1. Flow and Strength Projections

FLOW: 41,200,920 over projection

BOD: 47,781 #'s over projection

S.SOLIDS: Actual and Projected seem to be leveling out.

PHOSPHORUS: Was under projection netting a loss of (\$-13,763.05)

AMMONIA: ok

CHLORIDES: ok

Surplus or Deficit

February netted a SURPLUS of \$38,362.02

YTD Surplus of: \$75,751.69

2. Hydraulic and Organic Loadings Data

Total Plant Flow: 154,391,000 for February

All Parameters for the Influent: BOD,TSS,TP,NH3-N, CHLORIDES were normal.

Percent by community: Nothing Notable.

Average Daily Loadings: Nothing Notable

Final Effluent numbers: TSS, NH3, and TP all remain low.

All Permit Values were met for February.

3. Fox Energy Center

Fox Energy Pumped 60,681,000 gallons in February

- -netting a monthly dollar amount of \$9302.61
- -As of March total revenue collected was \$19,531.48

FLOW AND STRENGTH PROJECTIONS

MONTH: February 2017

	PROJECTED	<u>ACTUAL</u>	DIFFERENCE		PROJECTED INCOME FOR MONTH	<u>F</u>	ACTUAL INCOME FOR MONTH		SURPLUS OR DEFICIT
FLOW (GALLONS) B.O.D. (#s) S. SOLIDS (#s) PHOSPHORUS (#s) AMMONIA-N (#s) CHLORIDES (#s)	114,060,263 247,198 301,047 8,398 33,567 547,337	155,260,920 294,979 289,495 6,155 37,967 715,982	41,200,657 47,781 -11,552 -2,243 4,400 168,645	\$ \$ \$ \$ \$ \$ \$	95,468.44 65,507.47 78,573.27 51,530.13 54,546.38 2,736.69	\$ \$ \$ \$ \$ \$	78,169.44 75,558.20 37,767.08 61,696.38	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	34,484.95 12,661.97 (3,015.07) (13,763.05) 7,150.00 843.23
			TOTAL:	\$	348,362.37	\$	386,724.39	\$	38,362.02

(THRU FEBRUARY 2017)

PROJECTED FOR 2017

	END OF YEAR PROJECTED	YEAR TO DATE SURPLUS/ <u>DEFICIT</u>	AR TO DATE SURPLUS/ DEFICIT \$\$
FLOW (GALLONS)	1,933,366,797	84,819,817	\$ 70,994.19
B.O.D. (#s)	3,232,707	101,291	\$ 26,842.12
S. SOLIDS (#s)	4,183,878	-68,620	\$ (17,909.82)
PHOSPHORUS (#s)	84,963	-3,186	\$ (19,549.30)
AMMONIA-N (#s)	423,820	8,112	\$ 13,182.00
CHLORIDES (#s)	7,342,132	438,500	\$ 2,192.50
		TOTAL:	\$ 75,751.69

MONTH: February 2017

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 154,391,000 GALLONS

AVERAGE B.O.D.: 191 mg/L

AVERAGE SUSPENDED SOLIDS: 167 mg/L

AVERAGE PHOSPHORUS: 4.71 mg/L AVERAGE AMMONIA-N: 29.83 mg/L AVERAGE CHLORIDES: 538.33 mg/L

PERCENT (%) BY COMMUNITY OF TOTAL MONTHLY VOLUME TREATED AT WWTP

COMMUNITY	FLOW	BOD	TSS	PHOSPHORUS	AMMONIA	CHLORIDES
KAUKAUNA	39.36	30.23	31.34	31.89	30.60	32.64
LITTLE CHUTE	24.32	26.07	27.16	25.31	34.06	29.39
KIMBERLY	13.16	11.32	11.17	11.08	9.22	18.97
COMBINED LOCKS	5.99	6.86	7.12	6.45	5.76	2.59
DARBOY	17.17	25.52	23.22	25.27	20.37	16.42

