

FLOW AND STRENGTH PROJECTIONS

MONTH: August 2015

	<u>PROJECTED</u>	<u>ACTUAL</u>	<u>DIFFERENCE</u>	<u>PROJECTED INCOME FOR MONTH</u>	<u>ACTUAL INCOME FOR MONTH</u>	<u>SURPLUS OR DEFICIT</u>
FLOW (GALLONS)	128,877,183	124,746,250	-4,130,933	\$ 93,435.96	\$ 90,441.03	\$ (2,994.93)
B.O.D. (#s)	261,265	239,678	-21,587	\$ 62,442.34	\$ 57,283.00	\$ (5,159.33)
S. SOLIDS (#s)	393,236	307,815	-85,421	\$ 77,467.49	\$ 60,639.56	\$ (16,827.93)
PHOSPHORUS (#s)	7,505	5,707	-1,798	\$ 39,378.74	\$ 29,942.37	\$ (9,436.36)
AMMONIA-N (#s)	34,519	33,218	-1,301	\$ 56,438.57	\$ 54,311.38	\$ (2,127.18)
CHLORIDES (#s)	516,257	582,736	66,479	\$ 2,581.29	\$ 2,913.68	\$ 332.40
			TOTAL:	\$ 331,744.37	\$ 295,531.03	\$ (36,213.34)

(THRU AUGUST 2015)

PROJECTED FOR 2015

	<u>END OF YEAR PROJECTED</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT</u>	<u>YEAR TO DATE SURPLUS/ DEFICIT \$\$</u>
FLOW (GALLONS)	1,990,763,703	-286,122,309	\$ (207,438.67)
B.O.D. (#s)	3,436,567	-279,621	\$ (66,829.34)
S. SOLIDS (#s)	5,046,098	-1,030,379	\$ (202,984.75)
PHOSPHORUS (#s)	96,019	-13,986	\$ (73,385.17)
AMMONIA-N (#s)	398,962	18,276	\$ 29,881.15
CHLORIDES (#s)	7,094,286	-489,972	\$ (2,449.86)
		TOTAL:	\$ (523,206.66)

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: AUGUST 2015

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 128,427,000 GALLONS
 AVERAGE B.O.D. : 220 mg/L
 AVERAGE SUSPENDED SOLIDS : 253 mg/L
 AVERAGE PHOSPHORUS : 5.29 mg/L
 AVERAGE AMMONIA-N : 29.26 mg/L
 AVERAGE CHLORIDES : 610.77 mg/L

MAXIMUM DAILY FLOW TO PLANT:
5,607,000 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	36.59	26.16	29.09	30.56	32.70	32.65
LITTLE CHUTE	23.92	25.46	23.07	23.93	26.81	33.67
KIMBERLY	11.41	12.92	15.23	11.83	10.31	11.89
COMBINED LOCKS	6.39	7.82	7.87	8.02	7.37	2.43
DARBOY	21.69	27.64	24.74	25.66	22.81	19.36

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 4,142,806 GALLONS
 B.O.D. : 7,617 POUNDS
 SUSPENDED SOLIDS : 8,734 POUNDS
 PHOSPHORUS : 183 POUNDS
 AMMONIA-N : 1,011 POUNDS
 CHLORIDES : 21,103 POUNDS

<u>%</u>
34.8
52.0
53.7
44.9
52.7

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. : 5.78 mg/L
 SUSPENDED SOLIDS : 21.32 mg/L
 PHOSPHORUS : 0.53 mg/L
 AMMONIA-N : 0.42 mg/L
 CHLORIDES : 639.23 mg/L

