

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: July 2020

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT\*

TOTAL FLOW TO PLANT: 184,011,000 GALLONS  
 AVERAGE B.O.D. : 245 mg/L  
 AVERAGE SUSPENDED SOLIDS : 185 mg/L  
 AVERAGE PHOSPHORUS : 4.40 mg/L  
 AVERAGE AMMONIA-N : 33.19 mg/L  
 AVERAGE CHLORIDES : 642.31 mg/L

MAXIMUM DAILY FLOW TO PLANT:  
11,388,000

### 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	40.72	24.01	27.48	29.93	26.96	28.78
LITTLE CHUTE	27.20	34.87	32.66	29.98	41.41	34.02
KIMBERLY	11.09	11.70	9.81	11.20	8.47	17.95
COMBINED LOCKS	5.31	5.51	5.55	6.31	4.87	1.52
DARBOY	15.67	23.91	24.50	22.59	18.29	17.73

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>FLOW</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
FLOW :	5,935,839 GALLONS	49.9	11,900,000	GALLONS/DAY	8,500,000	69.83
B.O.D. :	11,695 POUNDS	79.8	14,651	POUNDS/DAY	12,209	95.79
SUSPENDED SOLIDS :	8,807 POUNDS	54.1	16,278	POUNDS/DAY	13,565	64.92
PHOSPHORUS :	210.81 POUNDS	51.8	407	POUNDS/DAY	339	62.18
AMMONIA-N :	1,634 POUNDS	85.1	1,920	POUNDS/DAY	1,600	102.11
CHLORIDES :	31,413 POUNDS					

### FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>MONTHLY AVG PERMIT LIMIT</u>
FLOW: 2,322,387	%
SUSPENDED SOLIDS : 10.59 mg/L	35.3
SUSPENDED SOLIDS : 212.72 lbs	26.6
B.O.D. : 10.65 mg/L	42.6
PHOSPHORUS : 0.30 mg/L	29.8
AMMONIA-N : 0.82 mg/L	18.5
CHLORIDES : 640.00 mg/L	%

FOX ENERGY CENTER PUMPED: 112,017,000 GALLONS

Effluent to Fox Energy  
61%

\* INCLUDES HAULED WASTE

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: JULY

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	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00
6	0.32	0.17	0.17	0.11	0.15
7	0.01	0.01	0.01	0.09	0.05
8	0.00	0.00	0.00	0.00	0.00
9	0.53	0.65	0.73	0.83	0.68
10	1.07	1.28	1.18	1.37	1.71
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00
14	0.06	0.05	0.05	0.01	0.06
15	0.44	0.36	0.32	0.19	0.41
16	0.01	0.01	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.05	0.02	0.13	0.15	0.01
19	0.27	0.31	0.25	0.39	0.27
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.01	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.01	0.01	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	0.30	0.26	0.32	0.50	0.04
27	0.00	0.00	0.00	0.00	0.00
28	0.15	0.18	0.13	0.00	0.14
29	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
<b>TOTAL:</b>	3.21	3.30	3.30	3.66	3.52