

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: DECEMBER 2015

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT

TOTAL FLOW TO PLANT: 241,853,000 GALLONS  
 AVERAGE B.O.D. : 163 mg/L  
 AVERAGE SUSPENDED SOLIDS : 153 mg/L  
 AVERAGE PHOSPHORUS : 3.98 mg/L  
 AVERAGE AMMONIA-N : 22.25 mg/L  
 AVERAGE CHLORIDES : 427.27 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
30,390,000 Gallons

### 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	41.00	27.45	29.61	33.46	31.40	39.22
LITTLE CHUTE	24.55	28.27	23.33	25.48	32.47	30.20
KIMBERLY	12.94	12.46	13.31	11.85	9.59	13.72
COMBINED LOCKS	6.58	7.47	7.77	7.21	7.08	2.45
DARBOY	14.94	24.35	25.99	22.00	19.47	14.42

### AVERAGE DAILY INFLUENT LOADINGS

FLOW : 7,801,710 GALLONS  
 B.O.D. : 10,576 POUNDS  
 SUSPENDED SOLIDS : 9,957 POUNDS  
 PHOSPHORUS : 259 POUNDS  
 AMMONIA-N : 1,448 POUNDS  
 CHLORIDES : 27,801 POUNDS

<u>%</u>
65.6
72.2
61.2
63.6
75.4

### PLANT DESIGN CRITERIA

11,900,000 GALLONS/DAY  
 14,651 POUNDS/DAY  
 16,278 POUNDS/DAY  
 407 POUNDS/DAY  
 1,920 POUNDS/DAY

### FINAL EFFLUENT

MONTHLY  
AVERAGE

cB.O.D. : 5.76 mg/L  
 SUSPENDED SOLIDS : 13.42 mg/L  
 PHOSPHORUS : 0.30 mg/L  
 AMMONIA-N : 0.63 mg/L  
 CHLORIDES : 450.00 mg/L

<u>%</u>
23.0
44.7
29.6

PERMIT  
LIMIT

25 mg/L  
 30 mg/L  
 1 mg/L

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: DECEMBER

YEAR: 2015

<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	0.20	0.29	0.22	0.34	0.30
2	0.00	0.00	0.01	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	0.00	0.00	0.00	0.00	0.00
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	0.08	0.08	0.08	0.06	0.10
11	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00
13	1.41	0.96	1.26	1.01	1.09
14	1.31	1.33	1.50	1.68	1.58
15	0.00	0.00	0.00	0.00	0.00
16	0.13	0.13	0.13	0.09	0.10
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	0.01	0.01	0.01	0.01	0.00
21	0.04	0.01	0.05	0.03	0.06
22	0.03	0.03	0.03	0.04	0.06
23	0.28	0.19	0.23	0.18	0.22
24	0.01	0.02	0.00	0.03	0.04
25	0.00	0.00	0.00	0.00	0.00
26	0.01	0.01	0.02	0.02	0.01
27	0.00	0.00	0.00	0.00	0.00
28	0.54	END OF	END OF	END OF	END OF
29	0.10	RAIN GAUGE	RAIN GAUGE	RAIN GAUGE	RAIN GAUGE
30	0.06	DATA	DATA	DATA	DATA
31	0.03	FOR YEAR	FOR YEAR	FOR YEAR	FOR YEAR

**TOTAL:**