

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: 11/01/2024 - 11/30/2024
Form Due Date: 12/21/2024
Permit Number: 0023990

Date Received:	
DOC:	558903
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	8.340	285	200	<0.3	9.2
	2	7.044	243	200		
	3	7.739	343	206		
	4	7.552	315	232		
	5	9.230	259	221		
	6	7.698	336	204		
	7	6.817	288	220		
	8	6.316	347	230		
	9	6.012	439	267		
	10	7.829	184	166		
	11	7.627	237	106		
	12	7.052	350	204		
	13	7.158	384	280		
	14	7.842	366	248		
	15	6.965	467	276		
	16	6.601	302	196		
	17	6.330	250	176		
	18	9.129	392	300		
	19	13.577	193	164		
	20	9.947	237	180		
	21	12.205	230	164		
	22	12.639	230	140		
	23	10.118	208	133		
	24	9.186	182	64		
	25	9.379	237	154		
	26	8.901	357	154		
	27	8.496	169	84		
	28	7.585	278	188		
	29	7.069	320	172		
	30	6.709	339	176		
	31					

	Sample Point	703		703		703		703	
	Description	Influent		Influent		Influent		Influent	
	Parameter	211		66		457		87	
	Description	Flow Rate		BOD5, Total		Suspended Solids, Total		Cadmium, Total Recoverable	
	Units	MGD		mg/L		mg/L		ug/L	
Summary Values	Monthly Avg	8.303066667		292.233333333		190.166666667		0	
	Daily Max	13.577		467		300		<0.3	
	Daily Max - Variable								
	Daily Min	6.012		169		64		<0.3	
	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	
	LOQ							1	
	QC Exceedance	N		Y		N		N	
	Lab Certification			420004860		420004860		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	46.0	<3.5	15.0	56.0	8.340
	2					7.044
	3					7.739
	4					7.552
	5					9.230
	6					7.698
	7					6.817
	8					6.316
	9					6.012
	10					7.829
	11					7.627
	12					7.052
	13					7.158
	14					7.842
	15					6.965
	16					6.601
	17					6.330
	18					9.129
	19					13.577
	20					9.947
	21					12.205
	22					12.639
	23					10.118
	24					9.186
	25					9.379
	26					8.901
	27					8.496
	28					7.585
	29					7.069
	30					6.709
	31					

	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	46		0		15		56		8.303066667	
	Daily Max	46		<3.5		15		56		13.577	
	Daily Max - Variable										
	Daily Min	46		<3.5		15		56		6.012	
	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	5	9.0	6.9	0.24	
	2	5	8.4	6.8	0.23	
	3	6	7.6	7.0	0.27	
	4	7	7.6	6.9	0.31	
	5	8	10.2	7.1	0.40	
	6	8	10.4	6.9	0.35	
	7	7	10.6	6.9	0.35	
	8	6	9.2	7.1	0.38	
	9	6	9.5	6.9	0.42	
	10	8	11.4	7.1	0.44	
	11	9	12.2	7.0	0.36	
	12	9	11.1	7.0	0.43	
	13	7	11.2	7.1	0.39	
	14	7	12.4	7.1	0.41	
	15	7	9.8	7.0	0.43	
	16	6	9.2	7.1	0.44	
	17	8	9.2	7.0	0.38	
	18	10	12.4	6.9	0.47	
	19	11	14.7	7.0	0.46	
	20	7	11.8	6.9	0.32	
	21	8	11.6	6.9	0.39	
	22	7	12.0	6.9	0.39	
	23	5	9.0	7.0	0.29	
	24	6	7.6	7.0	0.24	
	25	5	8.0	7.0	0.25	
	26	6	7.1	6.9	0.25	
	27	5	7.0	6.9	0.27	
	28	5	6.6	7.1	0.27	
	29	6	6.8	6.9	0.28	
	30	6	6.8	6.6	0.31	722.01
	31					

	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	6.866666667		9.68		6.963333333		0.347333333		722.01	
	Daily Max	11		14.7		7.1		0.47		722.01	
	Daily Max - Variable										
	Daily Min	5		6.6		6.6		0.23		722.01	
	Week 1 Avg	6.571428571		9.114285714							
	Week 2 Avg	7.428571429		11							
	Week 3 Avg	8.142857143		11.242857143							
	Week 4 Avg	5.571428571		8.185714286							
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	0.07	>34	<0.3000	2.5000	12.0000
	2	0.04	>34			
	3	0.04	>34			
	4	0.04	>34			
	5	0.06	>34			
	6	0.05	>34			
	7	0.04	>34			
	8	0.06	>34			
	9	0.05	>34			
	10	0.05	>34			
	11	0.19	>34			
	12	0.06	>34			
	13	0.05	>34			
	14	0.04	>34			
	15	0.05	>34			
	16	0.04	>34			
	17	0.05	>34			
	18	0.07	>34			
	19	0.05	>34			
	20	0.03	>34			
	21	0.03	>34			
	22	0.08	>34			
	23	0.04	>34			
	24	<0.03	>34			
	25	<0.03	>34			
	26	0.14	>34			
	27	0.05	>34			
	28	0.04	>34			
	29	0.05	>34			
	30	0.04	>34			
	31					

	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	0.053333333		>34		0		2.5		12	
	Daily Max	0.19		>34		<0.3		2.5		12	
	Daily Max - Variable	0.19									
	Daily Min	<0.03		>34		<0.3		2.5		12	
	Week 1 Avg	0.048571429									
	Week 2 Avg	0.071428571									
	Week 3 Avg	0.045714286									
	Week 4 Avg	0.05									
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	0.03				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 OCCURRENCE
Sample Results	Day 1	<3.5000	6.4000	58.0000	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				

	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		58		0	
	Daily Max	<3.5		6.4		58		0	
	Daily Max - Variable								
	Daily Min	<3.5		6.4		58		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			

General Remarks

Laboratory Quality Control Comments

11-14 BOD Blank: The initial DO for the blank was 8.58 mg/L. The failed blank was associated with sample date 11/14/2024 and had a depletion of -0.27 mg/L. 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. An air bubble was observed in the bottle and is suspected to have caused the blank failure. The next blank, set up on 11/17/2024, was back within the acceptable depletion range.

11-29 BOD GGA: The result was 155.75 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 influent and effluent samples associated with this GGA were from sample date 11/28/24. The next GGA set up on 12/1/24 was back within the acceptable depletion range.

Submitted by 73chev on 12/12/2024 9:37:11 AM