

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF THE VALLEY METRO SEWERAGE DISTRICT
Contact Address: 801 Thilmany Rd
Kaukauna, WI 54130
Facility Contact: Brian Helminger, District Director
Phone Number: 920-766-5731
Reporting Period: 08/01/2025 - 08/31/2025
Form Due Date: 09/21/2025
Permit Number: 0031232

Date Received:	
DOC:	577224
FIN:	6375
FID:	445005220
Region:	Northeast Region
Permit Drafter:	Jennifer K Jerich
Reviewer:	Barti Oumarou
Office:	Oshkosh

Sample Point(s) active?

Yes	- 701 sample point (Influent)
Yes	- 001 sample point (Effluent)
Yes	- 101 sample point (Effluent Reuse)
Yes	- 601 sample point (River Monitoring)
Yes	- 006 sample point (WLA BOD5 Discharge Compliance)
No	- 112 sample point (In-Plant Diversion)

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	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	211	211	66	457	87
	Description	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	Units	MGD	MGD	mg/L	mg/L	ug/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	5/WEEK	5/WEEK	MONTHLY
Sample Results	Day 1	1.801	5.771	212	216	
	2	1.623	5.272	182	184	
	3	1.964	5.339	230	204	
	4	1.788	5.648	250	272	
	5	1.886	5.709	234	288	<0.6
	6	2.074	5.890	234	216	
	7	2.231	5.896	234	212	
	8	1.728	5.778	243	168	
	9	2.237	5.816	208	168	
	10	2.350	6.065	210	180	
	11	2.594	6.439	176	172	
	12	2.488	6.289	202	176	
	13	2.100	6.160	222	204	
	14	2.317	6.104	219	196	
	15	1.953	5.925	210	208	
	16	3.260	6.727	178	172	
	17	3.250	6.821	224	128	
	18	3.968	7.402	188	220	
	19	3.695	7.318	176	156	
	20	3.265	7.000	188	184	
	21	3.092	6.633	196	200	
	22	3.092	6.757	224	240	
	23	2.728	6.116	184	176	
	24	3.039	6.080	204	204	
	25	2.525	6.045	268	200	
	26	2.351	5.859	235	212	
	27	2.369	5.767	250	228	
	28	2.676	6.177	222	232	
	29	3.185	5.955	244	208	
	30	1.835	5.256	194	256	
	31	1.893	5.289	198	184	

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	Influent	Influent	Influent
	Parameter	211	211	66	457	87
	Description	Flow Rate	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable
	Units	MGD	MGD	mg/L	mg/L	ug/L
Summary Values	Monthly Avg	2.495387097	6.106548387	214.161290323	202.064516129	0
	Daily Max	3.968	7.402	268	288	<0.6
	Daily Max - Variable					
	Daily Min	1.623	5.256	176	128	<0.6
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD					0.6
	LOQ					2
	QC Exceedance	N	N	N	N	N
	Lab Certification			445005220	445005220	445023150

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	133	147	264	315	553
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3					
	4					
	5	6.1	77	7.0	13	234
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					
	25					
	26					
	27					
	28					
	29					
	30					
	31					

	Sample Point	701		701		701		701		701	
	Description	Influent		Influent		Influent		Influent		Influent	
	Parameter	133		147		264		315		553	
	Description	Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable	
	Units	ug/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	6.1		77		7		13		234	
	Daily Max	6.1		77		7		13		234	
	Daily Max - Variable										
	Daily Min	6.1		77		7		13		234	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Geometric Mean -										
	Weekly Avg										
QA/QC Information	LOD	2.6		1.6		7		0.003		8.6	
	LOQ	8.7		5.3		23		0.01		29	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445023150		445023150		445023150		445023150		445023150	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	66	377	204	112	457
	Description	BOD5, Total	pH Field	Fecal Coliform	Chlorine, Total Residual	Suspended Solids, Total
	Units	mg/L	su	#/100ml	ug/L	mg/L
	Sample Type	24 HR FLOW PROP	GRAB	GRAB	GRAB	24 HR FLOW PROP
	Frequency	DAILY	5/WEEK	WEEKLY	5/WEEK	5/WEEK
Sample Results	Day 1	5	7.5		<100	4.2
	2	5	7.8			4.8
	3	6	7.8			5.2
	4	6	7.7		<100	5.2
	5	6	7.8	15	<100	6.4
	6	8	7.7		<100	8.6
	7	7	7.8		<100	8.8
	8	6	7.7		<100	5.0
	9	7	7.5			3.8
	10	7	7.5			3.6
	11	5	7.6	120	<100	5.5
	12	7	7.7		<100	9.6
	13	8	7.7		<100	7.6
	14	6	7.9		<100	7.6
	15	7	7.6		<100	4.8
	16	9	7.8			3.6
	17	8	7.8			4.8
	18	7	7.7	0	<100	6.2
	19	7	8.0		<100	6.2
	20	9	7.6		<100	10.8
	21	9	7.6		<100	18.4
	22	12	8.2		<100	16.2
	23	12	8.2			19.2
	24	10	7.8			19.2
	25	5	7.8		<100	9.0
	26	5	7.9	0	<100	11.0
	27	11	7.7		<100	8.0
	28	10	7.8		<100	7.5
	29	9	7.8		<100	3.6
	30	8	7.8			5.6
	31	8	7.8			4.0

