

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF THE VALLEY METRO SEWERAGE DISTRICT
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 Kaukauna, WI 54130
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 Phone Number: 920-766-5731
 Reporting Period: 05/01/2022 - 05/31/2022
 Form Due Date: 06/21/2022
 Permit Number: 0031232

Date Received:
 DOC: 493649
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Drafter not set
 Reviewer: Barti Oumarou
 Office: Oshkosh

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	7.393	6.902	166	184	
	2	6.817	3.914	282	184	
	3	7.156	3.771	287	152	
	4	6.976	3.763	254	220	<1.3
	5	6.585	3.380	299	212	
	6	6.696	3.927	333	176	
	7	6.320	5.784	172	56	
	8	6.397	5.691	231	260	
	9	6.671	4.823	256	244	
	10	7.011	3.782	316	244	
	11	6.736	2.943	322	220	
	12	6.618	2.701	294	176	
	13	7.046	3.643	305	152	
	14	6.664	6.664	228	164	
	15	6.689	6.688	276	196	
	16	6.478	6.478	342	212	
	17	6.157	6.157	371	208	
	18	6.176	6.176	375	256	
	19	6.815	6.815	381	220	
	20	7.633	7.633	325	156	
	21	6.536	4.291	213	152	
	22	6.519	3.746	232	140	
	23	6.334	3.221	339	208	
	24	6.158	3.322	357	212	
	25	11.240	8.426	269	220	
	26	11.194	8.179	255	136	
	27	8.790	5.283	153	64	
	28	8.078	6.549	145	64	
	29	7.638	6.255	166	44	
	30	7.820	4.886	203	128	
	31	7.159	2.870	292	192	

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	7.177419355	5.11816129	272.225806452	175.870967742	0
	Daily Max	11.24	8.426	381	260	<1.3
	Daily Max - Variable					
	Daily Min	6.157	2.701	145	44	<1.3
	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
	LOQ					5
	QC Exceedance	N	N	N	N	N
	Lab Certification			445005220	445005220	405132750

	Sample Point	701	701	701	001	701
	Description	Influent	Influent	Influent	Effluent	Influent
	Parameter	133	147	264	66	315
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	BOD5, Total	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	mg/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	DAILY	MONTHLY
Sample Results	Day 1				9	
	2				8	
	3				8	
	4	10.6	57.4	<5.9	11	7.7
	5				12	
	6				18	
	7				13	
	8				11	
	9				9	
	10				7	
	11				10	
	12				15	
	13				12	
	14				10	
	15				9	
	16				11	
	17				10	
	18				11	
	19				12	
	20				10	
	21				12	
	22				13	
	23				16	
	24				14	
	25				24	
	26				17	
	27				12	
	28				11	
	29				12	
	30				12	
	31				15	

	Sample Point	701	701	701	001	701
	Description	Influent	Influent	Influent	Effluent	Influent
	Parameter	133	147	264	66	315
	Description	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	BOD5, Total	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	mg/L	ug/L
Summary Values	Monthly Avg	10.6	57.4	0	12.064516129	7.7
	Daily Max	10.6	57.4	<5.9	24	7.7
	Daily Max - Variable					
	Daily Min	10.6	57.4	<5.9	7	7.7
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg				11.285714286	
	Week 2 Avg				10.571428571	
	Week 3 Avg				10.714285714	
	Week 4 Avg				15.285714286	
Limit(s) in Effect	Monthly Avg				30	0
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg				45	0
QA/QC Information	LOD	2.5	3.4	5.9		2.6
	LOQ	10	10	20		10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	445005220	405132750

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	204	112	457
	Description	Zinc, Total Recoverable	pH Field	Fecal Coliform	Chlorine, Total Residual	Suspended Solids, Total
	Units	ug/L	su	#/100ml	ug/L	mg/L
	Sample Type	24 HR FLOW PROP	GRAB	GRAB	GRAB	24 HR FLOW PROP
	Frequency	MONTHLY	5/WEEK	WEEKLY	5/WEEK	5/WEEK
Sample Results	Day 1		7.5			9.6
	2		6.9		<100	8.4
	3		7.0	28	<100	7.2
	4	104	6.9		<100	9.6
	5		7.0		<100	10.0
	6		7.0		<100	17.6
	7		7.1			10.4
	8		7.0			11.6
	9		7.2	13	<100	8.4
	10		6.9		<100	6.4
	11		7.0		<100	9.6
	12		6.8		<100	10.0
	13		7.2		<100	7.2
	14		7.3			6.8
	15		7.2			8.8
	16		7.1		<100	7.6
	17		7.1	13	<100	8.4
	18		7.0		<100	9.6
	19		7.2		<100	8.4
	20		7.1		<100	15.2
	21		7.8			16.0
	22		7.2			8.8
	23		6.9		<100	18.0
	24		7.0	143	<100	11.2
	25		7.1		<100	24.8
	26		7.0		<100	21.2
	27		7.5		<100	10.4
	28		7.2			9.6
	29		7.0			
	30		7.2		<100	8.0
	31		7.1		<100	10.8

