

FLOW AND STRENGTH PROJECTIONS

MONTH: April 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)	274,643,973	175,605,800	-99,038,173	\$ 199,116.88	\$ 127,314.21	\$ (71,802.68)
B.O.D. (#s)	330,194	277,649	-52,545	\$ 78,916.37	\$ 66,358.11	\$ (12,558.26)
S. SOLIDS (#s)	535,472	328,853	-206,619	\$ 105,487.98	\$ 64,784.04	\$ (40,703.94)
PHOSPHORUS (#s)	9,229	6,784	-2,445	\$ 48,424.56	\$ 35,595.65	\$ (12,828.92)
AMMONIA-N (#s)	37,705	38,728	1,023	\$ 61,647.68	\$ 63,320.28	\$ 1,672.61
CHLORIDES (#s)	741,299	637,385	-103,914	\$ 3,706.50	\$ 3,186.93	\$ (519.57)
			TOTAL:	\$ 497,299.96	\$ 360,559.21	\$ (136,740.75)

(THRU APRIL 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	-239,165,440	\$ (173,394.94)
B.O.D. (#s)	3,436,567	-236,926	\$ (56,625.20)
S. SOLIDS (#s)	5,046,098	-580,998	\$ (114,456.56)
PHOSPHORUS (#s)	96,019	-8,039	\$ (42,180.37)
AMMONIA-N (#s)	398,962	8,941	\$ 14,618.98
CHLORIDES (#s)	7,094,286	-454,889	\$ (2,274.44)
		TOTAL:	\$ (374,312.54)

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

MONTH: APRIL 2015

HYDRAULIC AND ORGANIC LOADINGS DATA

INFLUENT

TOTAL FLOW TO PLANT: 182,911,000 GALLONS
AVERAGE B.O.D. : 176 mg/L
AVERAGE SUSPENDED SOLIDS : 184 mg/L
AVERAGE PHOSPHORUS : 4.55 mg/L
AVERAGE AMMONIA-N : 25.11 mg/L
AVERAGE CHLORIDES : 492.31 mg/L

MAXIMUM DAILY FLOW TO PLANT:
11,230,000 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	38.45	28.28	30.81	32.07	33.04	33.99
LITTLE CHUTE	25.32	24.87	23.06	21.98	29.42	28.92
KIMBERLY	13.38	14.03	12.65	12.45	11.07	13.27
COMBINED LOCKS	6.23	8.32	9.05	7.44	6.38	5.36
DARBOY	16.63	24.49	24.43	26.06	20.09	18.46

AVERAGE DAILY INFLUENT LOADINGS

FLOW : 6,097,033 GALLONS
B.O.D. : 8,929 POUNDS
SUSPENDED SOLIDS : 9,343 POUNDS
PHOSPHORUS : 231 POUNDS
AMMONIA-N : 1,277 POUNDS
CHLORIDES : 25,033 POUNDS

%

51.2

60.9

57.4

56.8

66.5

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. : 5.64 mg/L
SUSPENDED SOLIDS : 9.20 mg/L
PHOSPHORUS : 0.29 mg/L
AMMONIA-N : 0.26 mg/L
CHLORIDES : 520.00 mg/L

