

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: NOVEMBER 2018

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT\*

TOTAL FLOW TO PLANT: 167,657,000 GALLONS  
 AVERAGE B.O.D. : 235 mg/L  
 AVERAGE SUSPENDED SOLIDS : 243 mg/L  
 AVERAGE PHOSPHORUS : 4.52 mg/L  
 AVERAGE AMMONIA-N : 31.55 mg/L  
 AVERAGE CHLORIDES : 519.23 mg/L

MAXIMUM DAILY FLOW TO PLANT:  
8,259,000

### 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	40.28	24.02	32.60	30.34	26.24	33.03
LITTLE CHUTE	23.47	41.38	28.35	26.69	39.61	30.47
KIMBERLY	13.93	8.97	10.45	12.56	9.27	13.28
COMBINED LOCKS	6.13	5.25	6.71	6.76	5.69	2.05
DARBOY	16.20	20.38	21.89	23.65	19.19	21.17

### AVERAGE DAILY INFLUENT LOADINGS

FLOW : 5,588,567 GALLONS  
 B.O.D. : 10,616 POUNDS  
 SUSPENDED SOLIDS : 10,952 POUNDS  
 PHOSPHORUS : 204 POUNDS  
 AMMONIA-N : 1,423 POUNDS  
 CHLORIDES : 23,420 POUNDS

### PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>	<u>AVG</u>	<u>%</u>
47.0	11,900,000	8,500,000	65.75
72.5	14,651	12,209	86.95
67.3	16,278	13,565	80.73
50.1	407	339	60.18
74.1	1,920	1,600	88.95

### FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 5,588,567			
SUSPENDED SOLIDS : 9.84 mg/L	32.8	30	mg/L
SUSPENDED SOLIDS : 459.74 lbs	57.4	801	lbs
cB.O.D. : 3.69 mg/L	14.8	25	mg/L
PHOSPHORUS : 0.20 mg/L	20.1	1	mg/L
AMMONIA-N : 0.40 mg/L	2.2	18	mg/L
CHLORIDES : 517.69 mg/L			

FOX ENERGY CENTER PUMPED: - GALLONS

Effluent to Fox Energy  
**0%**

\* INCLUDES HAULED WASTE

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: NOVEMBER

YEAR: 2018

<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	0.45	0.32	0.48	0.37	0.37
5	0.10	0.09	0.09	0.09	0.10
6	0.35	0.27	0.26	0.30	0.35
7	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00
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	0.00	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	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.25	0.22	0.26	0.21	0.24
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00
30	0.04	0.04	0.04	0.03	0.02
<b>TOTAL:</b>	1.19	0.94	1.13	1.00	1.08