

**Wastewater Discharge Monitoring Long Report**

**For DNR Use Only**

Facility Name: FOND DU LAC WTRRF  
 Contact Address: 700 Doty St  
 Fond du Lac, WI 54935  
 Facility Contact: Cody Schoepke, Wastewater Superintendent  
 Phone Number: 920-251-9859  
 Reporting Period: 12/01/2023 - 12/31/2023  
 Form Due Date: 01/21/2024  
 Permit Number: 0023990

Date Received:  
 DOC: 531057  
 FIN: 7290  
 FID: 420004860  
 Region: Northeast Region  
 Permit Drafter: Sarah J Adkins  
 Reviewer: Mark F Stanek  
 Office: Oshkosh

	Sample Point	703	703	703	703	703
	Description	Influent	Influent	Influent	Influent	Influent
	Parameter	211	66	457	87	133
	Description	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable	Chromium, Total Recoverable
	Units	MGD	mg/L	mg/L	ug/L	ug/L
	Sample Type	CONTINUOUS	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	DAILY	MONTHLY	MONTHLY
Sample Results	Day 1	5.055	423	268	0.4	6.5
	2	4.902	405	210		
	3	5.578	301	316		
	4	5.954	441	228		
	5	6.118	378	316		
	6	5.384	496	268		
	7	5.356	372	130		
	8	5.355	528	260		
	9	6.068	444	208		
	10	6.027	391	240		
	11	6.232	502	316		
	12	5.997	376	228		
	13	5.958	386	256		
	14	5.983	369	130		
	15	5.696	373	124		
	16	5.332	405	256		
	17	5.420	319	248		
	18	5.613	376	260		
	19	5.776	563	278		
	20	5.430	354	208		
	21	5.263	410	284		
	22	5.187	420	256		
	23	5.208	514	236		
	24	4.821	670	300		
	25	4.527	424	254		
	26	5.303	432	278		
	27	5.197	443	288		
	28	7.888	244	80		
	29	7.340	247	202		
	30	6.303	238	78		
	31	6.009	209	162		

	<b>Sample Point</b>	703	703	703	703	703
	<b>Description</b>	Influent	Influent	Influent	Influent	Influent
	<b>Parameter</b>	211	66	457	87	133
	<b>Description</b>	Flow Rate	BOD5, Total	Suspended Solids, Total	Cadmium, Total Recoverable	Chromium, Total Recoverable
	<b>Units</b>	MGD	mg/L	mg/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	5.686451613	401.709677419	231.161290323	0.4	6.5
	<b>Daily Max</b>	7.888	670	316	0.4	6.5
	<b>Daily Max - Variable</b>					
	<b>Daily Min</b>	4.527	209	78	0.4	6.5
	<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 Max - Variable</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>				0.3	1.3
	<b>LOQ</b>				1	4.3
	<b>QC Exceedance</b>	N	Y	N	N	N
	<b>Lab Certification</b>		420004860	420004860	445023150	445023150

	<b>Sample Point</b>	703	703	703	703	003
	<b>Description</b>	Influent	Influent	Influent	Influent	Effluent
	<b>Parameter</b>	147	264	315	553	211
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	MGD
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	TOT DAILY
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	MONTHLY	DAILY
<b>Sample Results</b>	<b>Day 1</b>	49	7.4	13	62	5.055
	<b>2</b>					4.902
	<b>3</b>					5.578
	<b>4</b>					5.954
	<b>5</b>					6.118
	<b>6</b>					5.384
	<b>7</b>					5.356
	<b>8</b>					5.355
	<b>9</b>					6.068
	<b>10</b>					6.027
	<b>11</b>					6.232
	<b>12</b>					5.997
	<b>13</b>					5.958
	<b>14</b>					5.983
	<b>15</b>					5.696
	<b>16</b>					5.332
	<b>17</b>					5.420
	<b>18</b>					5.613
	<b>19</b>					5.776
	<b>20</b>					5.430
	<b>21</b>					5.263
	<b>22</b>					5.187
	<b>23</b>					5.208
	<b>24</b>					4.821
	<b>25</b>					4.527
	<b>26</b>					5.303
	<b>27</b>					5.197
	<b>28</b>					7.888
	<b>29</b>					7.340
	<b>30</b>					6.303
	<b>31</b>					6.009

	<b>Sample Point</b>	703	703	703	703	003
	<b>Description</b>	Influent	Influent	Influent	Influent	Effluent
	<b>Parameter</b>	147	264	315	553	211
	<b>Description</b>	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	<b>Units</b>	ug/L	ug/L	ug/L	ug/L	MGD
<b>Summary Values</b>	<b>Monthly Avg</b>	49	7.4	13	62	5.686451613
	<b>Daily Max</b>	49	7.4	13	62	7.888
	<b>Daily Max - Variable</b>					
	<b>Daily Min</b>	49	7.4	13	62	4.527
	<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 Max - Variable</b>					
	<b>Daily Min</b>					
	<b>Weekly Avg</b>					
<b>QA/QC Information</b>	<b>LOD</b>	0.8	3.5	1.3	2.2	
	<b>LOQ</b>	2.7	12	4.3	7.3	
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	445023150	445023150	445023150	445023150	

