

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: 09/01/2026 - 09/30/2026
Form Due Date: 10/21/2026
Permit Number: 0031232

Date Received:	
DOC:	604384
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)
No - 112 sample point (BLENDING)

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: 09/01/2026 - 09/30/2026
 Form Due Date: 10/21/2026
 Permit Number: 0031232

Date Received:
 DOC: 604384
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Jennifer K Jerich
 Reviewer: Barti Oumarou
 Office: Oshkosh

	Sample Point	701	001	001	701	001
	Description	Influent	Effluent	Effluent	Influent	Effluent
	Parameter	211	211	66	66	457
	Description	Flow Rate	Flow Rate	BOD5, Total	BOD5, Total	Suspended Solids, Total
	Units	MGD	MGD	mg/L	mg/L	mg/L
	Sample Type	CONTINUOUS	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	5.841	2.425	12.7	250	12.0
	2	6.132	2.182	8.3	240	15.5
	3	5.978	2.301	4.7	209	12.0
	4	21.169	17.889	11.3	125	13.3
	5	10.962	7.475	5.0	82	8.0
	6	8.536	4.941	5.1	122	10.4
	7	8.374	5.287	6.3	168	12.4
	8	7.561	4.290	6.1	193	9.2
	9	7.383	3.937	6.5	210	9.0
	10	7.084	3.284	3.8	214	7.6
	11	6.653	3.211	4.8	228	7.0
	12	6.325	2.939	4.9	202	7.2
	13	6.429	3.372	4.6	208	9.0
	14	7.233	4.029	5.7	154	10.2
	15	15.178	11.367	3.8	75	7.2
	16	10.220	6.872	6.8	133	13.2
	17	9.689	7.009	3.3	129	7.6
	18	9.558	6.385	4.6	123	2.8
	19	14.111	10.765	5.8	86	2.6
	20	13.169	9.939	5.5	130	3.0
	21	10.762	7.456	7.4	192	3.8
	22	9.208	6.619	6.4	211	3.8
	23	8.489	6.101	7.4	253	4.4
	24	7.959	4.325	6.5	173	5.0
	25	7.583	5.376	7.2	179	6.4
	26	7.173	5.481	7.3	151	7.8
	27	7.257	4.197	8.6	246	8.6
	28	6.880	3.343	5.8	144	12.4
	29	6.862	3.951	7.8	172	13.0
	30	7.771	4.631	5.8	187	4.4
	31					

	Sample Point	701		001		001		701		001	
	Description	Influent		Effluent		Effluent		Influent		Effluent	
	Parameter	211		211		66		66		457	
	Description	Flow Rate		Flow Rate		BOD5, Total		BOD5, Total		Suspended Solids, Total	
	Units	MGD		MGD		mg/L		mg/L		mg/L	
Summary Values	Monthly Avg	8.917633333		5.712633333		6.326666667		172.966666667		8.293333333	
	Daily Max	21.169		17.889		12.7		253		15.5	
	Daily Max - Variable										
	Daily Min	5.841		2.182		3.3		75		2.6	
	Geometric Mean -										
	Week 1 Avg					7.628571429				11.942857143	
	Week 2 Avg					5.2				8.457142857	
	Week 3 Avg					5.314285714				5.742857143	
	Week 4 Avg					7.028571429				6.914285714	
	% Exceedance										
Limit(s) in Effect	Monthly Avg					30	0			30	0
	Daily Max										
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Weekly Avg					45	0			45	0
	% Exceedance										
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		Y		Y		N	
	Lab Certification					445005220		445005220		445005220	

	Sample Point	701	701	001	701	001
	Description	Influent	Influent	Effluent	Influent	Effluent
	Parameter	457	87	457	133	457
	Description	Suspended Solids, Total	Cadmium, Total Recoverable	Suspended Solids, Total	Chromium, Total Recoverable	Suspended Solids, Total
	Units	mg/L	ug/L	lbs/day	ug/L	lbs/month
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	CALCULATED
	Frequency	DAILY	MONTHLY	DAILY	MONTHLY	MONTHLY
Sample Results	Day 1	228		243		
	2	284	0.5	282	8.2	
	3	396		230		
	4	152		1980		
	5	136		499		
	6	140		429		
	7	180		547		
	8	188		329		
	9	192		296		
	10	232		208		
	11	180		187		
	12	168		176		
	13	284		253		
	14	244		343		
	15	108		683		
	16	140		757		
	17	120		444		
	18	152		149		
	19	100		233		
	20	132		249		
	21	136		236		
	22	252		210		
	23	188		224		
	24	160		180		
	25	176		287		
	26	164		357		
	27	176		301		
	28	212		346		
	29	180		428		
	30	172		170		11256
	31					