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	66		377		204		112		457	
	Description	BOD5, Total		pH Field		Fecal Coliform		Chlorine, Total Residual		Suspended Solids, Total	
	Units	mg/L		su		#/100ml		ug/L		mg/L	
Summary Values	Monthly Avg	7.580645161		7.761290323		33.75		0		7.870967742	
	Daily Max	12		8.2		120		<100		19.2	
	Daily Max - Variable										
	Daily Min	5		7.5		0		<100		3.6	
	Geometric Mean -					6.513555624					
	Geometric Mean -					1					
	Week 1 Avg	6.142857143								6.171428571	
	Week 2 Avg	6.571428571								6.1	
	Week 3 Avg	8								7.828571429	
	Week 4 Avg	9.285714286								12.871428571	
Limit(s) in Effect	Monthly Avg	30	0					38	0	30	0
	Daily Max			9	0			38	0		
	Daily Max - Variable										
	Daily Min			6	0						
	Geometric Mean -					400	0				
	Geometric Mean -					656	0				
	Weekly Avg	45	0							45	0
QA/QC Information	LOD							100			
	LOQ							100			
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220								445005220	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	457	1348	1347	388	388
	Description	Suspended Solids, Total	WQT Credits Used (TSS)	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total
	Units	lbs/day	lbs/month	lbs/day	mg/L	lbs/day
	Sample Type	CALCULATED	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	5/WEEK	MONTHLY	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	63	0	63	0.36	5.41
	2	65	0	65	0.35	4.74
	3	85	0	85	0.35	5.73
	4	78	0	78	0.36	5.37
	5	101	0	101	0.35	5.51
	6	149	0	149	0.44	7.61
	7	164	0	164	0.42	7.81
	8	72	0	72	0.57	8.21
	9	71	0	71	0.54	10.07
	10	71	0	71	0.49	9.60
	11	119	0	119	0.29	6.27
	12	199	0	199		
	13	133	0	133	0.19	7.27
	14	147	0	147	0.17	3.29
	15	78	0	78	0.30	4.89
	16	98	0	98	0.34	9.24
	17	130	0	130	0.29	7.86
	18	205	0	205	0.27	8.94
	19	191	0	191	0.70	21.57
	20	294	0	294	0.31	8.44
	21	474	0	474	0.34	8.77
	22	418	0	418	0.40	10.31
	23	437	0	437	0.44	10.01
	24	487	0	487	0.34	8.62
	25	190	0	190	0.41	8.63
	26	216	0	216	0.29	5.69
	27	158	0	158	0.32	6.32
	28	167	0	167	0.28	6.25
	29	96	0	96	0.37	9.83
	30	86	0	86	0.43	6.58
	31	63	0	63	0.38	6.00