%

22.5

30.7

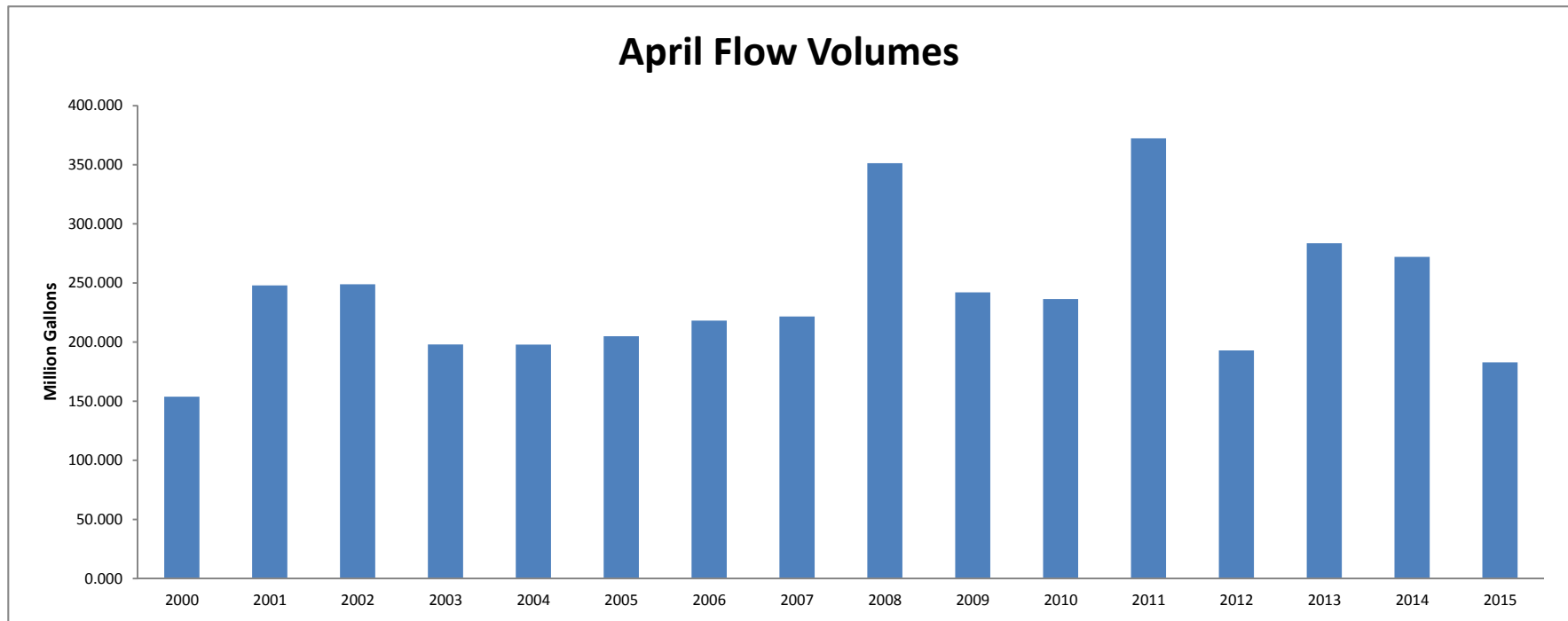
28.6

PERMIT LIMIT

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

HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

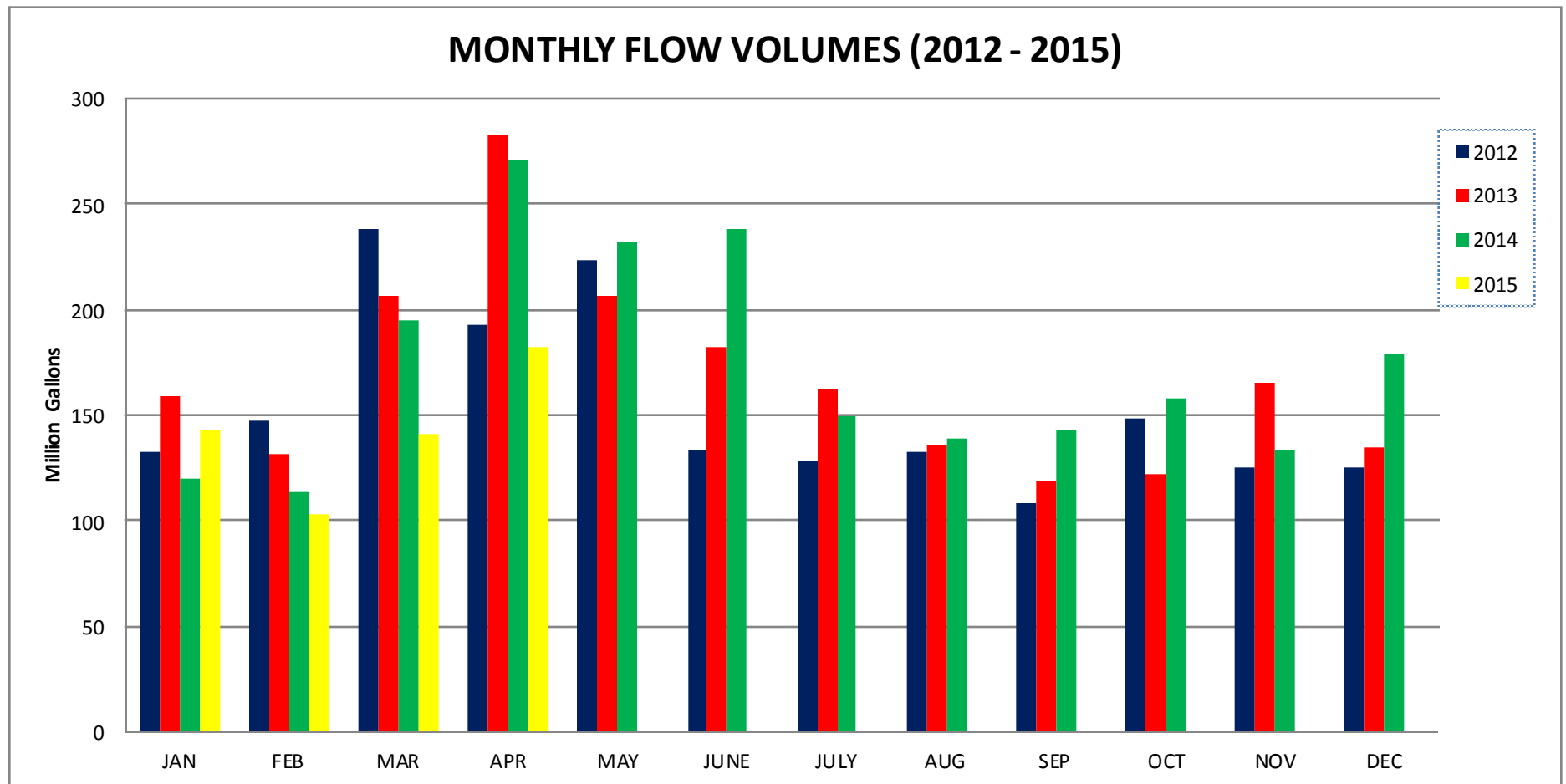
<u>Year</u>	<u>April Flow</u> <u>Million Gallons</u>	<u>Precipitation</u> <u>Inches</u>
2000	153.780	0.96
2001	247.966	3.31
2002	248.941	4.85
2003	197.957	1.33
2004	197.883	0.96
2005	204.980	1.25
2006	218.161	1.64
2007	221.613	1.06
2008	351.266	3.81
2009	242.120	1.86
2010	236.390	3.03
2011	372.277	4.39
2012	192.940	2.14
2013	283.615	3.19
2014	272.038	4.08
2015	182.911	1.91