	Sample Point	701		701		001		701		001	
	Description	Influent		Influent		Effluent		Influent		Effluent	
	Parameter	457		87		457		133		457	
	Description	Suspended Solids, Total		Cadmium, Total Recoverable		Suspended Solids, Total		Chromium, Total Recoverable		Suspended Solids, Total	
	Units	mg/L		ug/L		lbs/day		ug/L		lbs/month	
Summary Values	Monthly Avg	185.733333333		0.5		375.2		8.2		11256	
	Daily Max	396		0.5		1980		8.2		11256	
	Daily Max - Variable										
	Daily Min	100		0.5		149		8.2		11256	
	Geometric Mean -										
	Week 1 Avg					601.428571429					
	Week 2 Avg					256					
	Week 3 Avg					393					
	Week 4 Avg					272.142857143					
	% Exceedance										
Limit(s) in Effect	Monthly Avg					700	0				
	Daily Max										
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Weekly Avg					1100	0				
	% Exceedance										
QA/QC Information	LOD			0.3				1.3			
	LOQ			1				4.3			
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		445023150				445023150			

	Sample Point	701	001	701	001	701
	Description	Influent	Effluent	Influent	Effluent	Influent
	Parameter	147	457	264	377	315
	Description	Copper, Total Recoverable	Suspended Solids, Total	Lead, Total Recoverable	pH Field	Nickel, Total Recoverable
	Units	ug/L	lbs/yr	ug/L	su	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	GRAB	24 HR FLOW PROP
	Frequency	MONTHLY	MONTHLY	MONTHLY	DAILY	MONTHLY
Sample Results	Day 1				7.4	
	2	92		6.9	7.7	15
	3				7.7	
	4				7.8	
	5				8.2	
	6				8.1	
	7				8.1	
	8				7.7	
	9				7.8	
	10				7.9	
	11				7.8	
	12				7.8	
	13				7.9	
	14				7.7	
	15				7.7	
	16				7.8	
	17				7.8	
	18				7.8	
	19				8.1	
	20				7.7	
	21				7.8	
	22				7.8	
	23				7.9	
	24				7.8	
	25				7.8	
	26				8.1	
	27				8.0	
	28				7.7	
	29				7.8	
	30		63137		7.7	
	31					

	Sample Point	701	001	701	001	701
	Description	Influent	Effluent	Influent	Effluent	Influent
	Parameter	147	457	264	377	315
	Description	Copper, Total Recoverable	Suspended Solids, Total	Lead, Total Recoverable	pH Field	Nickel, Total Recoverable
	Units	ug/L	lbs/yr	ug/L	su	ug/L
Summary Values	Monthly Avg	92	63137	6.9	7.83	15
	Daily Max	92	63137	6.9	8.2	15
	Daily Max - Variable					
	Daily Min	92	63137	6.9	7.4	15
	Geometric Mean -					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
	% Exceedance					
Limit(s) in Effect	Monthly Avg					
	Daily Max				9	0
	Daily Max - Variable					
	Daily Min				6	0
	Geometric Mean -					
	Weekly Avg					
	% Exceedance					
QA/QC Information	LOD	0.8		3.5		1.3
	LOQ	2.7		12		4.3
	QC Exceedance	N	N	N	N	N
	Lab Certification	445023150		445023150		445023150

	Sample Point	001	701	001	001	001
	Description	Effluent	Influent	Effluent	Effluent	Effluent
	Parameter	391	553	391	112	789
	Description	E. coli	Zinc, Total Recoverable	E. coli	Chlorine, Total Residual	Nitrogen, Ammonia (NH3-N) Total
	Units	#/100ml	ug/L	Percent	ug/L	mg/L
	Sample Type	GRAB	24 HR FLOW PROP	CALCULATED	GRAB	24 HR FLOW PROP
	Frequency	2/WEEK	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	20			<100	0.48
	2		221		<100	0.69
	3	<5			<100	0.45
	4	*			<100	1.432
	5				<100	0.16
	6				<100	0.16
	7				<100	0.37
	8	20			<100	0.27
	9	<5			<100	0.26
	10	<5			<100	0.23
	11				<100	0.27
	12				<100	0.64
	13				<100	0.26
	14				<100	0.59
	15				<100	0.08
	16	<5			<100	0.26
	17	<5			<100	0.14
	18				<100	0.21
	19				<100	0.06
	20				<100	<0.026
	21				<100	0.05
	22	10			<100	0.06
	23	<5			<100	0.07
	24	<5			<100	0.1
	25				<100	0.19
	26				<100	0.15
	27				<100	0.13
	28				<100	0.06
	29				<100	0.21
	30			0.09	<100	0.31
	31					

