

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: 09/01/2015 - 09/30/2015
 Form Due Date: 10/21/2015
 Permit Number: 0031232

Date Received:
 DOC: 347754
 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	4.186	0.207	257	256	<1.0
	2	4.190	1.543	262	252	
	3	4.214	1.001	310	220	
	4	3.916	0.954	128	236	
	5	3.750	0.146	228	324	
	6	3.930	0.752	222	212	
	7	6.446	3.445	170	176	
	8	15.346	12.893	132	124	
	9	7.331	4.465	81	128	
	10	5.736	2.759	133	124	
	11	5.120	2.233	148	148	
	12	4.850	3.840	163	172	
	13	4.952	4.952	203	196	
	14	4.775	4.775	165	196	
	15	4.371	4.371	181	208	
	16	4.508	4.508	207	216	
	17	4.518	4.518	211	216	
	18	6.199	6.199	204	192	
	19	6.942	6.942	125	148	
	20	6.059	6.059	153	156	
	21	5.360	5.360	174	180	
	22	5.030	4.565	186	184	
	23	4.780	2.055	176	300	
	24	4.503	1.520	158	176	
	25	4.587	1.652	207	216	
	26	4.300	1.721	200	196	
	27	4.692	1.564	214	200	
	28	4.632	1.964	221	216	
	29	4.422	1.480	236	204	
	30	4.534	1.769	204	228	
	31					

	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	5.272633333	3.3404	188.633333333	200	0
	Daily Max	15.346	12.893	310	324	<1
	Daily Max - Variable					
	Daily Min	3.75	0.146	81	124	<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	7.5	92	<1.6	6.6	146
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
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	20					
	21					
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	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	7.5	92	0	6.6	146
	Daily Max	7.5	92	<1.6	6.6	146
	Daily Max - Variable					
	Daily Min	7.5	92	<1.6	6.6	146
	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	28	7.4		<100
	2	6	24	7.9		<100
	3	6	29	7.7	275	<100
	4	5	26	7.8		<100
	5	4	31	7.6		
	6	4	30	7.6		
	7	4	24	7.6		<100
	8	12	48	7.2		<100
	9	8	24	7.6		<100
	10	4	26	7.3	125	<100
	11	4	22	7.8		<100
	12	4	24	7.4		
	13	4	22	7.5		
	14	5	21	7.6		<100
	15	4	27	7.3		<100
	16	5	28	7.6		<100
	17	11	26	7.6	95	<100
	18	5	29	8.0		<100
	19	4	26	7.3		
	20	5	18	7.5		
	21	7	25	8.0		<100
	22	7	23	7.6		<100
	23	4	25	7.8		<100
	24	8	32	7.4		<100
	25	5	30	7.7		<100
	26	5	26	7.8		
	27	6	34	7.8		
	28	10	30	7.4	30	<100
	29	8	32	7.6		<100
	30	11	28	7.5		<100
	31					

	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	6		27.266666667		7.596666667		131.25		0	
	Daily Max	12		48		8		275		<100	
	Daily Max - Variable										
	Daily Min	4		18		7.2		30		<100	
	Geometric Mean							99.488272914			
	Week 1 Avg	4.857142857		27.428571429							
	Week 2 Avg	5.857142857		26.714285714							
	Week 3 Avg	5.857142857		25.571428571							
	Week 4 Avg	6.428571429		28.571428571							
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	0.65	0.2	<1.0	2	9.8
	2	0.42	0.2			
	3	0.60	0.3			
	4	0.47				
	5	0.70				
	6	0.63	0.3			
	7	0.59	0.5			
	8	0.89	1.2			
	9	0.59	0.3			
	10	0.51	0.1			
	11	0.44				
	12	0.53				
	13	0.52	0.3			
	14	0.51	0.2			
	15	0.76	0.5			
	16	0.72	0.4			
	17	0.72	0.3			
	18	0.72				
	19	0.35				
	20	0.49	0.2			
	21	0.57	0.2			
	22	0.62	0.3			
	23	0.59	0.4			
	24	0.75	0.3			
	25	0.73				
	26	0.73				
	27	0.59	0.5			
	28	0.80	0.6			
	29	0.82	0.3			
	30	0.72	0.5			
	31					

	Sample Point	001		001		001		001	
	Description	Effluent		Effluent		Effluent		Effluent	
	Parameter	388		789		87		133	
	Description	Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable		Chromium, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L	
Summary Values	Monthly Avg	0.624333333		0.368181818		0		2	
	Daily Max	0.89		1.2		<1		2	
	Daily Max - Variable								
	Daily Min	0.35		0.1		<1		2	
	Geometric Mean								
	Week 1 Avg			0.3					
	Week 2 Avg			0.42					
	Week 3 Avg			0.32					
	Week 4 Avg			0.42					
Limit(s) in Effect	Monthly Avg	1	0	4.40	0				
	Daily Max			17	0				
	Daily Max - Variable								
	Daily Min								
	Geometric Mean								
	Weekly Avg			11	0				
QA/QC Information	LOD	0.086		0.057		1		1.5	
	LOQ	0.286		0.189		5		5	
	QC Exceedance	N		N		N		N	
	Lab Certification	445005220		445005220		405132750		405132750	