	Sample Point	701	001	001	001	001		
	Description	Influent	Effluent	Effluent	Effluent	Effluent		
	Parameter	553	377	204	112	457		
	Description	Zinc, Total Recoverable	pH Field	Fecal Coliform	Chlorine, Total Residual	Suspended Solids, Total		
	Units	ug/L	su	#/100ml	ug/L	mg/L		
Summary Values	Monthly Avg	104	7.112903226	49.25	0	10.986666667		
	Daily Max	104	7.8	143	<100	24.8		
	Daily Max - Variable							
	Daily Min	104	6.8	13	<100	6.4		
	Geometric Mean -			28.681059691				
	Geometric Mean -			143				
	Week 1 Avg				0	10.4		
	Week 2 Avg				0	8.571428571		
	Week 3 Avg				0	10.571428571		
	Week 4 Avg				0	14.857142857		
Limit(s) in Effect	Monthly Avg				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					38	0	45
QA/QC Information	LOD	11.6				100		
	LOQ	40				100		
	QC Exceedance	N	N	N	N	N	N	N
	Lab Certification	405132750						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	553	0	553	0.18	10.36
	2	272	0	272	0.15	4.90
	3	226	0	226	0.15	4.72
	4	301	0	301	0.20	6.28
	5	282	0	282	0.20	5.64
	6	576	0	576	0.17	5.57
	7	502	0	502	0.25	12.06
	8	551	0	551	0.22	10.44
	9	228	0	228	0.18	7.24
	10	202	0	202	0.16	5.05
	11	236	0	236	0.18	4.42
	12	225	0	225	0.24	5.41
	13	219	0	219	0.20	6.08
	14	378	0	378	0.18	10.00
	15	491	0	491	0.16	8.92
	16	411	0	411	0.20	10.81
	17	431	0	431	0.20	10.27
	18	494	0	494	0.27	13.91
	19	477	0	477	0.22	12.50
	20	968	0	968	0.31	19.73
	21	573	0	573	0.31	11.09
	22	275	0	275	0.26	8.12
	23	484	0	484	0.38	10.21
	24	310	0	310	0.25	6.93
	25	1743	0	1743	0.46	32.33
	26	1446	0	1466	0.37	25.24
	27	458	0	458	0.13	5.73
	28	524	0	524	0.20	10.92
	29		0		0.13	6.78
	30	326	0	326	0.17	6.93
	31	259	0	259	0.22	5.27

	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	480.7	0	481.366666667	0.222580645	9.801935484	
	Daily Max	1743	0	1743	0.46	32.33	
	Daily Max - Variable						
	Daily Min	202	0	202	0.13	4.42	
	Geometric Mean -						
	Geometric Mean -						
	Week 1 Avg			387.428571429			
	Week 2 Avg			291.285714286			
	Week 3 Avg			549.285714286			
	Week 4 Avg			751.428571429			
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	N	N	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	0.9				
	2	0.7				
	3	1.0				
	4	0.9	<1.3	<2.5	4.5	<5.9
	5	1.1				
	6					
	7					
	8	1.0				
	9	0.8				
	10	1.6				
	11	2.0				
	12	2.3				
	13					
	14					
	15	1.7				
	16	1.4				
	17	1.6				
	18	1.7				
	19	2.0				
	20					
	21					
	22	1.0				
	23	1.3				
	24	1.5				
	25	3.1				
	26	0.6				
	27					
	28					
	29	0.8				
	30	1.3				
	31	1.8				

	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	1.395652174	0	0	4.5	0
	Daily Max	3.1	<1.3	<2.5	4.5	<5.9
	Daily Max - Variable					
	Daily Min	0.6	<1.3	<2.5	4.5	<5.9
	Geometric Mean -					
	Geometric Mean -					
	Week 1 Avg	0.92				
	Week 2 Avg	1.54				
	Week 3 Avg	1.68				
	Week 4 Avg	1.5				
Limit(s) in Effect	Monthly Avg	11	0			
	Daily Max	17	0			
	Daily Max - Variable					
	Daily Min					
	Geometric Mean -					
	Geometric Mean -					
	Weekly Avg	17	0			
QA/QC Information	LOD	0.027	1.3	2.5	3.4	5.9
	LOQ	0.09	5	10	10	20
	QC Exceedance	N	N	N	N	N
	Lab Certification	445005220	405132750	405132750	405132750	405132750