	Sample Point	001		701		001		001		001	
	Description	Effluent		Influent		Effluent		Effluent		Effluent	
	Parameter	391		553		391		112		789	
	Description	E. coli		Zinc, Total Recoverable		E. coli		Chlorine, Total Residual		Nitrogen, Ammonia (NH3-N) Total	
	Units	#/100ml		ug/L		Percent		ug/L		mg/L	
Summary Values	Monthly Avg	5		221		0.09		0		0.278066667	
	Daily Max	20		221		0.09		<100		1.432	
	Daily Max - Variable										
	Daily Min	<5		221		0.09		<100		<0.026	
	Geometric Mean -	7.071067812									
	Week 1 Avg							0		0.534571429	
	Week 2 Avg							0		0.36	
	Week 3 Avg							0		0.114285714	
	Week 4 Avg							0		0.108571429	
	% Exceedance					0.09					
Limit(s) in Effect	Monthly Avg							38	0	4.4	0
	Daily Max							38	0	17	0
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -	126	0								
	Weekly Avg							38	0	11	0
	% Exceedance					10	0				
QA/QC Information	LOD			4.3				100		0.027	
	LOQ			14				100		0.09	
	QC Exceedance	Y		N		N		N		N	
	Lab Certification			445023150						445005220	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	388	388	388	388	87
	Description	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total	Phosphorus, Total	Cadmium, Total Recoverable
	Units	mg/L	lbs/day	lbs/month	lbs/yr	ug/L
	Sample Type	24 HR FLOW PROP	CALCULATED	CALCULATED	CALCULATED	24 HR FLOW PROP
	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.34	6.88			
	2	0.20	3.64			0.3
	3	0.21	4.03			
	4	0.33	49.68			
	5	0.22	13.72			
	6	0.21	8.65			
	7	0.23	10.14			
	8	0.23	8.23			
	9	0.29	9.52			
	10	0.24	6.57			
	11	0.29	7.77			
	12	0.29	7.11			
	13	0.29	8.16			
	14	0.34	11.42			
	15	0.21	19.91			
	16	0.38	21.78			
	17	0.24	14.03			
	18	0.22	11.72			
	19	0.18	16.16			
	20	0.18	14.92			
	21	0.18	11.19			
	22	0.17	9.38			
	23	0.20	10.18			
	24	0.21	7.57			
	25	0.07	3.14			
	26	0.07	3.20			
	27	0.36	12.60			
	28	0.28	7.81			
	29	0.36	11.86			
	30	0.39	15.06	346	2325	
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	388		388		388		388		87	
	Description	Phosphorus, Total		Phosphorus, Total		Phosphorus, Total		Phosphorus, Total		Cadmium, Total Recoverable	
	Units	mg/L		lbs/day		lbs/month		lbs/yr		ug/L	
Summary Values	Monthly Avg	0.247		11.534333333		346		2325		0.3	
	Daily Max	0.39		49.68		346		2325		0.3	
	Daily Max - Variable										
	Daily Min	0.07		3.14		346		2325		0.3	
	Geometric Mean -										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
	% Exceedance										
Limit(s) in Effect	Monthly Avg	1	0	31.5	0						
	Daily Max										
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Weekly Avg										
	% Exceedance										
QA/QC Information	LOD	0.026								0.3	
	LOQ	0.087								1	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220								445023150	

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	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	<1.3	4.5	<3.5	9.4	21
	3					
	4					
	5					
	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	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	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	0		4.5		0		9.4		21	
	Daily Max	<1.3		4.5		<3.5		9.4		21	
	Daily Max - Variable										
	Daily Min	<1.3		4.5		<3.5		9.4		21	
	Geometric Mean -										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
	% Exceedance										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Max - Variable										
	Daily Min										
	Geometric Mean -										
	Weekly Avg										
	% Exceedance										
QA/QC Information	LOD	1.3		0.8		3.5		1.3		4.3	
	LOQ	4.3		2.7		12		4.3		14	
	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	544	12	843	543	541
	Description	WLA BOD5 Value	WLA Adjusted Value	WLA BOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of BOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
	Sample Type	SEE TABLE	CALCULATED	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	1436	1982	257	10904	999
	2	1436	1982	150	10674	1020
	3	1436	1982	91	10444	1016
	4	1385	1911	1679	10295	2585
	5	1704	2352	312	10465	2782
	6	2261	3120	208	11192	2848
	7	2866	3955	276	12524	2973
	8	3803	5248	217	14891	2933
	9	3803	5248	214	17258	2997
	10	3803	5248	104	19625	3010
	11	3803	5248	128	22043	1459
	12	3803	5248	120	24142	1267
	13	4434	6119	128	26315	1187
	14	4434	6119	193	27883	1103
	15	4434	6119	360	28514	1247
	16	5208	7187	390	29919	1422
	17	5208	7187	192	31324	1510
	18	5208	7187	247	32729	1629
	19	5208	7187	524	34134	2033
	20	5208	7187	454	34908	2359
	21	5208	7187	460	35682	2626
	22	5568	7684	355	36816	2621
	23	5568	7684	378	37176	2609
	24	5568	7684	234	37536	2651
	25	5568	7684	321	37896	2726
	26	5568	7684	331	38256	2533
	27	5208	7187	301	38256	2380
	28	5208	7187	162	38256	2082
	29	5568	7684	257	38256	1984
	30	5568	7684	225	38256	1831
	31					

