

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: 03/01/2019 - 03/31/2019
 Form Due Date: 04/21/2019
 Permit Number: 0031232

Date Received:
 DOC: 416674
 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	2.467	4.269	221	5	152
	2	2.190	4.292	240	5	140
	3	2.708	4.398	280	6	184
	4	2.715	4.122	399	7	204
	5	2.623	4.043	248	5	224
	6	1.846	3.966	293	5	256
	7	1.823	3.961	247	8	200
	8	1.644	4.228	290	6	272
	9	1.639	4.125	362	5	228
	10	1.605	4.519	240	9	232
	11	1.444	4.419	237	6	232
	12	3.849	6.588	227	10	228
	13	11.652	13.899	202	17	140
	14	21.971	23.969	86	22.7	88
	15	8.926	11.755	104	15	48
	16	6.193	8.825	169	14	88
	17	5.991	8.584	177	13	140
	18	5.666	8.261	141	10	120
	19	6.172	8.773	143	11	128
	20	5.959	8.617	132	11	120
	21	6.088	8.947	185	20	112
	22	5.683	8.518	146	9	80
	23	5.292	8.139	127	5	124
	24	5.293	8.144	183	9	128
	25	4.475	7.325	142	8	140
	26	4.099	6.950	178	7	148
	27	4.127	7.025	244	11	152
	28	4.149	7.000	243	9	172
	29	4.072	6.825	172	7	152
	30	3.497	6.250	218	7	176
	31	3.407	6.165	190	9	140

	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	4.815	7.319387097	208.580645161	9.409677419	159.612903226
	Daily Max	21.971	23.969	399	22.7	272
	Daily Min	1.444	3.961	86	5	48
	Week 1 Avg				5.857142857	
	Week 2 Avg				10.814285714	
	Week 3 Avg				13.428571429	
	Week 4 Avg				8.285714286	
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	6.6	77	<5.9	6.0
	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	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	6.6	77	0	6
	Daily Max	<1.3	6.6	77	<5.9	6
	Daily Min	<1.3	6.6	77	<5.9	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		7.3	6	115	0
	2		7.3	7	132	0
	3		7.1	7	163	0
	4		7.1	7	154	0
	5		7.3	7	149	0
	6	161	7.2	7	105	0
	7		7.4	8	116	0
	8		7.6	8	110	0
	9		7.6	8	104	0
	10		7.6	9	118	0
	11		7.2	8	92	0
	12		7.1	12	385	0
	13		7.0	16	1516	0
	14		7.0	37.8	6926	0
	15		7.2	14	1042	0
	16		7.1	10	496	0
	17		7.1	10	500	0
	18		7.7	11	529	0
	19		7.2	11	556	0
	20		7.2	14	696	0
	21		7.2	20	1015	0
	22		7.1	16	758	0
	23		7.4	4	194	0
	24		7.3	6	247	0
	25		7.2	10	373	0
	26		7.3	8	287	0
	27		7.2	11	385	0
	28		7.1	7	249	0
	29		7.2	9	312	0
	30		7.6	7	210	0
	31		7.6	10	284	0

	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	161	7.274193548	10.509677419	590.903225806	0
	Daily Max	161	7.7	37.8	6926	0
	Daily Min	161	7	4	92	0
	Week 1 Avg			7		
	Week 2 Avg			14.114285714		
	Week 3 Avg			12.857142857		
	Week 4 Avg			8.857142857		
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		115	0.16	3.29	
	2		132	0.19	3.47	
	3		163			0.3
	4		154	0.17	3.85	0.7
	5		149	0.13	2.84	0.2
	6		105	0.16	2.46	0.2
	7		116	0.20	3.04	0.4
	8		110	0.26	3.56	
	9		104	0.24	3.28	
	10		118	0.21	2.81	0.5
	11		92	0.18	2.17	0.2
	12		385	0.17	5.46	0.5
	13		1516	0.29	28.18	0.9
	14		6926	0.54	98.95	0.22
	15		1042	2.60	193.55	
	16		496	0.24	12.40	
	17		500	0.19	9.49	1.3
	18		529	0.19	8.98	0.1
	19		556	0.19	9.78	0.6
	20		696	0.19	9.44	0.2
	21		1015	0.30	15.23	0.9
	22		758	0.22	10.43	
	23		194	0.09	3.97	
	24		247	0.33	14.57	0.7
	25		373	0.20	7.46	0.2
	26		287	0.12	4.10	0.4
	27		385	0.17	5.85	0.4
	28		249	0.17	5.88	0.5
	29		312	0.29	9.85	
	30		210	0.17	4.96	
	31		0	284	0.21	5.97

	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		590.903225806		0.292333333		16.509		0.467619048	
	Daily Max	0		6926		2.6		193.55		1.3	
	Daily Min	0		92		0.09		2.17		0.1	
	Week 1 Avg			133.428571429						0.36	
	Week 2 Avg			1321.571428571						0.464	
	Week 3 Avg			690.571428571						0.62	
	Week 4 Avg			356.142857143						0.44	
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	8.2
	7					
	8					
	9					
	10					
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	28					
	29					
	30					
	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	8.2
	Daily Max	<1.3	<2.5	<6.3	<5.9	8.2
	Daily Min	<1.3	<2.5	<6.3	<5.9	8.2
	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		1.802	0
	2		2.102	0
	3		1.690	0
	4		1.407	0
	5		1.420	0
	6	23.9	2.120	0
	7		2.138	0
	8		2.584	0
	9		2.506	0
	10		2.914	0
	11		2.975	0
	12		2.739	0
	13		2.247	0
	14		1.998	0.474
	15		2.829	0
	16		2.632	0
	17		2.593	0
	18		2.595	0
	19		2.601	0
	20		2.658	0
	21		2.859	0
	22		2.835	0
	23		2.847	0
	24		2.851	0
	25		2.850	0
	26		2.851	0
	27		2.898	0
	28		2.851	0
	29		2.753	0
	30		2.753	0
	31		2.758	0

	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	23.9	2.505032258	0.015290323
	Daily Max	23.9	2.975	0.474
	Daily Min	23.9	1.407	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.

Per the Water Quality Trading Agreement there were no credits used this month. Weekly averages and monthly averages were within the agreement.

Laboratory Quality Control Comments

BOD Blank Depletion of 0.29 (3-30)

Submitted by K3vin1 on 04/15/2019 8:46:16 AM