	Sample Point	001	001	001	101	601
	Description	Effluent	Effluent	Effluent	Effluent Reuse	River Monitoring
	Parameter	264	315	553	671	400
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow
	Units	ug/L	ug/L	ug/L	MGD	cfs
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	CONTINUOUS	GAUGE STN
	Frequency	MONTHLY	MONTHLY	MONTHLY	DAILY	DAILY
Sample Results	Day 1	<1.6	4.8	13.1	3.979	1803
	2				2.647	1867
	3				3.213	2124
	4				2.962	1949
	5				3.604	1921
	6				3.178	1954
	7				3.001	2354
	8				2.453	4197
	9				2.866	6472
	10				2.977	7891
	11				2.887	8000
	12				1.010	7893
	13				0.000	7915
	14				0.000	7132
	15				0.000	5834
	16				0.000	5800
	17				0.000	5362
	18				0.000	4536
	19				0.000	4551
	20				0.000	4775
	21				0.000	4844
	22				0.465	4768
	23				2.725	4576
	24				2.983	4500
	25				2.935	4480
	26				2.579	4477
	27				3.128	4489
	28				2.668	4501
	29				2.942	4858
	30				2.765	5401
	31					

	Sample Point	001	001	001	101	601
	Description	Effluent	Effluent	Effluent	Effluent Reuse	River Monitoring
	Parameter	264	315	553	671	400
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow
	Units	ug/L	ug/L	ug/L	MGD	cfs
Summary Values	Monthly Avg	0	4.8	13.1	1.932233333	4707.466666667
	Daily Max	<1.6	4.8	13.1	3.979	8000
	Daily Max - Variable					
	Daily Min	<1.6	4.8	13.1	0	1803
	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	006	006	006
	Description	River Monitoring	River Monitoring	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	399	401	545	12	889
	Description	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp	WLA CBOD5 Value	WLA Adjusted Value	WLA CBOD5 Discharged
	Units	cfs	degF	lbs/day	lbs/day	lbs/day
	Sample Type	CALCULATED	CALCULATED	SEE TABLE	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	1778	70	1523	1828	9
	2	1794	72	1523	1828	72
	3	1815	74	1436	1723	53
	4	1903	75	1436	1723	36
	5	1936	74	1436	1723	5
	6	1965	75	1436	1723	24
	7	1987	77	1436	1723	106
	8	2045	77	1558	1870	1290
	9	2607	76	1819	2183	298
	10	3744	75	2517	3020	87
	11	5229	74	3803	4564	77
	12	6640	72	4434	5321	135
	13	7564	69	5208	6250	147
	14	7925	69	5208	6250	184
	15	7735	69	5208	6250	141
	16	7194	70	4434	5321	171
	17	6670	71	4434	5321	403
	18	6032	71	4434	5321	270
	19	5383	71	4434	5321	224
	20	5062	70	4434	5321	235
	21	4806	69	3526	4231	300
	22	4677	68	3526	4231	262
	23	4735	68	3526	4231	67
	24	4741	68	3526	4231	97
	25	4672	69	3526	4231	62
	26	4581	69	3526	4231	73
	27	4508	70	3137	3764	84
	28	4487	69	3526	4231	160
	29	4487	69	3526	4231	95
	30	4581	69	3526	4231	167
	31					

	Sample Point	601	601	006	006	006
	Description	River Monitoring	River Monitoring	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	399	401	545	12	889
	Description	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp	WLA CBOD5 Value	WLA Adjusted Value	WLA CBOD5 Discharged
Units	cfs	degF	lbs/day	lbs/day	lbs/day	
Summary Values	Monthly Avg	4442.766666667	71.3	3234.066666667	3880.9	177.8
	Daily Max	7925	77	5208	6250	1290
	Daily Max - Variable					1290
	Daily Min	1778	68	1436	1723	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					0 0
	Daily Min					
	Geometric Mean					
	Weekly Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	N	N	N
	Lab Certification					

	Sample Point	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	543	542
	Description	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day
	Sample Type	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY
Sample Results	Day 1	11719	721
	2	11388	572
	3	11202	550
	4	11016	504
	5	10830	382
	6	10644	224
	7	10226	305
	8	10261	1586
	9	10557	1812
	10	11638	1846
	11	14005	1887
	12	17003	2017
	13	20775	2140
	14	24547	2218
	15	28197	1069
	16	30812	942
	17	32729	1258
	18	33360	1451
	19	33360	1540
	20	32586	1628
	21	30904	1744
	22	29222	1865
	23	28314	1761
	24	27406	1455
	25	26498	1247
	26	25590	1096
	27	24293	945
	28	24293	805
	29	24293	638
	30	24293	738
	31		

	Sample Point	006		006	
	Description	WLA CBOD5 Discharge Compliance		WLA CBOD5 Discharge Compliance	
	Parameter	543		542	
	Description	WLA 7 Day Sum Of WLA Values		WLA 7 Day Sum Of CBOD5 Discharged	
	Units	lbs/day		lbs/day	
Summary Values	Monthly Avg	21398.7		1231.533333333	
	Daily Max	33360		2218	
	Daily Max - Variable			2218	
	Daily Min	10226		224	
	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
	Daily Min				
	Geometric Mean				
	Weekly Avg				
QA/QC Information	LOD				
	LOQ				
	QC Exceedance	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: 9/6(0.30) , 9/11(0.33), 9/15(0.27),9/26(-0.39), 9/30(0.29)
GGA Failed : 9/3 (144mg/l)

Submitted by K3vin1 on 10/12/2015 12:52:34 PM