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:	01/01/2025 - 01/31/2025
Form Due Date:	02/21/2025
Permit Number:	0023990

Date Received:	
DOC:	563237
FIN:	7290
FID:	420004860
Region:	Northeast Region
Permit Drafter:	Sarah J Adkins
Reviewer:	Mark F Stanek
Office:	Oshkosh

Sample Point(s) active?

Yes - 703 sample point (Influent)

Yes - 003 sample point (Effluent)

Yes - 199 sample point (In-Plant Blending)

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	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	7.136	305	216	<0.3	5.9
	2	7.235	300	124		
	3	6.862	331	600		
	4	6.447	309	200		
	5	6.310	363	220		
	6	6.491	403	252		
	7	5.765	465	276		
	8	5.232	612	280		
	9	5.238	714	364		
	10	5.280	658	400		
	11	5.331	363	276		
	12	5.205	405	260		
	13	5.792	385	232		
	14	5.616	566	300		
	15	5.702	501	336		
	16	5.545	316	148		
	17	5.618	443	288		
	18	5.354	531	292		
	19	5.220	343	220		
	20	4.969	422	260		
	21	4.880	461	312		
	22	4.887	454	548		
	23	4.756	429	324		
	24	4.849	499	372		
	25	4.594				
	26	4.675	320	204		
	27	5.296	500	324		
	28	5.413	551	426		
	29	5.016	473	344		
	30	5.487	727	344		
	31	4.860	424	332		

	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
Summary Values	**Monthly Avg**	5.518096774	452.433333333	302.466666667	0	5.9
	Daily Max	7.235	727	600	<0.3	5.9
	Daily Max - Variable					
	Daily Min	4.594	300	124	<0.3	5.9
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**				0.3	1.3
	LOQ				1	4.3
	QC Exceedance	N	Y	N	N	N
	Lab Certification		420004860	420004860	445023150	445023150

	Sample Point	703	703	703	703	003
	Description	Influent	Influent	Influent	Influent	Effluent
	Parameter	147	264	315	553	211
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	Units	ug/L	ug/L	ug/L	ug/L	MGD
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	TOT DAILY
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	DAILY
Sample Results	**Day 1**	67.0	7.3	12.0	98.0	7.136
	2					7.235
	3					6.862
	4					6.447
	5					6.310
	6					6.491
	7					5.765
	8					5.232
	9					5.238
	10					5.280
	11					5.331
	12					5.205
	13					5.792
	14					5.616
	15					5.702
	16					5.545
	17					5.618
	18					5.354
	19					5.220
	20					4.969
	21					4.880
	22					4.887
	23					4.756
	24					4.849
	25					4.594
	26					4.675
	27					5.296
	28					5.413
	29					5.016
	30					5.487
	31					4.860

	Sample Point	703	703	703	703	003
	Description	Influent	Influent	Influent	Influent	Effluent
	Parameter	147	264	315	553	211
	Description	Copper, Total Recoverable	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	Units	ug/L	ug/L	ug/L	ug/L	MGD
Summary Values	**Monthly Avg**	67	7.3	12	98	5.518096774
	Daily Max	67	7.3	12	98	7.235
	Daily Max - Variable					
	Daily Min	67	7.3	12	98	4.594
	Week 1 Avg					
	Week 2 Avg					
	Week 3 Avg					
	Week 4 Avg					
Limit(s) in Effect	**Monthly Avg**					
	Daily Max					
	Daily Max - Variable					
	Daily Min					
	Weekly Avg					
QA/QC Information	**LOD**	0.8	3.5	1.3	2.2	
	LOQ	2.7	12	4.3	7.3	
	QC Exceedance					
	Lab Certification	445023150	445023150	445023150	445023150	

