

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 Helming, District Director
 Phone Number: 920-766-5731
 Reporting Period: 02/01/2019 - 02/28/2019
 Form Due Date: 03/21/2019
 Permit Number: 0031232

Date Received:
 DOC: 416673
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Richard P Sachs
 Reviewer: Roy F Van Gheem
 Office: Green Bay

	Sample Point	001	701	701	001	701
	Description	Effluent	Influent	Influent	Effluent	Influent
	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	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	3.262	4.242	203	9	88
	2	3.372	4.363	171	9	84
	3	5.732	6.423	250	11	204
	4	7.016	7.704	254	14	164
	5	5.409	5.741	258	12	184
	6	5.137	5.137	255	11	272
	7	4.255	4.894	282	8	220
	8	2.121	4.419	306	7	220
	9	1.395	4.403	241	9	164
	10	2.254	4.577	244	10	216
	11	2.050	4.330	241	8	232
	12	2.133	4.411	329	8	208
	13	1.369	4.164	358	9	296
	14	1.504	4.525	201	7	216
	15	1.261	4.275	271	8	212
	16	1.019	3.975	236	6	216
	17	1.385	4.155	269	6	284
	18	2.005	4.053	453	11	268
	19	2.006	4.105	300	9	256
	20	1.216	3.946	349	14	276
	21	1.082	3.917	269	8	268
	22	1.056	3.957	225	8	124
	23	2.754	5.580	304	11	148
	24	4.122	6.488	246	10	188
	25	3.013	5.101	223	8	184
	26	2.565	4.763	206	8	172
	27	2.007	4.517	254	8	188
	28	2.442	4.294	336	6	204
	29					
	30					
	31					

	Sample Point	001	701	701	001	701
	Description	Effluent	Influent	Influent	Effluent	Influent
	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	2.6765	4.730678571	269.071428571	9.035714286	205.571428571
	Daily Max	7.016	7.704	453	14	296
	Daily Min	1.019	3.917	171	6	84
	Week 1 Avg				10.571428571	
	Week 2 Avg				8.285714286	
	Week 3 Avg				8.857142857	
	Week 4 Avg				8.428571429	
Limit(s) in Effect	Monthly Avg				30	0
	Daily Max					
	Daily Min					
	Weekly Avg				45	0
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	Y	Y	N
	Lab Certification			445005220	445005220	445005220

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	87	133	147	264	315
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, 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	<1.3	6.8	53.4	<5.9	8.4
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
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	30					
	31					

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	87	133	147	264	315
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	0	6.8	53.4	0	8.4
	Daily Max	<1.3	6.8	53.4	<5.9	8.4
	Daily Min	<1.3	6.8	53.4	<5.9	8.4
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD	1.3	2.5	6.3	5.9	2.6
	LOQ	5	10	20	19.7	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	457	457	1348
	Description	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT TSS Credits
	Units	ug/L	su	mg/L	lbs/day	lbs/day
	Sample Type	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED	CALCULATED
	Frequency	MONTHLY	5/WEEK	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1		7.3	10	261	
	2		7.2	10	292	
	3		7.1	14	669	
	4		7.1	10	562	
	5		7.1	15	668	
	6	136	7.2	11	463	
	7		7.2	12	440	
	8		7.5	14	241	
	9		7.2	14	168	
	10		7.2	10	196	
	11		7.2	8	130	
	12		7.1	10	178	
	13		7.1	10	114	
	14		7.6	8	95	
	15		7.3	12	122	
	16		7.5	11	92	
	17		7.5	8	92	
	18		7.1	11	181	
	19		7.2	10	167	
	20		7.1	9	93	
	21		7.1	12	105	
	22		7.2	9	81	
	23		7.1	9	202	
	24		7.1	13	440	
	25		7.6	10	241	
	26		7.1	12	265	
	27		7.0	10	167	
	28		7.1	8	163	
	29					
	30					
	31					

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	457	457	1348
	Description	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT TSS Credits
	Units	ug/L	su	mg/L	lbs/day	lbs/day
Summary Values	Monthly Avg	136	7.217857143	10.714285714	246	
	Daily Max	136	7.6	15	669	
	Daily Min	136	7	8	81	
	Week 1 Avg			11.714285714		
	Week 2 Avg			10.571428571		
	Week 3 Avg			10.428571429		
	Week 4 Avg			10.142857143		
Limit(s) in Effect	Monthly Avg			30	0	
	Daily Max		9	0		
	Daily Min		6	0		
	Weekly Avg			45	0	
QA/QC Information	LOD	11.6				
	LOQ	40				
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750		445005220		

