Filed Date: 02/08/2022



February 7, 2022

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

RE: Clam River Hydroelectric Project

FERC Project Number 9185

Flambeau Hydro LLC

Final Report 2021 Water Quality Monitoring Data

Dear Ms. Bose:

On behalf of Flambeau Hydro LLC, "Flambeau" (Licensee), Renewable World Energies, LLC (RWE) is submitting a copy of the <u>Final Report 2021 Water Quality Monitoring Data</u> for the Clam River Hydroelectric Project. The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on July 24, 2006. This report is submitted as a requirement of that License pursuant to License Article 401 WQC, Condition K. 2021 was the 14th year monitoring was conducted since the license was issued, but is the 10th year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on April 6, July 13, and August 4, 2021. No issues were encountered during the 2021 monitoring season. All data has been given to the DNR to be entered into the SWIMS Data Base. The draft report was sent to the agencies by an attachment to an email on November 16, 2021 for review and comment. Malcolm Gregory of the DNR did reply that they have no comments, and to ask for the excel file containing the raw data which was provided. The next scheduled monitoring event will be conducted in 2022.

If you have any questions concerning this submittal, please contact Brian Kreuscher at the Renewable World Energies, LLC offices @ 855-994-9376 Ext 230. He can also be reached by e-mail at bkreuscher@rwehydro.com.

Corporate Office

P.O. Box 264 100 S. State Street Neshkoro, WI 54960 Fax: 920-293-4100 Phone: 855-99HYDRO (855-994-9376) www.renewableworldenergies.com Administrative Office 1001 Stephenson Street Norway, MI 49870

Fax: 906-563-9344



Sincerely, Renewable World Energies, LLC **Agent for Licensee**

Mr. Jason Kreuscher Vice President, Operations

Attachment:

Final Report 2021 Water Quality Monitoring Data

Correspondence

Cc:

Cheryl Laatsch, WDNR

Darin Simpkins, USFWS

Report

2021 Water Quality Monitoring Data (Per License Article 401 WQC, Condition K)

for the

Clam River Hydroelectric Project

FERC Project #9185

Flambeau Hydro, LLC

Clam River, Burnett County, Wisconsin

Respectfully Submitted by:

Angie Stine



429 River Lane, P.O. Box 27 Amasa, Michigan 49903

Phone: 906-822-7889

Summary Clam River Hydroelectric Project - FERC #9185

2021 marked the fourteenth year of water quality sampling under FERC License issued on July 24, 2006 to Flambeau Hydro, LLC for the Clam River Hydroelectric Project - FERC Project # 9185 and specifically Appendix A Section 401 K. Monitoring was conducted on April 6, July 13, and August 4, 2021. This document contains all of the associated records for the 2021 monitoring along with summary figures and tables in four appendices: (1) Appendix A (Figures 1-4), (2) Appendix B (Tables 1-3), (3) Appendix C (sampling logs by date), and (4) Appendix D (laboratory reports and chains of custody).

A map of the Clam River Hydroelectric Project is shown in Figure 1 indicating the water quality sampling location.

Monitoring results for 2021 are shown in Table 1. No unusual Temperature (Figure 2) or Dissolved Oxygen (Figure 3) readings were observed in April but in July the D.O. was below 5.0 mg/L at 15 feet and in August the D.O. was below 5.0 mg/L at 9 feet. The Secchi depths are shown in Figure 4.

In general, the weather (temperature and rainfall) during 2020-2021 monitoring season appeared slightly warmer December, February, and April through December with lower-than-normal precipitation in October, November, January, February, June, July, August, and September, and normal to high precipitation in the months of December, April, and May (Table 2).

Ice-Out occurred on the Clam River sometime during the week beginning March 22, 2021. The Ice-Out sampling event occurred on April 6, 2021. River flow, based on the Clam River Hydroelectric Project records, was approximately 437 cubic feet per second. Sampling occurred between 10:10 and 10:28. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on April 7, 2021. White Water Associates, Inc. issued a laboratory report on May 12, 2021. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Clam River Hydroelectric Project records, was approximately 113 cubic feet per second during the July 13, 2021 sampling event. Sampling occurred between 10:35 and 11:06. Samples were taken without incident. No unusual Temperature readings were observed. The D.O. went below 5.00 mg/L at 15.0 feet (4.71 mg/L). The 0.5 ft above bottom D.O. was 2.59 mg/L. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on July 14, 2021. White Water Associates, Inc. issued a laboratory report on July 30, 2021. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Clam River Hydroelectric Project records, was approximately 107 cubic feet per second during the August 4, 2021 sampling event. Sampling occurred between 9:51 and 10:38. Samples were taken without incident. No unusual Temperature readings were observed. The D.O. went below 5.00 mg/L at 9 feet (4.72 mg/L). The 0.5 ft above bottom D.O. was 0.87 mg/L. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on August 5, 2021.