	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
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	24 HR FLOW PROP	CALCULATED
	Frequency	DAILY	DAILY	DAILY	DAILY	MONTHLY
Sample Results	Day 1	6	6.2	6.9	0.20	
	2	5	10.4	6.8	0.24	
	3	5	11.2	7.0	0.29	
	4	6	9.6	7.0	0.33	
	5	7	8.2	7.0	0.31	
	6	7	8.8	6.9	0.30	
	7	6	9.3	7.0	0.31	
	8	7	7.8	7.0	0.35	
	9	5	8.8	7.0	0.35	
	10	6	10.6	7.1	0.41	
	11	6	9.2	7.1	0.40	
	12	10	11.3	7.0	0.35	
	13	9	9.2	6.9	0.34	
	14	10	12.0	7.0	0.45	
	15	8	12.0	6.9	0.52	
	16	8	13.8	7.0	0.56	
	17	7	11.0	7.6	0.62	
	18	8	11.6	7.5	0.63	
	19	10	12.3	7.6	0.67	
	20	13	11.5	7.5	0.62	
	21	12	14.8	7.4	0.68	
	22	10	12.8	7.3	0.60	
	23	8	12.2	7.4	0.49	
	24	7	9.0	7.3	0.39	
	25	6	11.0	7.3	0.30	
	26	7	8.0	7.3	0.28	
	27	7	6.4	7.2	0.28	
	28	10	7.6	7.3	0.36	
	29	7	8.0	7.3	0.35	
	30	7	8.8	7.4	0.32	
	31	5	5.8	7.3	0.33	580.74

	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	
Summary Values	**Monthly Avg**	7.580645161		9.974193548		7.170967742		0.407419355		580.74	
	Daily Max	13		14.8		7.6		0.68		580.74	
	Daily Max - Variable										
	Daily Min	5		5.8		6.8		0.2		580.74	
	Week 1 Avg	6		9.1							
	Week 2 Avg	7.571428571		9.842857143							
	Week 3 Avg	9.428571429		12.428571429							
	Week 4 Avg	7.857142857		9.571428571							
Limit(s) in Effect	**Monthly Avg**	30	0	30	0			0.8	0		
	Daily Max					9	0				
	Daily Max - Variable										
	Daily Min					6	0				
	Weekly Avg	45	0	45	0						
QA/QC Information	**LOD**							0.019			
	LOQ							0.06			
	QC Exceedance	Y		N		Y		N		N	
	Lab Certification	420004860		420004860				420004860			

	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
	Sample Type	24 HR FLOW PROP	SEE TABLE	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	DAILY	DAILY	MONTHLY	MONTHLY	MONTHLY
Sample Results	Day 1	0.03	>34	<0.3000	<1.3000	11.0000
	2	0.05	>34			
	3	0.09	>34			
	4	0.04	>34			
	5	0.04	>34			
	6	<0.03	>34			
	7	<0.03	>34			
	8	<0.03	>34			
	9	0.04	>34			
	10	0.04	>34			
	11	0.05	>34			
	12	0.05	>34			
	13	<0.03	>34			
	14	0.08	>34			
	15	0.55	>34			
	16	0.17	>34			
	17	0.17	34			
	18	0.13	34			
	19	0.11	34			
	20	0.87	34			
	21	0.58	>34			
	22	1.23	>34			
	23	0.23	>34			
	24	0.12	>34			
	25	0.11	>34			
	26	0.08	>34			
	27	0.08	>34			
	28	0.38	>34			
	29	0.27	>34			
	30	0.19	>34			
	31	0.06	>34			

	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	
Summary Values	**Monthly Avg**	0.188387097		>34		0		0		11	
	Daily Max	1.23		>34		<0.3		<1.3		11	
	Daily Max - Variable	1.23									
	Daily Min	<0.03		34		<0.3		<1.3		11	
	Week 1 Avg	0.035714286									
	Week 2 Avg	0.037142857									
	Week 3 Avg	0.368571429									
	Week 4 Avg	0.318571429									
Limit(s) in Effect	**Monthly Avg**	22	0								
	Daily Max										
	Daily Max - Variable	0	0								
	Daily Min										
	Weekly Avg	34	0								
QA/QC Information	**LOD**	0.03				0.3		1.3		0.8	
	LOQ	0.1				1		4.3		2.7	
	QC Exceedance	N		N		N		N		N	
	Lab Certification	420004860				445023150		445023150		445023150	