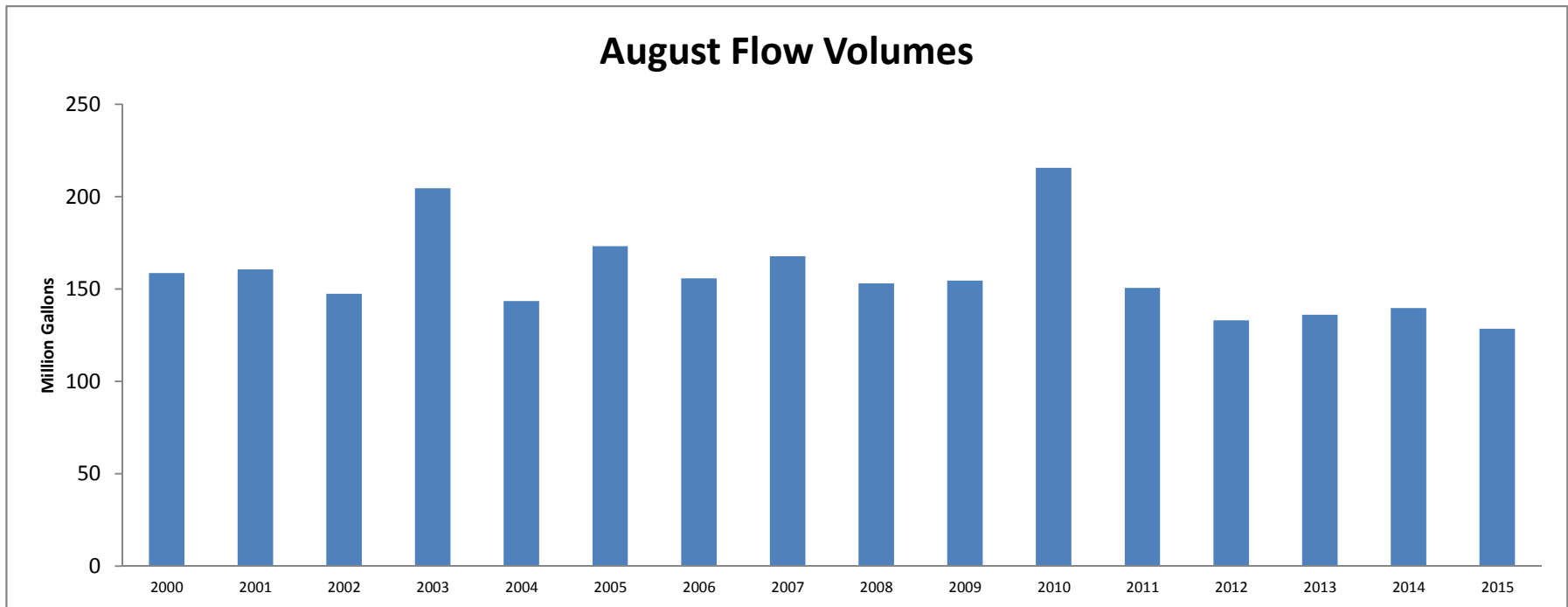
<u>%</u>
23.1
71.1
52.9

**PERMIT
LIMIT**

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

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

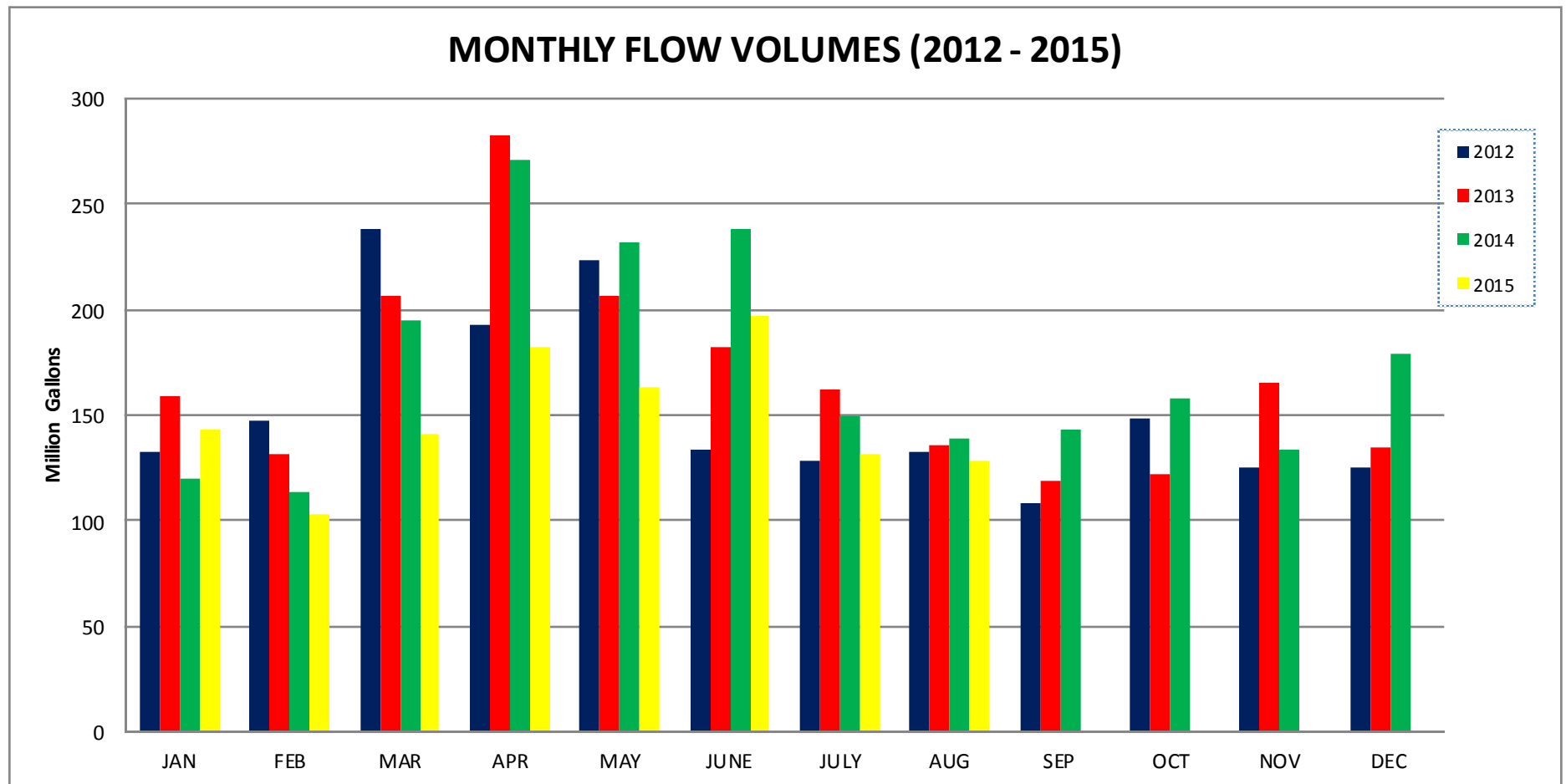
<u>Year</u>	<u>August Flow</u> <u>Million Gallons</u>	<u>Precipitation</u> <u>Inches</u>
2000	158.531	3.80
2001	160.537	3.85
2002	147.308	2.07
2003	204.456	2.56
2004	143.451	1.95
2005	173.194	3.49
2006	155.701	0.84
2007	167.607	3.88
2008	152.922	1.06
2009	154.483	3.85
2010	215.614	3.40
2011	150.532	1.94
2012	132.987	2.03
2013	135.948	2.02
2014	139.604	3.74
2015	128.427	3.22



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUNE</u>	<u>JULY</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>
2012	133.587	148.063	239.291	192.940	224.309	133.928	129.100	132.987	109.316	149.466	125.396	126.223
2013	159.014	132.251	207.339	283.615	207.246	182.739	163.201	135.948	119.210	122.015	165.861	135.674
2014	120.943	114.081	195.096	272.038	231.951	239.160	150.335	139.604	143.973	158.887	133.835	179.535
2015	143.460	103.918	141.868	182.911	164.246	197.337	132.478	128.427				

