

**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: 01/01/2016 - 01/31/2016  
 Form Due Date: 02/21/2016  
 Permit Number: 0031232

Date Received:  
 DOC: 356551  
 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	2.973	5.416	224	188	
	2	3.267	5.516	219	164	
	3	3.245	5.494	204	220	
	4	2.772	5.200	187	132	
	5	2.388	5.100	213	172	<1.0
	6	2.389	5.100	211	192	
	7	2.939	5.650	171	152	
	8	6.240	8.950	224	200	
	9	9.760	12.474	159	188	
	10	6.587	8.732	171	144	
	11	5.064	7.425	160	120	
	12	3.815	6.576	165	132	
	13	3.945	6.355	192	156	
	14	4.383	6.036	155	128	
	15	4.366	5.639	181	152	
	16	2.657	5.997	227	192	
	17	3.518	5.549	200	152	
	18	3.323	5.119	194	164	
	19	2.309	4.943	201	152	
	20	1.782	5.081	183	180	
	21	2.841	4.862	194	192	
	22	2.565	4.798	246	252	
	23	1.984	4.678	215	188	
	24	2.263	4.936	198	176	
	25	2.125	4.600	221	188	
	26	2.082	4.500	230	184	
	27	2.329	4.700	273	256	
	28	2.028	4.400	238	256	
	29	2.571	4.420	260	224	
	30	3.604	4.480	232	196	
	31	2.746	5.180	229	208	

	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
<b>Summary Values</b>	<b>Monthly Avg</b>	3.382580645	5.738903226	205.709677419	180.64516129	0
	<b>Daily Max</b>	9.76	12.474	273	256	<1
	<b>Daily Min</b>	1.782	4.4	155	120	<1
	<b>Week 1 Avg</b>					
	<b>Week 2 Avg</b>					
	<b>Week 3 Avg</b>					
	<b>Week 4 Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>					1
	<b>LOQ</b>					5
	<b>QC Exceedance</b>	N	N	Y	N	N
	<b>Lab Certification</b>			445005220	445005220	405132750

	<b>Sample Point</b>	701	701	701	701	001
	<b>Description</b>	Influent	Influent	Influent	Influent	Effluent
	<b>Parameter</b>	133	147	264	315	649
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	CBOD5
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	mg/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	5/WEEK
<b>Sample Results</b>	<b>Day 1</b>					4
	<b>2</b>					5
	<b>3</b>					4
	<b>4</b>					5
	<b>5</b>	4.2	55.6	2.5	4.1	4
	<b>6</b>					2
	<b>7</b>					6
	<b>8</b>					6
	<b>9</b>					6
	<b>10</b>					3
	<b>11</b>					5
	<b>12</b>					8
	<b>13</b>					5
	<b>14</b>					4
	<b>15</b>					3
	<b>16</b>					4
	<b>17</b>					3
	<b>18</b>					3
	<b>19</b>					4
	<b>20</b>					4
	<b>21</b>					5
	<b>22</b>					5
	<b>23</b>					5
	<b>24</b>					4
	<b>25</b>					4
	<b>26</b>					6
	<b>27</b>					6
	<b>28</b>					5
	<b>29</b>					7
	<b>30</b>					6
	<b>31</b>					4

	<b>Sample Point</b>	701		701		701		701		001	
	<b>Description</b>	Influent		Influent		Influent		Influent		Effluent	
	<b>Parameter</b>	133		147		264		315		649	
	<b>Description</b>	Chromium, Total Recoverable		Copper, Total Recoverable		Lead, Total Recoverable		Nickel, Total Recoverable		CBOD5	
	<b>Units</b>	ug/L		ug/L		ug/L		ug/L		mg/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	4.2		55.6		2.5		4.1		4.677419355	
	<b>Daily Max</b>	4.2		55.6		2.5		4.1		8	
	<b>Daily Min</b>	4.2		55.6		2.5		4.1		2	
	<b>Week 1 Avg</b>									4.285714286	
	<b>Week 2 Avg</b>									5.285714286	
	<b>Week 3 Avg</b>									3.714285714	
	<b>Week 4 Avg</b>									5	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>									25	0
	<b>Daily Max</b>										
	<b>Daily Min</b>										
	<b>Weekly Avg</b>									40	0
<b>QA/QC Information</b>	<b>LOD</b>	1.5		3.4		1.6		1.3			
	<b>LOQ</b>	5		10		7.5		10			
	<b>QC Exceedance</b>	N		N		N		N		Y	
	<b>Lab Certification</b>	405132750		405132750		405132750		405132750		445005220	

