

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: FEBRUARY 2020

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT\*

**TOTAL FLOW TO PLANT:** 135,703,000 GALLONS  
**AVERAGE B.O.D. :** 261 mg/L  
**AVERAGE SUSPENDED SOLIDS :** 197 mg/L  
**AVERAGE PHOSPHORUS :** 5.16 mg/L  
**AVERAGE AMMONIA-N :** 38.72 mg/L  
**AVERAGE CHLORIDES :** 639.17 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
5,890,000

### 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	37.38	23.51	26.76	27.70	24.04	29.57
LITTLE CHUTE	28.60	38.75	31.92	32.49	48.44	33.23
KIMBERLY	12.01	8.78	9.47	10.59	7.60	18.68
COMBINED LOCKS	5.18	4.80	5.13	5.65	4.22	1.97
DARBOY	16.84	24.16	26.72	23.56	15.70	16.54

<u>AVERAGE DAILY INFLUENT LOADINGS</u>	<u>%</u>	<u>MAX</u>	<u>PLANT DESIGN CRITERIA</u>	<u>AVG</u>	<u>%</u>
<b>FLOW :</b> 4,679,414 GALLONS	39.3	11,900,000	GALLONS/DAY	8,500,000	55.05
<b>B.O.D. :</b> 10,127 POUNDS	69.1	14,651	POUNDS/DAY	12,209	82.95
<b>SUSPENDED SOLIDS :</b> 7,711 POUNDS	47.4	16,278	POUNDS/DAY	13,565	56.84
<b>PHOSPHORUS :</b> 200.45 POUNDS	49.2	407	POUNDS/DAY	339	59.13
<b>AMMONIA-N :</b> 1,453 POUNDS	75.7	1,920	POUNDS/DAY	1,600	90.81
<b>CHLORIDES :</b> 23,749 POUNDS					

### FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
<b>FLOW:</b> 1,785,276			
<b>SUSPENDED SOLIDS :</b> 6.95 mg/L	23.2	30	mg/L
<b>SUSPENDED SOLIDS :</b> 105.78 lbs	13.2	801	lbs
<b>cB.O.D. :</b> 5.89 mg/L	23.6	25	mg/L
<b>PHOSPHORUS :</b> 0.18 mg/L	18.4	1	mg/L
<b>AMMONIA-N :</b> 0.26 mg/L	2.6	10	mg/L
<b>CHLORIDES :</b> 624.17 mg/L			

**FOX ENERGY CENTER PUMPED:** 83,930,000 GALLONS

Effluent to Fox Energy  
**62%**

\* INCLUDES HAULED WASTE