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	457		1348		1347		388		388	
	Description	Suspended Solids, Total		WQT Credits Used (TSS)		WQT Computed Compliance (TSS)		Phosphorus, Total		Phosphorus, Total	
	Units	lbs/day		lbs/month		lbs/day		mg/L		lbs/day	
Summary Values	Monthly Avg	171.129032258		0		171.129032258		0.369666667		7.828	
	Daily Max	487		0		487		0.7		21.57	
	Daily Max - Variable										
	Daily Min	63		0		63		0.17		3.29	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg					100.714285714					
	Week 2 Avg					116					
	Week 3 Avg					210					
	Week 4 Avg					296.142857143					
Limit(s) in Effect	Monthly Avg					801	0	1	0		
	Daily Max										
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Geometric Mean -										
	Weekly Avg					1345	0				
QA/QC Information	LOD							0.026			
	LOQ							0.087			
	QC Exceedance	N		N		N		Y		N	
	Lab Certification							445005220			

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	789	87	133	147	264
	Description	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable
	Units	mg/L	ug/L	ug/L	ug/L	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	5/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1					
	2					
	3	0.2				
	4	0.2				
	5	0.2	0.3	1.3	5.0	3.5
	6	0.2				
	7	0.2				
	8					
	9					
	10	0.2				
	11	0.023				
	12	0.3				
	13	0.2				
	14	0.1				
	15					
	16					
	17	0.1				
	18	0.1				
	19	0.03				
	20	0.1				
	21	0.02				
	22					
	23					
	24	0.3				
	25	0.8				
	26	0.5				
	27	0.6				
	28	0.3				
	29					
	30					
	31	0.1				

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	789		87		133		147		264	
	Description	Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable		Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable	
	Units	mg/L		ug/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0.227285714		0.3		1.3		5		3.5	
	Daily Max	0.8		0.3		1.3		5		3.5	
	Daily Max - Variable										
	Daily Min	0.02		0.3		1.3		5		3.5	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg	0.2									
	Week 2 Avg	0.1646									
	Week 3 Avg	0.07									
	Week 4 Avg	0.5									
Limit(s) in Effect	Monthly Avg	4.4	0								
	Daily Max	17	0								
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Geometric Mean -										
	Weekly Avg	11	0								
QA/QC Information	LOD	0.027		0.3		1.3		0.8		3.5	
	LOQ	0.09		1		4.3		2.7		12	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		445023150		445023150		445023150		445023150	

	Sample Point	001	001	101	601	601
	Description	Effluent	Effluent	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	315	553	671	400	399
	Description	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow
	Units	ug/L	ug/L	MGD	cfs	cfs
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CONTINUOUS	GAUGE STN	CALCULATED
	Frequency	MONTHLY	MONTHLY	DAILY	DAILY	DAILY
Sample Results	Day 1			3.970	3160	4193
	2			3.649	3280	3690
	3			3.375	3240	3385
	4			3.860	2930	3205
	5	9.5	31	3.823	1960	3153
	6			3.816	1950	2853
	7			3.665	2050	2520
	8			4.050	2050	2223
	9			3.579	2100	2003
	10			3.715	2210	2038
	11			3.845	2170	2103
	12			3.801	2150	2133
	13			4.060	2180	2158
	14			3.787	2140	2178
	15			3.972	2140	2160
	16			3.467	2280	2153
	17			3.571	2330	2185
	18			3.434	2280	2223
	19			3.623	3120	2258
	20			3.735	3600	2503
	21			3.541	3750	2833
	22			3.665	3780	3188
	23			3.388	3710	3563
	24			3.041	3640	3710
	25			3.520	3510	3720
	26			3.508	3160	3660
	27			3.398	3030	3505
	28			3.501	2850	3335
	29			2.770	2690	3138
	30			3.421	2750	2933
	31			3.396	2700	2830

	Sample Point	001	001	101	601	601
	Description	Effluent	Effluent	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	315	553	671	400	399
	Description	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow
	Units	ug/L	ug/L	MGD	cfs	cfs
Summary Values	Monthly Avg	9.5	31	3.61116129	2738.387096774	2830.064516129
	Daily Max	9.5	31	4.06	3780	4193
	Daily Max - Variable					
	Daily Min	9.5	31	2.77	1950	2003
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg					
QA/QC Information	LOD	1.3	4.3			
	LOQ	4.3	14			
	QC Exceedance	N	N	N	N	N
	Lab Certification	445023150	445023150			

