

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: HEART OF VALLEY MSD WW TRTMNT FAC
 Contact Address: 801 Thilmany Road
 Kaukauna, WI 54130
 Facility Contact: Glen Geurts, District Director
 Phone Number: (920) 766-5731
 Reporting Period: 05/01/2015 - 05/31/2015
 Form Due Date: 06/21/2015
 Permit Number: 0031232

Date Received:
 DOC: 345938
 FIN: 6375
 FID: 445005220
 Region: Northeast Region
 Permit Drafter: Richard P Sachs
 Reviewer: Mark K. Corbett
 Office: Oshkosh

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	4.523	2.698	229	264	
	2	4.492	1.767	198	216	
	3	4.941	3.446	230	184	
	4	4.542	1.318	204	168	
	5	4.565	0.918	192	160	<1.0
	6	4.754	1.322	227	288	
	7	4.521	3.779	214	188	
	8	4.485	1.082	258	260	
	9	4.250	1.068	275	312	
	10	4.387	1.219	195	320	
	11	5.219	3.038	226	292	
	12	4.849	2.009	204	176	
	13	4.811	2.237	198	220	
	14	4.667	2.328	150	288	
	15	4.797	1.992	239	240	
	16	4.594	1.042	217	204	
	17	5.444	2.676	216	208	
	18	5.169	2.796	174	200	
	19	4.737	2.087	270	228	
	20	4.867	2.186	184	224	
	21	4.550	1.874	157	208	
	22	4.710	2.036	275	236	
	23	4.230	3.672	220	204	
	24	6.380	6.380	152	176	
	25	7.126	7.126	147	184	
	26	6.621	6.621	216	76	
	27	6.058	6.058	206	188	
	28	5.689	5.689	170	172	
	29	5.769	5.769	200	232	
	30	10.790	10.790	111	260	
	31	7.709	7.709	134	148	

	Sample Point	701	001	701	701	701
	Description	Influent	Effluent	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	5.298258065	3.378451613	202.838709677	216.903225806	0
	Daily Max	10.79	10.79	275	320	<1
	Daily Max - Variable					
	Daily Min	4.23	0.918	111	76	<1
	Geometric Mean					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean					
	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					
	4					
	5	7.7	52.2	1.9	3.0	85.5
	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	7.7	52.2	1.9	3	85.5
	Daily Max	7.7	52.2	1.9	3	85.5
	Daily Max - Variable					
	Daily Min	7.7	52.2	1.9	3	85.5
	Geometric Mean					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean					
	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	204	112
	Description	CBOD5	Suspended Solids, Total	pH Field	Fecal Coliform	Chlorine, Total Residual
	Units	mg/L	mg/L	su	#/100ml	ug/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	GRAB	GRAB
	Frequency	DAILY	5/WEEK	5/WEEK	WEEKLY	5/WEEK
Sample Results	Day 1	5	8	7.7		<100
	2	5	12	7.5		
	3	5	8	7.5		
	4	6	8	7.8		<100
	5	5	9	7.6	10	<100
	6	10	14	7.8		<100
	7	4	7	7.6		<100
	8	4	11	8.0		<100
	9	4	10	7.4		
	10	3	5	7.4		
	11	5	13	7.5		<100
	12	4	8	7.6		<100
	13	5	7	7.8	21	<100
	14	5	9	7.6		<100
	15	6	8	7.4		<100
	16	4	7	7.4		
	17	7	9	7.3		
	18	6	7	8.0		<100
	19	5	7	7.7		<100
	20	5	8	7.6	10	<100
	21	3	8	7.5		<100
	22	6	8	7.5		<100
	23	5	8	7.6		
	24	5	9	7.5		
	25	8	9	7.8		<100
	26	7	14	7.8		<100
	27	10	13	7.8		<100
	28	10	12	7.6	23	<100
	29	6	11	7.5		<100
	30	4	11	7.1		
	31	8	11	7.1		