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



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

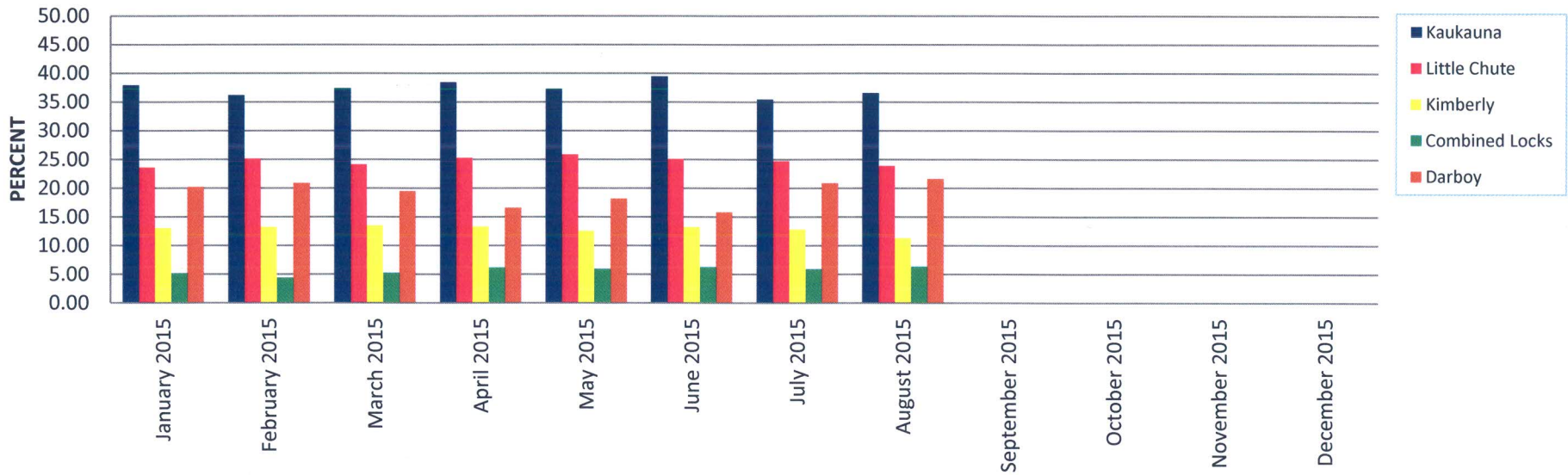
% CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>	<u>Rainfall - Inches</u>
January 2015	37.90	23.63	13.06	5.19	20.22	0.56
February 2015	36.21	25.18	13.26	4.45	20.90	0.52
March 2015	37.39	24.20	13.55	5.32	19.53	0.90
April 2015	38.45	25.32	13.38	6.23	16.63	1.91
May 2015	37.31	25.89	12.60	5.96	18.24	3.44
June 2015	39.44	25.12	13.26	6.31	15.88	4.59
July 2015	35.48	24.77	12.87	5.95	20.92	1.27
August 2015	36.59	23.92	11.41	6.39	21.69	3.22
September 2015						
October 2015						
November 2015						
December 2015						

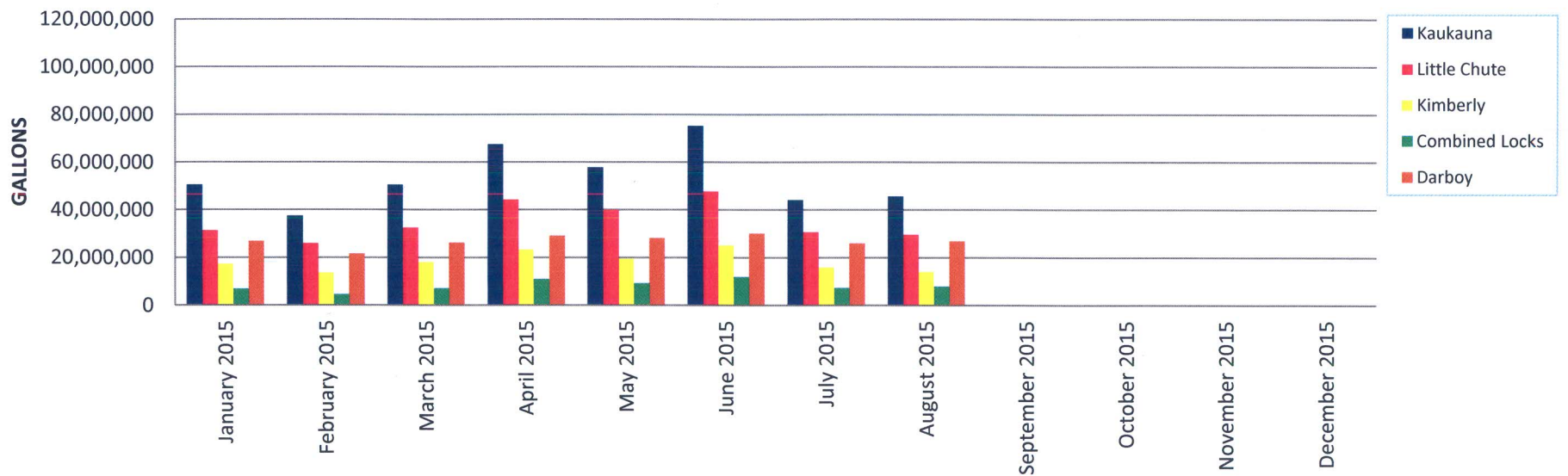
GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	50,570,950	31,530,000	17,429,000	6,924,000	26,985,000
February 2015	37,561,780	26,127,000	13,752,000	4,614,000	21,686,000
March 2015	50,496,530	32,678,000	18,302,000	7,186,000	26,375,000
April 2015	67,514,800	44,458,000	23,494,000	10,938,000	29,201,000
May 2015	57,821,520	40,117,000	19,531,000	9,229,000	28,264,000
June 2015	75,254,640	47,924,000	25,290,000	12,033,000	30,291,000
July 2015	44,193,140	30,852,000	16,031,000	7,416,000	26,056,000
August 2015	45,645,250	29,842,000	14,231,000	7,975,000	27,053,000
September 2015					
October 2015					
November 2015					
December 2015					

