Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF THE VALLEY MSD WW TRTMNT FAC
Contact Address: 801 Thilmany Rd
Kaukauna, WI 54130
Facility Contact: Brian Helminger, District Director
Phone Number: (920) 766-5731
Reporting Period: 12/01/2017 - 12/31/2017
Form Due Date: 01/21/2018
Permit Number: 0031232

Date Received:	
DOC:	388324
FIN:	6375
FID:	445005220
Region:	Northeast Region
Permit Drafter:	Richard P Sachs
Reviewer:	Barti Oumarou
Office:	Oshkosh

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	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	1.598	3.983	223	236	
	2	1.574	3.967	242	216	
	3	1.772	4.161	228	208	
	4	2.847	5.222	250	240	
	5	1.420	3.817	243	216	<1.3
	6	1.757	3.855	265	212	
	7	2.776	4.054	239	200	
	8	3.761	4.099	184	84	
	9	1.504	3.960	167	88	
	10	1.395	4.112	287	276	
	11	1.286	3.998	285	240	
	12	1.519	3.842	298	320	
	13	1.337	3.780	353	392	
	14	1.271	3.983	225	256	
	15	0.999	3.712	253	216	
	16	1.336	3.892	235	200	
	17	1.633	4.063	233	260	
	18	1.734	4.150	296	272	
	19	1.744	4.150	286	240	
	20	1.294	3.900	226	212	
	21	1.298	4.250	317	236	
	22	1.184	4.200	325	264	
	23	1.177	4.125	262	292	
	24	1.907	3.825	262	264	
	25	1.717	3.650	333	388	
	26	1.593	3.687	296	332	
	27	0.739	3.352	333	264	
	28	0.926	3.628	302	272	
	29	0.781	3.483	284	260	
	30	1.158	3.750	296	256	
	31	1.507	3.486	244	88	

	Sample Point	001	701	701	701	701
	Description	Effluent	Influent	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**	1.565935484	3.939870968	266.838709677	241.935483871	0
	Daily Max	3.761	5.222	353	392	<1.3
	Daily Min	0.739	3.352	167	84	<1.3
	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
	LOQ					5
	QC Exceedance	N	N	N	N	N
	Lab Certification			445005220	445005220	405132750

	Sample Point	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	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					
	3					
	4					
	5	9.5	83.4	<4.3	6.9	129
	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	701	701	701	701	701
	Description	Influent	Influent	Influent	Influent	Influent
	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**	9.5	83.4	0	6.9	129
	Daily Max	9.5	83.4	<4.3	6.9	129
	Daily Min	9.5	83.4	<4.3	6.9	129
	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**	2.5	6.3	4.3	2.6	9.3
	LOQ	10	20	13	10	40
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	649	457	377	388	789
	Description	CBOD5	Suspended Solids, Total	pH Field	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total
	Units	mg/L	mg/L	su	mg/L	mg/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	5/WEEK	5/WEEK	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	4	31	7.3	0.72	
	2	5	32	7.5	0.75	
	3	6	31	7.6	0.69	0.5
	4	7	30	7.6	0.61	1.6
	5	6	25	7.6	0.34	0.6
	6	11	29	7.4	0.76	0.4
	7	8	29	7.7	0.67	1.1
	8	7	26	7.4	0.72	
	9	6	23	7.6	0.63	
	10	6	25	7.5	0.49	0.5
	11	10	28	7.3	0.67	0.7
	12	6	26	7.4	0.62	2.6
	13	7	24	7.5	0.67	0.3
	14	8	26	7.2	0.99	0.7
	15	6	26	7.8	0.65	
	16	7	28	7.5	0.60	
	17	7	26	7.6	0.74	0.5
	18	8	19	7.3	0.51	0.4
	19	8	26	7.2	0.69	0.5
	20	7	29	7.4	0.58	0.4
	21	6	22	7.6	0.63	0.4
	22	7	26	7.1	0.65	
	23	6	22	7.6	0.55	
	24	6	24	7.5	0.54	0.2
	25	8	28	7.6	0.64	1.8
	26	7	27	7.8	0.51	0.7
	27	8	22	7.7	0.51	0.7
	28	8	18	7.2	0.24	0.5
	29	6	20	7.6	0.43	
	30	7	20	7.5	0.61	
	31	6	16	7.5	0.96	0.6

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	649		457		377		388		789	
	Description	CBOD5		Suspended Solids, Total		pH Field		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total	
	Units	mg/L		mg/L		su		mg/L		mg/L	
Summary Values	**Monthly Avg**	6.935483871		25.290322581		7.487096774		0.62483871		0.747619048	
	Daily Max	11		32		7.8		0.99		2.6	
	Daily Min	4		16		7.1		0.24		0.2	
	Week 1 Avg	6.714285714		29.571428571							
	Week 2 Avg	7.142857143		25.428571429							
	Week 3 Avg	7		25.142857143							
	Week 4 Avg	7.142857143		23.857142857							
Limit(s) in Effect	**Monthly Avg**	25	0	30	0			1	0	18	0
	Daily Max					9	0			17	0
	Daily Min					6	0				
	Weekly Avg	40	0	45	0						
QA/QC Information	**LOD**							0.026		0.045	
	LOQ							0.087		0.15	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		445005220				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	<1.3	3.4	11.8	5.4	7.4
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	26					
	27					
	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	3.4	11.8	5.4	7.4
	Daily Max	<1.3	3.4	11.8	5.4	7.4
	Daily Min	<1.3	3.4	11.8	5.4	7.4
	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	4.3	2.6
	LOQ	5	10	20	13	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	101
	Description	Effluent	Effluent Reuse
	Parameter	553	671
	Description	Zinc, Total Recoverable	Flow Unregulated
	Units	ug/L	MGD
	Sample Type	24 HR FLOW PROP	CONTINUOUS
	Frequency	MONTHLY	DAILY
Sample Results	Day 1		2.385
	2		2.393
	3		2.389
	4		2.375
	5	23	2.397
	6		2.098
	7		1.278
	8		0.338
	9		2.456
	10		2.717
	11		2.712
	12		2.323
	13		2.443
	14		2.712
	15		2.713
	16		2.556
	17		2.430
	18		2.416
	19		2.406
	20		2.606
	21		2.952
	22		3.016
	23		2.948
	24		1.918
	25		1.933
	26		2.094
	27		2.613
	28		2.702
	29		2.702
	30		2.592
	31		1.979

	Sample Point	001		101	
	Description	Effluent		Effluent Reuse	
	Parameter	553		671	
	Description	Zinc, Total Recoverable		Flow Unregulated	
	Units	ug/L		MGD	
Summary Values	**Monthly Avg**	23		2.373935484	
	Daily Max	23		3.016	
	Daily Min	23		0.338	
	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**	9.3			
	LOQ	40			
	QC Exceedance	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

Laboratory Quality Control Comments

None

Submitted by K3vin1 on 01/09/2018 10:45:32 AM