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	544		12		843		543		541	
	Description	WLA BOD5 Value		WLA Adjusted Value		WLA BOD5 Discharged		WLA 7 Day Sum Of WLA Values		WLA 7 Day Sum Of BOD5 Discharged	
	Units	lbs/day		lbs/day		lbs/day		lbs/day		lbs/day	
Summary Values	Monthly Avg	4182.7		5772.166666667		308.933333333		26552.3		2080.733333333	
	Daily Max	5568		7684		1679		38256		3010	
	Daily Max - Variable					1679				3010	
	Daily Min	1385		1911		91		10295		999	
	Geometric Mean -										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
	% Exceedance										
Limit(s) in Effect	Monthly Avg										
	Daily Max										
	Daily Max - Variable					0	0			0	0
	Daily Min										
	Geometric Mean -										
	Weekly Avg										
	% Exceedance										
QA/QC Information	LOD										
	LOQ										
	QC Exceedance	N		N		N		N		N	
	Lab Certification										

	Sample Point	601	101	601	601
	Description	River Monitoring	Effluent Reuse	River Monitoring	River Monitoring
	Parameter	400	671	399	401
	Description	WLA Previous Day River Flow	Flow Unregulated	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp
	Units	cfs	MGD	cfs	degF
	Sample Type	GAUGE STN	CONTINUOUS	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	2020	3.416	1975	74
	2	1760	3.950	1983	75
	3	2040	3.677	1930	77
	4	5000	3.280	1948	78
	5	5970	3.487	2705	78
	6	6190	3.595	3693	78
	7	6110	3.087	4800	77
	8	6300	3.271	5818	76
	9	6070	3.446	6143	76
	10	6030	3.800	6168	74
	11	6050	3.442	6128	74
	12	6000	3.386	6113	74
	13	5900	3.057	6038	73
	14	5440	3.204	5995	73
	15	6520	3.811	5848	71
	16	6310	3.348	5965	69
	17	6960	2.680	6043	68
	18	6960	3.173	6308	69
	19	7180	3.346	6688	69
	20	7070	3.230	6853	68
	21	6990	3.306	7043	66
	22	6980	2.589	7050	65
	23	6970	2.388	7055	64
	24	6630	3.634	7003	64
	25	6470	2.207	6893	64
	26	6450	1.692	6763	64
	27	6390	3.060	6630	66
	28	6340	3.537	6485	66
	29	6320	2.911	6413	65
	30	5960	3.140	6375	66
	31				

	Sample Point	601		101		601		601	
	Description	River Monitoring		Effluent Reuse		River Monitoring		River Monitoring	
	Parameter	400		671		399		401	
	Description	WLA Previous Day River Flow		Flow Unregulated		WLA Previous 4 Day Avg River Flow		WLA Previous Day River Temp	
	Units	cfs		MGD		cfs		degF	
Summary Values	Monthly Avg	5912.666666667		3.205		5561.7333333333		70.7	
	Daily Max	7180		3.95		7055		78	
	Daily Max - Variable								
	Daily Min	1760		1.692		1930		64	
	Geometric Mean -								
	Week 1 Avg								
	Week 2 Avg								
	Week 3 Avg								
	Week 4 Avg								
	% Exceedance								
	% Exceedance								
Limit(s) in Effect	Monthly Avg								
	Daily Max								
	Daily Max - Variable								
	Daily Min								
	Geometric Mean -								
	Weekly Avg								
	% Exceedance								
QA/QC Information	LOD								
	LOQ								
	QC Exceedance	N		N		N		N	
	Lab Certification								

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

General Remarks

September 4 created an Blending Event at 6:20 am to 11:40 am.

Laboratory Quality Control Comments

BOD Blanks : GGA: 9-3 230

9-1 0.25

9-2 0.59

9-9 1.21

9-12 0.46

9/13 0.5

9/14 0.48

9/19 0.43

9/20 0.33

9/21 0.52

9/23 0.44

9/25 0.26

9/4 Ecoli resulted of TNTC, lowest sample volume was 10 ml and we missed the dilution.

Final effluent sample was not preserved

TP on 9/25 and 9/26.

Submitted by Brian Helminger on 10/13/2026 9:24:20 AM