

# 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: 01/01/2021 - 01/31/2021  
 Form Due Date: 02/21/2021  
 Permit Number: 0031232

Date Received:  
 DOC: 461510  
 FIN: 6375  
 FID: 445005220  
 Region: Northeast Region  
 Permit Drafter: Lisa L Lumley  
 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	2.162	4.787	287	284	
	2	1.912	4.555	367	188	
	3	2.225	4.862	274	224	
	4	1.433	4.745	294	256	
	5	2.414	5.046	329	260	1.3
	6	1.668	4.392	309	244	
	7	1.573	4.757	352	228	
	8	1.690	4.427	280	160	
	9	0.652	3.941	368	212	
	10	1.941	4.777	422	340	
	11	0.958	3.999	330	224	
	12	1.170	4.013	370	260	
	13	2.094	4.618	331	240	
	14	1.902	4.712	333	272	
	15	2.873	5.951	174	68	
	16	2.977	5.751	171	60	
	17	3.123	5.844	307	208	
	18	2.896	5.561	256	200	
	19	2.257	5.088	260	252	
	20	2.636	5.413	347	224	
	21	2.471	5.183	259	200	
	22	2.375	5.105	262	264	
	23	2.232	4.955	233	160	
	24	2.312	5.109	251	252	
	25	2.129	4.958	282	236	
	26	2.187	5.008	285	228	
	27	1.702	4.742	319	200	
	28	1.812	4.702	296	252	
	29	1.846	4.742	283	168	
	30	1.907	4.624	296	104	
	31	2.298	5.031	368	244	

	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>	2.058935484	4.883806452	299.838709677	216.516129032	1.3
	<b>Daily Max</b>	3.123	5.951	422	340	1.3
	<b>Daily Min</b>	0.652	3.941	171	60	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>	001	701	701	701	701
	<b>Description</b>	Effluent	Influent	Influent	Influent	Influent
	<b>Parameter</b>	66	133	147	264	315
	<b>Description</b>	BOD5, Total	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	<b>Units</b>	mg/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>	5/WEEK	MONTHLY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	8				
	<b>2</b>	7				
	<b>3</b>	12				
	<b>4</b>	10				
	<b>5</b>	8	11.0	79.9	<5.9	7.4
	<b>6</b>	9				
	<b>7</b>	9				
	<b>8</b>	8				
	<b>9</b>	9				
	<b>10</b>	10				
	<b>11</b>	12				
	<b>12</b>	9				
	<b>13</b>	12				
	<b>14</b>	8				
	<b>15</b>	10				
	<b>16</b>	8				
	<b>17</b>	11				
	<b>18</b>	9				
	<b>19</b>	9				
	<b>20</b>	9				
	<b>21</b>	9				
	<b>22</b>	7				
	<b>23</b>	8				
	<b>24</b>	9				
	<b>25</b>	11				
	<b>26</b>	9				
	<b>27</b>	9				
	<b>28</b>	8				
	<b>29</b>	11				
	<b>30</b>	9				
	<b>31</b>	11				

	<b>Sample Point</b>	001	701	701	701	701
	<b>Description</b>	Effluent	Influent	Influent	Influent	Influent
	<b>Parameter</b>	66	133	147	264	315
	<b>Description</b>	BOD5, Total	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable
	<b>Units</b>	mg/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	9.290322581	11	79.9	0	7.4
	<b>Daily Max</b>	12	11	79.9	<5.9	7.4
	<b>Daily Min</b>	7	11	79.9	<5.9	7.4
	<b>Week 1 Avg</b>	9				
	<b>Week 2 Avg</b>	9.714285714				
	<b>Week 3 Avg</b>	9.285714286				
	<b>Week 4 Avg</b>	8.714285714				
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	30	0			
	<b>Daily Max</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>	45	0			
<b>QA/QC Information</b>	<b>LOD</b>		2.5	3.4	5.9	2.6
	<b>LOQ</b>		10	10	20	10
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	445005220	405132750	405132750	405132750	405132750