	Sample Point	001	001	001	001	001	
	Description	Effluent	Effluent	Effluent	Effluent	Effluent	
	Parameter	1348	1347	388	388	789	
	Description	WQT TSS Credits	WQT TSS Computed Compliance	Phosphorus, Total	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	
	Units	lbs/month	lbs/day	mg/L	lbs/day	mg/L	
	Sample Type	CALCULATED	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	
	Frequency	MONTHLY	5/WEEK	5/WEEK	5/WEEK	5/WEEK	
Sample Results	Day 1		261	0.27	7.35		
	2		292	0.26	7.31		
	3		669	0.25	11.95	0.4	
	4		562	0.27	15.80	0.4	
	5		668	0.26	11.73	0.8	
	6		463	0.17	7.28	0.2	
	7		440	0.25	8.87	0.3	
	8		241	0.24	4.25		
	9		168	0.39	4.54		
	10		196	0.25	4.70	0.2	
	11		130	0.24	4.10	0.2	
	12		178	0.20	3.56	0.5	
	13		114	0.19	2.17	1.1	
	14		95	0.17	2.13	0.3	
	15		122	0.23	2.42		
	16		92	0.18	1.53		
	17		92	0.15	1.73	0.3	
	18		181	0.22	3.68	0.4	
	19		167	0.15	2.51	1.6	
	20		93	0.28	2.84	2.3	
	21		105	0.26	2.35	0.3	
	22		81	0.26	2.29		
	23		202	0.25	5.74		
	24		440	0.22	7.56	0.3	
	25		241	0.18	4.52	0.1	
	26		265	0.24	5.13	0.2	
	27		167	0.21	3.52	0.2	
	28		0	163	0.15	3.05	0.2
	29						
	30						
	31						

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	1348		1347		388		388		789	
	Description	WQT TSS Credits		WQT TSS Computed Compliance		Phosphorus, Total		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total	
Units	lbs/month		lbs/day		mg/L		lbs/day		mg/L		
Summary Values	Monthly Avg	0		246		0.228214286		5.164642857		0.515	
	Daily Max	0		669		0.39		15.8		2.3	
	Daily Min	0		81		0.15		1.53		0.1	
	Week 1 Avg			479.285714286						0.42	
	Week 2 Avg			160.285714286						0.46	
	Week 3 Avg			121.714285714						0.98	
	Week 4 Avg			222.714285714						0.2	
Limit(s) in Effect	Monthly Avg			801	0	1	0			10	0
	Daily Max									17	0
	Daily Min										
	Weekly Avg			1345	0					28	0
QA/QC Information	LOD					0.026				0.034	
	LOQ					0.087				0.113	
	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	87	133	147	264	315
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, 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	<1.3	<2.5	<6.3	<5.9	7.5
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	87	133	147	264	315
	Description	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	Units	ug/L	ug/L	ug/L	ug/L	ug/L
Summary Values	Monthly Avg	0	0	0	0	7.5
	Daily Max	<1.3	<2.5	<6.3	<5.9	7.5
	Daily Min	<1.3	<2.5	<6.3	<5.9	7.5
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD	1.3	2.5	6.3	5.9	2.6
	LOQ	5	10	20	19.7	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	101	112
	Description	Effluent	Effluent Reuse	In-Plant Diversion
	Parameter	553	671	211
	Description	Zinc, Total Recoverable	Flow Unregulated	Flow Rate
	Units	ug/L	MGD	MGD
	Sample Type	24 HR FLOW PROP	CONTINUOUS	CONTINUOUS
	Frequency	MONTHLY	DAILY	DAILY
Sample Results	Day 1		0.980	0
	2		0.991	0
	3		0.691	0
	4		0.688	0
	5		0.332	0
	6	25.9	0.000	0
	7		0.639	0
	8		2.298	0
	9		3.008	0
	10		2.323	0
	11		2.280	0
	12		2.278	0
	13		2.795	0
	14		3.021	0
	15		3.014	0
	16		2.956	0
	17		2.770	0
	18		2.048	0
	19		2.099	0
	20		2.730	0
	21		2.835	0
	22		2.901	0
	23		2.826	0
	24		2.366	0
	25		2.088	0
	26		2.198	0
	27		2.510	0
	28		1.852	0
	29			
	30			
	31			

	Sample Point	001	101	112
	Description	Effluent	Effluent Reuse	In-Plant Diversion
	Parameter	553	671	211
	Description	Zinc, Total Recoverable	Flow Unregulated	Flow Rate
	Units	ug/L	MGD	MGD
Summary Values	Monthly Avg	25.9	2.054178571	0
	Daily Max	25.9	3.021	0
	Daily Min	25.9	0	0
	Week 1 Avg			
	Week 2 Avg			
	Week 3 Avg			
	Week 4 Avg			
Limit(s) in Effect	Monthly Avg			
	Daily Max			
	Daily Min			
	Weekly Avg			
QA/QC Information	LOD	11.6		
	LOQ	40		
	QC Exceedance	N	N	N
	Lab Certification	405132750		

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

General Remarks

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

BOD Blank Depletion of 0.27 mg/L (2-15-19)

Submitted by K3vin1 on 03/12/2019 10:14:38 AM