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								

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



HEART OF THE VALLEY METROPOLITAN SEWERAGE DISTRICT

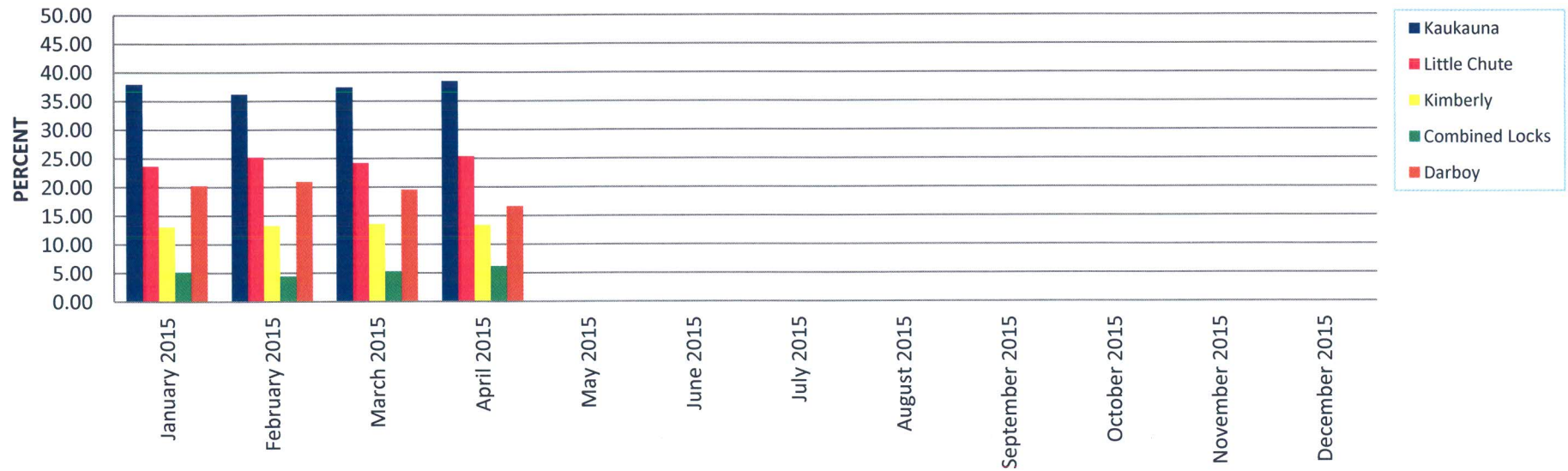
% CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<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						
June 2015						
July 2015						
August 2015						
September 2015						
October 2015						
November 2015						
December 2015						

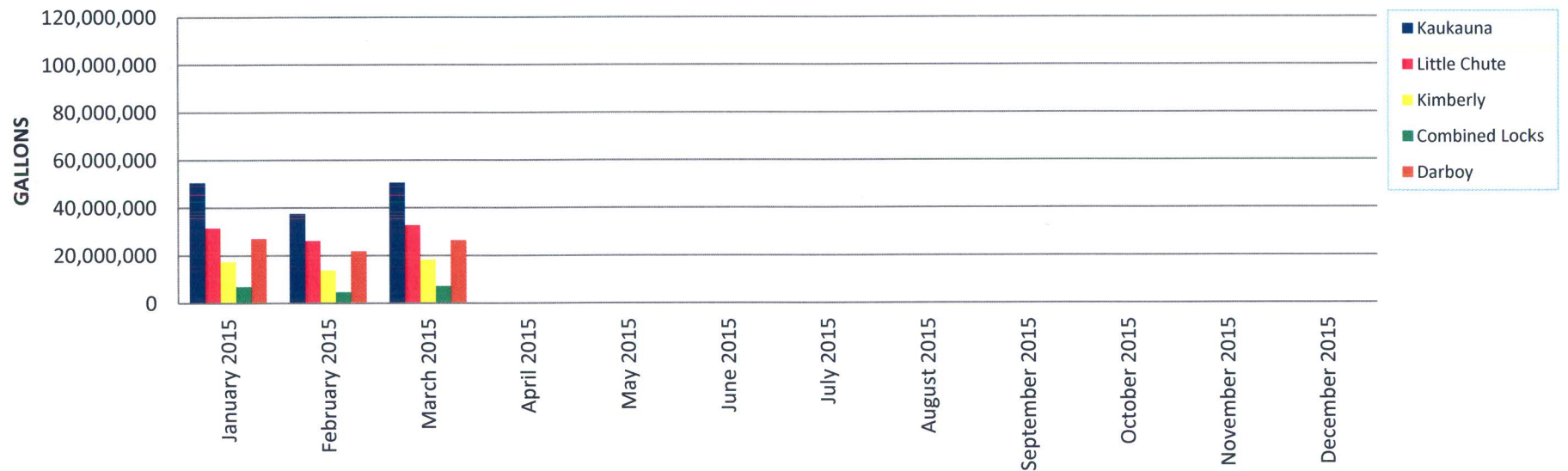
GALLONS CONTRIBUTION BY COMMUNITY - FLOW GALLONS

	<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					
May 2015					
June 2015					
July 2015					
August 2015					
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

