

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: 10/01/2022 - 10/31/2022
 Form Due Date: 11/21/2022
 Permit Number: 0023990

Date Received:
 DOC: 504224
 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	4.426	320	302	0.4	12.0
	2	4.407	331	308		
	3	4.361	414	364		
	4	4.160	385	326		
	5	3.917	637	367		
	6	4.007	713	396		
	7	3.748	813	507		
	8	3.597	767	517		
	9	3.688	695	380		
	10	4.455	504	429		
	11	4.296	425	291		
	12	5.286	298	420		
	13	5.022	425	373		
	14	4.629	501	443		
	15	4.506	395	296		
	16	4.217	294	260		
	17	4.629	399	400		
	18	4.072	499	362		
	19	3.985	396	480		
	20	3.997	404	409		
	21	3.902	498	352		
	22	3.598	397	277		
	23	3.936	337	309		
	24	4.305	477	340		
	25	4.956	388	126		
	26	4.876	310	300		
	27	4.647	367	269		
	28	4.544	434	260		
	29	4.240	376	272		
	30	4.212	302	224		
	31	4.455	422	348		

	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	4.292774194	449.129032258	345.387096774	0.4	12
	Daily Max	5.286	813	517	0.4	12
	Daily Max - Variable					
	Daily Min	3.597	294	126	0.4	12
	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	80.0	5.3	16.0	128.0	4.426
	2					4.407
	3					4.361
	4					4.160
	5					3.917
	6					4.007
	7					3.748
	8					3.597
	9					3.688
	10					4.455
	11					4.296
	12					5.286
	13					5.022
	14					4.629
	15					4.506
	16					4.217
	17					4.629
	18					4.072
	19					3.985
	20					3.997
	21					3.902
	22					3.598
	23					3.936
	24					4.305
	25					4.956
	26					4.876
	27					4.647
	28					4.544
	29					4.240
	30					4.212
	31					4.455

	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	80	5.3	16	128	4.292774194
	Daily Max	80	5.3	16	128	5.286
	Daily Max - Variable					
	Daily Min	80	5.3	16	128	3.597
	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	4	3.9	7.7	0.26	
	2	4	3.5	7.2	0.16	
	3	6	7.3	7.4	0.19	
	4	6	3.3	7.4	0.19	
	5	5	3.9	7.3	0.19	
	6	7	6.6	7.2	0.20	
	7	6	7.2	7.2	0.21	
	8	5	5.4	7.1	0.20	
	9	5	7.3	7.0	0.17	
	10	7	5.9	7.2	0.17	
	11	12	6.7	7.4	0.16	
	12	8	4.1	7.4	0.16	
	13	9	4.4	7.3	0.13	
	14	7	4.4	7.4	0.14	
	15	6	5.0	7.4	0.14	
	16	9	4.9	7.4	0.16	
	17	10	6.1	7.4	0.18	
	18	8	5.7	7.3	0.20	
	19	7	5.2	7.3	0.23	
	20	8	6.3	7.4	0.26	
	21	7	7.1	7.3	0.30	
	22	7	6.7	7.4	0.33	
	23	7	5.8	7.4	0.23	
	24	8	5.9	7.3	0.22	
	25	10	9.0	7.3	0.34	
	26	10	8.6	7.4	0.39	
	27	10	11.8	7.3	0.42	
	28	8	10.6	7.3	0.44	
	29	9	11.4	7.4	0.44	
	30	11	11.6	7.4	0.47	
	31	13	12.0	7.4	0.48	277.59

	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	7.709677419		6.696774194		7.332258065		0.250322581		277.59	
	Daily Max	13		12		7.7		0.48		277.59	
	Daily Max - Variable										
	Daily Min	4		3.3		7		0.13		277.59	
	Week 1 Avg	5.428571429		5.1							
	Week 2 Avg	7.571428571		5.457142857							
	Week 3 Avg	7.857142857		5.757142857							
	Week 4 Avg	8.571428571		8.342857143							
Limit(s) in Effect	Monthly Avg	30	0	30	0			0.80	0		
	Daily Max					9	0				
	Daily Max - Variable										
	Daily Min					6	0				
	Weekly Avg	45	0	45	0						
QA/QC Information	LOD							0.005			
	LOQ							0.017			
	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	0.31	24	<0.3000	2.2000	2.2000
	2	0.06	>34			
	3	0.16	>34			
	4	0.36	>34			
	5	0.34	>34			
	6	0.31	>34			
	7	0.22	>34			
	8	0.07	>34			
	9	0.03	>34			
	10	0.27	>34			
	11	1.55	>34			
	12	1.57	>34			
	13	1.98	>34			
	14	1.25	>34			
	15	0.74	>34			
	16	0.55	>34			
	17	0.93	>34			
	18	0.45	>34			
	19	0.36	>34			
	20	0.58	>34			
	21	0.45	>34			
	22	0.18	>34			
	23	0.31	>34			
	24	0.90	>34			
	25	1.38	>34			
	26	1.43	>34			
	27	0.47	>34			
	28	0.28	>34			
	29	0.48	>34			
	30	0.99	>34			
	31	1.05	>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	0.645483871		>33.677419355		0		2.2		2.2	
	Daily Max	1.98		>34		<0.3		2.2		2.2	
	Daily Max - Variable	1.98									
	Daily Min	0.03		24		<0.3		2.2		2.2	
	Week 1 Avg	0.251428571									
	Week 2 Avg	0.96									
	Week 3 Avg	0.58									
	Week 4 Avg	0.707142857									
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	0.06				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 OCCURRNCE
Sample Results	Day 1	3.9000	9.8000	23.0000	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	3.9		9.8		23		0	
	Daily Max	3.9		9.8		23		0	
	Daily Max - Variable								
	Daily Min	3.9		9.8		23		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

10-20-22 BOD GGA: The BOD GGA sample set up on 10/20/22 failed low. The result was 155.90 mg/L which was below the lowest acceptable limit of 167.5 mg/L. It is suspected that inadequate warming time could have contributed to the low GGA. The GGA set up on 10/21/22 passed at 204.08 mg/L.

Submitted by 73chev on 11/15/2022 12:33:58 PM