FLOW PERCENT CONTRIBUTED BY COMMUNITY



FLOW GALLONS CONTRIBUTED BY COMMUNITY



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

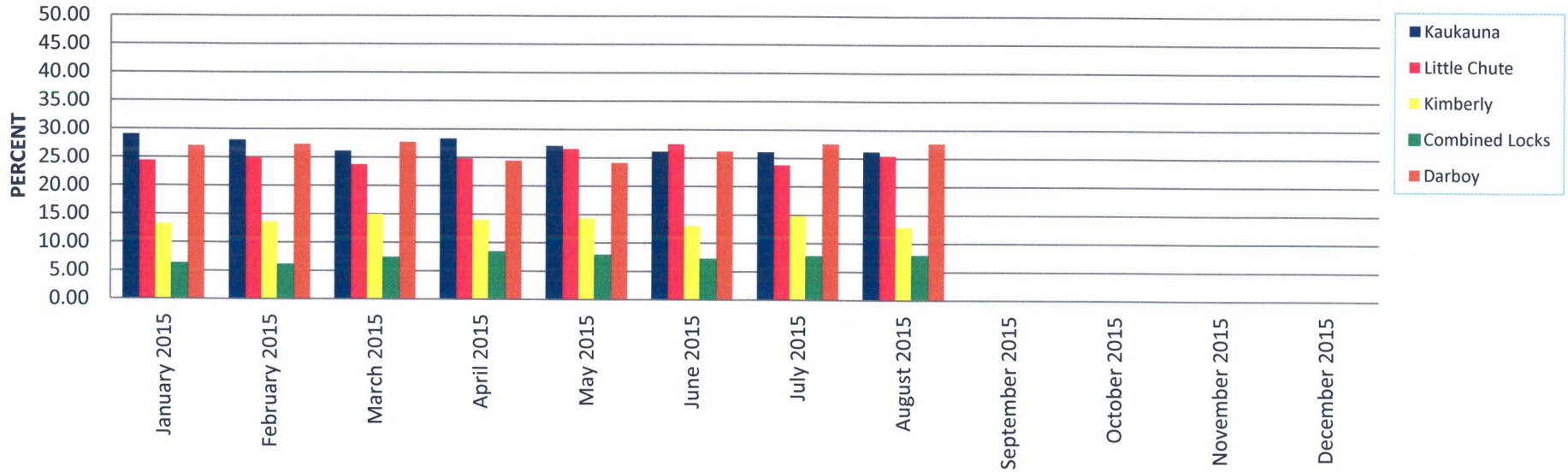
% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	29.01	24.40	13.31	6.25	27.03
February 2015	28.06	24.94	13.63	6.05	27.32
March 2015	26.13	23.80	15.02	7.32	27.72
April 2015	28.28	24.87	14.03	8.32	24.49
May 2015	27.09	26.59	14.36	7.83	24.13
June 2015	26.09	27.48	13.06	7.16	26.21
July 2015	26.04	23.85	14.85	7.69	27.58
August 2015	26.16	25.46	12.92	7.82	27.64
September 2015					
October 2015					
November 2015					
December 2015					

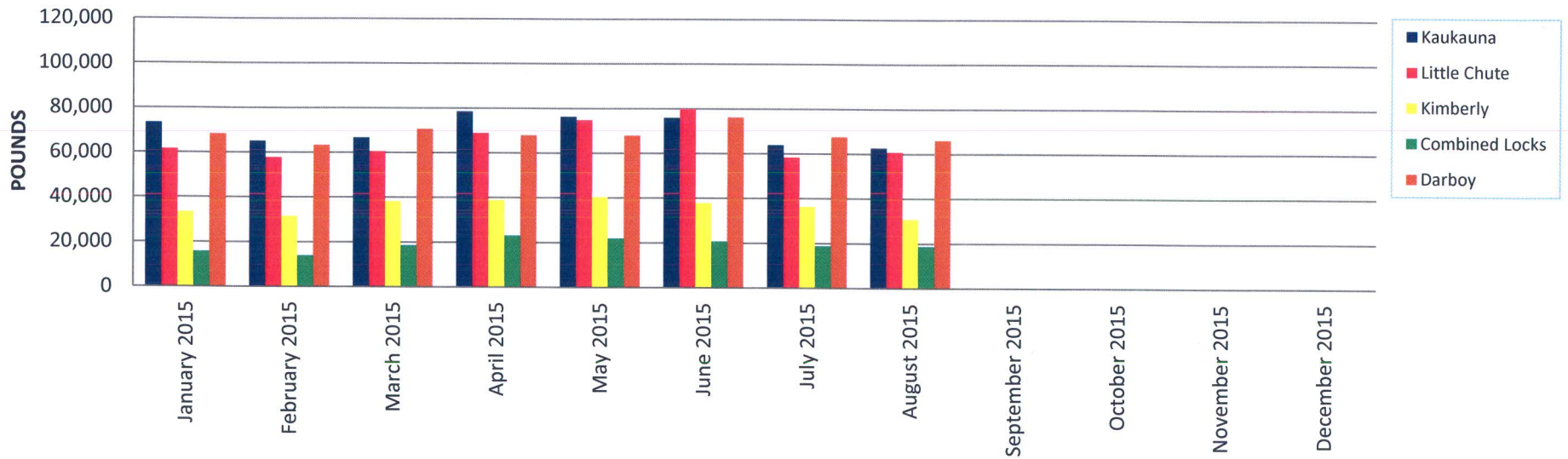
POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	73,318	61,663	33,645	15,805	68,331
February 2015	65,150	57,919	31,646	14,052	63,437
March 2015	66,672	60,728	38,323	18,677	70,735
April 2015	78,518	69,052	38,963	23,114	68,003
May 2015	76,346	74,949	40,478	22,065	68,025
June 2015	75,959	80,000	38,022	20,829	76,293
July 2015	63,932	58,549	36,469	18,873	67,709
August 2015	62,688	61,030	30,977	18,736	66,247
September 2015					
October 2015					
November 2015					
December 2015					

B.O.D. PERCENT CONTRIBUTED BY COMMUNITY



B.O.D POUNDS CONTRIBUTED BY COMMUNITY



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

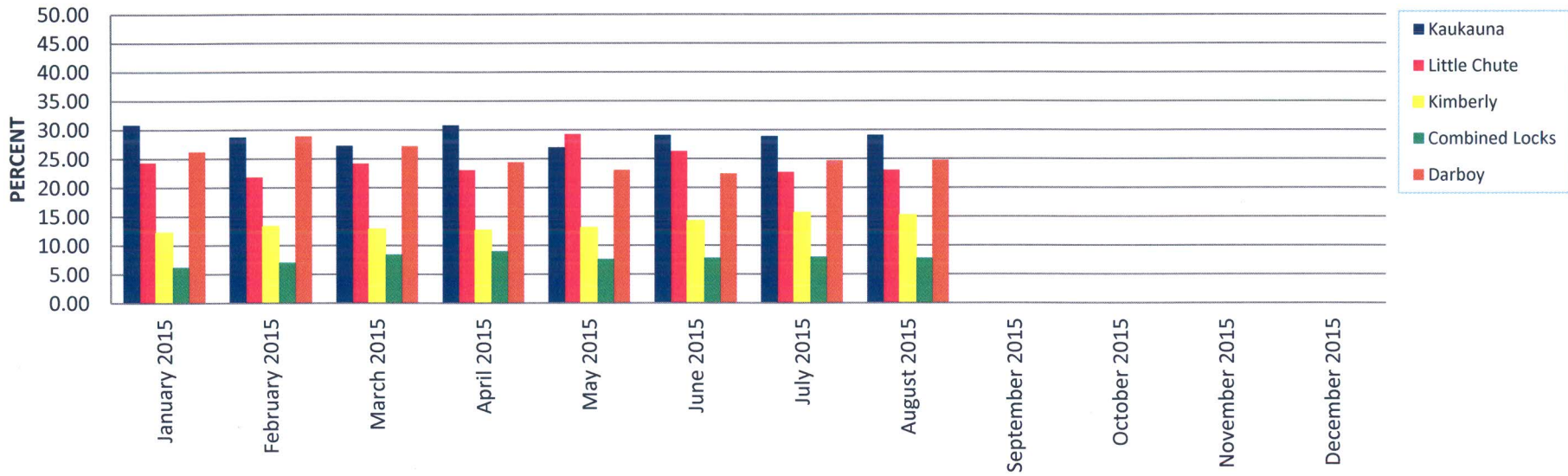
% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	30.86	24.36	12.26	6.25	26.27
February 2015	28.76	21.88	13.34	7.08	28.94
March 2015	27.27	24.23	12.82	8.49	27.19
April 2015	30.81	23.06	12.65	9.05	24.43
May 2015	26.96	29.26	13.06	7.65	23.07
June 2015	29.08	26.35	14.26	7.84	22.47
July 2015	28.87	22.73	15.68	8.03	24.69
August 2015	29.09	23.07	15.23	7.87	24.74
September 2015					
October 2015					
November 2015					
December 2015					