	<b>Sample Point</b>	701	001	001	001	001
	<b>Description</b>	Influent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	553	457	377	388	789
	<b>Description</b>	Zinc, Total Recoverable	Suspended Solids, Total	pH Field	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total
	<b>Units</b>	ug/L	mg/L	su	mg/L	mg/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	5/WEEK	5/WEEK	5/WEEK	5/WEEK
<b>Sample Results</b>	<b>Day 1</b>		7	7.6	0.32	
	<b>2</b>		10	7.4	0.28	
	<b>3</b>		11	7.4	0.26	0.2
	<b>4</b>		9	7.7	0.24	0.1
	<b>5</b>	94.6	10	7.6	0.40	0.2
	<b>6</b>		11	7.6	0.36	0.1
	<b>7</b>		12	7.8	0.33	0.4
	<b>8</b>		10	7.8	0.31	
	<b>9</b>		12	7.6	0.25	
	<b>10</b>		10	7.7	0.23	0.1
	<b>11</b>		14	7.4	0.33	0.1
	<b>12</b>		20	7.5	0.46	0.1
	<b>13</b>		10	7.4	0.23	0.1
	<b>14</b>		9	7.5	0.20	0.1
	<b>15</b>		9	7.8	0.25	
	<b>16</b>		10	7.4	0.18	
	<b>17</b>		8	7.5	0.16	0.1
	<b>18</b>		7	7.5	0.18	0.1
	<b>19</b>		9	7.5	0.29	0.1
	<b>20</b>		8	7.8	0.21	0.1
	<b>21</b>		9	7.4	0.26	0.1
	<b>22</b>		10	7.6	0.29	
	<b>23</b>		10	7.6	0.42	
	<b>24</b>		11	7.7	0.31	0.1
	<b>25</b>		10	7.8	0.31	0.1
	<b>26</b>		15	7.5	0.58	0.5
	<b>27</b>		11	7.5	0.33	0.2
	<b>28</b>		14	7.4	0.27	0.1
	<b>29</b>		13	7.4	0.59	
	<b>30</b>		14	7.6	0.41	
	<b>31</b>		11	7.6	0.27	0.2

	Sample Point	701		001		001		001		001	
	Description	Influent		Effluent		Effluent		Effluent		Effluent	
	Parameter	553		457		377		388		789	
	Description	Zinc, Total Recoverable		Suspended Solids, Total		pH Field		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total	
	Units	ug/L		mg/L		su		mg/L		mg/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	94.6		10.774193548		7.567741935		0.306774194		0.152380952	
	<b>Daily Max</b>	94.6		20		7.8		0.59		0.5	
	<b>Daily Min</b>	94.6		7		7.4		0.16		0.1	
	<b>Week 1 Avg</b>			10						0.2	
	<b>Week 2 Avg</b>			12.142857143						0.1	
	<b>Week 3 Avg</b>			8.571428571						0.1	
	<b>Week 4 Avg</b>			11.571428571						0.2	
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>			30	0			1	0	10	0
	<b>Daily Max</b>					9	0			17	0
	<b>Daily Min</b>					6	0				
	<b>Weekly Avg</b>			45	0					28	0
<b>QA/QC Information</b>	<b>LOD</b>	5.8						0.015		0.052	
	<b>LOQ</b>	40						0.051		0.172	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>	405132750		445005220				445005220		445005220	