%

46.3

54.2

42.6

48.0

64.5

AVERAGE DAILY

CHLORIDES:

INFLUENT LOADINGS

FLOW: 5,513,964 GALLONS

B.O.D.: 7,939 POUNDS

SUSPENDED SOLIDS: 6,942 POUNDS **PHOSPHORUS:** 196 POUNDS

AMMONIA-N: 1,239 POUNDS

CHLORIDES: 22,360 POUNDS

PLANT DESIGN

MAXIMUM DAILY FLOW TO PLANT:

9,290,000

CRITERIA

11,900,000 GALLONS/DAY

14,651 POUNDS/DAY

16,278 POUNDS/DAY

407 POUNDS/DAY

1,920 POUNDS/DAY

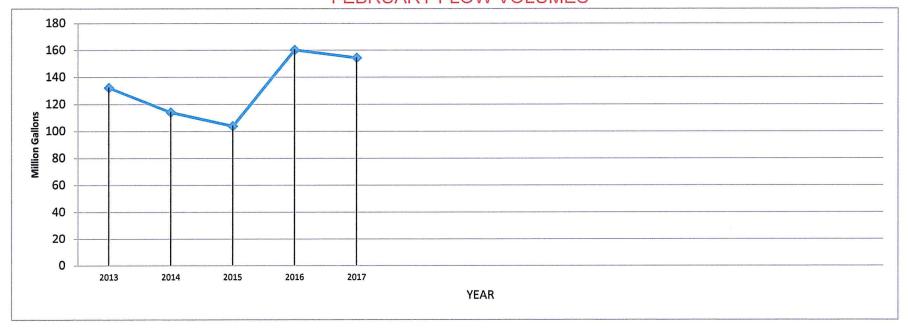
FINAL EFFLUENT

	MONTHLY		PERMIT
	AVERAGE		LIMIT
FLOW:	3,346,786 GALLONS	<u>%</u>	
cB.O.D. :	5.25 mg/L	21.0	25 mg/L
SUSPENDED SOLIDS:	8.77 mg/L	29.2	30 mg/L
PHOSPHORUS:	0.22 mg/L	22.4	1 mg/L
AMMONIA-N:	0.26 mg/L		

556.67 mg/L

	February Flow	Precipitation
<u>Year</u>	Million Gallons	<u>Inches</u>
2013	132.251	1.22
2014	114.081	1.74
2015	103.918	0.52
2016	160.230	1.13
2017	154.391	0.00

FEBRUARY FLOW VOLUMES

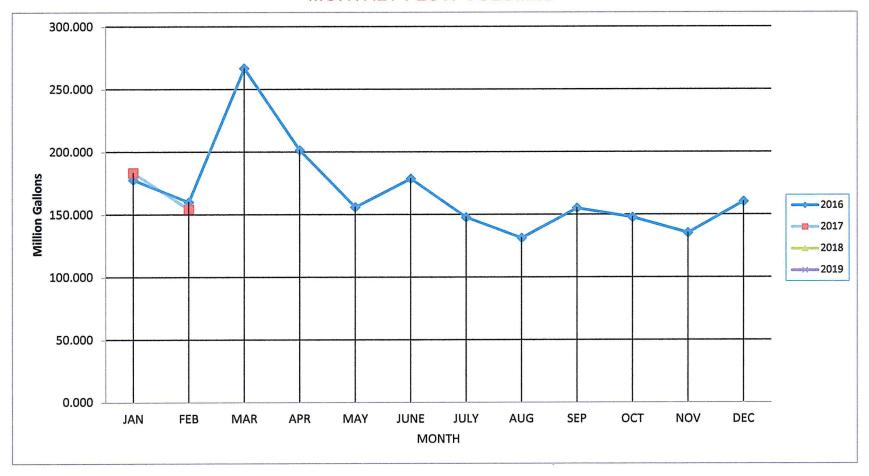


DEC MAR SEP OCT NOV JAN **FEB APR** MAY JUNE JULY AUG 266.917 201.541 156.148 178.887 147.968 131.529 155.337 160.593 135.607 2016 177.906 160.230 148.008 2017 183.493 154.391 2018