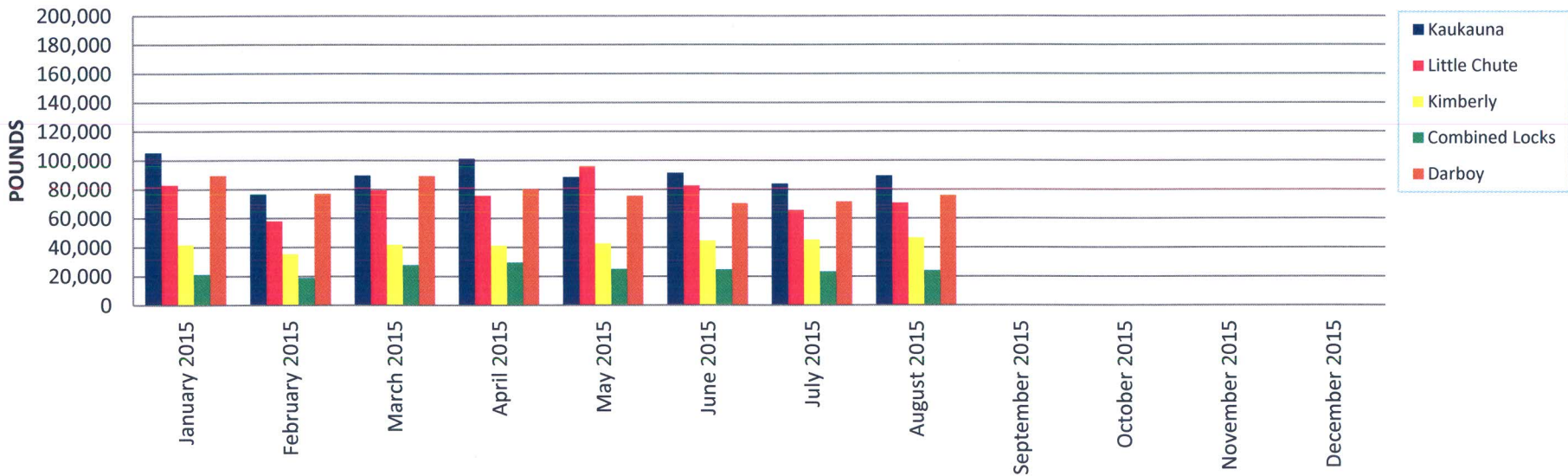
POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	105,347	83,157	41,863	21,340	89,675
February 2015	76,755	58,404	35,592	18,894	77,228
March 2015	89,678	79,679	42,173	27,928	89,401
April 2015	101,321	75,850	41,600	29,752	80,330
May 2015	88,534	96,099	42,893	25,118	75,744
June 2015	91,319	82,747	44,784	24,629	70,566
July 2015	83,931	66,076	45,581	23,331	71,783
August 2015	89,549	71,009	46,891	24,210	76,156
September 2015					
October 2015					
November 2015					
December 2015					

TSS PERCENT CONTRIBUTED BY COMMUNITY



TSS POUNDS CONTRIBUTED BY COMMUNITY



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

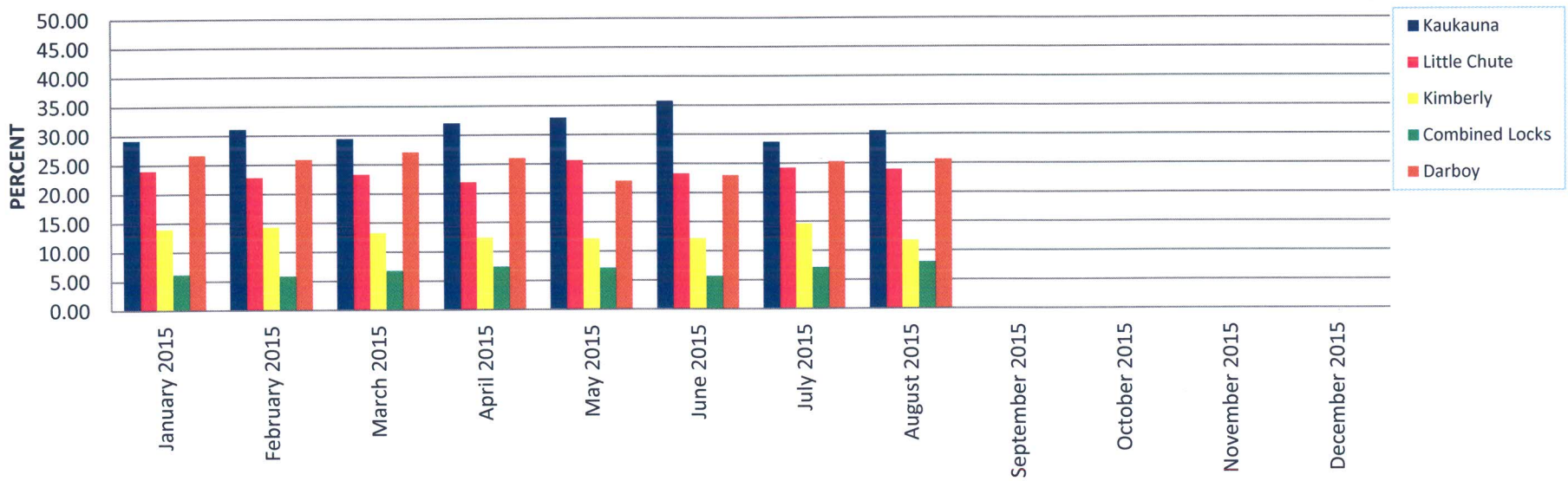
% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	29.18	24.02	13.95	6.16	26.69
February 2015	31.10	22.85	14.28	5.87	25.90
March 2015	29.42	23.35	13.28	6.78	27.16
April 2015	32.07	21.98	12.45	7.44	26.06
May 2015	32.91	25.66	12.19	7.14	22.10
June 2015	35.76	23.34	12.22	5.70	22.98
July 2015	28.70	24.23	14.65	7.13	25.29
August 2015	30.56	23.93	11.83	8.02	25.66
September 2015					
October 2015					
November 2015					
December 2015					