	<b>Sample Point</b>	701	001	001	001	001
	<b>Description</b>	Influent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	553	377	457	457	1348
	<b>Description</b>	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
	<b>Units</b>	ug/L	su	mg/L	lbs/day	lbs/month
	<b>Sample Type</b>	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED	CALCULATED
	<b>Frequency</b>	MONTHLY	5/WEEK	5/WEEK	5/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>		7.4	13	231	0
	<b>2</b>		7.4	14	217	0
	<b>3</b>		7.4	12	230	0
	<b>4</b>		7.2	14	167	0
	<b>5</b>	203	7.2	12	242	0
	<b>6</b>		7.0	13	178	0
	<b>7</b>		7.2	14	178	0
	<b>8</b>		7.4	13	186	0
	<b>9</b>		7.3	8	46	0
	<b>10</b>		8.1	17	278	0
	<b>11</b>		7.3	12	99	0
	<b>12</b>		7.2	12	113	0
	<b>13</b>		7.5	12	210	0
	<b>14</b>		7.3	10	165	0
	<b>15</b>		7.1	11	259	0
	<b>16</b>		7.0	8	199	0
	<b>17</b>		7.0	9	229	0
	<b>18</b>		7.7	10	232	0
	<b>19</b>		7.2	10	181	0
	<b>20</b>		7.4	8	176	0
	<b>21</b>		7.3	8	173	0
	<b>22</b>		7.7	11	214	0
	<b>23</b>		7.8	10	186	0
	<b>24</b>		7.6	9	170	0
	<b>25</b>		7.3	10	185	0
	<b>26</b>		7.5	9	168	0
	<b>27</b>		7.2	9	131	0
	<b>28</b>		7.3	8	127	0
	<b>29</b>		7.3	10	154	0
	<b>30</b>		7.9	9	146	0
	<b>31</b>		8.1	13	253	0

	Sample Point	701	001	001	001	001
	Description	Influent	Effluent	Effluent	Effluent	Effluent
	Parameter	553	377	457	457	1348
	Description	Zinc, Total Recoverable	pH Field	Suspended Solids, Total	Suspended Solids, Total	WQT Credits Used (TSS)
Units	ug/L	su	mg/L	lbs/day	lbs/month	
<b>Summary Values</b>	<b>Monthly Avg</b>	203	7.396774194	10.903225806	184.612903226	0
	<b>Daily Max</b>	203	8.1	17	278	0
	<b>Daily Min</b>	203	7	8	46	0
	<b>Week 1 Avg</b>			13.142857143		
	<b>Week 2 Avg</b>			12		
	<b>Week 3 Avg</b>			9.142857143		
	<b>Week 4 Avg</b>			9.428571429		
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>			30	0	
	<b>Daily Max</b>		9	0		
	<b>Daily Min</b>		6	0		
	<b>Weekly Avg</b>			45	0	
<b>QA/QC Information</b>	<b>LOD</b>	11.6				
	<b>LOQ</b>	40				
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750		445005220		

	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	1347	388	388	789	87
	<b>Description</b>	WQT Computed Compliance (TSS)	Phosphorus, Total	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Cadmium, Total Recoverable
	<b>Units</b>	lbs/day	mg/L	lbs/day	mg/L	ug/L
	<b>Sample Type</b>	CALCULATED	24 HR FLOW PROP	CALCULATED	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	5/WEEK	5/WEEK	5/WEEK	5/WEEK	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	231	0.38	6.85		
	<b>2</b>	217	0.35	5.58		
	<b>3</b>	230	0.41	7.61	0.7	
	<b>4</b>	167	0.35	4.18	0.3	
	<b>5</b>	242	0.32	6.44	0.3	<1.3
	<b>6</b>	178	0.35	4.87	0.2	
	<b>7</b>	178	0.35	4.59	0.4	
	<b>8</b>	186	0.34	4.79		
	<b>9</b>	46	0.35	1.90		
	<b>10</b>	278	0.38	6.15	0.5	
	<b>11</b>	99	0.51	4.07	0.7	
	<b>12</b>	113	0.35	3.42	0.5	
	<b>13</b>	210	0.31	5.41	0.5	
	<b>14</b>	165	0.31	4.92	0.4	
	<b>15</b>	259	0.25	5.99		
	<b>16</b>	199	0.37	9.19		
	<b>17</b>	229	0.27	7.03	0.6	
	<b>18</b>	232	0.25	6.04	0.4	
	<b>19</b>	181	0.24	4.52	0.3	
	<b>20</b>	176	0.27	5.94	0.4	
	<b>21</b>	173	0.26	5.36	0.5	
	<b>22</b>	214	0.22	4.36		
	<b>23</b>	186	0.29	5.40		
	<b>24</b>	170	0.24	4.63	0.4	
	<b>25</b>	185	0.26	4.62	0.5	
	<b>26</b>	168	0.24	4.38	0.5	
	<b>27</b>	131	0.29	4.12	0.3	
	<b>28</b>	127	0.29	4.38	0.2	
	<b>29</b>	154	0.28	4.31		
	<b>30</b>	146	0.30	4.77		
	<b>31</b>	253	0.35	6.71	0.4	

