

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: September 2020

HYDRAULIC AND ORGANIC LOADINGS DATA

<u>INFLUENT*</u>	
TOTAL FLOW TO PLANT:	141,266,000 GALLONS
AVERAGE B.O.D. :	285 mg/L
AVERAGE SUSPENDED SOLIDS :	235 mg/L
AVERAGE PHOSPHORUS :	5.84 mg/L
AVERAGE AMMONIA-N :	43.44 mg/L
AVERAGE CHLORIDES :	712.86 mg/L

MAXIMUM DAILY FLOW TO PLANT:
6,816,000

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	37.49	23.86	37.93	28.92	25.96	30.73
LITTLE CHUTE	27.37	32.99	38.07	27.64	44.82	34.57
KIMBERLY	11.90	10.64	14.48	11.56	7.81	19.81
COMBINED LOCKS	5.35	6.42	9.52	7.05	4.79	1.84
DARBOY	17.89	26.09	26.77	24.83	16.61	13.05

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>PLANT DESIGN CRITERIA</u>					
	<u>%</u>	<u>MAX</u>		<u>AVG</u>	<u>%</u>	
FLOW :	39.6	11,900,000	GALLONS/DAY	8,500,000	55.40	
B.O.D. :	75.8	14,651	POUNDS/DAY	12,209	90.93	
SUSPENDED SOLIDS :	56.4	16,278	POUNDS/DAY	13,565	67.70	
PHOSPHORUS :	55.9	407	POUNDS/DAY	339	67.11	
AMMONIA-N :	87.5	1,920	POUNDS/DAY	1,600	104.96	
CHLORIDES :						

<u>FINAL EFFLUENT</u>	<u>MONTHLY AVERAGE</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
	<u>%</u>	<u>LIMIT</u>	
FLOW:	2,695,867		
SUSPENDED SOLIDS :	12.09	40.3	mg/L
SUSPENDED SOLIDS :	297.30	37.1	lbs
B.O.D. :	9.72	38.9	mg/L
PHOSPHORUS :	0.34	34.0	mg/L
AMMONIA-N :	0.58	13.1	mg/L
CHLORIDES :	687.14		mg/L

FOX ENERGY CENTER PUMPED: 60,390,000 GALLONS

Effluent to Fox Energy
43%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: SEPTEMBER

YEAR: 2020

<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		0.03	0.01	0.07	0.02
2		0.08	0.06	0.08	0.05
3		0.00	0.00	0.00	0.00
4		0.00	0.00	0.00	0.00
5		0.00	0.00	0.00	0.00
6		0.00	0.00	0.00	0.00
7		0.01	0.01	0.01	0.00
8		0.31	0.35	0.42	0.40
9		0.23	0.29	0.30	0.28
10		0.01	0.00	0.00	0.00
11		0.03	0.03	0.02	0.03
12		0.69	0.67	0.60	0.70
13		0.00	0.00	0.00	0.00
14		0.00	0.00	0.00	0.00
15		0.00	0.00	0.00	0.00
16		0.00	0.00	0.00	0.00
17		0.00	0.00	0.00	0.00
18		0.00	0.00	0.00	0.00
19		0.00	0.00	0.00	0.00
20		0.00	0.00	0.00	0.00
21		0.00	0.00	0.01	0.00
22		0.00	0.00	0.00	0.00
23		0.00	0.00	0.00	0.00
24		0.20	0.49	0.53	0.20
25		0.01	0.00	0.00	0.00
26		0.04	0.05	0.04	0.02
27		0.05	0.04	0.04	0.04
28		0.16	0.12	0.05	0.09
29		0.00	0.01	0.00	0.01
30		0.03	0.00	0.01	0.00
TOTAL:	0.00	1.88	2.13	2.18	1.84