	Sample Point	601	006	006	006	006
	Description	River Monitoring	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance	WLA BOD5 Discharge Compliance
	Parameter	401	544	12	843	543
	Description	WLA Previous Day River Temp	WLA BOD5 Value	WLA Adjusted Value	WLA BOD5 Discharged	WLA 7 Day Sum Of WLA Values
	Units	degF	lbs/day	lbs/day	lbs/day	lbs/day
	Sample Type	CALCULATED	SEE TABLE	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	78	2617	3611	82	21511
	2	76	2588	3571	67	20530
	3	77	2338	3226	91	19299
	4	78	2057	2839	97	18275
	5	78	2057	2839	100	17963
	6	78	1942	2680	136	16336
	7	78	1587	2190	132	15186
	8	79	1587	2190	89	14156
	9	80	1587	2190	125	13155
	10	80	1587	2190	145	12404
	11	79	1587	2190	110	11934
	12	78	1587	2190	153	11464
	13	78	1587	2190	140	11109
	14	78	1587	2190	124	11109
	15	78	1587	2190	109	11109
	16	79	1587	2190	237	11109
	17	78	1587	2190	207	11109
	18	76	1681	2320	229	11203
	19	75	1856	2561	209	11472
	20	74	1995	2753	247	11880
	21	74	2125	2933	220	12418
	22	74	2338	3226	297	13169
	23	75	2588	3571	275	14170
	24	75	2588	3571	244	15171
	25	72	2865	3954	107	16355
	26	70	2865	3594	94	17364
	27	70	2865	3954	207	18234
	28	70	2586	3569	216	18695
	29	70	2586	3569	249	18943
	30	69	2639	3642	122	18994
	31	69	2639	3642	133	19045

	Sample Point	601		006		006		006		006	
	Description	River Monitoring		WLA BOD5 Discharge Compliance		WLA BOD5 Discharge Compliance		WLA BOD5 Discharge Compliance		WLA BOD5 Discharge Compliance	
	Parameter	401		544		12		843		543	
	Description	WLA Previous Day River Temp		WLA BOD5 Value		WLA Adjusted Value		WLA BOD5 Discharged		WLA 7 Day Sum Of WLA Values	
	Units	degF		lbs/day		lbs/day		lbs/day		lbs/day	
Summary Values	Monthly Avg	75.580645161		2105.548387097		2894.032258065		161.064516129		14995.838709677	
	Daily Max	80		2865		3954		297		21511	
	Daily Max - Variable							297			
	Daily Min	69		1587		2190		67		11109	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Max - Variable							0	0		
	Daily Min										
	Geometric Mean -										
	Geometric Mean -										
	Weekly Avg										
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	006
	Description	WLA BOD5 Discharge Compliance
	Parameter	541
	Description	WLA 7 Day Sum Of BOD5 Discharged
	Units	lbs/day
	Sample Type	CALCULATED
	Frequency	DAILY
Sample Results	Day 1	532
	2	519
	3	533
	4	554
	5	588
	6	643
	7	704
	8	794
	9	770
	10	824
	11	837
	12	890
	13	894
	14	885
	15	905
	16	1017
	17	1079
	18	1199
	19	1255
	20	1362
	21	1458
	22	1646
	23	1684
	24	1720
	25	1598
	26	1483
	27	1444
	28	1440
	29	1393
	30	1240
	31	1129

	Sample Point	006	
	Description	WLA BOD5 Discharge Compliance	
	Parameter	541	
	Description	WLA 7 Day Sum Of BOD5 Discharged	
	Units	lbs/day	
Summary Values	Monthly Avg	1065.129032258	
	Daily Max	1720	
	Daily Max - Variable	1720	
	Daily Min	519	
	Geometric Mean -		
	Geometric Mean -		
	Week 1 Avg		
	Week 2 Avg		
	Week 3 Avg		
	Week 4 Avg		
	Weekly Avg		
Limit(s) in Effect	Monthly Avg		
	Daily Max		
	Daily Max - Variable	0	0
	Daily Min		
	Geometric Mean -		
	Geometric Mean -		
	Weekly Avg		
QA/QC Information	LOD		
	LOQ		
	QC Exceedance	N	
	Lab Certification		

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Laboratory Quality Control Comments

August 11th Final Ammonia was not preserved resulting a missed data point.
August 12th Final Total Phosphorus was not recorded because of an analyst's error within the LIMS system, it was tested but lost the data point.

8-12 TP Blank exceeded the LOD
8-25 TO Blank exceeded the LOD

Submitted by Brian Helminger on 09/15/2025 2:02:31 PM