*** FLOW VOLUMES REPORTED IN MILLION GALLONS ***

2019

MONTHLY FLOW VOLUMES

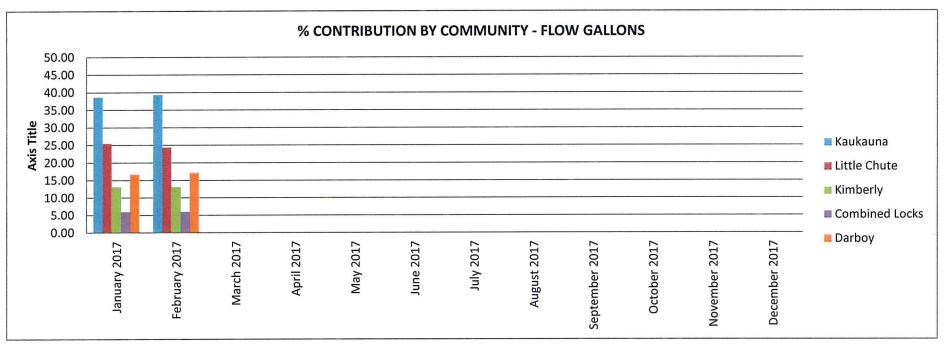


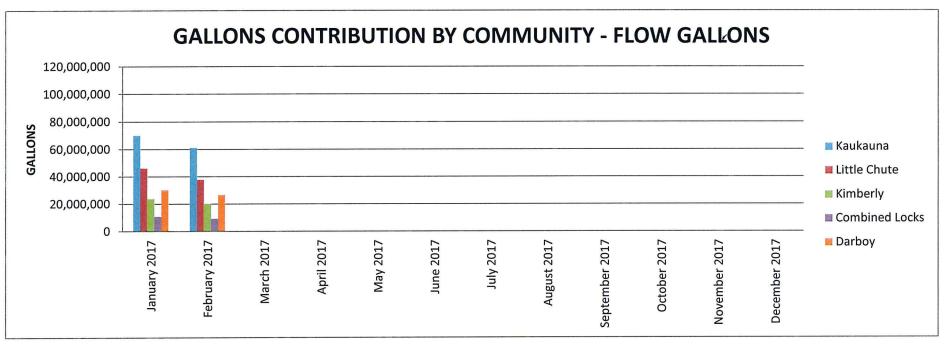
% CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>	Rainfall - Inches
January 2017	38.67	25.42	13.20	5.98	16.73	
February 2017	39.36	24.32	13.16	5.99	17.17	
March 2017						
April 2017						
May 2017						
June 2017						
July 2017						
August 2017						
September 2017						
October 2017						
November 2017						
December 2017						

GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	70,086,400	46,073,000	23,922,000	10,834,000	30,324,000
February 2017	61,107,920	37,766,000	20,426,000	9,296,000	26,665,000
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