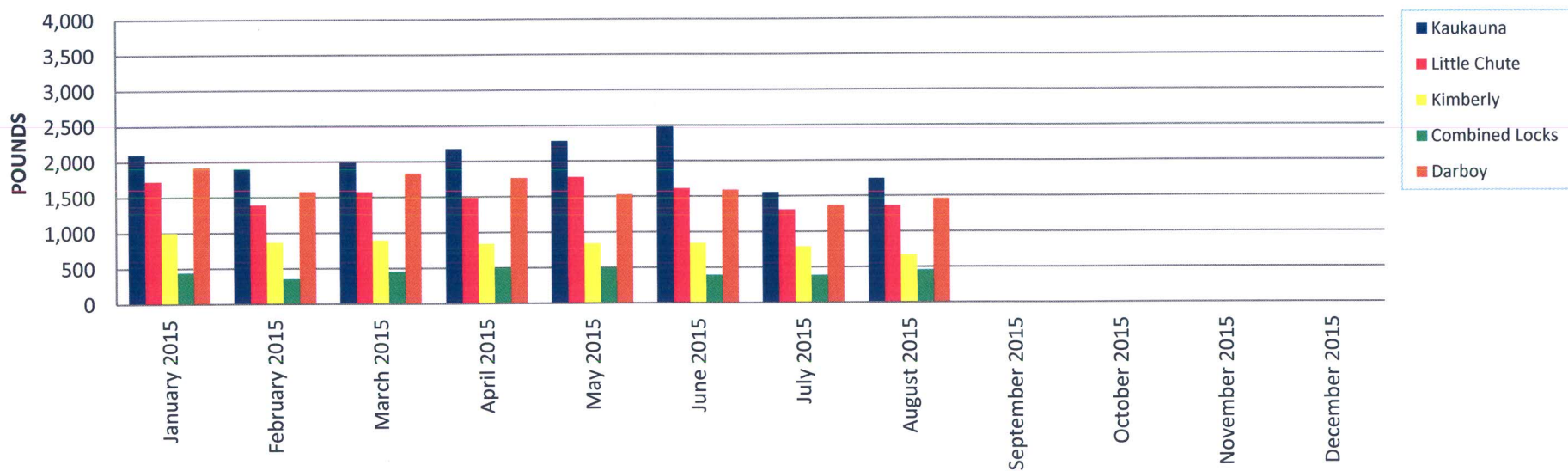
POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	2,102	1,730	1,004	443	1,922
February 2015	1,900	1,396	873	359	1,583
March 2015	1,991	1,580	899	459	1,838
April 2015	2,176	1,492	845	504	1,768
May 2015	2,282	1,780	845	495	1,532
June 2015	2,481	1,619	848	395	1,594
July 2015	1,554	1,312	793	386	1,369
August 2015	1,744	1,365	675	458	1,464
September 2015					
October 2015					
November 2015					
December 2015					

PHOSPHORUS PERCENT CONTRIBUTED BY COMMUNITY



PHOSPHORUS POUNDS CONTRIBUTED BY COMMUNITY



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

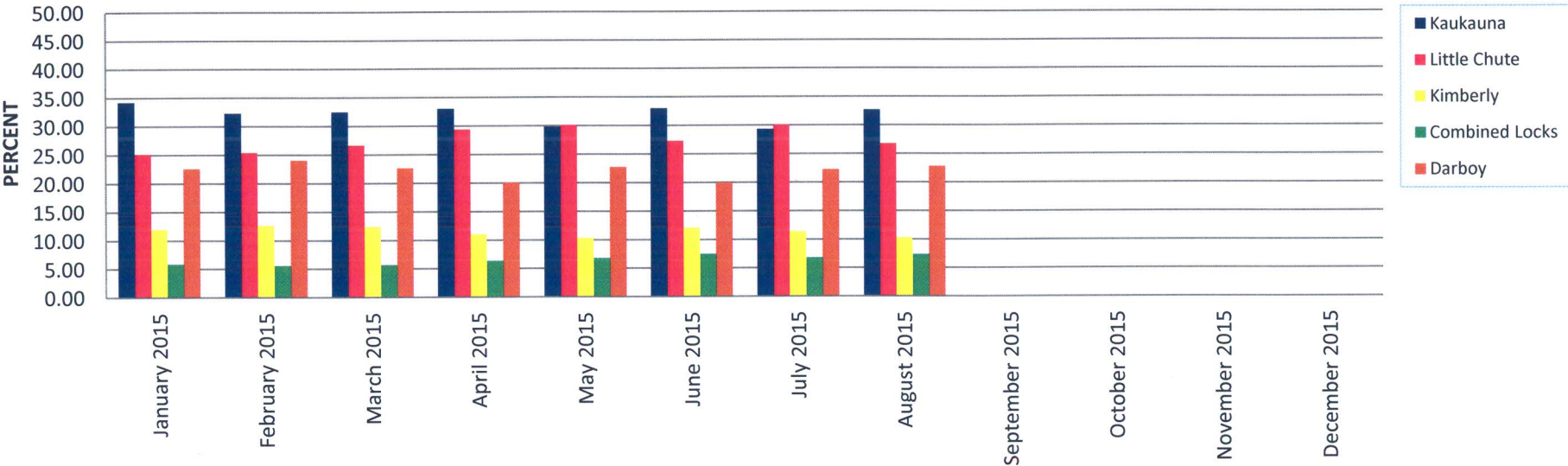
% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	34.22	25.20	12.03	5.91	22.64
February 2015	32.29	25.42	12.64	5.59	24.06
March 2015	32.50	26.70	12.42	5.69	22.69
April 2015	33.04	29.42	11.07	6.38	20.09
May 2015	29.87	30.17	10.37	6.82	22.76
June 2015	33.02	27.34	12.10	7.51	20.03
July 2015	29.31	30.12	11.42	6.84	22.30
August 2015	32.70	26.81	10.31	7.37	22.81
September 2015					
October 2015					
November 2015					
December 2015					