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	649		457		377		204		112	
	Description	CBOD5		Suspended Solids, Total		pH Field		Fecal Coliform		Chlorine, Total Residual	
	Units	mg/L		mg/L		su		#/100ml		ug/L	
Summary Values	Monthly Avg	5.64516129		9.322580645		7.580645161		16		0	
	Daily Max	10		14		8		23		<100	
	Daily Max - Variable										
	Daily Min	3		5		7.1		10		<100	
	Geometric Mean							14.824729669			
	Week 1 Avg	5.714285714		9.428571429							
	Week 2 Avg	4.285714286		9							
	Week 3 Avg	5.142857143		7.714285714							
	Week 4 Avg	7.285714286		10.428571429							
Limit(s) in Effect	Monthly Avg	25	0	30	0						
	Daily Max					9	0			38	0
	Daily Max - Variable										
	Daily Min					6	0				
	Geometric Mean							400	0		
	Weekly Avg	40	0	45	0						
QA/QC Information	LOD									100	
	LOQ									100	
	QC Exceedance	Y		N		N		N		N	
	Lab Certification	445005220		445005220							

	Sample Point	001	001	001	001	001
	Description	Effluent	Effluent	Effluent	Effluent	Effluent
	Parameter	388	789	87	133	147
	Description	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable
	Units	mg/L	mg/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	5/WEEK	5/WEEK	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.35				
	2	0.40				
	3	0.34	0.4			
	4	0.38	0.4			
	5	0.38	0.4	<1.0	1.6	7.8
	6	0.40	0.5			
	7	0.41	0.3			
	8	0.46				
	9	0.43				
	10	0.39	0.2			
	11	0.48	0.4			
	12	0.69	0.3			
	13	0.43	0.2			
	14	0.45	0.2			
	15	0.48				
	16	0.44				
	17	0.42	0.4			
	18	0.40	0.3			
	19	0.49	0.3			
	20	0.40	0.5			
	21	0.66	0.5			
	22	0.46				
	23	0.49				
	24	0.46	0.4			
	25	0.37	0.5			
	26	0.41	0.4			
	27	0.48	0.4			
	28	0.64	0.4			
	29	0.50				
	30	0.51				
	31	0.35	0.3			

	Sample Point	001		001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	388		789		87		133		147	
	Description	Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable		Chromium, Total Recoverable		Copper, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
Summary Values	Monthly Avg	0.45		0.366666667		0		1.6		7.8	
	Daily Max	0.69		0.5		<1		1.6		7.8	
	Daily Max - Variable										
	Daily Min	0.34		0.2		<1		1.6		7.8	
	Geometric Mean										
	Week 1 Avg										
	Week 2 Avg										
	Week 3 Avg										
	Week 4 Avg										
Limit(s) in Effect	Monthly Avg	1	0	11	0						
	Daily Max			17	0						
	Daily Max - Variable										
	Daily Min										
	Geometric Mean										
	Weekly Avg										
QA/QC Information	LOD	0.086		0.057		1		1.5		3.4	
	LOQ	0.286		0.189		5		5		10	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	445005220		445005220		405132750		405132750		405132750	

	Sample Point	001	001	001	001	101
	Description	Effluent	Effluent	Effluent	Effluent	Effluent Reuse
	Parameter	264	315	553	480	671
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Temperature Maximum	Flow Unregulated
	Units	ug/L	ug/L	ug/L	degF	MGD
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	MEASURE	CONTINUOUS
	Frequency	MONTHLY	MONTHLY	MONTHLY	3/WEEK	DAILY
Sample Results	Day 1					1.825
	2					2.725
	3					1.495
	4					3.224
	5	3.1	5.5	26		3.647
	6					3.432
	7					0.742
	8					3.403
	9					3.182
	10					3.168
	11					2.181
	12					2.840
	13					2.574
	14					2.339
	15					2.805
	16					3.552
	17					2.768
	18					2.373
	19					2.650
	20					2.681
	21					2.676
	22					2.674
	23					0.558
	24					0.000
	25					0.000
	26					0.000
	27					0.000
	28					0.000
	29					0.000
	30					0.000
	31					0.000

	Sample Point	001	001	001	001	101
	Description	Effluent	Effluent	Effluent	Effluent	Effluent Reuse
	Parameter	264	315	553	480	671
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Temperature Maximum	Flow Unregulated
	Units	ug/L	ug/L	ug/L	degF	MGD
Summary Values	Monthly Avg	3.1	5.5	26		1.919806452
	Daily Max	3.1	5.5	26		3.647
	Daily Max - Variable					
	Daily Min	3.1	5.5	26		0
	Geometric Mean					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean					
	Weekly Avg					
QA/QC Information	LOD	1.6	1.3	5.8		
	LOQ	7.5	10	40		
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750	405132750	405132750		