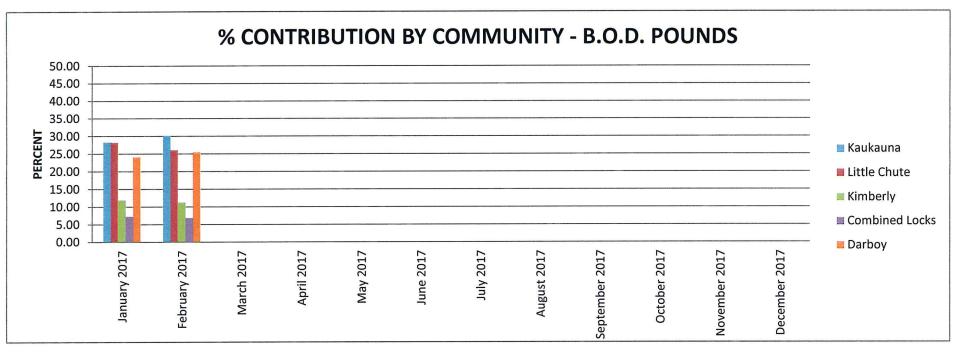


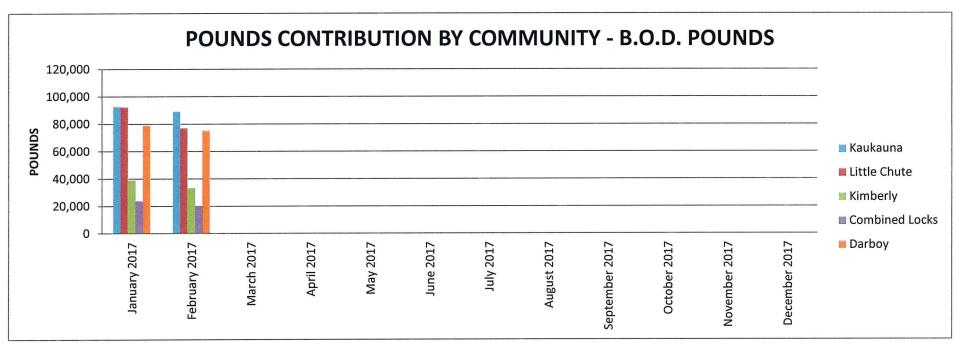
% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	28.37	28.24	11.98	7.28	24.13
February 2017	30.23	26.07	11.32	6.86	25.52
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>
January 2017	92,752	92,337	39,172	23,785	78,888
February 2017	89,162	76,903	33,377	20,248	75,289
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



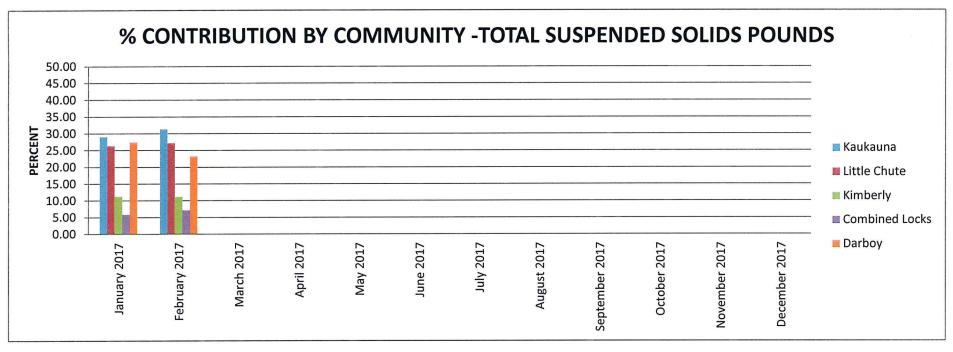


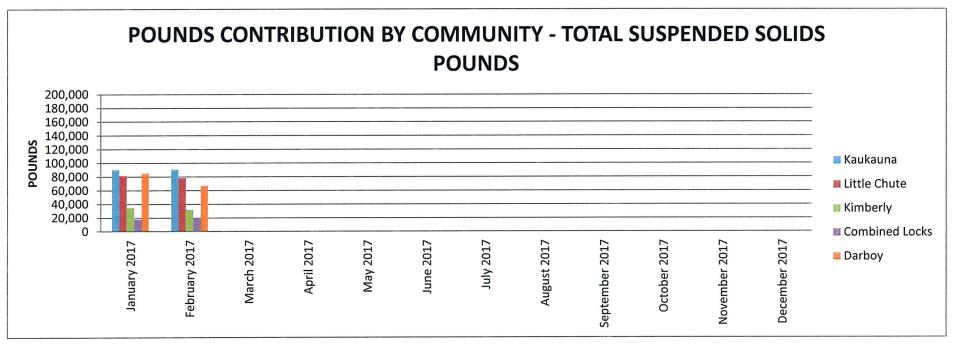
% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	29.08	26.35	11.30	5.83	27.43
February 2017	31.34	27.16	11.17	7.12	23.22
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017				,	
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>
January 2017	90,234	81,769	35,081	18,106	85,135
February 2017	90,717	78,623	32,349	20,599	67,207
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