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	66	457	377	388	388
	<b>Description</b>	BOD5, Total	Suspended Solids, Total	pH Field	Phosphorus, Total	Phosphorus, Total
	<b>Units</b>	mg/L	mg/L	mg/L	mg/L	lbs/month
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED
	<b>Frequency</b>	DAILY	DAILY	DAILY	DAILY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	10	7.8	7.2	0.31	
	<b>2</b>	9	10.0	7.2	0.33	
	<b>3</b>	9	10.4	7.3	0.27	
	<b>4</b>	14	6.8	7.1	0.41	
	<b>5</b>	15	17.0	7.0	0.49	
	<b>6</b>	12	11.0	7.2	0.39	
	<b>7</b>	9	13.8	7.3	0.39	
	<b>8</b>	8	10.0	7.2	0.34	
	<b>9</b>	9	11.2	7.0	0.34	
	<b>10</b>	9	11.0	7.2	0.36	
	<b>11</b>	9	9.6	7.2	0.34	
	<b>12</b>	7	10.1	7.1	0.36	
	<b>13</b>	9	12.4	7.2	0.40	
	<b>14</b>	9	11.2	7.2	0.37	
	<b>15</b>	7	10.4	7.1	0.40	
	<b>16</b>	8	11.2	7.1	0.42	
	<b>17</b>	7	9.6	7.1	0.39	
	<b>18</b>	8	9.8	7.1	0.38	
	<b>19</b>	10	10.6	7.1	0.43	
	<b>20</b>	9	10.2	7.1	0.32	
	<b>21</b>	10	9.4	7.2	0.37	
	<b>22</b>	7	9.2	7.1	0.34	
	<b>23</b>	7	9.4	7.0	0.39	
	<b>24</b>	6	7.8	7.2	0.28	
	<b>25</b>	7	7.0	7.2	0.28	
	<b>26</b>	8	7.6	7.2	0.27	
	<b>27</b>	7	9.6	7.0	0.32	
	<b>28</b>	7	9.8	7.1	0.34	
	<b>29</b>	7	9.2	6.9	0.30	
	<b>30</b>	6	9.2	7.3	0.31	
	<b>31</b>	6	8.0	7.2	0.29	517.81

	Sample Point	003		003		003		003		003	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	66		457		377		388		388	
	Description	BOD5, Total		Suspended Solids, Total		pH Field		Phosphorus, Total		Phosphorus, Total	
	Units	mg/L		mg/L		mg/L		mg/L		lbs/month	
<b>Summary Values</b>	<b>Monthly Avg</b>	8.548387097		10.009677419		7.141935484		0.352580645		517.81	
	<b>Daily Max</b>	15		17		7.3		0.49		517.81	
	<b>Daily Max - Variable</b>										
	<b>Daily Min</b>	6		6.8		6.9		0.27		517.81	
	<b>Week 1 Avg</b>	11.142857143		10.971428571							
	<b>Week 2 Avg</b>	8.571428571		10.785714286							
	<b>Week 3 Avg</b>	8.428571429		10.171428571							
	<b>Week 4 Avg</b>	7		8.628571429							
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	30	0	30	0			0.80	0		
	<b>Daily Max</b>					9	0				
	<b>Daily Max - Variable</b>										
	<b>Daily Min</b>					6	0				
	<b>Weekly Avg</b>	45	0	45	0						
<b>QA/QC Information</b>	<b>LOD</b>							0.011			
	<b>LOQ</b>							0.034			
	<b>QC Exceedance</b>	Y		N		N		N		N	
	<b>Lab Certification</b>	420004860		420004860				420004860			

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	789	320	87	133	147
	<b>Description</b>	Nitrogen, Ammonia (NH3-N) Total	Nitrogen, Ammonia Variable Limit	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable
	<b>Units</b>	mg/L	mg/L	ug/L	ug/L	ug/L
	<b>Sample Type</b>	24 HR FLOW PROP	SEE TABLE	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	<b>Frequency</b>	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
<b>Sample Results</b>	<b>Day 1</b>	1.10	>34	<0.3000	<1.3000	11.0000
	<b>2</b>	0.66	>34			
	<b>3</b>	0.40	>34			
	<b>4</b>	2.49	>34			
	<b>5</b>	0.59	>34			
	<b>6</b>	0.14	>34			
	<b>7</b>	0.19	>34			
	<b>8</b>	0.11	>34			
	<b>9</b>	0.11	>34			
	<b>10</b>	0.07	>34			
	<b>11</b>	0.08	>34			
	<b>12</b>	0.26	>34			
	<b>13</b>	0.19	>34			
	<b>14</b>	0.30	>34			
	<b>15</b>	0.30	>34			
	<b>16</b>	0.13	>34			
	<b>17</b>	0.09	>34			
	<b>18</b>	0.16	>34			
	<b>19</b>	0.16	>34			
	<b>20</b>	0.38	>34			
	<b>21</b>	0.21	>34			
	<b>22</b>	0.12	>34			
	<b>23</b>	0.05	>34			
	<b>24</b>	0.04	>34			
	<b>25</b>	0.03	>34			
	<b>26</b>	0.15	>34			
	<b>27</b>	0.06	>34			
	<b>28</b>	0.43	>34			
	<b>29</b>	0.05	>34			
	<b>30</b>	0.03	>34			
	<b>31</b>	0.02	>34			