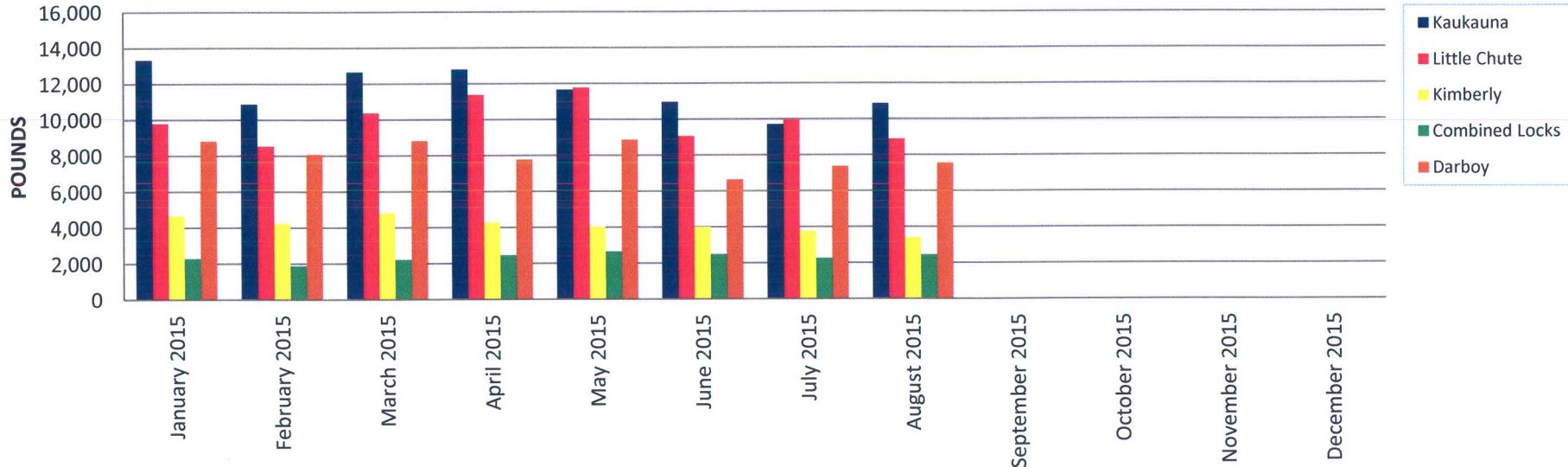
POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	13,335	9,820	4,686	2,303	8,824
February 2015	10,867	8,554	4,254	1,883	8,097
March 2015	12,654	10,396	4,837	2,215	8,834
April 2015	12,796	11,394	4,287	2,470	7,781
May 2015	11,660	11,777	4,049	2,663	8,882
June 2015	10,967	9,078	4,018	2,493	6,652
July 2015	9,712	9,982	3,785	2,268	7,388
August 2015	10,862	8,906	3,424	2,449	7,576
September 2015					
October 2015					
November 2015					
December 2015					

AMMONIA PERCENT CONTRIBUTED BY COMMUNITY



AMMONIA POUNDS CONTRIBUTED BY COMMUNITY



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

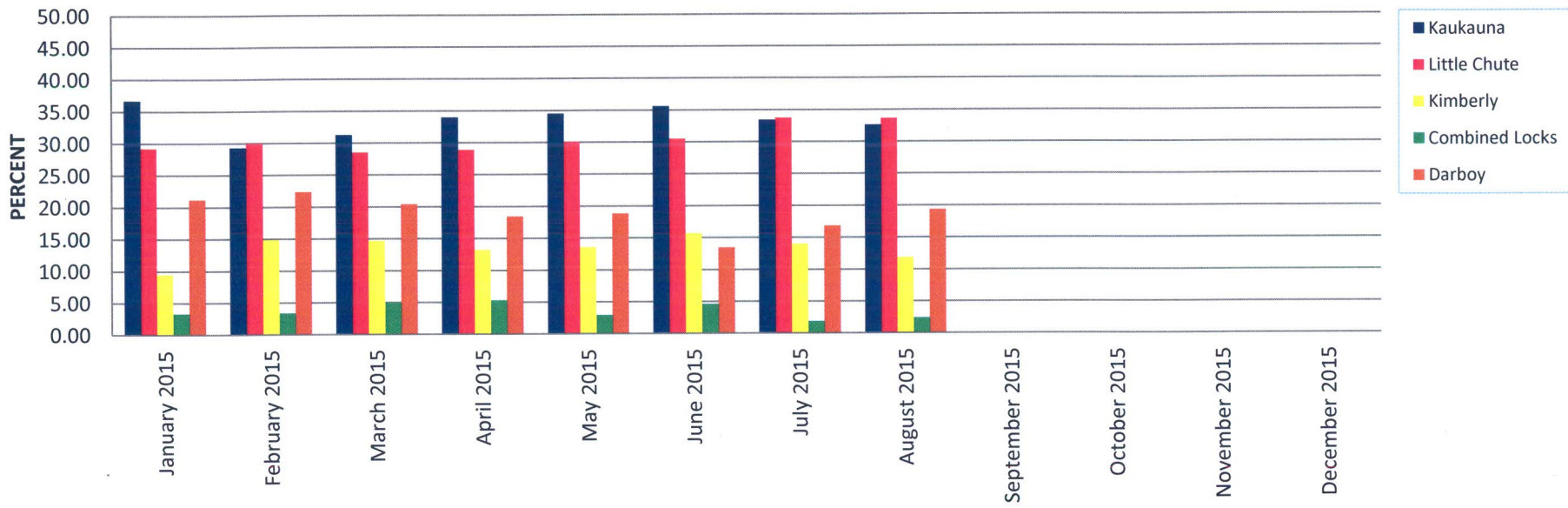
% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	36.70	29.27	9.48	3.34	21.21
February 2015	29.31	30.03	14.88	3.38	22.40
March 2015	31.28	28.56	14.72	5.00	20.44
April 2015	33.99	28.92	13.27	5.36	18.46
May 2015	34.52	30.08	13.61	2.93	18.86
June 2015	35.61	30.55	15.73	4.61	13.49
July 2015	33.41	33.78	14.04	1.89	16.88
August 2015	32.65	33.67	11.89	2.43	19.36
September 2015					
October 2015					
November 2015					
December 2015					

