

**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: 02/01/2024 - 02/29/2024  
 Form Due Date: 03/21/2024  
 Permit Number: 0023990

Date Received:  
 DOC: 537118  
 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
<b>Sample Results</b>	<b>Day 1</b>	10.543	309	142	<0.3	6.7
	<b>2</b>	10.134	378	204		
	<b>3</b>	9.320	224	224		
	<b>4</b>	9.042	366	192		
	<b>5</b>	8.823	392	204		
	<b>6</b>	8.299	393	218		
	<b>7</b>	7.969	284	236		
	<b>8</b>	8.813	360	264		
	<b>9</b>	9.018	269	196		
	<b>10</b>	8.019	367	384		
	<b>11</b>	7.621	166	204		
	<b>12</b>	7.406	360	268		
	<b>13</b>	3.595	325	250		
	<b>14</b>	6.531	327	254		
	<b>15</b>	7.407	321	178		
	<b>16</b>	7.277	381	278		
	<b>17</b>	6.675	306	249		
	<b>18</b>	6.656	320	244		
	<b>19</b>	6.749	461	304		
	<b>20</b>	6.667	342	285		
	<b>21</b>	6.763	375	268		
	<b>22</b>	6.749	345	276		
	<b>23</b>	6.569	371	436		
	<b>24</b>	6.124	290	284		
	<b>25</b>	6.237	264	320		
	<b>26</b>	6.558	370	252		
	<b>27</b>	6.594	348	300		
	<b>28</b>	6.447	392	336		
	<b>29</b>	6.518	452	272		
	<b>30</b>					
	<b>31</b>					

	<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>	7.418034483	339.931034483	259.379310345	0	6.7
	<b>Daily Max</b>	10.543	461	436	<0.3	6.7
	<b>Daily Max - Variable</b>					
	<b>Daily Min</b>	3.595	166	142	<0.3	6.7
	<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>	49.0	<3.5	11.0	80.0	10.543
	<b>2</b>					10.134
	<b>3</b>					9.320
	<b>4</b>					9.042
	<b>5</b>					8.823
	<b>6</b>					8.299
	<b>7</b>					7.969
	<b>8</b>					8.813
	<b>9</b>					9.018
	<b>10</b>					8.019
	<b>11</b>					7.621
	<b>12</b>					7.406
	<b>13</b>					3.595
	<b>14</b>					6.531
	<b>15</b>					7.407
	<b>16</b>					7.277
	<b>17</b>					6.675
	<b>18</b>					6.656
	<b>19</b>					6.749
	<b>20</b>					6.667
	<b>21</b>					6.763
	<b>22</b>					6.749
	<b>23</b>					6.569
	<b>24</b>					6.124
	<b>25</b>					6.237
	<b>26</b>					6.558
	<b>27</b>					6.594
	<b>28</b>					6.447
	<b>29</b>					6.518
	<b>30</b>					
	<b>31</b>					

	<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	0	11	80	7.418034483
	<b>Daily Max</b>	49	<3.5	11	80	10.543
	<b>Daily Max - Variable</b>					
	<b>Daily Min</b>	49	<3.5	11	80	3.595
	<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>					
	<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>	7	9.8	7.1	0.29	
	<b>2</b>	8	9.4	7.0	0.42	
	<b>3</b>	6	9.4	7.0	0.27	
	<b>4</b>	6	9.6	7.1	0.33	
	<b>5</b>	10	9.0	7.2	0.68	
	<b>6</b>	10	9.8	7.2	0.30	
	<b>7</b>	10	10.2	7.2	0.26	
	<b>8</b>	12	9.6	7.1	0.27	
	<b>9</b>	7	9.8	7.1	0.29	
	<b>10</b>	7	8.4	7.2	0.27	
	<b>11</b>	7	8.2	7.0	0.26	
	<b>12</b>	12	10.6	7.2	0.27	
	<b>13</b>	10	8.9	7.2	0.28	
	<b>14</b>	11	9.6	7.2	0.29	
	<b>15</b>	10	9.6	7.1	0.28	
	<b>16</b>	7	8.4	7.0	0.28	
	<b>17</b>	6	7.4	7.1	0.26	
	<b>18</b>	8	11.4	7.1	0.24	
	<b>19</b>	9	7.6	7.0	0.22	
	<b>20</b>	9	8.3	7.0	0.26	
	<b>21</b>	7	5.8	7.1	0.21	
	<b>22</b>	7	6.0	7.1	0.20	
	<b>23</b>	5	7.6	7.1	0.24	
	<b>24</b>	5	6.8	7.0	0.22	
	<b>25</b>	5	5.5	7.1	0.19	
	<b>26</b>	6	6.2	7.2	0.22	
	<b>27</b>	6	5.1	7.1	0.23	
	<b>28</b>	6	5.4	7.2	0.22	
	<b>29</b>	8	6.4	7.2	0.26	495.21
	<b>30</b>					
	<b>31</b>					

