

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, Operations Leader
 Phone Number: 920-251-9859
 Reporting Period: 12/01/2018 - 12/31/2018
 Form Due Date: 01/21/2019
 Permit Number: 0023990

Date Received:
 DOC: 413503
 FIN: 7290
 FID: 420004860
 Region: Northeast Region
 Permit Drafter: Richard P Sachs
 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	10.825	215	281	0.5	8.7
	2	17.732	100	135		
	3	13.550	127	134		
	4	11.863	212	158		
	5	10.675	161	159		
	6	9.874	203	163		
	7	9.188	207	141		
	8	8.316	174	161		
	9	7.781	166	183		
	10	7.678	211	230		
	11	7.284	307	259		
	12	7.069	242	256		
	13	6.980	222	234		
	14	6.899	241	356		
	15	6.646	180	74		
	16	6.403	232	186		
	17	6.430	307	423		
	18	6.124	264	180		
	19	6.065	342	266		
	20	6.441	311	272		
	21	6.316	351	276		
	22	6.135	234	83		
	23	5.937	330	228		
	24	6.370	305	121		
	25	5.501	302	176		
	26	5.973	261	88		
	27	8.013	248	230		
	28	8.769	275	204		
	29	8.391	221	125		
	30	8.040	199	110		
	31	8.293	220	120		

	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	8.114870968	237.741935484	193.935483871	0.5	8.7
	Daily Max	17.732	351	423	0.5	8.7
	Daily Max - Variable					
	Daily Min	5.501	100	74	0.5	8.7
	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	1.4
	LOQ				1	4.7
	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	49.0	2.6	14.0	59.0	10.825
	2					17.732
	3					13.550
	4					11.863
	5					10.675
	6					9.874
	7					9.188
	8					8.316
	9					7.781
	10					7.678
	11					7.284
	12					7.069
	13					6.980
	14					6.899
	15					6.646
	16					6.403
	17					6.430
	18					6.124
	19					6.065
	20					6.441
	21					6.316
	22					6.135
	23					5.937
	24					6.370
	25					5.501
	26					5.973
	27					8.013
	28					8.769
	29					8.391
	30					8.040
	31					8.293

	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	49	2.6	14	59	8.114870968
	Daily Max	49	2.6	14	59	17.732
	Daily Max - Variable					
	Daily Min	49	2.6	14	59	5.501
	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	1.3	2.5	0.8	1.1	
	LOQ	4.3	8.3	2.7	3.7	
	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	10	6.8	7.2	0.28	
	2	6	6.4	7.3	0.34	
	3	8	7.6	7.3	0.48	
	4	13	7.1	7.1	0.63	
	5	17	6.9	6.9	0.33	
	6	9	6.4	7.2	0.29	
	7	14	6.3	7.2	0.32	
	8	6	5.6	7.4	0.29	
	9	6	4.8	7.4	0.31	
	10	6	5.4	7.3	0.30	
	11	6	5.9	7.2	0.36	
	12	6	5.3	7.2	0.35	
	13	6	4.9	7.3	0.30	
	14	7	4.7	7.2	0.32	
	15	5	5.2	7.2	0.32	
	16	4	5.2	7.3	0.29	
	17	15	4.8	7.4	0.33	
	18	14	5.5	7.1	0.29	
	19	8	5.6	7.2	0.31	
	20	7	4.8	7.4	0.36	
	21	10	5.2	7.3	0.22	
	22	8	4.7	7.4	0.35	
	23	7	5.4	7.2	0.19	
	24	9	5.5	7.4	0.19	
	25	7	4.9	7.5	0.17	
	26	7	5.9	7.4	0.19	
	27	16	7.2	7.3	0.25	
	28	22	8.3	7.4	0.26	
	29	10	7.7	7.2	0.32	
	30	8	8.1	7.5	0.18	
	31	11	9.2	7.4	0.27	629.4

	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	9.290322581		6.041935484		7.283870968		0.302903226		629.4	
	Daily Max	22		9.2		7.5		0.63		629.4	
	Daily Max - Variable										
	Daily Min	4		4.7		6.9		0.17		629.4	
	Week 1 Avg	11		6.785714286							
	Week 2 Avg	6.142857143		5.228571429							
	Week 3 Avg	9		5.185714286							
	Week 4 Avg	10.857142857		5.985714286							
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							0.0054			
	LOQ							0.0167			
	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	1.41	>34	<0.3000	<1.4000	9.1000
	2	0.19	>34			
	3	0.26	>34			
	4	1.71	>34			
	5	3.38	>34			
	6	3.12	>34			
	7	2.79	>34			
	8	0.40	>34			
	9	0.19	>34			
	10	0.14	>34			
	11	0.12	>34			
	12	0.15	>34			
	13	0.57	>34			
	14	0.68	>34			
	15	0.16	>34			
	16	0.13	>34			
	17	1.93	>34			
	18	2.26	>34			
	19	0.32	>34			
	20	0.10	>34			
	21	0.61	>34			
	22	0.22	>34			
	23	0.13	>34			
	24	0.52	>34			
	25	0.09	>34			
	26	0.06	>34			
	27	3.18	>34			
	28	6.90	>34			
	29	0.81	>34			
	30	0.16	>34			
	31	0.38	>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	1.066774194		>34		0		0		9.1	
	Daily Max	6.9		>34		<0.3		<1.4		9.1	
	Daily Max - Variable	6.9									
	Daily Min	0.06		>34		<0.3		<1.4		9.1	
	Week 1 Avg	1.837142857									
	Week 2 Avg	0.321428571									
	Week 3 Avg	0.787142857									
	Week 4 Avg	1.585714286									
Limit(s) in Effect	Monthly Avg	34	0								
	Daily Max										
	Daily Max - Variable	0	0								
	Daily Min										
	Weekly Avg	34	0								
QA/QC Information	LOD	0.02				0.3		1.4		1.3	
	LOQ	0.053				1		4.7		4.3	
	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 OCCURNC
Sample Results	Day 1	<2.5000	9.8000	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		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		9.8		15		0	
	Daily Max	<2.5		9.8		15		0	
	Daily Max - Variable								
	Daily Min	<2.5		9.8		15		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	2.5		0.8		1.1			
	LOQ	8.3		2.7		3.7			
	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

12/18/18 - BOD GGA: The BOD GGA sample set up on 12/13/18 failed low. The result was 155.96 which was 11.54 below the lower acceptable limit. GGA set up on 12/20/18 passed at 226.00
12/20/18 - BOD Blank Depletion: The BOD blank analyzed on 12-20-18 failed at 0.27 mg/L. The influent and effluent samples associated with this BOD blank were from 12-19-18. The next blank analyzed on 12-21-18 passed.

Submitted by 73chev on 01/09/2019 8:07:29 AM