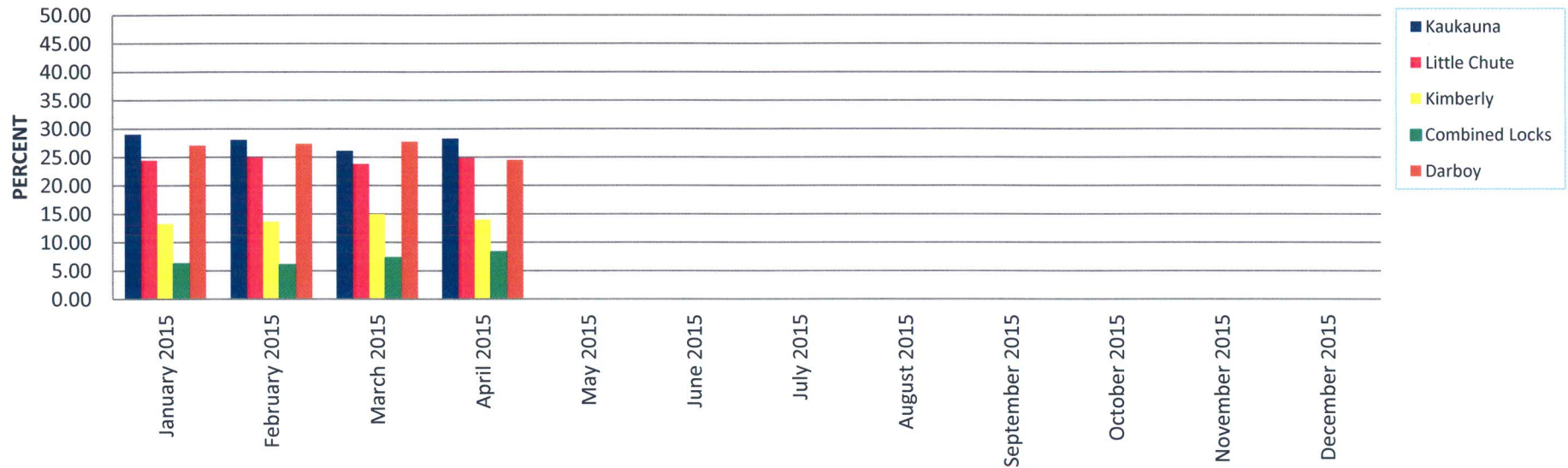
% CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<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					
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October 2015					
November 2015					
December 2015					

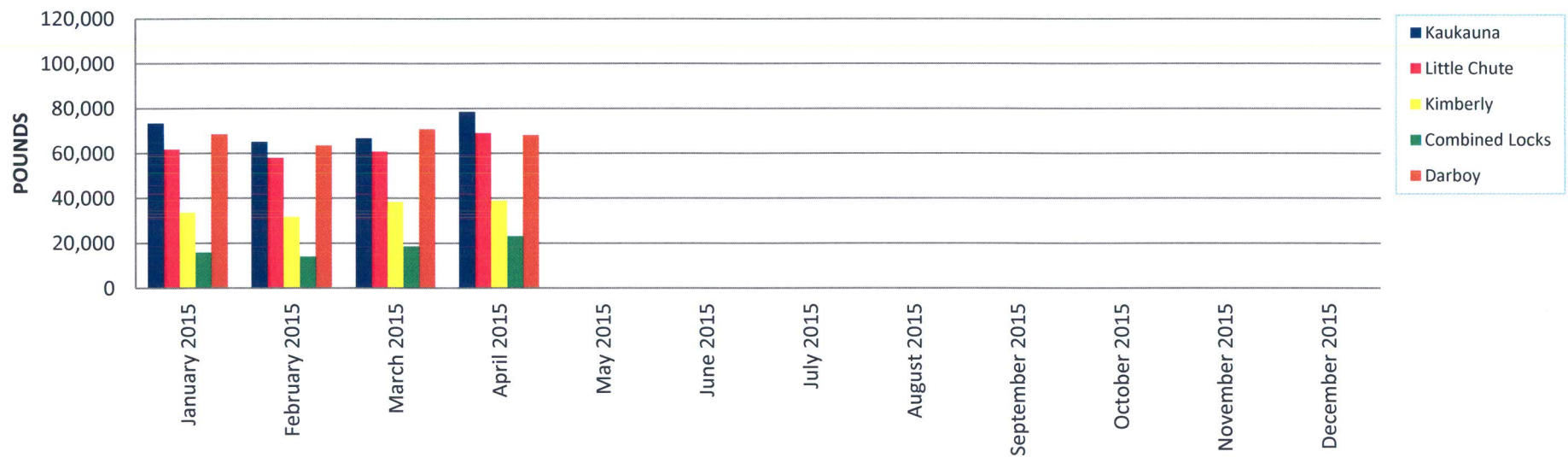
POUNDS CONTRIBUTION BY COMMUNITY - B.O.D. POUNDS

	<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					
June 2015					
July 2015					
August 2015					
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

