

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: 10/01/2024 - 10/31/2024
Form Due Date: 11/21/2024
Permit Number: 0023990

Date Received:	
DOC:	558902
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	4.358	779	384	<0.3	6.2
	2	4.398	530	308		
	3	4.387	389	280		
	4	4.230	314	172		
	5	4.190	429	288		
	6	4.635	379	312		
	7	4.519	568	296		
	8	4.452	526	380		
	9	4.419	502	440		
	10	4.476	391	340		
	11	4.302	521	316		
	12	3.982	651	296		
	13	4.093	479	276		
	14	5.139	334	132		
	15	4.987	526	310		
	16	4.762	473	300		
	17	4.849	507	336		
	18	4.588	417	288		
	19	4.412	523	288		
	20	4.479	504	284		
	21	4.586	535	320		
	22	4.259	544	356		
	23	4.166	581	324		
	24	4.036	524	324		
	25	3.992	622	340		
	26	3.971	458	344		
	27	3.956	491	320		
	28	4.217	342	228		
	29	4.272	515	294		
	30	11.176	367	252		
	31	14.310	241	126		

	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	4.922516129		482.64516129		298.516129032		0		6.2	
	Daily Max	14.31		779		440		<0.3		6.2	
	Daily Max - Variable										
	Daily Min	3.956		241		126		<0.3		6.2	
	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	76.0	<3.5	11.0	151.0	4.358
	2					4.398
	3					4.387
	4					4.230
	5					4.190
	6					4.635
	7					4.519
	8					4.452
	9					4.419
	10					4.476
	11					4.302
	12					3.982
	13					4.093
	14					5.139
	15					4.987
	16					4.762
	17					4.849
	18					4.588
	19					4.412
	20					4.479
	21					4.586
	22					4.259
	23					4.166
	24					4.036
	25					3.992
	26					3.971
	27					3.956
	28					4.217
	29					4.272
	30					11.176
	31					14.310

	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	76		0		11		151		4.922516129	
	Daily Max	76		<3.5		11		151		14.31	
	Daily Max - Variable										
	Daily Min	76		<3.5		11		151		3.956	
	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	8	5.4	7	0.16	
	2	8	5.0	7	0.20	
	3	6	4.8	7	0.19	
	4	5	4.6	7	0.19	
	5	5	5.8	6.9	0.19	
	6	6	4.7	6.9	0.21	
	7	6	4.3	7.1	0.21	
	8	6	5.1	7.1	0.22	
	9	5	4.2	7.1	0.24	
	10	5	5.0	7	0.25	
	11	6	4.5	7	0.24	
	12	6	4.7	7	0.26	
	13	6	4.9	6.9	0.18	
	14	6	5.2	7	0.28	
	15	6	6.0	7	0.22	
	16	5	5.4	7	0.25	
	17	7	5.6	7.1	0.28	
	18	6	6.4	7.1	0.28	
	19	5	7.2	7.1	0.33	
	20	5	5.2	7	0.26	
	21	6	5.4	7	0.22	
	22	6	6.2	7	0.27	
	23	6	7.4	7.1	0.36	
	24	6	7.4	7.1	0.41	
	25	5	7.5	7.1	0.45	
	26	6	7.0	7	0.33	
	27	6	8.4	7.1	0.32	
	28	6	7.6	7	0.26	
	29	6	7.8	7.1	0.30	
	30	7	11.4	6.8	0.34	
	31	9	11.4	6.8	0.27	335.35

	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	6.032258065		6.177419355		7.012903226		0.263548387		335.35	
	Daily Max	9		11.4		7.1		0.45		335.35	
	Daily Max - Variable										
	Daily Min	5		4.2		6.8		0.16		335.35	
	Week 1 Avg	6.285714286		4.942857143							
	Week 2 Avg	5.714285714		4.8							
	Week 3 Avg	5.714285714		5.885714286							
	Week 4 Avg	5.857142857		7.357142857							
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		N		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	0.08	>34	<0.3000	1.8000	13.0000
	2	0.10	>34			
	3	0.11	>34			
	4	0.09	>34			
	5	0.08	>34			
	6	0.07	>34			
	7	0.06	>34			
	8	0.05	>34			
	9	0.07	>34			
	10	0.07	>34			
	11	0.08	>34			
	12	0.07	>34			
	13	0.08	>34			
	14	0.05	>34			
	15	0.04	>34			
	16	0.03	>34			
	17	0.03	>34			
	18	0.05	>34			
	19	0.04	>34			
	20	0.03	>34			
	21	0.05	>34			
	22	0.05	>34			
	23	0.05	>34			
	24	0.05	>34			
	25	0.04	>34			
	26	0.03	>34			
	27	<0.03	>34			
	28	<0.03	>34			
	29	0.04	>34			
	30	0.06	>34			
	31	0.04	>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	0.054516129		>34		0		1.8		13	
	Daily Max	0.11		>34		<0.3		1.8		13	
	Daily Max - Variable	0.11									
	Daily Min	<0.03		>34		<0.3		1.8		13	
	Week 1 Avg	0.084285714									
	Week 2 Avg	0.067142857									
	Week 3 Avg	0.038571429									
	Week 4 Avg	0.031428571									
Limit(s) in Effect	Monthly Avg	13	0								
	Daily Max										
	Daily Max - Variable	0	0								
	Daily Min										
	Weekly Avg	33	0								
QA/QC Information	LOD	0.02				0.3		1.3		0.8	
	LOQ	0.04				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 OCCURRENCE
Sample Results	Day 1	<3.5000	6.4000	22.0000	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	0		6.4		22		0	
	Daily Max	<3.5		6.4		22		0	
	Daily Max - Variable								
	Daily Min	<3.5		6.4		22		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

Laboratory Quality Control Comments

10-24-24 BOD GGA: The BOD GGA sample set up on 10/24/24 failed low. The result was 134.29 mg/L which was below the lowest acceptable limit of 167.5 mg/L. The associated blanks were in acceptable range and the meters were calibrated properly. The meter calibration was checked as well as the probe cap and barometer on all meters. The GGA was then re-checked on all DO meters yielding continued over depletion of the control. The next GGA set up on 10/25/24 passed with a BOD of 183.27 mg/L

Submitted by 73chev on 11/11/2024 11:36:11 AM