

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: 05/01/2023 - 05/31/2023

Form Due Date: 06/21/2023

Permit Number: 0023990

Date Received:

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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	16.524	196	160	<0.3	15.0
	2	12.923	208	121		
	3	10.831	211	140		
	4	9.734	223	160		
	5	8.695	432	210		
	6	7.904	508	216		
	7	7.900	336	200		
	8	11.248	347	220		
	9	10.647	267	182		
	10	9.450	234	242		
	11	8.777	284	196		
	12	7.967	322	237		
	13	7.286	320	186		
	14	7.117	255	186		
	15	7.284	443	278		
	16	7.027	361	242		
	17	6.883	497	236		
	18	6.591	622	280		
	19	6.260	597	237		
	20	5.723	472	254		
	21	5.653	241	238		
	22	6.002	387	297		
	23	5.884	483	347		
	24	5.652	390	277		
	25	5.746	594	337		
	26	5.384	342	184		
	27	4.954	308	90		
	28	4.907	205	75		
	29	5.249	321	256		
	30	5.292	364	314		
	31	7.419	378	374		

	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	7.706870968		359.612903226		224.903225806		0		15	
	Daily Max	16.524		622		374		<0.3		15	
	Daily Max - Variable										
	Daily Min	4.907		196		75		<0.3		15	
	Geometric Mean -										
	Geometric Mean -										
	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										
	Geometric Mean -										
	Geometric Mean -										
	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	47.0	<3.5	14.0	58.0	16.524
	2					12.923
	3					10.831
	4					9.734
	5					8.695
	6					7.904
	7					7.900
	8					11.248
	9					10.647
	10					9.450
	11					8.777
	12					7.967
	13					7.286
	14					7.117
	15					7.284
	16					7.027
	17					6.883
	18					6.591
	19					6.260
	20					5.723
	21					5.653
	22					6.002
	23					5.884
	24					5.652
	25					5.746
	26					5.384
	27					4.954
	28					4.907
	29					5.249
	30					5.292
	31					7.419

	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	47		0		14		58		7.706870968	
	Daily Max	47		<3.5		14		58		16.524	
	Daily Max - Variable										
	Daily Min	47		<3.5		14		58		4.907	
	Geometric Mean -										
	Geometric Mean -										
	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										
	Geometric Mean -										
	Geometric Mean -										
	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	204	388
	Description	BOD5, Total	Suspended Solids, Total	pH Field	Fecal Coliform	Phosphorus, Total
	Units	mg/L	mg/L	mg/L	#/100ml	mg/L
	Sample Type	24 HR FLOW PROP	24 HR FLOW PROP	GRAB	GRAB	24 HR FLOW PROP
	Frequency	DAILY	DAILY	DAILY	WEEKLY	DAILY
Sample Results	Day 1	21.8	6.3	7.2		0.22
	2	9.5	4.7	7.2	31	0.17
	3	9.5	4.9	7.2		0.18
	4	10.4	3.5	7.2		0.16
	5	10.0	3.6	7.2		0.17
	6	9.5	4.1	7.2		0.13
	7	9.3	4.3	7.1		0.13
	8	20.1	6.0	7.1		0.17
	9	13.1	3.9	7.1	10	0.13
	10	9.9	4.1	7.1		0.12
	11	7.8	3.5	7.2		0.12
	12	9.0	4.1	7.2		0.15
	13	8.2	4.3	7.3		0.11
	14	11.5	3.6	7.2		0.11
	15	15.5	3.3	7.2		0.14
	16	10.9	3.6	7.3	16	0.14
	17	11.8	5.1	7.3		0.20
	18	13.8	6.4	7.3		0.23
	19	19.8	9.3	7.0		0.20
	20	11.2	5.2	7.1		0.14
	21	10.0	4.3	7.3		0.11
	22	13.3	5.3	7.2		0.16
	23	14.1	6.7	7.3	79	0.14
	24	11.8	4.7	7.3		0.16
	25	11.5	6.8	7.2		0.22
	26	9.9	6.4	7.3		0.21
	27	6.1	5.6	7.1		0.19
	28	6.0	5.2	7.1		0.18
	29	6.9	5.4	7.1		0.18
	30	7.3	4.9	7.2	24	0.21
	31	8.3	6.7	7.2		0.26

