

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: 10/01/2017 - 10/31/2017
 Form Due Date: 11/21/2017
 Permit Number: 0031232

Date Received:
 DOC: 388322
 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	4.189	4.189	231	204	
	2	4.103	4.103	231	204	
	3	4.258	4.309	251	260	<1.3
	4	4.493	4.493	226	208	
	5	4.396	4.396	216	200	
	6	4.717	4.717	243	192	
	7	5.490	5.490	123	60	
	8	2.381	5.136	188	176	
	9	1.973	4.728	222	228	
	10	1.175	4.412	228	172	
	11	1.693	4.537	201	236	
	12	2.283	4.574	228	204	
	13	2.891	4.703	206	236	
	14	4.096	5.234	153	132	
	15	5.582	6.504	172	148	
	16	4.573	5.740	155	164	
	17	3.452	5.260	197	188	
	18	2.059	4.737	188	192	
	19	1.987	4.663	201	188	
	20	1.669	4.350	249	216	
	21	1.794	4.450	192	196	
	22	2.406	4.999	210	188	
	23	2.162	4.684	186	176	
	24	1.930	4.351	181	204	
	25	1.752	4.269	216	156	
	26	1.748	4.270	186	228	
	27	1.533	4.032	243	208	
	28	1.349	3.853	195	156	
	29	1.509	4.024	225	176	
	30	1.368	3.880	214	156	
	31	1.418	3.929	233	236	

	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	2.788032258	4.613419355	206.129032258	189.935483871	0
	Daily Max	5.582	6.504	251	260	<1.3
	Daily Max - Variable					
	Daily Min	1.175	3.853	123	60	<1.3
	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					
	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	10.4	102	8.6	7.2	172
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	15					
	16					
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	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	10.4	102	8.6	7.2	172
	Daily Max	10.4	102	8.6	7.2	172
	Daily Max - Variable					
	Daily Min	10.4	102	8.6	7.2	172
	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					
	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	DAILY	5/WEEK	5/WEEK	5/WEEK	5/WEEK
Sample Results	Day 1	5	23	8.1	0.53	0.3
	2	5	22	7.7	0.45	0.9
	3	5	19	7.7	0.30	0.8
	4	5	16	7.6	0.43	0.6
	5	5	19	7.6	0.44	0.5
	6	5	14	7.5	0.36	
	7	5	13	7.6	0.33	
	8	4	14	7.6	0.31	0.3
	9	5	14	7.9	0.30	0.3
	10	5	16	7.6	0.35	0.4
	11	4	16	7.5	0.36	0.5
	12	5	19	7.5	0.54	1.1
	13	2	16	7.6	0.34	
	14	4	11	7.8	0.26	
	15	4	14	7.8	0.29	0.5
	16	5	13	7.4	0.30	0.5
	17	4	14	7.5	0.28	0.5
	18	6	15	7.6	0.35	0.1
	19	8	15	7.7	0.33	0.2
	20	4	18	7.4	0.37	
	21	4	16	7.6	0.36	
	22	5	20	7.6	0.39	0.8
	23	8	16	7.5	0.37	0.7
	24	5	18	7.6	0.20	0.3
	25	4	18	7.4	0.35	0.2
	26	4	24	7.7	0.38	0.3
	27	6	19	7.6	0.47	
	28	4	21	7.6	0.49	
	29	5	21	7.6	0.51	0.2
	30	5	19	7.5	0.46	0.5
	31	5	21	7.4	0.53	1.3