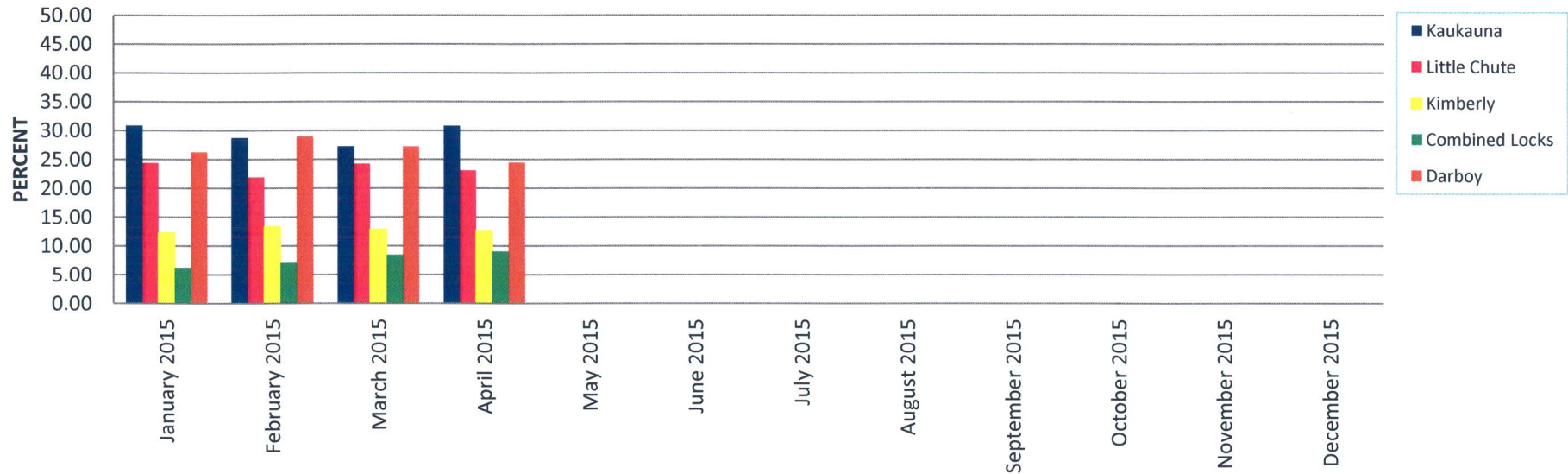
% CONTRIBUTION BY COMMUNITY -TOTAL SUSPENDED SOLIDS POUNDS

	<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					
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December 2015					

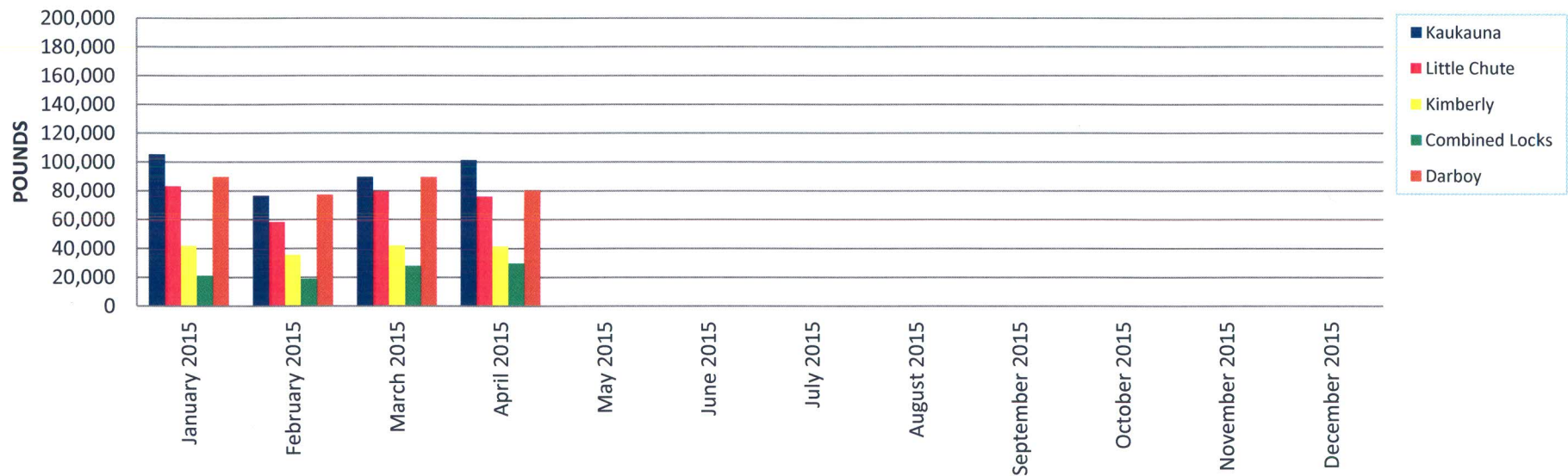
POUNDS CONTRIBUTION BY COMMUNITY - TOTAL SUSPENDED SOLIDS POUNDS

	<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					
June 2015					
July 2015					
August 2015					
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