White Water Associates, Inc. issued a laboratory report on September 12, 2021. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

A summary of a comparison between the 2013 thru 2020 (Table 3) sampling results are as follows:

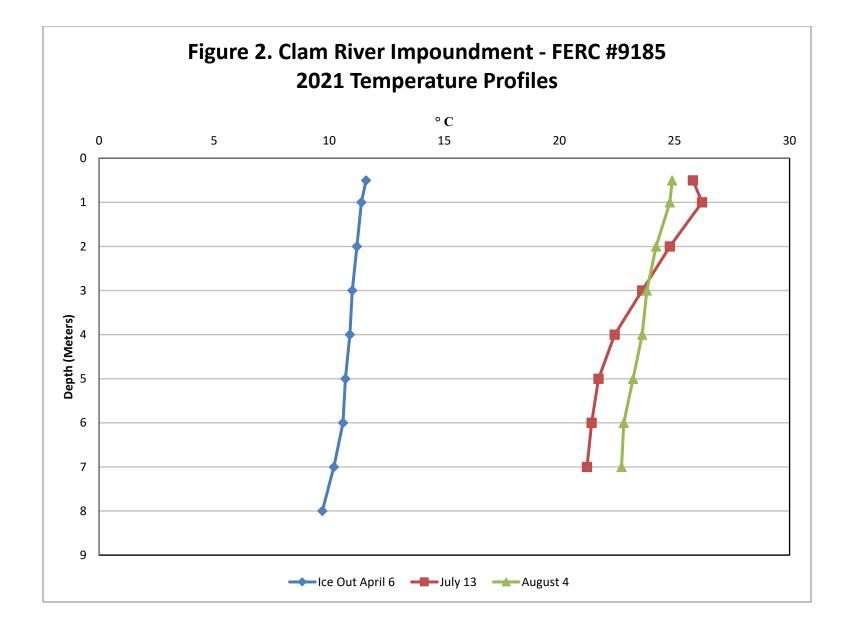
- 1. Water Clarity Secchi increased Ice Out and July, decreased August
- 2. Chlorophyll a Decreased Ice Out, increased July and August
- 3. Color stayed the same Ice Out, decreased July and August
- 4. Total Phosphorus Decreased Ice Out, increased July and August
- 5. Overall, D.O. Increased Ice Out, July and August
- 6. Water Temperatures Increased Ice Out, July, and August

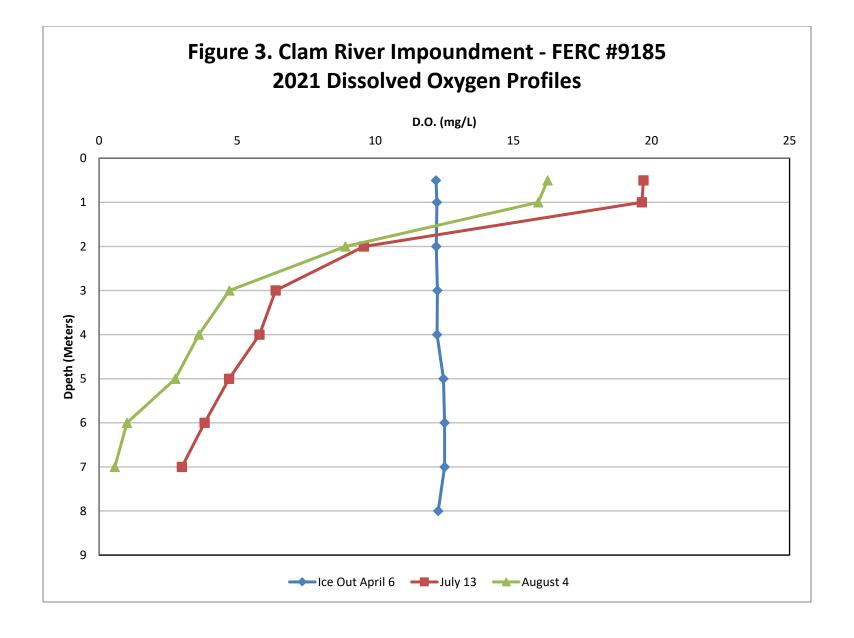
The next scheduled Water Quality Monitoring at the Clam River Hydroelectric Project is set to take place in 2022 beginning with the Ice-Out sampling event.