	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	4.838709677		17.225806452		7.606451613		0.378387097		0.513043478	
	Daily Max	8		24		8.1		0.54		1.3	
	Daily Max - Variable										
	Daily Min	2		11		7.4		0.2		0.1	
	Week 1 Avg	5		18							
	Week 2 Avg	4.142857143		15.142857143							
	Week 3 Avg	5		15							
	Week 4 Avg	5.142857143		19.428571429							
Limit(s) in Effect	Monthly Avg	25	0	30	0			1	0	18	0
	Daily Max					9	0			17	0
	Daily Max - Variable										
	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	<1.3	2.6	8.8	<4.3	7.1
	4					
	5					
	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	2.6	8.8	0	7.1
	Daily Max	<1.3	2.6	8.8	<4.3	7.1
	Daily Max - Variable					
	Daily Min	<1.3	2.6	8.8	<4.3	7.1
	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					
	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	601	601	601
	Description	Effluent	Effluent Reuse	River Monitoring	River Monitoring	River Monitoring
	Parameter	553	671	400	399	401
	Description	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp
	Units	ug/L	MGD	cfs	cfs	degF
	Sample Type	24 HR FLOW PROP	CONTINUOUS	GAUGE STN	CALCULATED	CALCULATED
	Frequency	MONTHLY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1		0	5270	5343	68
	2		0	4310	5300	67
	3	18.8	0.051	3710	5028	66
	4		0	3730	4635	67
	5		0	3650	4255	67
	6		0	3670	3850	66
	7		0	3900	3690	65
	8		0.752	3770	3738	65
	9		2.755	3660	3748	65
	10		3.237	3690	3750	65
	11		2.844	3800	3755	64
	12		2.291	4430	3730	62
	13		1.812	5000	3895	61
	14		1.138	5220	4230	61
	15		0.922	5210	4613	60
	16		1.167	4860	4965	60
	17		1.808	4880	5073	59
	18		2.678	4950	5043	58
	19		2.676	4810	4975	59
	20		2.681	4810	4875	59
	21		2.656	4790	4863	59
	22		2.593	4770	4840	60
	23		2.522	5290	4795	60
	24		2.421	5680	4915	59
	25		2.517	5750	5133	57
	26		2.522	5760	5373	55
	27		2.499	5660	5620	54
	28		2.504	5530	5713	53
	29		2.515	5500	5675	51
	30		2.512	4940	5613	50
	31		2.511	4430	5408	49

	Sample Point	001	101	601	601	601
	Description	Effluent	Effluent Reuse	River Monitoring	River Monitoring	River Monitoring
	Parameter	553	671	400	399	401
	Description	Zinc, Total Recoverable	Flow Unregulated	WLA Previous Day River Flow	WLA Previous 4 Day Avg River Flow	WLA Previous Day River Temp
	Units	ug/L	MGD	cfs	cfs	degF
Summary Values	Monthly Avg	18.8	1.760774194	4691.290322581	4723.838709677	60.35483871
	Daily Max	18.8	3.237	5760	5713	68
	Daily Max - Variable					
	Daily Min	18.8	0	3650	3690	49
	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					
	Weekly Avg					
QA/QC Information	LOD	9.3				
	LOQ	40				
	QC Exceedance	N	N	N	N	N
	Lab Certification	405132750				

	Sample Point	006	006	006	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	545	12	889	543	542
	Description	WLA CBOD5 Value	WLA Adjusted Value	WLA CBOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
	Sample Type	SEE TABLE	CALCULATED	CALCULATED	CALCULATED	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	DAILY
Sample Results	Day 1	5323	7346	158	29403	1515
	2	5323	7346	183	30923	1625
	3	5323	7346	189	32443	1644
	4	3515	4851	169	32155	1321
	5	3515	4851	191	31867	1229
	6	2995	4133	177	30428	1235
	7	3385	4671	206	29379	1273
	8	3385	4671	157	27441	1272
	9	3385	4671	76	25503	1165
	10	3385	4671	45	23565	1021
	11	3385	4671	51	23435	903
	12	3385	4671	97	23305	809
	13	4019	5546	58	24329	690
	14	4995	6893	138	25939	622
	15	4995	6893	200	27549	665
	16	4995	6893	181	29159	770
	17	5568	7684	107	31342	832
	18	5568	7684	99	33525	880
	19	4995	6893	135	35135	918
	20	4995	6893	57	36111	917
	21	4995	6893	65	36111	844
	22	4995	6893	101	36111	745
	23	4995	6893	148	36111	712
	24	4995	6893	85	35538	690
	25	5568	7684	60	35538	651
	26	5568	7684	62	36111	578
	27	5568	7684	75	36684	596
	28	5568	7684	49	37257	580
	29	5568	7684	61	37830	540
	30	5568	7684	62	38403	454
	31	5568	7684	57	38976	426

	Sample Point	006	006	006	006	006
	Description	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance	WLA CBOD5 Discharge Compliance
	Parameter	545	12	889	543	542
	Description	WLA CBOD5 Value	WLA Adjusted Value	WLA CBOD5 Discharged	WLA 7 Day Sum Of WLA Values	WLA 7 Day Sum Of CBOD5 Discharged
	Units	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
Summary Values	Monthly Avg	4690	6472.193548387	112.870967742	31858.258064516	907.161290323
	Daily Max	5568	7684	206	38976	1644
	Daily Max - Variable			206		1644
	Daily Min	2995	4133	45	23305	426
	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
	Daily Min					
	Weekly Avg					
QA/QC Information	LOD					
	LOQ					
	QC Exceedance	N	N	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

Submitted by K3vin1 on 11/08/2017 11:39:41 AM