

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: NOVEMBER 2019

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT*

TOTAL FLOW TO PLANT: 199,024,000 GALLONS
AVERAGE B.O.D. : 193 mg/L
AVERAGE SUSPENDED SOLIDS : 163 mg/L
AVERAGE PHOSPHORUS : 3.79 mg/L
AVERAGE AMMONIA-N : 28.56 mg/L
AVERAGE CHLORIDES : 547.50 mg/L

MAXIMUM DAILY FLOW TO PLANT:
13,822,000

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	25.24	31.23	29.90	23.40	31.22
LITTLE CHUTE	26.90	37.22	30.54	31.34	46.47	31.72
KIMBERLY	12.92	9.33	10.92	10.66	8.44	22.21
COMBINED LOCKS	6.19	6.41	6.77	7.06	5.30	2.08
DARBOY	13.27	21.80	20.53	21.04	16.39	12.77

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 6,634,133 GALLONS
B.O.D. : 10,176 POUNDS
SUSPENDED SOLIDS : 8,487 POUNDS
PHOSPHORUS : 193 POUNDS
AMMONIA-N : 1,442 POUNDS
CHLORIDES : 28,519 POUNDS

PLANT DESIGN CRITERIA

<u>%</u>	<u>MAX</u>		<u>AVG</u>	<u>%</u>
55.7	11,900,000	GALLONS/DAY	8,500,000	78.05
69.5	14,651	POUNDS/DAY	12,209	83.35
52.1	16,278	POUNDS/DAY	13,565	62.57
47.3	407	POUNDS/DAY	339	56.81
75.1	1,920	POUNDS/DAY	1,600	90.15

FINAL EFFLUENT

<u>MONTHLY AVERAGE</u>	<u>%</u>	<u>MONTHLY AVG PERMIT LIMIT</u>	
FLOW: 3,989,267			
SUSPENDED SOLIDS : 17.29 mg/L	57.6	30	mg/L
SUSPENDED SOLIDS : 520.37 lbs	65.0	801	lbs
c.B.O.D. : 9.58 mg/L	38.3	25	mg/L
PHOSPHORUS : 0.32 mg/L	31.9	1	mg/L
AMMONIA-N : 0.40 mg/L	2.2	18	mg/L
CHLORIDES : 537.50 mg/L			

FOX ENERGY CENTER PUMPED: 79,346,000 GALLONS

Effluent to Fox Energy
40%

* INCLUDES HAULED WASTE