

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF VALLEY MSD WW TRTMNT FAC
 Contact Address: 801 Thilmany Rd
 Kaukauna, WI 54130-1642
 Facility Contact: Mark Surwillo, District Manager
 Phone Number: (920) 766-5731
 Reporting Period: 03/01/2015 - 03/31/2015
 Form Due Date: 04/21/2015
 Permit Number: 0031232

Date Received:
 DOC: 338390
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Richard P Sachs
 Reviewer: Mark K. Corbett
 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	3.108	3.908	254	224	
	2	1.979	3.493	208	188	
	3	1.632	3.907	225	312	<1.0
	4	2.496	3.913	236	264	
	5	2.753	3.387	221	256	
	6	2.292	3.559	244	264	
	7	1.558	3.873	256	304	
	8	1.960	4.471	219	252	
	9	2.549	5.288	202	284	
	10	2.025	5.455	176	168	
	11	3.052	5.345	123	276	
	12	2.446	5.020	94	196	
	13	2.348	4.960	198	208	
	14	2.413	5.014	212	228	
	15	2.607	5.180	196	232	
	16	2.302	4.875	186	200	
	17	1.658	4.498	198	192	
	18	1.752	4.708	234	292	
	19	1.776	4.609	244	316	
	20	1.597	4.430	230	212	
	21	1.422	4.500	202	240	
	22	2.010	4.620	184	208	
	23	1.992	4.336	185	216	
	24	1.334	4.300	266	232	
	25	2.159	5.126	174	168	
	26	2.505	4.935	178	220	
	27	2.227	4.718	267	300	
	28	1.845	4.818	213	220	
	29	1.927	4.902	207	212	
	30	2.350	4.919	176	144	
	31	2.307	4.801	197	160	

	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	2.141322581	4.576387097	206.612903226	231.870967742	0
	Daily Max	3.108	5.455	267	316	<1
	Daily Min	1.334	3.387	94	144	<1
	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
	LOQ					5
	QC Exceedance	N	N	Y	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	7.9	73.1	2.1	8.7	134
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
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	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	7.9		73.1		2.1		8.7		134	
	Daily Max	7.9		73.1		2.1		8.7		134	
	Daily Min	7.9		73.1		2.1		8.7		134	
	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	1.5		3.4		1.6		1.3		5.8	
	LOQ	5		10		7.5		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	7	18	7.5	0.41	0.5
	2	5	11	7.6	0.36	0.2
	3	6	12	7.5	0.47	0.4
	4	9	9	7.6	0.59	0.1
	5	5	11	7.4	0.41	0.3
	6	6	14	8.1	0.51	
	7	6	13	7.2	0.51	
	8	7	16	7.3	0.52	0.7
	9	6	12	7.6	0.47	0.3
	10	6	10	7.6	0.49	0.3
	11	6	14	7.9	0.55	0.2
	12	3	10	7.6	0.56	0.2
	13	5	15	7.5	0.60	
	14	4	8	7.5	0.42	
	15	6	12	7.2	0.48	0.3
	16	7	11	7.8	0.38	0.5
	17	9	30	7.3	0.44	0.4
	18	6	12	7.0	0.47	0.2
	19	6	10	7.2	0.52	0.3
	20	6	12	7.4	0.51	
	21	6	11	7.5	0.47	
	22	5	9	7.5	0.41	0.4
	23	7	13	7.6	0.46	0.3
	24	7	11	7.5	0.34	0.4
	25	7	10	7.4	0.38	0.6
	26	7	10	7.6	0.35	0.4
	27	5	14	7.5	0.45	
	28	5	10	7.3	0.40	
	29	5	12	7.3	0.35	0.2
	30	4	10	7.8	0.33	0.4
	31	5	10	7.5	0.36	0.2

	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	5.935483871		12.258064516		7.493548387		0.450645161		0.339130435	
	Daily Max	9		30		8.1		0.6		0.7	
	Daily Min	3		8		7		0.33		0.1	
	Week 1 Avg	6.285714286		12.571428571						0.3	
	Week 2 Avg	5.285714286		12.142857143						0.34	
	Week 3 Avg	6.571428571		14						0.34	
	Week 4 Avg	6.142857143		11						0.42	
Limit(s) in Effect	Monthly Avg	25	0	30	0			1	0	10	0
	Daily Max					9	0			17	0
	Daily Min					6	0				
	Weekly Avg	40	0	45	0					28	0
QA/QC Information	LOD							0.086		0.057	
	LOQ							0.286		0.189	
	QC Exceedance	Y		N		N		N		Y	
	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	<1.0	3.4	6.1	5.4	5.4
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
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	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	6.1	5.4	5.4
	Daily Max	<1	3.4	6.1	5.4	5.4
	Daily Min	<1	3.4	6.1	5.4	5.4
	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	1.5	3.4	1.6	1.3
	LOQ	5	5	10	7.5	10
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750	405132750	405132750

	Sample Point	001	001	101
	Description	Effluent	Effluent	Effluent Reuse
	Parameter	553	480	671
	Description	Zinc, Total Recoverable	Temperature Maximum	Flow Unregulated
	Units	ug/L	degF	MGD
	Sample Type	24 HR FLOW PROP	MEASURE	CONTINUOUS
	Frequency	MONTHLY	3/WEEK	DAILY
Sample Results	Day 1		51.7	0.800
	2		51.6	1.514
	3	28.2	51.7	2.275
	4		51.9	1.417
	5			0.634
	6			1.267
	7			2.315
	8			2.511
	9			2.739
	10			3.430
	11			2.293
	12			2.574
	13			2.612
	14			2.601
	15			2.573
	16			2.573
	17			2.840
	18			2.956
	19			2.833
	20			2.833
	21			3.078
	22			2.610
	23			2.344
	24			2.966
	25			2.967
	26			2.430
	27			2.491
	28			2.973
	29			2.975
	30			2.569
	31			2.494

	Sample Point	001	001	101
	Description	Effluent	Effluent	Effluent Reuse
	Parameter	553	480	671
	Description	Zinc, Total Recoverable	Temperature Maximum	Flow Unregulated
	Units	ug/L	degF	MGD
Summary Values	Monthly Avg	28.2	51.725	2.435064516
	Daily Max	28.2	51.9	3.43
	Daily Min	28.2	51.6	0.634
	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	5.8		
	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

Laboratory Quality Control Comments

QC Violation for B.O.D. Blanks exceeding Depletion Limit on March 30th. QC Violations for GGA for exceeding Control Limits on March 13th and 27th. QC Violations for Ammonia for exceeding Control Limits on March 23rd, 25th and 27th.

Submitted by geurtsgcma on 04/08/2015 10:21:57 AM