

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: April 2020

HYDRAULIC AND ORGANIC LOADINGS DATA

<u>INFLUENT*</u>	
TOTAL FLOW TO PLANT:	192,150,000 GALLONS
AVERAGE B.O.D. :	203 mg/L
AVERAGE SUSPENDED SOLIDS :	179 mg/L
AVERAGE PHOSPHORUS :	4.24 mg/L
AVERAGE AMMONIA-N :	31.20 mg/L
AVERAGE CHLORIDES :	576.92 mg/L

MAXIMUM DAILY FLOW TO PLANT:
8,699,000

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	40.47	27.28	29.52	28.91	26.33	30.20
LITTLE CHUTE	27.52	36.40	29.85	28.83	43.15	30.52
KIMBERLY	11.85	10.05	10.82	11.90	7.49	18.96
COMBINED LOCKS	6.07	5.07	5.11	6.48	5.40	2.12
DARBOY	14.09	21.21	24.70	23.89	17.63	18.20

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>PLANT DESIGN CRITERIA</u>					
	<u>%</u>	<u>MAX</u>		<u>AVG</u>	<u>%</u>	
FLOW :	53.8	11,900,000	GALLONS/DAY	8,500,000	75.35	
B.O.D. :	73.3	14,651	POUNDS/DAY	12,209	87.93	
SUSPENDED SOLIDS :	57.8	16,278	POUNDS/DAY	13,565	69.40	
PHOSPHORUS :	54.9	407	POUNDS/DAY	339	65.93	
AMMONIA-N :	83.0	1,920	POUNDS/DAY	1,600	99.64	
CHLORIDES :						

<u>FINAL EFFLUENT</u>	<u>MONTHLY AVERAGE</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
	<u>%</u>		
FLOW:	3,508,467		
SUSPENDED SOLIDS :	7.44	24.8	mg/L
SUSPENDED SOLIDS :	218.64	27.3	lbs
B.O.D. :	7.39	29.5	mg/L
PHOSPHORUS :	0.26	25.6	mg/L
AMMONIA-N :	0.83	7.6	mg/L
CHLORIDES :	568.46		mg/L

FOX ENERGY CENTER PUMPED: 86,896,000 GALLONS

Effluent to Fox Energy
45%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: APRIL

YEAR: 2020

<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	0.00	0.00	0.00	0.00	0.00
3	0.02	0.02	0.01	0.00	0.00
4	0.03	0.03	0.02	0.03	0.04
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.01	0.01	0.01	0.01	0.01
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.01	0.01
10	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00
12	0.43	0.52	0.52	0.66	0.66
13	0.00	0.03	0.01	0.02	0.02
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	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.05	0.05	0.05	0.05	0.05
19	0.01	0.01	0.01	0.00	0.01
20	0.06	0.09	0.06	0.10	0.07
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.01	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	0.00	0.00	0.00	0.00
27	0.26	0.22	0.23	0.21	0.20
28	0.06	0.05	0.07	0.08	0.05
29	0.13	0.17	0.11	0.12	0.22
30	0.01	0.01	0.00	0.00	0.00
TOTAL:	1.07	1.22	1.11	1.29	1.34