	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			0.491	7450	7493
	2			2.903	6570	7430
	3			3.385	6270	7190
	4	7.3	16.2	3.213	6140	6940
	5			3.205	5910	6608
	6			2.769	5360	6223
	7			0.536	4990	5920
	8			0.706	4880	5600
	9			1.848	5320	5285
	10			3.229	5060	5138
	11			3.793	4480	5063
	12			3.917	4990	4935
	13			3.403	5650	4963
	14			0.000	5700	5045
	15			0.001	5630	5205
	16			0.000	5740	5493
	17			0.000	5250	5680
	18			0.000	5210	5580
	19			0.000	6140	5458
	20			0.000	6640	5585
	21			2.245	6640	5810
	22			2.773	6600	6158
	23			3.113	6370	6505
	24			2.836	6910	6563
	25			2.814	6960	6630
	26			3.015	6750	6710
	27			3.507	6530	6748
	28			1.529	6610	6788
	29			1.383	6870	6713
	30			2.934	6860	6690
	31			4.289	7040	6718

	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	7.3	16.2	2.059258065	6049.032258065	6092.483870968
	Daily Max	7.3	16.2	4.289	7450	7493
	Daily Max - Variable					
	Daily Min	7.3	16.2	0	4480	4935
	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	11.6			
	LOQ	10	40			
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750			

	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	47	5568	7684	538	0
	2	46	5568	7684	257	0
	3	46	5568	7684	264	0
	4	46	5568	7684	336	0
	5	47	5568	7684	350	0
	6	50	5568	7684	586	0
	7	51	5568	7684	608	38976
	8	53	5568	7684	536	38976
	9	54	5568	7684	346	38976
	10	54	5568	7684	234	38976
	11	58	5568	7684	234	38976
	12	60	5568	7684	336	38976
	13	62	4735	6534	359	38143
	14	64	5568	7684	543	38143
	15	65	5568	7684	509	38143
	16	66	5568	7684	573	38143
	17	65	5568	7684	505	38143
	18	63	5568	7684	587	38143
	19	63	5568	7684	665	38143
	20	63	5568	7684	643	38976
	21	64	5568	7684	444	38976
	22	63	5568	7684	400	38976
	23	63	5568	7684	422	38976
	24	62	5568	7684	380	38976
	25	63	5568	7684	1564	38976
	26	62	5568	7684	1173	38976
	27	62	5568	7684	516	38976
	28	62	5568	7684	584	38976
	29	63	5568	7684	605	38976
	30	63	5568	7684	469	38976
	31	66	5568	7684	347	38976

	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	58.580645161	5541.129032258	7646.903225806	513.322580645	31244.161290323
	Daily Max	66	5568	7684	1564	38976
	Daily Max - Variable				1564	
	Daily Min	46	4735	6534	234	0
	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	112
	Description	WLA BOD5 Discharge Compliance	In-Plant Diversion
	Parameter	541	211
	Description	WLA 7 Day Sum Of BOD5 Discharged	Flow Rate
	Units	lbs/day	MGD
	Sample Type	CALCULATED	CONTINUOUS
	Frequency	DAILY	DAILY
Sample Results	Day 1	2497	0
	2	2459	0
	3	2436	0
	4	2506	0
	5	2572	0
	6	2691	0
	7	2939	0
	8	2937	0
	9	3026	0
	10	2996	0
	11	2894	0
	12	2880	0
	13	2652	0
	14	2587	0
	15	2560	0
	16	2787	0
	17	3058	0
	18	3411	0
	19	3740	0
	20	4025	0
	21	3926	0
	22	3816	0
	23	3665	0
	24	3540	0
	25	4517	0
	26	5025	0
	27	4898	0
	28	5039	0
	29	5244	0
	30	5291	0
	31	5258	0

	Sample Point	006		112	
	Description	WLA BOD5 Discharge Compliance		In-Plant Diversion	
	Parameter	541		211	
	Description	WLA 7 Day Sum Of BOD5 Discharged		Flow Rate	
	Units	lbs/day		MGD	
Summary Values	Monthly Avg	3479.741935484		0	
	Daily Max	5291		0	
	Daily Max - Variable	5291			
	Daily Min	2436		0	
	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	
	Lab Certification				

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

General Remarks

I certify that management practices identified in the approved water quality trading plan as the source of pollutant reduction credits are installed, established and properly maintained.

Laboratory Quality Control Comments

5-12-22 BOD Blank of 0.29 mg/L.
5-29-22 Final TSS was not set up.

Submitted by K3vin1 on 06/09/2022 9:31:36 AM