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	87	133	147	264	315
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>					
	<b>2</b>					
	<b>3</b>					
	<b>4</b>					
	<b>5</b>	<1.0	<1.5	8.3	1.8	3.9
	<b>6</b>					
	<b>7</b>					
	<b>8</b>					
	<b>9</b>					
	<b>10</b>					
	<b>11</b>					
	<b>12</b>					
	<b>13</b>					
	<b>14</b>					
	<b>15</b>					
	<b>16</b>					
	<b>17</b>					
	<b>18</b>					
	<b>19</b>					
	<b>20</b>					
	<b>21</b>					
	<b>22</b>					
	<b>23</b>					
	<b>24</b>					
	<b>25</b>					
	<b>26</b>					
	<b>27</b>					
	<b>28</b>					
	<b>29</b>					
	<b>30</b>					
	<b>31</b>					

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	87	133	147	264	315
	<b>Description</b>	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	0	0	8.3	1.8	3.9
	<b>Daily Max</b>	<1	<1.5	8.3	1.8	3.9
	<b>Daily Min</b>	<1	<1.5	8.3	1.8	3.9
	<b>Week 1 Avg</b>					
	<b>Week 2 Avg</b>					
	<b>Week 3 Avg</b>					
	<b>Week 4 Avg</b>					
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>					
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>	1	1.5	3.4	1.6	1.3
	<b>LOQ</b>	5	5	10	7.5	10
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750	405132750	405132750	405132750	405132750



	<b>Sample Point</b>	001	101
	<b>Description</b>	Effluent	Effluent Reuse
	<b>Parameter</b>	553	671
	<b>Description</b>	Zinc, Total Recoverable	Flow Unregulated
	<b>Units</b>	ug/L	MGD
	<b>Sample Type</b>	24 HR FLOW PROP	CONTINUOUS
	<b>Frequency</b>	MONTHLY	DAILY
<b>Sample Results</b>	<b>Day 1</b>		2.443
	<b>2</b>		2.249
	<b>3</b>		2.249
	<b>4</b>		2.428
	<b>5</b>	25.4	2.712
	<b>6</b>		2.711
	<b>7</b>		2.711
	<b>8</b>		2.710
	<b>9</b>		2.714
	<b>10</b>		2.145
	<b>11</b>		2.361
	<b>12</b>		2.761
	<b>13</b>		2.410
	<b>14</b>		1.653
	<b>15</b>		1.273
	<b>16</b>		3.340
	<b>17</b>		2.031
	<b>18</b>		1.796
	<b>19</b>		2.634
	<b>20</b>		3.299
	<b>21</b>		2.021
	<b>22</b>		2.233
	<b>23</b>		2.694
	<b>24</b>		2.673
	<b>25</b>		2.475
	<b>26</b>		2.418
	<b>27</b>		2.371
	<b>28</b>		2.372
	<b>29</b>		1.849
	<b>30</b>		0.876
	<b>31</b>		2.434

	<b>Sample Point</b>	001	101
	<b>Description</b>	Effluent	Effluent Reuse
	<b>Parameter</b>	553	671
	<b>Description</b>	Zinc, Total Recoverable	Flow Unregulated
	<b>Units</b>	ug/L	MGD
<b>Summary Values</b>	<b>Monthly Avg</b>	25.4	2.356322581
	<b>Daily Max</b>	25.4	3.34
	<b>Daily Min</b>	25.4	0.876
	<b>Week 1 Avg</b>		
	<b>Week 2 Avg</b>		
	<b>Week 3 Avg</b>		
	<b>Week 4 Avg</b>		
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>		
	<b>Daily Max</b>		
	<b>Daily Min</b>		
	<b>Weekly Avg</b>		
<b>QA/QC Information</b>	<b>LOD</b>	5.8	
	<b>LOQ</b>	40	
	<b>QC Exceedance</b>	N	N
	<b>Lab Certification</b>	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

BOD Blanks Failed: 1/4(0.43),1/6(0.34),1/15(0.57),1/18(0.58),1/21(0.27),1/23(0.27),1/26(0.31),1/27(0.33)  
GGA Failed: 1/8(232),1/29(231)

Submitted by K3vin1 on 02/11/2016 12:58:25 PM