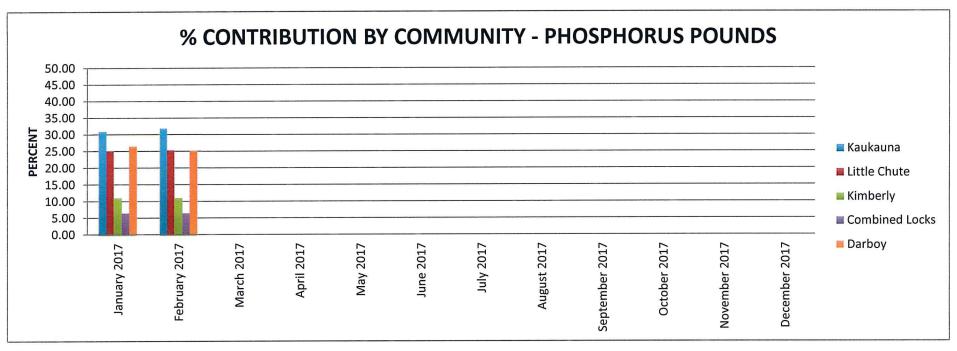


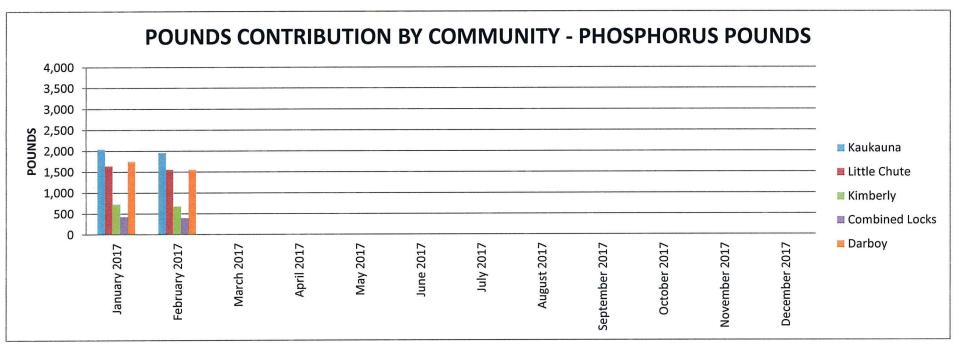
% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	30.98	24.92	11.11	6.44	26.55
February 2017	31.89	25.31	11.08	6.45	25.27
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	2,044	1,643	733	425	1,751
February 2017	1,963	1,558	682	397	1,555
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



