

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: 04/01/2019 - 04/30/2019
 Form Due Date: 05/21/2019
 Permit Number: 0031232

Date Received:
 DOC: 422382
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Lisa L Lumley
 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	3.044	5.976	201	9	164
	2	2.936	5.874	158	8	152
	3	2.904	5.891	274	11	176
	4	2.865	5.852	229	11	164
	5	3.260	5.840	160	11	116
	6	3.071	5.644	191	8	172
	7	3.916	6.490	261	19	160
	8	4.256	6.834	190	16	176
	9	3.567	6.552	170	13	148
	10	2.829	6.165	258	17	204
	11	3.923	7.019	205	13	132
	12	7.361	10.258	186	11	96
	13	6.630	9.518	101	9	84
	14	5.897	8.772	119	12	108
	15	4.915	7.775	185	11	108
	16	5.188	8.100	182	8	136
	17	7.076	10.125	154	13	144
	18	7.260	10.400	140	15	120
	19	5.809	8.950	184	19	120
	20	5.128	8.050	155	19	148
	21	4.492	7.517	170	10	144
	22	9.023	12.194	142	46	172
	23	9.684	12.967	90	9	100
	24	6.324	9.591	135	8	116
	25	7.241	9.114	145	6	136
	26	5.137	8.293	146	4	80
	27	4.475	7.628	107	5	52
	28	4.062	7.217	177	5	156
	29	4.244	7.410	171	5	144
	30	3.975	7.131	171	5	156
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	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	5.0164	7.971566667	171.9	11.866666667	136.133333333
	Daily Max	9.684	12.967	274	46	204
	Daily Min	2.829	5.644	90	4	52
	Week 1 Avg				11	
	Week 2 Avg				13	
	Week 3 Avg				13.571428571	
	Week 4 Avg				11.857142857	
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	N	N	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	<1.3	<2.5	56.1	<5.9	<2.6
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
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	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	0	56.1	0	0
	Daily Max	<1.3	<2.5	56.1	<5.9	<2.6
	Daily Min	<1.3	<2.5	56.1	<5.9	<2.6
	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		7.6	8	203	0
	2	102	7.3	6	157	0
	3		7.1	9	223	0
	4		7.3	10	248	0
	5		7.1	9	250	0
	6		7.1	6	154	0
	7		7.1	14	444	0
	8		7.5	13	469	0
	9		7.2	10	309	0
	10		7.1	10	245	0
	11		7.4	12	380	0
	12		7.2	16	1007	0
	13		7.3	10	575	0
	14		7.2	9	452	0
	15		7.7	7	295	0
	16		7.2	7	312	0
	17		7.1	12	708	0
	18		7.2	10	581	0
	19		7.3	13	620	0
	20		7.5	15	650	0
	21		7.4	8	315	0
	22		7.5	62	4643	0
	23		7.0	23	1874	0
	24		7.3	7	359	0
	25		7.3	6	386	0
	26		7.4	4	154	0
	27		7.1	4	134	0
	28		7.1	6	203	0
	29		7.3	4	156	0
	30		7.2	4	146	0
	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	102	7.27	11.133333333	555.066666667	0
	Daily Max	102	7.7	62	4643	0
	Daily Min	102	7	4	134	0
	Week 1 Avg			8.857142857		
	Week 2 Avg			11.428571429		
	Week 3 Avg			10.285714286		
	Week 4 Avg			16		
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		203	0.14	3.55	0.4	
	2		157	0.13	3.18	0.4	
	3		223	0.22	5.33	1.3	
	4		248	0.22	5.26	0.5	
	5		250	2.81	76.40		
	6		154	0.26	6.66		
	7		444	0.32	10.45	2.1	
	8		469	0.29	10.29	0.9	
	9		309	0.24	7.14	0.5	
	10		245	0.25	5.90	1.8	
	11		380	0.25	8.18	0.9	
	12		1007	0.39	23.94		
	13		575	2.33	128.84		
	14		452	0.21	10.33	0.5	
	15		295	0.19	7.79	1.5	
	16		312	0.17	7.36	1.0	
	17		708	0.24	14.16	0.7	
	18		581	0.19	11.50	2.8	
	19		620	0.25	12.11		
	20		650	0.25	10.69		
	21		315	0.14	5.24	1.3	
	22		4643	0.92	68.86	4.3	
	23		1874	0.30	24.23	0.7	
	24		359	0.13	6.86	0.5	
	25		386	0.10	6.04	0.7	
	26		154	0.11	4.71		
	27		134	0.11	4.11		
	28		203	0.13	4.40	0.6	
	29		156	0.11	3.89	0.7	
	30		0	146	0.13	4.31	0.9
	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		555.066666667		0.384333333		16.723666667		1.136363636	
	Daily Max	0		4643		2.81		128.84		4.3	
	Daily Min	0		134		0.1		3.18		0.4	
	Week 1 Avg			239.857142857						0.94	
	Week 2 Avg			491						0.92	
	Week 3 Avg			497.285714286						1.46	
	Week 4 Avg			1107.571428571						1.36	
Limit(s) in Effect	Monthly Avg			801	0	1	0			11	0
	Daily Max									17	0
	Daily Min										
	Weekly Avg			1345	0					29	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	<1.3	<2.5	<6.3	<5.9	4.0
	3					
	4					
	5					
	6					
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	31					

	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	4
	Daily Max	<1.3	<2.5	<6.3	<5.9	4
	Daily Min	<1.3	<2.5	<6.3	<5.9	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	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		2.932	0
	2	19.9	2.938	0
	3		2.987	0
	4		2.987	0
	5		2.580	0
	6		2.573	0
	7		2.574	0
	8		2.578	0
	9		2.985	0
	10		3.336	0
	11		3.096	0
	12		2.897	0
	13		2.888	0
	14		2.875	0
	15		2.860	0
	16		2.912	0
	17		3.049	0
	18		3.140	0
	19		3.141	0
	20		2.922	0
	21		3.025	0
	22		3.171	0
	23		3.283	0.172
	24		3.267	0
	25		1.873	0
	26		3.156	0
	27		3.153	0
	28		3.155	0
	29		3.166	0
	30		3.156	0
	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	19.9	2.955166667	0.005733333
	Daily Max	19.9	3.336	0.172
	Daily Min	19.9	1.873	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

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.
Effluent WQT TSS Computed Compliance per the WQT plan were in compliance for the weekly and monthly average.

Laboratory Quality Control Comments

4-10-19 (LCS failure of NH3-N = 0.875 ppm, under 10% of 1.0ppm)

Submitted by K3vin1 on 05/09/2019 1:22:11 PM