L
AMMONIA-N : 0.30 mg/L	6.8	4.4	mg/L
CHLORIDES : 660.71 mg/L			

FOX ENERGY CENTER PUMPED: 103,472,000 GALLONS

Effluent to Fox Energy
78%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: JULY

YEAR: 2018

<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	0.03	0.04	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	0.05	0.00	0.05	0.01	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.10
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.18	0.18	0.28	0.20	0.18
13	0.09	0.12	0.11	0.12	0.21
14	0.00	0.00	0.00	0.01	0.00
15	0.00	0.00	0.02	0.02	0.00
16	0.00	0.00	0.00	0.01	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.26	0.07	0.04	0.01	0.04
20	0.22	0.40	0.34	0.55	0.23
21	0.13	0.21	0.10	0.14	0.28
22	0.01	0.00	0.01	0.00	0.01
23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	1.02	1.04	1.11	1.16	1.54
26	0.00	0.01	0.00	0.01	0.01
27	0.00	0.00	0.00	0.00	0.00
28	0.12	0.00	0.00	0.00	0.00
29	0.09	0.00	0.50	0.30	0.01
30	0.17	0.05	0.00	0.00	0.01
31	0.00	0.00	0.00	0.00	0.00
TOTAL:	2.34	2.08	2.59	2.58	2.62