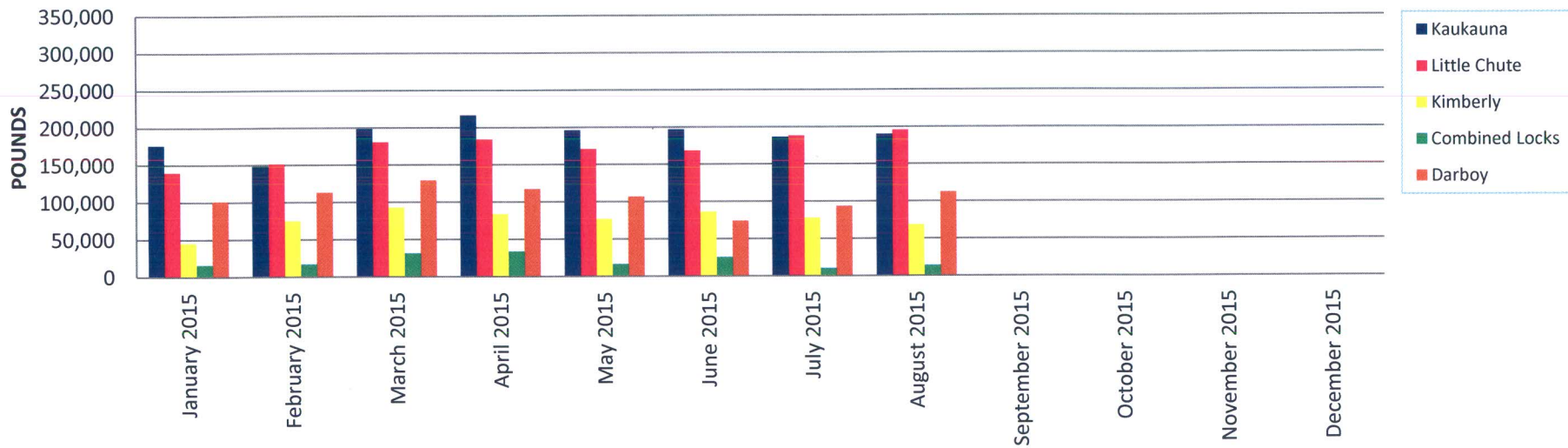
POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<u>Kaukauna</u>	<u>Little Chute</u>	<u>Kimberly</u>	<u>Combined Locks</u>	<u>Darboy</u>
January 2015	176,145	140,515	45,509	16,036	101,795
February 2015	148,537	152,140	75,410	17,124	113,490
March 2015	198,616	181,301	93,436	31,758	129,781
April 2015	216,672	184,335	84,556	34,174	117,648
May 2015	196,234	171,005	77,372	16,677	107,253
June 2015	196,687	168,749	86,898	25,490	74,525
July 2015	186,428	188,464	78,367	10,562	94,166
August 2015	190,236	196,222	69,295	14,172	112,811
September 2015					
October 2015					
November 2015					
December 2015					

CHLORIDE PERCENT CONTRIBUTED BY COMMUNITY



CHLORIDE POUNDS CONTRIBUTED BY COMMUNITY

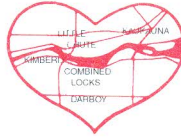


DISTRICT MANAGER:

Glen H. Geurts

SERVING:

Combined Locks
 Kaukauna
 Kimberly
 Little Chute
 Darboy S.D.

**COMMISSIONERS:**

David J. Casper, President
 Stephen D. Giebel, Vice-Pres.
 Bruce M. Siebers, Secretary
 Kevin P. Coffey
 Patrick E. Hennessey

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:** August**Year:** 2015**Gallons of Final Effluent Purchased (Billing)**

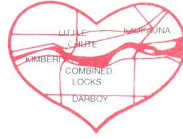
<u>Date</u>	<u>Gallons</u>	<u>Date</u>	<u>Gallons</u>
8/1/2015	3,082,000	8/21/2015	0
8/2/2015	3,367,000	8/22/2015	0
8/3/2015	3,399,000	8/23/2015	751,000
8/4/2015	3,475,000	8/24/2015	2,097,000
8/5/2015	3,522,000	8/25/2015	2,270,000
8/6/2015	3,462,000	8/26/2015	1,701,000
8/7/2015	3,430,000	8/27/2015	1,754,000
8/8/2015	2,960,000	8/28/2015	2,115,000
8/9/2015	2,958,000	8/29/2015	268,000
8/10/2015	2,962,000	8/30/2015	771,000
8/11/2015	2,965,000	8/31/2015	3,401,000
8/12/2015	2,963,000		
8/13/2015	3,855,000		
8/14/2015	3,552,000		
8/15/2015	3,542,000		
8/16/2015	3,106,000		
8/17/2015	3,194,000		
8/18/2015	2,965,000		
8/19/2015	1,838,000		
8/20/2015	317,000		
		Total:	76,042,000

DISTRICT MANAGER:

Glen H. Geurts

SERVING:

Combined Locks
Kaukauna
Kimberly
Little Chute
Darboy S.D.



COMMISSIONERS:

David J. Casper, President
Stephen D. Giebel, Vice-Pres.
Bruce M. Siebers, Secretary
Kevin P. Coffey
Patrick E. Hennessey

**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

MONTHLY BILLING

Month: August

Year: 2015

GALLONS PURCHASED: 76,042,000

BILLING RATE: \$0.1532880 PER 1000 GALLONS

TOTAL AMOUNT DUE: \$11,656.33

**Heart of the Valley
Metropolitan Sewerage District**

**Fox Energy Revenue
From the Sale of Final Effluent**

2015

Final Effluent Sent to Fox Energy Facility

Gallons: 536,109,000

Charge Per 1000 Gallons: \$0.1532880 Per 1000 Gallons

Sale of Final Effluent (Revenue Collected): \$82,179.08