	Sample Point	601	601	601	006	006
	Description	River Monitoring	River Monitoring	River Monitoring	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	400	399	401	545	12
	Description	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp	WLA CBOD5 Value	WLA Adjusted Value
	Units	cfs	cfs	degF	lbs/day	lbs/day
	Sample Type	GAUGE STN	CALCULATED	CALCULATED	SEE TABLE	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	5664	6351	55	5568	6682
	2	5678	5932	56	5568	6682
	3	5688	5709	58	5568	6682
	4	5091	5567	60	5568	6682
	5	4458	5530	61	5568	6682
	6	3829	5229	61	5568	6682
	7	2912	4767	61	5568	6682
	8	2981	4073	63	4735	5682
	9	2930	3545	65	4015	4818
	10	2872	3163	65	3597	4016
	11	3071	2924	62	3195	3834
	12	3117	2964	60	3712	4454
	13	2452	2998	59	3712	4454
	14	1724	2878	58	3712	4454
	15	1767	2591	58	3406	4087
	16	1760	2265	59	3100	3720
	17	1971	1926	60	2548	3058
	18	2233	1806	64	2254	2705
	19	1437	1933	65	2254	2705
	20	1421	1850	64	2254	2705
	21	1404	1766	62	2254	2705
	22	1416	1624	61	2266	2719
	23	1444	1420	61	1999	2399
	24	1501	1421	63	1746	2095
	25	2275	1441	64	1746	2095
	26	2979	1659	64	2036	2443
	27	6010	2050	66	2266	2719
	28	7027	3191	65	3597	4316
	29	6827	4573	67	4174	5009
	30	6979	5711	68	5568	6682
	31	6912	6711	67	5568	6682

	Sample Point	601	601	601	006	006
	Description	River Monitoring	River Monitoring	River Monitoring	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	400	399	401	545	12
	Description	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp	WLA CBOD5 Value	WLA Adjusted Value
	Units	cfs	cfs	degF	lbs/day	lbs/day
Summary Values	Monthly Avg	3478.387096774	3405.419354839	62	3699.677419355	4430
	Daily Max	7027	6711	68	5568	6682
	Daily Max - Variable					
	Daily Min	1404	1420	55	1746	2095
	Geometric Mean					
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	Monthly Avg					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Geometric Mean					
	Weekly Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	006	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	889	543	542
	Description	WLA CBOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day
	Sample Type	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY
Sample Results	Day 1	101		714
	2	68		657
	3	144		691
	4	60		664
	5	36		608
	6	110		624
	7	126	38976	645
	8	36	38143	580
	9	33	36590	545
	10	34	34619	435
	11	124	32246	499
	12	60	30390	523
	13	84	28534	497
	14	87	26678	458
	15	70	25349	492
	16	36	24434	495
	17	156	23385	617
	18	135	22444	628
	19	80	20986	648
	20	84	19528	648
	21	42	18070	603
	22	97	16930	630
	23	138	15829	732
	24	245	15027	821
	25	470	14519	1156
	26	364	14301	1440
	27	485	14313	1841
	28	474	15656	2273
	29	269	17564	2445
	30	378	21133	2685
	31	540	24955	2980

	Sample Point	006		006		006	
	Description	WLA CBOD5 Discharge Compliance		WLA CBOD5 Discharge Compliance		WLA CBOD5 Discharge Compliance	
	Parameter	889		543		542	
	Description	WLA CBOD5 Discharged		WLA 7 Day Sum Of WLA Values		WLA 7 Day Sum Of CBOD5 Discharged	
	Units	lbs/day		lbs/day		lbs/day	
Summary Values	Monthly Avg	166.64516129		23623.96		944.322580645	
	Daily Max	540		38976		2980	
	Daily Max - Variable	540				2980	
	Daily Min	33		14301		435	
	Geometric Mean						
	Week 1 Avg						
	Week 2 Avg						
	Week 3 Avg						
	Week 4 Avg						
Limit(s) in Effect	Monthly Avg						
	Daily Max						
	Daily Max - Variable	0	0			0	0
	Daily Min						
	Geometric Mean						
	Weekly Avg						
QA/QC Information	LOD						
	LOQ						
	QC Exceedance	N		N		N	
	Lab Certification						

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

BOD Blanks failed on 5/4 =0.32,5/5=0.26,5/12=0.27,5/18=0.28,5/25=0.26,5/26=0.68,5/27=0.26,5/31=-0.62
BOD GGA Failed on 5/22 = 147ppm

Submitted by K3vin1 on 06/09/2015 9:00:54 AM