

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: SEPTEMBER 2018

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 212,799,000 GALLONS
AVERAGE B.O.D. : 237 mg/L
AVERAGE SUSPENDED SOLIDS : 172 mg/L
AVERAGE PHOSPHORUS : 4.08 mg/L
AVERAGE AMMONIA-N : 27.90 mg/L
AVERAGE CHLORIDES : 427.14 mg/L

MAXIMUM DAILY FLOW TO PLANT:
21,826,000

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	41.57	20.57	30.62	31.35	25.50	35.46
LITTLE CHUTE	26.15	52.89	31.71	29.65	44.62	30.54
KIMBERLY	13.56	9.02	12.90	11.10	8.37	14.65
COMBINED LOCKS	5.91	3.97	5.55	6.32	5.44	1.95
DARBOY	13.23	13.98	19.79	22.19	16.55	18.04

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
FLOW : 7,093,300 GALLONS	59.6	11,900,000	GALLONS/DAY	8,500,000	83.45
B.O.D. : 12,763 POUNDS	87.1	14,651	POUNDS/DAY	12,209	104.54
SUSPENDED SOLIDS : 9,378 POUNDS	57.6	16,278	POUNDS/DAY	13,565	69.14
PHOSPHORUS : 225 POUNDS	55.2	407	POUNDS/DAY	339	66.29
AMMONIA-N : 1,650 POUNDS	86.0	1,920	POUNDS/DAY	1,600	103.15
CHLORIDES : 25,269 POUNDS					

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 3,263,900			
SUSPENDED SOLIDS : 20.89 mg/L	69.6	30	mg/L
SUSPENDED SOLIDS : 560.83 lbs	70.0	801	lbs
cB.O.D. : 6.42 mg/L	25.7	25	mg/L
PHOSPHORUS : 0.26 mg/L	26.1	1	mg/L
AMMONIA-N : 1.30 mg/L	29.5	4.4	mg/L
CHLORIDES : 417.14 mg/L			

FOX ENERGY CENTER PUMPED: 80,279,000 GALLONS

Effluent to Fox Energy
38%

* INCLUDES HAULED WASTE

RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: SEPTEMBER

YEAR: 2018

<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	0.00	0.00	0.00	0.00	0.00
2	0.07	0.07	0.06	0.06	0.07
3	0.41	0.33	0.40	0.70	0.49
4	2.44	1.76	2.01	1.64	1.95
5	0.64	0.63	0.55	0.51	0.58
6	0.00	Battery Leaked	0.00	0.00	0.00
7	0.00	"	0.00	0.00	0.00
8	0.00	"	0.00	0.00	0.00
9	0.00	"	0.00	0.00	0.00
10	0.00	"	0.00	0.00	0.00
11	0.00	"	0.00	0.00	0.00
12	0.00	"	0.00	0.00	0.00
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	0.96	"	0.69	0.55	0.12
18	0.00	"	0.00	0.00	0.00
19	0.25	"	0.16	0.02	0.35
20	0.12	"	0.12	0.11	0.14
21	0.37	"	0.38	0.46	0.45
22	0.00	"	0.00	0.00	0.00
23	0.00	"	0.00	0.00	0.00
24	0.00	"	0.00	0.00	0.00
25	0.21	"	0.22	0.27	0.21
26	0.00	"	0.00	0.00	0.00
27	0.01	"	0.00	0.00	0.01
28	0.00	"	0.00	0.00	0.00
29	0.00	"	0.00	0.00	0.00
30	0.00	"	0.01	0.01	0.00
TOTAL:	5.48	2.79	4.60	4.33	4.37