	Sample Point	003		003		003		003		
	Description	Effluent		Effluent		Effluent		Effluent		
	Parameter	66		457		377		388		
	Description	BOD5, Total		Suspended Solids, Total		pH Field		Phosphorus, Total		
Units	mg/L		mg/L		mg/L		mg/L		lbs/month	
<b>Summary Values</b>	<b>Monthly Avg</b>	7.827586207		8.268965517		7.110344828		0.276206897		495.21
	<b>Daily Max</b>	12		11.4		7.2		0.68		495.21
	<b>Daily Max - Variable</b>									
	<b>Daily Min</b>	5		5.1		7		0.19		495.21
	<b>Week 1 Avg</b>	8.142857143		9.6						
	<b>Week 2 Avg</b>	9.428571429		9.3						
	<b>Week 3 Avg</b>	8		8.357142857						
	<b>Week 4 Avg</b>	5.714285714		6.085714286						
<b>Limit(s) in Effect</b>	<b>Monthly Avg</b>	30	0	30	0			0.8	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>	0.72	>34	<0.3000	2.3000	14.0000
	<b>2</b>	1.01	>34			
	<b>3</b>	0.07	>34			
	<b>4</b>	0.03	>34			
	<b>5</b>	0.49	>34			
	<b>6</b>	0.57	>34			
	<b>7</b>	1.87	>34			
	<b>8</b>	1.27	>34			
	<b>9</b>	0.32	>34			
	<b>10</b>	0.09	>34			
	<b>11</b>	0.05	>34			
	<b>12</b>	0.71	>34			
	<b>13</b>	0.66	>34			
	<b>14</b>	0.49	>34			
	<b>15</b>	0.73	>34			
	<b>16</b>	0.44	>34			
	<b>17</b>	0.13	>34			
	<b>18</b>	0.11	>34			
	<b>19</b>	0.73	>34			
	<b>20</b>	0.48	>34			
	<b>21</b>	0.80	>34			
	<b>22</b>	1.91	>34			
	<b>23</b>	0.31	>34			
	<b>24</b>	0.09	>34			
	<b>25</b>	0.06	>34			
	<b>26</b>	0.09	>34			
	<b>27</b>	0.19	>34			
	<b>28</b>	0.10	>34			
	<b>29</b>	0.81	>34			
	<b>30</b>					
	<b>31</b>					

	Sample Point	003		003		003		003		003	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	789		320		87		133		147	
	Description	Nitrogen, Ammonia (NH3-N) Total		Nitrogen, Ammonia Variable Limit		Cadmium, Total Recoverable		Chromium, Total Recoverable		Copper, Total Recoverable	
	Units	mg/L		mg/L		ug/L		ug/L		ug/L	
<b>Summary Values</b>	Monthly Avg	0.52862069		>34		0		2.3		14	
	Daily Max	1.91		>34		<0.3		2.3		14	
	Daily Max - Variable	1.91									
	Daily Min	0.03		>34		<0.3		2.3		14	
	Week 1 Avg	0.68									
	Week 2 Avg	0.512857143									
	Week 3 Avg	0.488571429									
	Week 4 Avg	0.392857143									
<b>Limit(s) in Effect</b>	Monthly Avg	22	0								
	Daily Max										
	Daily Max - Variable	0	0								
	Daily Min										
	Weekly Avg	34	0								
<b>QA/QC Information</b>	LOD	0.02				0.3		1.3		0.8	
	LOQ	0.05				1		4.3		2.7	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	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>	<3.5000	7.4000	19.0000	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>				
	<b>31</b>				

	<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>	0		7.4		19		0	
	<b>Daily Max</b>	<3.5		7.4		19		0	
	<b>Daily Max - Variable</b>								
	<b>Daily Min</b>	<3.5		7.4		19		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			

General Remarks

Laboratory Quality Control Comments

2-4-24 BOD Blank: The BOD blank analyzed on 2/4/2024 failed at 0.29 mg/L. The influent and effluent samples associated with this BOD blank were from 2/2/2024 and 2/3/2024. The meter calibration was checked as well as the probe cap and barometer on all meters. The blank was then re-checked on all DO meters yielding continued over depletion of the blank. The jug containing dilution water was cleaned. The second blank set up on 2/4/2024 and the next blank set up on 2/5/2024 was back within the acceptable depletion range.

2-25-24 BOD GGA: The GGA set up on 2/25/24 failed at 255.15 mg/L. The influent and effluent samples associated with this GGA were from sample dates 2/23/24 and 2/24/24. The next GGA set up on 2/27/24 was back within the acceptable depletion range.

2-28-24 BOD GGA: The GGA set up on 2/28/24 failed at 235.51 mg/L. The influent and effluent samples associated with this GGA were from sample dates 2/26/24 and 2/27/24. The next GGA set up on 2/29/24 was back within the acceptable depletion range.

Submitted by 73chev on 03/11/2024 8:34:26 AM