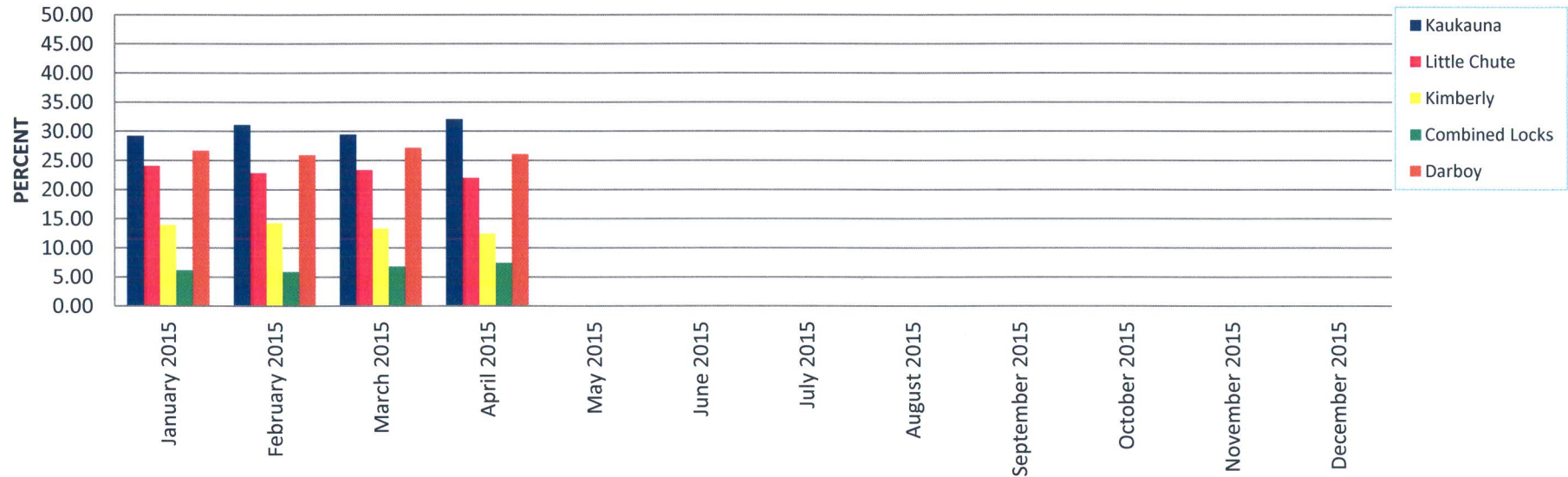
% CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<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					
June 2015					
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September 2015					
October 2015					
November 2015					
December 2015					

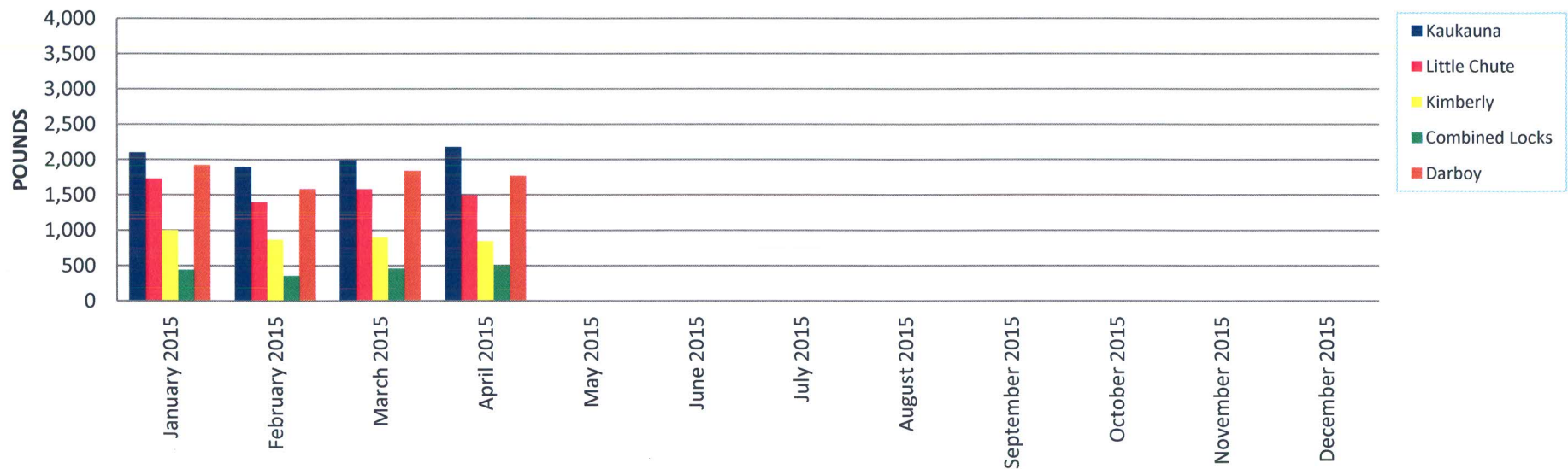
POUNDS CONTRIBUTION BY COMMUNITY - PHOSPHORUS POUNDS

	<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					
June 2015					
July 2015					
August 2015					
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

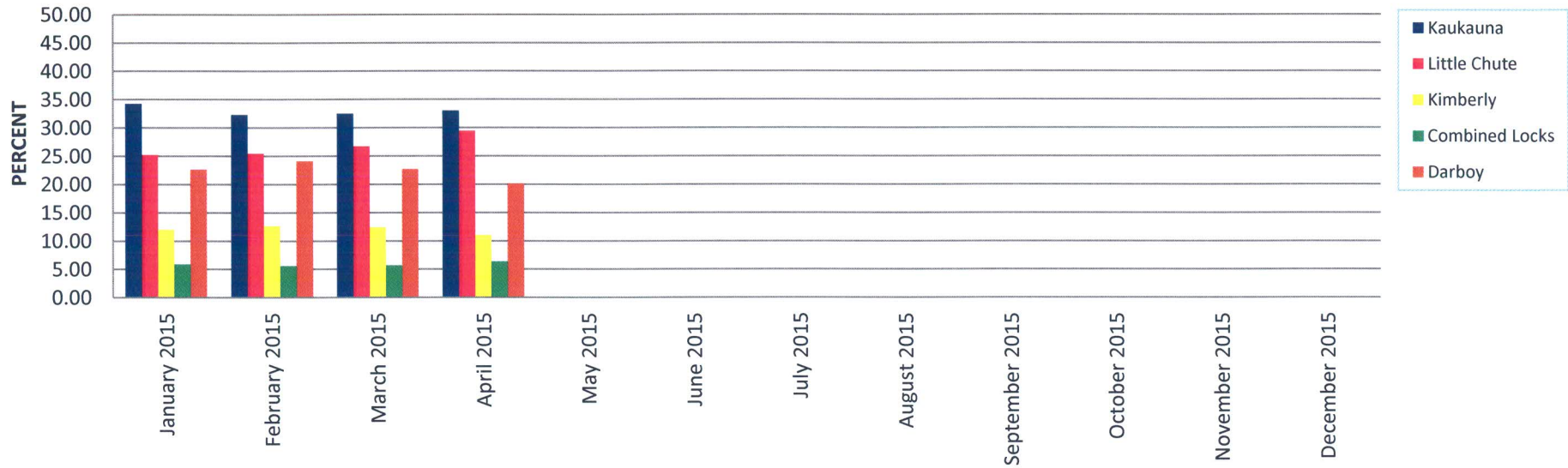
% CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<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					
June 2015					
July 2015					
August 2015					
September 2015					
October 2015					
November 2015					
December 2015					