	<b>Sample Point</b>	001		001		001		001		001	
	<b>Description</b>	Effluent		Effluent		Effluent		Effluent		Effluent	
	<b>Parameter</b>	1347		388		388		789		87	
	<b>Description</b>	WQT Computed Compliance (TSS)		Phosphorus, Total		Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Cadmium, Total Recoverable	
	<b>Units</b>	lbs/day		mg/L		lbs/day		mg/L		ug/L	
<b>Summary Values</b>	<b>Monthly Avg</b>	184.612903226		0.313870968		5.242903226		0.428571429		0	
	<b>Daily Max</b>	278		0.51		9.19		0.7		<1.3	
	<b>Daily Min</b>	46		0.22		1.9		0.2		<1.3	
	<b>Week 1 Avg</b>	206.142857143						0.38			
	<b>Week 2 Avg</b>	156.714285714						0.52			
	<b>Week 3 Avg</b>	207						0.44			
	<b>Week 4 Avg</b>	168.714285714						0.38			
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	801	0	1	0			10	0		
	<b>Daily Max</b>							17	0		
	<b>Daily Min</b>										
	<b>Weekly Avg</b>	1345	0					28	0		
<b>QA/QC Information</b>	<b>LOD</b>			0.026				0.034		1.3	
	<b>LOQ</b>			0.087				0.113		5	
	<b>QC Exceedance</b>	N		N		N		N		N	
	<b>Lab Certification</b>			445005220				445005220		405132750	



	<b>Sample Point</b>	001	001	001	001	001
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	133	147	264	315	553
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, 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>	<2.5	9.0	<5.9	7.3	39.8
	<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>	133	147	264	315	553
	<b>Description</b>	Chromium, Total Recoverable	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	0	9	0	7.3	39.8
	<b>Daily Max</b>	<2.5	9	<5.9	7.3	39.8
	<b>Daily Min</b>	<2.5	9	<5.9	7.3	39.8
	<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>	2.5	3.4	5.9	2.6	11.6
	<b>LOQ</b>	10	10	20	10	40
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	405132750	405132750	405132750	405132750	405132750

	<b>Sample Point</b>	101	112
	<b>Description</b>	Effluent Reuse	In-Plant Diversion
	<b>Parameter</b>	671	211
	<b>Description</b>	Flow Unregulated	Flow Rate
	<b>Units</b>	MGD	MGD
	<b>Sample Type</b>	CONTINUOUS	CONTINUOUS
	<b>Frequency</b>	DAILY	DAILY
<b>Sample Results</b>	<b>Day 1</b>	2.627	0
	<b>2</b>	2.643	0
	<b>3</b>	2.637	0
	<b>4</b>	3.312	0
	<b>5</b>	2.632	0
	<b>6</b>	2.724	0
	<b>7</b>	3.184	0
	<b>8</b>	2.737	0
	<b>9</b>	3.289	0
	<b>10</b>	2.836	0
	<b>11</b>	3.041	0
	<b>12</b>	2.843	0
	<b>13</b>	2.524	0
	<b>14</b>	2.810	0
	<b>15</b>	3.078	0
	<b>16</b>	2.774	0
	<b>17</b>	2.721	0
	<b>18</b>	2.665	0
	<b>19</b>	2.831	0
	<b>20</b>	2.777	0
	<b>21</b>	2.712	0
	<b>22</b>	2.730	0
	<b>23</b>	2.723	0
	<b>24</b>	2.797	0
	<b>25</b>	2.829	0
	<b>26</b>	2.821	0
	<b>27</b>	3.040	0
	<b>28</b>	2.890	0
	<b>29</b>	2.896	0
	<b>30</b>	2.717	0
	<b>31</b>	2.733	0

	<b>Sample Point</b>	101	112
	<b>Description</b>	Effluent Reuse	In-Plant Diversion
	<b>Parameter</b>	671	211
	<b>Description</b>	Flow Unregulated	Flow Rate
	<b>Units</b>	MGD	MGD
<b>Summary Values</b>	<b>Monthly Avg</b>	2.824935484	0
	<b>Daily Max</b>	3.312	0
	<b>Daily Min</b>	2.524	0
	<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>		
	<b>LOQ</b>		
	<b>QC Exceedance</b>	N	N
	<b>Lab Certification</b>		

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

I certify that management practices identified in the approved water quality trading plan as the source of pollutant reduction credits are installed, established and properly maintained.

Laboratory Quality Control Comments

1-25-21 BOD Blank of -0.46.

Submitted by K3vin1 on 02/19/2021 8:10:28 AM