

**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: HEART OF THE VALLEY METRO SEWERAGE DISTRICT  
 Contact Address: 801 Thilmany Rd  
 Kaukauna, WI 54130  
 Facility Contact: Brian Helming, District Director  
 Phone Number: 920-766-5731  
 Reporting Period: 03/01/2018 - 03/31/2018  
 Form Due Date: 04/21/2018  
 Permit Number: 0031232

Date Received:  
 DOC: 393934  
 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	2.240	4.953	245	236	
	2	1.790	4.501	235	236	
	3	1.879	4.370	197	156	
	4	2.111	4.533	212	408	
	5	1.740	4.177	347	308	
	6	1.781	4.274	334	252	<1.3
	7	2.268	4.975	315	228	
	8	1.679	4.394	253	240	
	9	1.724	4.441	228	132	
	10	1.841	4.450	304	224	
	11	1.930	4.648	296	200	
	12	2.046	4.745	315	252	
	13	1.756	4.457	263	212	
	14	1.771	4.481	291	280	
	15	1.741	4.452	264	196	
	16	1.478	4.200	241	208	
	17	1.584	4.301	247	184	
	18	1.978	4.695	278	208	
	19	1.505	4.230	239	188	
	20	1.302	4.025	244	208	
	21	1.331	4.049	226	212	
	22	1.419	4.138	257	244	
	23	1.591	4.121	193	100	
	24	1.514	3.952	206	120	
	25	1.712	4.144	263	256	
	26	1.813	4.414	265	212	
	27	2.135	5.113	210	220	
	28	1.728	4.737	260	236	
	29	1.984	4.682	208	164	
	30	1.917	4.628	374	172	
	31	2.667	5.384	192	172	

	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>	1.805	4.473032258	258.129032258	214.967741935	0
	<b>Daily Max</b>	2.667	5.384	374	408	<1.3
	<b>Daily Min</b>	1.302	3.952	192	100	<1.3
	<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>					1.3
	<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>					6
	<b>2</b>					4
	<b>3</b>					5
	<b>4</b>					7
	<b>5</b>					8
	<b>6</b>	8.0	84.4	6.1	5.7	5
	<b>7</b>					4
	<b>8</b>					5
	<b>9</b>					6
	<b>10</b>					4
	<b>11</b>					5
	<b>12</b>					7
	<b>13</b>					7
	<b>14</b>					6
	<b>15</b>					7
	<b>16</b>					5
	<b>17</b>					5
	<b>18</b>					6
	<b>19</b>					5
	<b>20</b>					5
	<b>21</b>					7
	<b>22</b>					5
	<b>23</b>					5
	<b>24</b>					5
	<b>25</b>					5
	<b>26</b>					6
	<b>27</b>					5
	<b>28</b>					6
	<b>29</b>					6
	<b>30</b>					5
	<b>31</b>					5

	<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>	8	84.4	6.1	5.7	5.548387097	
	<b>Daily Max</b>	8	84.4	6.1	5.7	8	
	<b>Daily Min</b>	8	84.4	6.1	5.7	4	
	<b>Week 1 Avg</b>					5.571428571	
	<b>Week 2 Avg</b>					5.714285714	
	<b>Week 3 Avg</b>					5.714285714	
	<b>Week 4 Avg</b>					5.285714286	
<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>	2.5	6.3	4.3	2.6		
	<b>LOQ</b>	10	20	13	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>		12	7.4	0.30	0.3
	<b>2</b>		8	7.2	0.23	
	<b>3</b>		9	7.3	0.24	
	<b>4</b>		31	7.1	0.51	0.1
	<b>5</b>		28	7.3	0.54	0.2
	<b>6</b>	123	14	7.2	0.33	0.1
	<b>7</b>		8	7.5	0.20	0.1
	<b>8</b>		11	7.3	0.24	0.3
	<b>9</b>		13	7.7	0.33	
	<b>10</b>		9	7.4	0.20	
	<b>11</b>		6	7.3	0.24	0.3
	<b>12</b>		14	7.7	0.35	0.3
	<b>13</b>		16	7.2	0.34	0.3
	<b>14</b>		11	7.1	0.32	0.4
	<b>15</b>		12	7.2	0.35	0.5
	<b>16</b>		10	7.2	0.22	
	<b>17</b>		11	7.5	0.23	
	<b>18</b>		10	7.5	0.26	0.2
	<b>19</b>		6	7.2	0.29	0.2
	<b>20</b>		10	7.2	0.32	0.2
	<b>21</b>		11	7.2	0.27	0.2
	<b>22</b>		6	7.4	0.21	0.1
	<b>23</b>		7	7.1	0.23	
	<b>24</b>		6	7.1	0.22	
	<b>25</b>		8	7.1	0.23	0.2
	<b>26</b>		8	7.4	0.27	0.2
	<b>27</b>		8	7.0	0.19	0.2
	<b>28</b>		7	7.2	0.23	0.2
	<b>29</b>		10	7.3	0.24	0.2
	<b>30</b>		7	7.4	0.20	
	<b>31</b>		8	7.4	0.21	

	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>	123	10.806451613	7.293548387	0.275483871	0.228571429			
	<b>Daily Max</b>	123	31	7.7	0.54	0.5			
	<b>Daily Min</b>	123	6	7	0.19	0.1			
	<b>Week 1 Avg</b>		15.714285714			0.16			
	<b>Week 2 Avg</b>		11.428571429			0.32			
	<b>Week 3 Avg</b>		10			0.26			
	<b>Week 4 Avg</b>		7.142857143			0.18			
<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>	9.3				0.026		0.045	
	<b>LOQ</b>	40				0.087		0.15	
	<b>QC Exceedance</b>	N	N	N	N	Y		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>					
	<b>6</b>	<1.3	<2.5	12.1	<4.3	5.9
	<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>					
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	<b>19</b>					
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	<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	12.1	0	5.9
	<b>Daily Max</b>	<1.3	<2.5	12.1	<4.3	5.9
	<b>Daily Min</b>	<1.3	<2.5	12.1	<4.3	5.9
	<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>	1.3	2.5	6.3	4.3	2.6
	<b>LOQ</b>	5	10	20	13	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>		2.713
	<b>2</b>		2.711
	<b>3</b>		2.491
	<b>4</b>		2.422
	<b>5</b>		2.437
	<b>6</b>	24.2	2.493
	<b>7</b>		2.707
	<b>8</b>		2.715
	<b>9</b>		2.717
	<b>10</b>		2.609
	<b>11</b>		2.718
	<b>12</b>		2.699
	<b>13</b>		2.701
	<b>14</b>		2.710
	<b>15</b>		2.711
	<b>16</b>		2.722
	<b>17</b>		2.717
	<b>18</b>		2.717
	<b>19</b>		2.725
	<b>20</b>		2.723
	<b>21</b>		2.718
	<b>22</b>		2.719
	<b>23</b>		2.530
	<b>24</b>		2.438
	<b>25</b>		2.432
	<b>26</b>		2.601
	<b>27</b>		2.978
	<b>28</b>		3.009
	<b>29</b>		2.698
	<b>30</b>		2.711
	<b>31</b>		2.717

	<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>	24.2	2.668032258
	<b>Daily Max</b>	24.2	3.009
	<b>Daily Min</b>	24.2	2.422
	<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>	9.3	
	<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: 3/21(0.32); 3/25(0.30)  
TP BLK: (0.046 ppm), Exceeds: 0.026 ppm  
TP CS: (0.816 ppm), Exceeds: 0.90 ppm

Submitted by K3vin1 on 04/12/2018 7:14:29 AM