

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: SEPTEMBER 2019

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 231,033,000 GALLONS
AVERAGE B.O.D. : 169 mg/L
AVERAGE SUSPENDED SOLIDS : 151 mg/L
AVERAGE PHOSPHORUS : 3.80 mg/L
AVERAGE AMMONIA-N : 21.80 mg/L
AVERAGE CHLORIDES : 494.62 mg/L

MAXIMUM DAILY FLOW TO PLANT:
21,155,000

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	42.73	27.05	32.04	29.59	25.84	29.90
LITTLE CHUTE	26.09	36.46	28.77	28.75	43.46	34.23
KIMBERLY	13.09	9.52	10.70	10.86	9.04	19.14
COMBINED LOCKS	5.86	6.53	7.06	7.34	5.72	3.14
DARBOY	12.22	20.45	21.43	23.47	15.93	13.60

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 7,701,100 GALLONS
B.O.D. : 9,583 POUNDS
SUSPENDED SOLIDS : 8,896.48 POUNDS
PHOSPHORUS : 218.37 POUNDS
AMMONIA-N : 1,312 POUNDS
CHLORIDES : 28,812 POUNDS

PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>		<u>AVG</u>	<u>%</u>
64.7	11,900,000	GALLONS/DAY	8,500,000	90.60
65.4	14,651	POUNDS/DAY	12,209	78.49
54.7	16,278	POUNDS/DAY	13,565	65.58
53.7	407	POUNDS/DAY	339	64.41
68.3	1,920	POUNDS/DAY	1,600	81.98

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 4,939,767			
SUSPENDED SOLIDS : 20.48 mg/L	68.3	30	mg/L
SUSPENDED SOLIDS : 790.51 lbs	98.7	801	lbs
cB.O.D. : 8.08 mg/L	32.3	25	mg/L
PHOSPHORUS : 0.39 mg/L	39.1	1	mg/L
AMMONIA-N : 0.27 mg/L	6.1	4.4	mg/L
CHLORIDES : 563.57 mg/L			

FOX ENERGY CENTER PUMPED: 82,840,000 GALLONS

Effluent to Fox Energy
36%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: SEPTEMBER

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	0.01	Plugged	0.05	0.03	0.00
2	0.01	Plugged	0.00	0.00	0.00
3	0.53	Plugged	0.55	0.53	0.47
4	0.00	Plugged	0.00	0.00	0.00
5	0.09	Plugged	0.08	0.04	0.06
6	0.01	Plugged	0.00	0.00	0.01
7	0.00	Plugged	0.00	0.00	0.00
8	0.00	Plugged	0.01	0.01	0.02
9	0.42	Plugged	0.35	0.31	0.48
10	1.44	Plugged	1.50	1.22	1.19
11	2.21	Plugged	1.48	1.55	2.11
12	0.73	Plugged	0.82	0.97	0.84
13	0.09	Plugged	0.05	0.04	0.03
14	0.00	Plugged	0.00	0.00	0.00
15	0.03	Plugged	0.01	0.00	0.00
16	0.00	Plugged	0.00	0.00	0.00
17	0.01	0.00	0.01	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00
19	0.99	0.69	0.99	0.46	0.60
20	0.01	0.01	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.69	0.68	0.69	0.65	0.68
23	0.02	0.02	0.02	0.01	0.01
24	0.00	0.00	0.00	0.00	0.00
25	0.25	0.21	0.25	0.19	0.21
26	0.00	0.00	0.00	0.00	0.00
27	0.31	0.32	0.31	0.24	0.52
28	0.01	0.00	0.01	0.01	0.00
29	0.15	0.15	0.15	0.13	0.16
30	0.00	0.00	0.00	0.01	0.00
TOTAL:	8.01	2.09	7.34	6.40	7.39