

# HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: SEPTEMBER 2015

## HYDRAULIC AND ORGANIC LOADINGS DATA

### INFLUENT

TOTAL FLOW TO PLANT: 158,179,000 GALLONS  
 AVERAGE B.O.D. : 189 mg/L  
 AVERAGE SUSPENDED SOLIDS : 200 mg/L  
 AVERAGE PHOSPHORUS : 4.11 mg/L  
 AVERAGE AMMONIA-N : 22.21 mg/L  
 AVERAGE CHLORIDES : 524.62 mg/L

**MAXIMUM DAILY FLOW TO PLANT:**  
15,346,000 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	38.77	24.91	29.67	30.20	33.16	35.22
LITTLE CHUTE	23.04	27.17	24.96	23.31	26.35	32.32
KIMBERLY	12.50	13.22	13.90	13.34	11.53	12.44
COMBINED LOCKS	6.87	8.82	7.18	7.56	7.49	2.23
DARBOY	18.82	25.88	24.29	25.59	21.46	17.79

### AVERAGE DAILY INFLUENT LOADINGS

FLOW : 5,272,633 GALLONS  
 B.O.D. : 8,296 POUNDS  
 SUSPENDED SOLIDS : 8,795 POUNDS  
 PHOSPHORUS : 181 POUNDS  
 AMMONIA-N : 977 POUNDS  
 CHLORIDES : 23,069 POUNDS

<u>%</u>
44.3
56.6
54.0
44.5
50.9

### 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. : 5.89 mg/L  
 SUSPENDED SOLIDS : 27.24 mg/L  
 PHOSPHORUS : 0.62 mg/L  
 AMMONIA-N : 0.36 mg/L  
 CHLORIDES : 562.86 mg/L

<u>%</u>
23.6
90.8
62.4

PERMIT  
LIMIT

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

# RAIN GAUGES

## DAILY RAINFALL TOTALS

MONTH: SEPTEMBER

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	0.00	0.00	0.01	0.00	0.00
2	0.01	0.01	0.01	0.01	0.00
3	0.26	0.44	0.02	0.64	0.60
4	0.00	0.00	0.26*	0.00	0.00
5	0.00	0.00	0.14*	0.00	0.00
6	0.10	0.06	0.01*	0.07	0.07
7	1.04	1.22	0.23*	1.14	1.02
8	2.07	1.84	0.18*	1.76	1.90
9	0.00	0.00	0.09*	0.00	0.00
10	0.01	0.00	0.02*	0.01	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	0.06	0.02	0.01	0.06	0.02
15	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00
17	0.26	0.37	0.24	0.35	0.21
18	0.81	0.42	0.43	0.41	0.51
19	0.21	0.52	0.48	0.62	0.62
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	0.00	0.00	0.00	0.00	0.00
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	0.33	0.23	0.29	0.26	0.32
29	0.01	0.00	0.00	0.01	0.04
30	0.00	0.00	0.00	0.00	0.00
<b>TOTAL:</b>	5.17	5.13	1.49	5.34	5.31

\* Unit was plugged with cottonwood