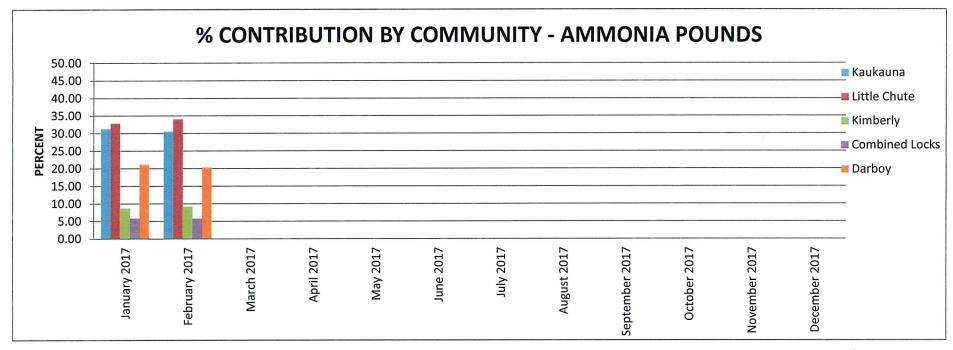


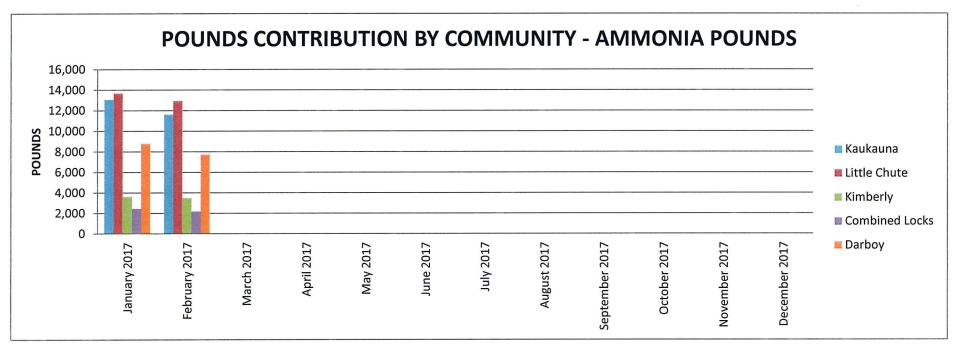
% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	31.39	32.86	8.72	5.87	21.15
February 2017	30.60	34.06	9.22	5.76	20.37
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	Kaukauna	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>
January 2017	13,065	13,677	3,631	2,445	8,804
February 2017	11,618	12,930	3,499	2,187	7,734
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					



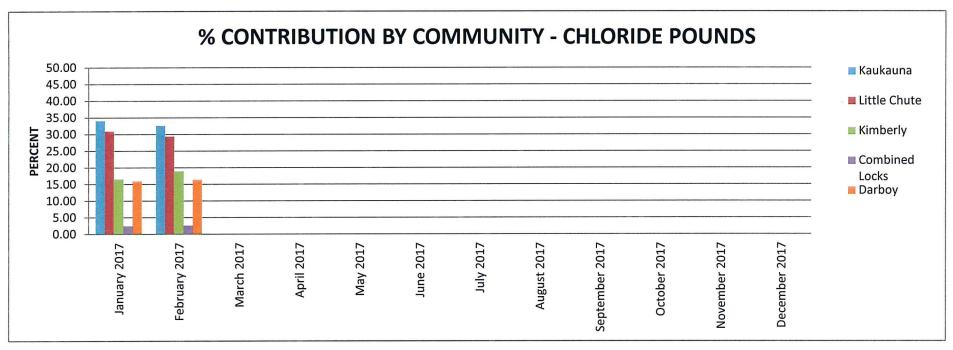


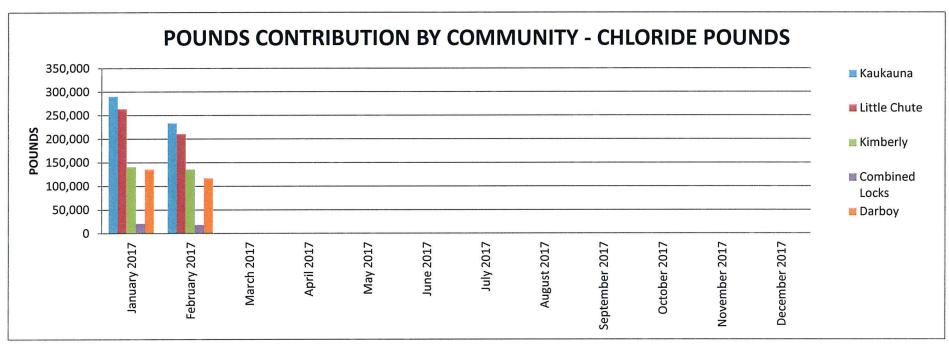
% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	Little Chute	<u>Kimberly</u>	Combined Locks	<u>Darboy</u>
January 2017	34.08	30.92	16.58	2.46	15.96
February 2017	32.64	29.39	18.97	2.59	16.42
March 2017					
April 2017					
May 2017					
June 2017					
July 2017					
August 2017					
September 2017					
October 2017					
November 2017					
December 2017					

POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

January 2017 290,487 263,589 141,331 20,961 136,083 February 2017 233,674 210,399 135,811 18,539 117,560 March 2017 April 2017 May 2017 June 2017 July 2017 August 2017 September 2017 October 2017 November 2017		<u>Kaukauna</u>	Little Chute	Kimberly	Combined Locks	<u>Darboy</u>
March 2017 April 2017 May 2017 June 2017 July 2017 August 2017 September 2017 October 2017	January 2017	290,487	263,589	141,331	20,961	136,083
April 2017	February 2017	233,674	210,399	135,811	18,539	117,560
May 2017 June 2017 July 2017 August 2017 September 2017 October 2017	March 2017					
June 2017 July 2017 August 2017 September 2017 October 2017	April 2017					
July 2017 August 2017 September 2017 October 2017	May 2017					
August 2017 September 2017 October 2017	June 2017					
September 2017 October 2017	July 2017					
October 2017	August 2017					
	September 2017					
November 2017	October 2017					
	November 2017					
December 2017	December 2017					





DISTRICT DIRECTOR:

Brian M. Helminger

SERVING:

Combined Locks Kaukauna Kimberly Little Chute Darboy S.D.



COMMISSIONERS:

David J. Casper, President Bruce M. Siebers, Vice-Pres. Kevin P. Coffey, Secretary Patrick E. Hennessey John W. Sundelius

Heart of the Valley

METROPOLITAN SEWERAGE DISTRICT

801 THILMANY ROAD KAUKAUNA, WISCONSIN 54130 (920) 766-5731 FAX (920) 766-5733 www.hvmsd.org

Facility: Wisconsin Public Service Corporation - Fox Energy Center

P.O. Box 19800

Green Bay, WI 54307-9004

Attn: Account # N2310E

Month: February Year: 2017

Gallons of Final Effluent Purchased (Billing)

<u>Date</u>	<u>Gallons</u>	<u>Date</u>	Gallons
2/1/2017	2,282,000	2/21/2017	2,625,000
2/2/2017	2,139,000	2/22/2017	1,598,000
2/3/2017	2,255,000	2/23/2017	2,716,000
2/4/2017	2,442,000	2/24/2017	2,715,000
2/5/2017	2,442,000	2/25/2017	2,609,000
2/6/2017	718,000	2/26/2017	1,946,000
2/7/2017	1,248,000	2/27/2017	2,121,000
2/8/2017	2,594,000	2/28/2017	3,413,000
2/9/2017	2,595,000		
2/10/2017	2,593,000		
2/11/2017	2,563,000		
2/12/2017	1,569,000		
2/13/2017	1,938,000		
2/14/2017	2,437,000	Total:	60,681,000
2/15/2017	2,544,000		
2/16/2017	2,716,000		
2/17/2017	2,383,000		
2/18/2017	775,000		
2/19/2017	589,000		
2/20/2017	2,116,000		
	•		

Facility: Wisconsin Public Service Corporation - Fox Energy Center

P.O. Box 19800

Green Bay, WI 54307-9004

Attn: Account # N2310E

MONTHLY BILLING

Month: February Year: 2017

GALLONS PURCHASED: 60,681,000

BILLING RATE: \$0.1533035 PER 1000 GALLONS

TOTAL AMOUNT DUE: \$9,302.61

Heart of the Valley Metropolitan Sewerage District

Fox Energy Revenue From the Sale of Final Effluent

2017

Final Effluent Sent to Fox Energy Facility

Gallons: 127,404,000

Charge Per 1000 Gallons: \$0.1533035 Per 1000 Gallons

Sale of Final Effluent (Revenue Collected): \$19,531.48