	Sample Point	003		003		003		003		003	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	66		457		377		204		388	
	Description	BOD5, Total		Suspended Solids, Total		pH Field		Fecal Coliform		Phosphorus, Total	
	Units	mg/L		mg/L		mg/L		#/100ml		mg/L	
Summary Values	Monthly Avg	11.219354839		5.025806452		7.193548387		32		0.165806452	
	Daily Max	21.8		9.3		7.3		79		0.26	
	Daily Max - Variable										
	Daily Min	6		3.3		7		10		0.11	
	Geometric Mean -							24.81212737			
	Geometric Mean -							31			
	Week 1 Avg	11.428571429		4.485714286							
	Week 2 Avg	11.371428571		4.214285714							
	Week 3 Avg	13.285714286		5.314285714							
	Week 4 Avg	10.385714286		5.814285714							
Limit(s) in Effect	Monthly Avg	30	0	30	0					0.80	0
	Daily Max					9	0				
	Daily Max - Variable										
	Daily Min					6	0				
	Geometric Mean -							400	0		
	Geometric Mean -							656	0		
	Weekly Avg	45	0	45	0						
QA/QC Information	LOD									0.011	
	LOQ									0.034	
	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	388	789	320	87	133
	Description	Phosphorus, Total	Nitrogen, Ammonia (NH3-N) Total	Nitrogen, Ammonia Variable Limit	Cadmium, Total Recoverable	Chromium, Total Recoverable
	Units	lbs/month	mg/L	mg/L	ug/L	ug/L
	Sample Type	CALCULATED	24 HR FLOW PROP	SEE TABLE	24 HR FLOW PROP	24 HR FLOW PROP
	Frequency	MONTHLY	DAILY	DAILY	MONTHLY	MONTHLY
Sample Results	Day 1		2.81	>34	0.3000	2.0000
	2		1.49	>34		
	3		1.88	>34		
	4		1.93	>34		
	5		2.45	>34		
	6		2.65	>34		
	7		1.79	>34		
	8		3.21	>34		
	9		1.81	>34		
	10		1.97	>34		
	11		1.74	>34		
	12		1.98	>34		
	13		2.65	>34		
	14		2.44	>34		
	15		2.66	>34		
	16		2.15	>34		
	17		3.06	>34		
	18		3.01	>34		
	19		7.38	>34		
	20		3.11	>34		
	21		2.36	>34		
	22		2.90	>34		
	23		2.38	>34		
	24		3.14	>34		
	25		4.94	>34		
	26		2.73	>34		
	27		0.20	>34		
	28		0.12	>34		
	29		0.10	>34		
	30		0.32	>34		
	31	329.12	1.26	>34		

	Sample Point	003		003		003		003		003	
	Description	Effluent		Effluent		Effluent		Effluent		Effluent	
	Parameter	388		789		320		87		133	
	Description	Phosphorus, Total		Nitrogen, Ammonia (NH3-N) Total		Nitrogen, Ammonia Variable Limit		Cadmium, Total Recoverable		Chromium, Total Recoverable	
	Units	lbs/month		mg/L		mg/L		ug/L		ug/L	
Summary Values	Monthly Avg	329.12		2.342580645		>34		0.3		2	
	Daily Max	329.12		7.38		>34		0.3		2	
	Daily Max - Variable			7.38							
	Daily Min	329.12		0.1		>34		0.3		2	
	Geometric Mean -										
	Geometric Mean -										
	Week 1 Avg			2.142857143							
	Week 2 Avg			2.257142857							
	Week 3 Avg			3.39							
	Week 4 Avg			2.344285714							
Limit(s) in Effect	Monthly Avg			19	0						
	Daily Max										
	Daily Max - Variable			0	0						
	Daily Min										
	Geometric Mean -										
	Geometric Mean -										
	Weekly Avg			34	0						
QA/QC Information	LOD			0.02				0.3		1.3	
	LOQ			0.05				1		4.3	
	QC Exceedance	N		N		N		N		N	
	Lab Certification			420004860				445023150		445023150	

	Sample Point	003	003	003	003	199
	Description	Effluent	Effluent	Effluent	Effluent	In-Plant Blending
	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	CALCULATED
	Frequency	MONTHLY	MONTHLY	MONTHLY	MONTHLY	PER OCCURRENCE
Sample Results	Day 1	13.0000	4.1000	6.8000	15.0000	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		003		199	
	Description	Effluent		Effluent		Effluent		Effluent		In-Plant Blending	
	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	13		4.1		6.8		15		0	
	Daily Max	13		4.1		6.8		15		0	
	Daily Max - Variable										
	Daily Min	13		4.1		6.8		15		0	
	Geometric Mean -										
	Geometric Mean -										
	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										
	Geometric Mean -										
	Geometric Mean -										
	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			

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

5/18/23 BOD GGA - The result was 119.53 mg/L which was below the lowest acceptable limit of 167.5 mg/L. It is believed that the bottle contained seed, but GGA was not added. GGA and seed were added to the subsequent days setup. The GGA set up on 5/19/23 was back within the acceptable depletion range.

5/22,23/23 BOD Blank - The failed blank was associated with sample date 5/22/2023 and had a depletion of 0.33 mg/L. The acceptable limit is 0.24 mg/L. The dilution water jug was cleaned. The next blank set up on 5/25/23 passed with a depletion of 0.10 mg/L.

Submitted by 73chev on 06/08/2023 3:22:32 PM