	<b>Sample Point</b>	003	003	003	003	003
	<b>Description</b>	Effluent	Effluent	Effluent	Effluent	Effluent
	<b>Parameter</b>	789	320	87	133	147
	<b>Description</b>	Nitrogen, Ammonia (NH3-N) Total	Nitrogen, Ammonia Variable Limit	Cadmium, Total Recoverable	Chromium, Total Recoverable	Copper, Total Recoverable
	<b>Units</b>	mg/L	mg/L	ug/L	ug/L	ug/L
<b>Summary Values</b>	<b>Monthly Avg</b>	0.293548387	>34	0	0	11
	<b>Daily Max</b>	2.49	>34	<0.3	<1.3	11
	<b>Daily Max - Variable</b>	2.49				
	<b>Daily Min</b>	0.02	>34	<0.3	<1.3	11
	<b>Week 1 Avg</b>	0.795714286				
	<b>Week 2 Avg</b>	0.16				
	<b>Week 3 Avg</b>	0.204285714				
	<b>Week 4 Avg</b>	0.125714286				
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	34	0			
	<b>Daily Max</b>					
	<b>Daily Max - Variable</b>	0	0			
	<b>Daily Min</b>					
	<b>Weekly Avg</b>	34	0			
<b>QA/QC Information</b>	<b>LOD</b>	0.02		0.3	1.3	0.8
	<b>LOQ</b>	0.05		1	4.3	2.7
	<b>QC Exceedance</b>	N	N	N	N	N
	<b>Lab Certification</b>	420004860		445023150	445023150	445023150



	<b>Sample Point</b>	003	003	003	199
	<b>Description</b>	Effluent	Effluent	Effluent	In-Plant Blending
	<b>Parameter</b>	264	315	553	211
	<b>Description</b>	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	<b>Units</b>	ug/L	ug/L	ug/L	MGD
	<b>Sample Type</b>	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED
	<b>Frequency</b>	MONTHLY	MONTHLY	MONTHLY	PER OCCURNC
<b>Sample Results</b>	<b>Day 1</b>	4.1000	6.6000	15.0000	0.00
	<b>2</b>				0.00
	<b>3</b>				0.00
	<b>4</b>				0.00
	<b>5</b>				0.00
	<b>6</b>				0.00
	<b>7</b>				0.00
	<b>8</b>				0.00
	<b>9</b>				0.00
	<b>10</b>				0.00
	<b>11</b>				0.00
	<b>12</b>				0.00
	<b>13</b>				0.00
	<b>14</b>				0.00
	<b>15</b>				0.00
	<b>16</b>				0.00
	<b>17</b>				0.00
	<b>18</b>				0.00
	<b>19</b>				0.00
	<b>20</b>				0.00
	<b>21</b>				0.00
	<b>22</b>				0.00
	<b>23</b>				0.00
	<b>24</b>				0.00
	<b>25</b>				0.00
	<b>26</b>				0.00
	<b>27</b>				0.00
	<b>28</b>				0.00
	<b>29</b>				0.00
	<b>30</b>				0.00
	<b>31</b>				0.00

	<b>Sample Point</b>	003		003		003		199	
	<b>Description</b>	Effluent		Effluent		Effluent		In-Plant Blending	
	<b>Parameter</b>	264		315		553		211	
	<b>Description</b>	Lead, Total Recoverable		Nickel, Total Recoverable		Zinc, Total Recoverable		Flow Rate	
	<b>Units</b>	ug/L		ug/L		ug/L		MGD	
<b>Summary Values</b>	<b>Monthly Avg</b>	4.1		6.6		15		0	
	<b>Daily Max</b>	4.1		6.6		15		0	
	<b>Daily Max - Variable</b>								
	<b>Daily Min</b>	4.1		6.6		15		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 Max - Variable</b>								
	<b>Daily Min</b>								
	<b>Weekly Avg</b>								
<b>QA/QC Information</b>	<b>LOD</b>	3.5		1.3		2.2			
	<b>LOQ</b>	12		4.3		7.3			
	<b>QC Exceedance</b>	N		N		N		N	
	<b>Lab Certification</b>	445023150		445023150		445023150			

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

12-9 BOD GGA: The BOD GGA sample set up on 12/8/23 failed high. The result was 247.48 mg/L which was above the highest acceptable limit of 228.5 mg/L. The next days GGA passed with a BOD of 198.54 mg/L.  
12-19 BOD GGA: The BOD GGA sample set up on 12/19/23 failed low. The result was 158.69 mg/L which was below the lowest acceptable limit of 167.5 mg/L. The next days GGA passed with a BOD of 206.31 mg/L.

Submitted by 73chev on 01/10/2024 8:16:25 AM