	Sample Point	003	003	003	199
	Description	Effluent	Effluent	Effluent	In-Plant Blending
	Parameter	264	315	553	211
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	Units	ug/L	ug/L	ug/L	MGD
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	24 HR FLOW PROP	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	PER OCCURNCE
Sample Results	Day 1	8.5000	4.8000	25.0000	0.00
	2				0.00
	3				0.00
	4				0.00
	5				0.00
	6				0.00
	7				0.00
	8				0.00
	9				0.00
	10				0.00
	11				0.00
	12				0.00
	13				0.00
	14				0.00
	15				0.00
	16				0.00
	17				0.00
	18				0.00
	19				0.00
	20				0.00
	21				0.00
	22				0.00
	23				0.00
	24				0.00
	25				0.00
	26				0.00
	27				0.00
	28				0.00
	29				0.00
	30				0.00
	31				0.00

	Sample Point	003	003	003	199
	Description	Effluent	Effluent	Effluent	In-Plant Blending
	Parameter	264	315	553	211
	Description	Lead, Total Recoverable	Nickel, Total Recoverable	Zinc, Total Recoverable	Flow Rate
	Units	ug/L	ug/L	ug/L	MGD
Summary Values	**Monthly Avg**	8.5	4.8	25	0
	Daily Max	8.5	4.8	25	0
	Daily Max - Variable				
	Daily Min	8.5	4.8	25	0
	Week 1 Avg				
	Week 2 Avg				
	Week 3 Avg				
	Week 4 Avg				
Limit(s) in Effect	**Monthly Avg**				
	Daily Max				
	Daily Max - Variable				
	Daily Min				
	Weekly Avg				
QA/QC Information	**LOD**	3.5	1.3	2.2	
	LOQ	12	4.3	7.3	
	QC Exceedance	N	N	N	N
	Lab Certification	445023150	445023150	445023150	

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

General Remarks

No Influent Sample - 1/25: There was an issue with the influent sampler that prevented it from providing a sample for analysis. This occurred on a weekend where we are not fully staffed and therefore wasn't checked beyond setup.

Laboratory Quality Control Comments

BOD Blanks: 1/3 & 1/4 Both blanks set up on 1/5/2025 failed. They were associated with sample dates 1/3/25 and 1/4/25 and failed with a depletion of -0.36 mg/L and -0.31 mg/L respectively. The acceptable limit is 0.24 mg/L. 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 next blank set up on 1/7/25 was within the acceptable depletion range.

BOD (4 day) - 1/9: The Effluent, Influent, Seed BODs and Blank depletion associated with samples from 1/9/2025 were accidentally read out after 4 days of incubation instead of 5 days. The employee revised the BOD bench sheets to include text describing the day of week applicable to each stage of testing.

BOD FE pH - 1/12: The BOD for the final effluent sample date 1/12/25 was set up on a preserved sample. The unpreserved final effluent sample needed for BOD testing was dumped before setup. BODs are not setup on Mondays to keep readouts within lab staff working hours. Sundays composite sample, collected on Monday, is saved in the fridge and tested on Tuesday to remain within the compliant hold time of 48 hours. BODs were set up off the preserved sample and were pH adjusted accordingly. We also have a system of stickers to label bottles with tests that have not been completed yet to help prevent mistakes like this from occurring.

BOD Blank - 1/18: A blank set up on 1/19/25 failed. The failed blank was associated with sample date 1/18/25 and had a depletion of 0.83 mg/L. The acceptable limit is +/- 0.24 mg/L. The initial DO for the blank was 9.11 mg/L. 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 blank set up on 1/21/25 was back within the acceptable depletion range.

Submitted by 73chev on 02/13/2025 12:06:03 PM