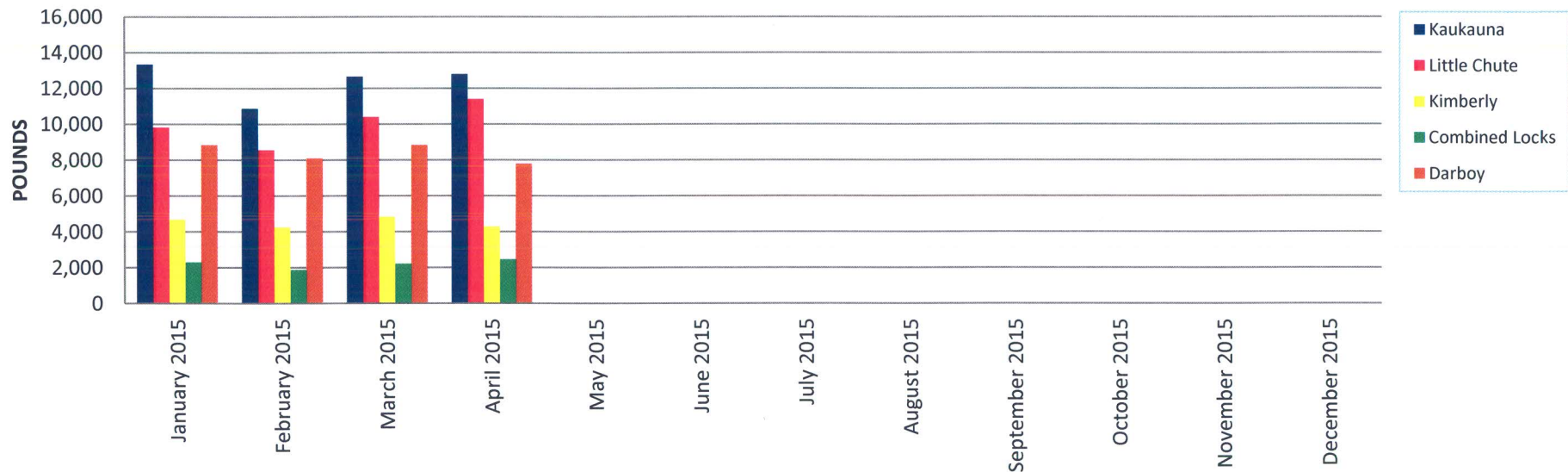
POUNDS CONTRIBUTION BY COMMUNITY - AMMONIA POUNDS

	<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					
June 2015					
July 2015					
August 2015					
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

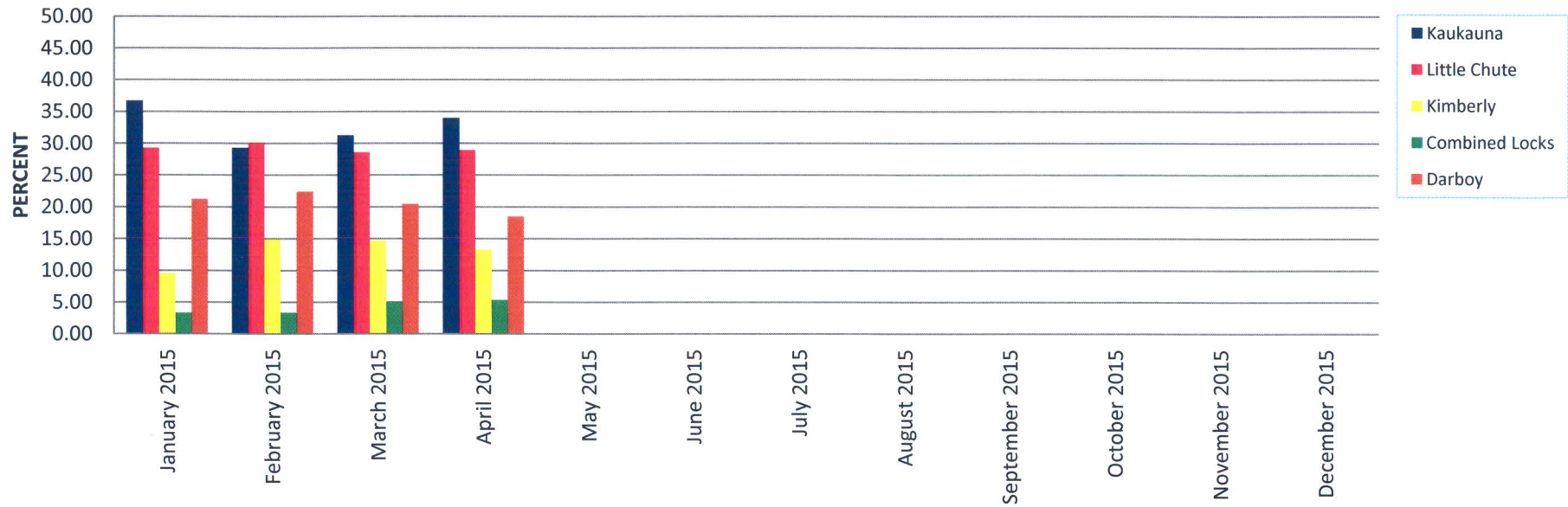
% CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<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					
June 2015					
July 2015					
August 2015					
September 2015					
October 2015					
November 2015					
December 2015					

