

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: 11/01/2017 - 11/30/2017
 Form Due Date: 12/21/2017
 Permit Number: 0031232

Date Received:
 DOC: 388323
 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	1.719	4.231	178	220	
	2	2.225	4.736	232	244	
	3	1.631	4.143	197	148	
	4	1.956	4.472	159	148	
	5	1.989	4.501	227	236	
	6	1.719	4.231	181	188	
	7	1.639	4.088	204	212	<1.3
	8	1.414	3.841	240	244	
	9	1.458	3.953	276	260	
	10	1.060	3.610	275	284	
	11	1.191	3.753	242	264	
	12	1.736	4.062	221	232	
	13	1.800	4.063	232	236	
	14	1.643	3.878	244	188	
	15	1.849	4.074	226	224	
	16	1.866	3.967	193	212	
	17	3.560	4.575	217	172	
	18	4.201	4.535	189	140	
	19	4.557	4.557	218	176	
	20	4.631	4.631	206	196	
	21	1.748	4.081	225	184	
	22	1.817	4.537	308	220	
	23	1.432	4.150	212	220	
	24	1.458	4.144	201	144	
	25	1.123	3.829	230	192	
	26	1.790	4.167	248	252	
	27	1.795	4.100	252	284	
	28	1.574	3.950	248	224	
	29	1.430	3.851	237	216	
	30	1.550	3.949	240	236	
	31					

	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	1.985366667	4.1553	225.266666667	213.2	0
	Daily Max	4.631	4.736	308	284	<1.3
	Daily Min	1.06	3.61	159	140	<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					
	6					
	7	17.7	84.3	<4.3	9.7	131
	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	17.7		84.3		0		9.7		131	
	Daily Max	17.7		84.3		<4.3		9.7		131	
	Daily Min	17.7		84.3		<4.3		9.7		131	
	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	5	26	7.4	0.51	0.1
	2	4	23	7.5	0.48	0.2
	3	8	19	7.4	0.24	
	4	5	20	7.8	0.44	
	5	5	19	7.8	0.57	0.3
	6	6	24	7.4	0.53	1.2
	7	5	23	7.4	0.28	2.8
	8	7	18	7.4	0.79	0.7
	9	7	22	7.7	0.51	1.2
	10	4	26	7.4	0.51	
	11	4	24	7.5	0.55	
	12	5	27	7.6	0.28	0.3
	13	5	22	7.6	0.74	0.1
	14	9	26	7.5	0.68	2.0
	15	7	24	7.3	0.60	0.2
	16	10	25	7.6	0.54	0.3
	17	6	26	7.4	0.51	
	18	5	26	7.8	0.51	
	19	5	25	7.8	0.54	0.5
	20	6	26	7.5	0.61	0.6
	21	7	29	7.4	0.70	2.0
	22	7	32	7.5	0.60	0.5
	23	5	25	7.7	0.58	0.4
	24	5	24	7.8	0.29	
	25	5	25	7.7	0.56	
	26	6	30	7.8	0.83	0.4
	27	14	38	7.4	0.76	3.2
	28	7	33	7.2	0.90	1.8
	29	6	31	7.2	0.84	0.7
	30	14	28	7.5	0.70	0.4
	31					

	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	6.466666667		25.533333333		7.533333333		0.572666667		0.904545455	
	Daily Max	14		38		7.8		0.9		3.2	
	Daily Min	4		18		7.2		0.24		0.1	
	Week 1 Avg	5.428571429		22							
	Week 2 Avg	5.857142857		23.571428571							
	Week 3 Avg	6.571428571		25.857142857							
	Week 4 Avg	7		29.571428571							
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					
	6					
	7	<1.3	3.4	9.8	<4.3	8.4
	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	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	9.8	0	8.4
	Daily Max	<1.3	3.4	9.8	<4.3	8.4
	Daily Min	<1.3	3.4	9.8	<4.3	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	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		2.512
	2		2.511
	3		2.512
	4		2.516
	5		2.512
	6		2.512
	7	22.8	2.449
	8		2.427
	9		2.495
	10		2.550
	11		2.562
	12		2.326
	13		2.263
	14		2.235
	15		2.225
	16		2.101
	17		1.015
	18		0.334
	19		0.000
	20		0.000
	21		2.333
	22		2.720
	23		2.718
	24		2.686
	25		2.706
	26		2.377
	27		2.305
	28		2.376
	29		2.421
	30		2.399
	31		

	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	22.8	2.169933333
	Daily Max	22.8	2.72
	Daily Min	22.8	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	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 12/07/2017 10:27:14 AM