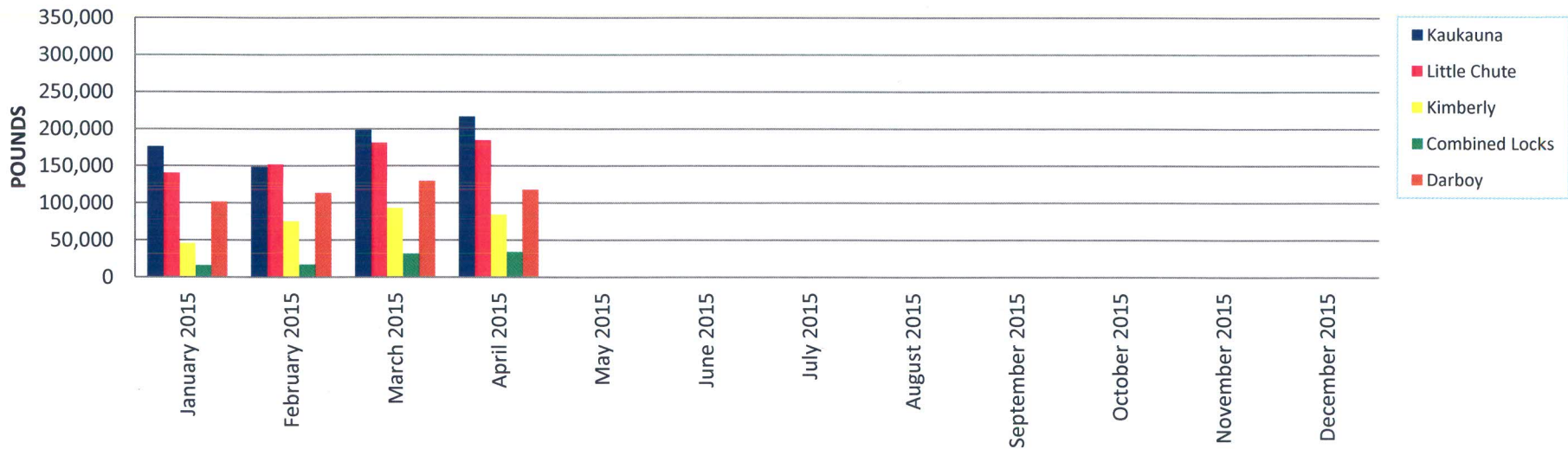
POUNDS CONTRIBUTION BY COMMUNITY - CHLORIDE POUNDS

	<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					
June 2015					
July 2015					
August 2015					
September 2015					
October 2015					
November 2015					
December 2015					

CHLORIDE PERCENT CONTRIBUTED BY COMMUNITY



CHLORIDE POUNDS CONTRIBUTED BY COMMUNITY

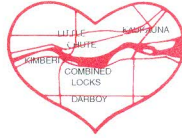


DISTRICT MANAGER:

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

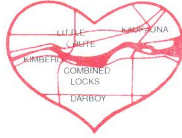
<u>Date</u>	<u>Gallons</u>	<u>Date</u>	<u>Gallons</u>
4/1/2015	3,091,000	4/21/2015	3,355,000
4/2/2015	3,054,000	4/22/2015	2,490,000
4/3/2015	1,550,000	4/23/2015	2,827,000
4/4/2015	2,726,000	4/24/2015	2,687,000
4/5/2015	2,978,000	4/25/2015	2,987,000
4/6/2015	2,590,000	4/26/2015	2,974,000
4/7/2015	2,374,000	4/27/2015	2,991,000
4/8/2015	2,370,000	4/28/2015	2,982,000
4/9/2015	2,794,000	4/29/2015	2,988,000
4/10/2015	2,483,000	4/30/2015	2,455,000
4/11/2015	2,473,000		
4/12/2015	1,542,000		
4/13/2015	2,945,000		
4/14/2015	2,972,000	Total:	80,305,000
4/15/2015	2,970,000		
4/16/2015	2,969,000		
4/17/2015	2,967,000		
4/18/2015	2,588,000		
4/19/2015	1,792,000		
4/20/2015	2,341,000		

DISTRICT MANAGER:

Glen H. Geurts

SERVING:

Combined Locks
Kaukauna
Kimberly
Little Chute
Darboy S.D.

**COMMISSIONERS:**

David J. Casper, President
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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: April

Year: 2015

GALLONS PURCHASED: 80,305,000

BILLING RATE: \$0.1532880 PER 1000 GALLONS

TOTAL AMOUNT DUE: \$12,309.79

**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: 247,660,000

Charge Per 1000 Gallons: \$0.1532880 Per 1000 Gallons

Sale of Final Effluent (Revenue Collected): \$37,963.31