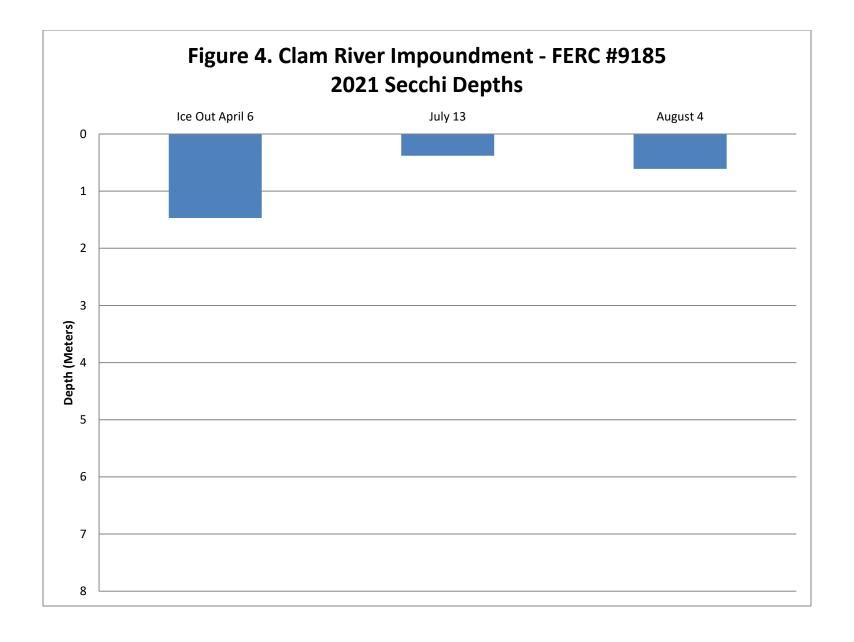
Appendix A – Clam River Hydroelectric Project Figures

Clam River Hydroelectric Project Water Quality Sampling Location Map FERC Project #9185 New - Clam River Water Quality Sample Location In Front of Dam N45°56.779' WO92°36.286' Elev. 923' CAMBAM gge interestati ye state structura, gge u.S. Rigmanya yee County Rouda New Water Quality Sample Location in Clum River Flowage use since 2012 24K County Boundaries Court Forms BURNETT Class Ione... 24K Oppen Weater 24K Rivers and Street Cities and Villages Claim River Water Quality Sample Location N45° 56.398' WO92° 31,975' Elev.909' Waypoint #35 Scale: 1;8,967 is map is a tract generated static output from an attended mappeng time and is for general determine only. Data layers that appead on this map may or may not be accurate, current or remove a mainter. This find his forth of the Code Pioth NAVIGATION.

Figure 1. Clam River Hydroelectric Project Map







Appendix B - Clam River Hydroelectric Project Tables

Table 1. Clam River Hydroelectric Project – FERC Project # 9185: 2021 Water Quality Sampling Data

	Ice Out April 6, 2021				July 13, 20)21	August 4, 2021				
Project Flow (c.f.s)		437			113		107				
Dissolved Oxygen	Time	D.O. (mg/L)	Water Temp.	Time	D.O. (mg/L)	Water Temp.	Time	D.O. (mg/L)	Water Temp.		
0.5 meter below surface	10:21.37	12.20	11.6	10:44.29	19.71	25.8	10:21.16	16.24	24.9		
1 meter below surface	10:22.26	12.23	11.4	10:44.50	19.74	26.1	10:23.27	15.90	24.8		
2 meters below surface	10:22.57	12.21	11.2	10:49.48	19.65	26.2	10:26.11	8.92	24.2		
3 meters below surface	10:23.40	12.25	11.0	10:53.35	9.59	24.8	10:29.04	4.72	23.8		
4 meters below surface	10:24.10	12.24	10.9	10:57.06	6.39	23.6	10:31.54	3.61	23.6		
5 meters below surface	10:24.54	12.47	10.7	10:59.29	5.81	22.4	10:34.27	2.76	23.2		
6 meters below surface	10:23.34	12.51	10.6	11:01.36	4.71	21.7	10:35.47	1.01	22.8		
7 meters below surface	10:26.09	12.51	10.2	11:03.38	3.82	21.4	10:38.29	0.87	22.7		
8 meters below surface	10:27.15	12.28	9.7	11:05.50	3.00	21.1					
0.5 meter above bottom	10:28.18	12.31	9.7	11:07.20	2.59	21.1	10:38.21	0.87	22.7		
Secchi Disk	Time	Depth		Time	Depth		Time	Depth			
		(m)			(m)			(m)			
Meters below surface	10:19	1.47		10:37	0.381		10:15	0.6096			
						T.			,		
Chlorophyll a	Time	μg/L	_	Time	μg/L		Time	μg/L			
1 meter below surface	10:19	9.20		10:40	27.00		10:16	72.00			
			1			T					
Color (True)	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD		
1 meter below surface	10:19	35.00	5*	10:40	10.00	5*	10:16	25.00	5*		
Total Phosphorus	Time	mg/L	LOD	Time	mg/L	LOD	Time	mg/L	LOD		
1 meter below surface	10:19	0.043	0.008*	10:40	0.086	0.008*	10:16	0.099	0.008*		
1 meter above bottom	10:23	0.036	0.008*	10:45	0.041	0.008*	10:19	0.070	0.008*		
*Considered Method Dete	ection Limit	N/A = Not A	pplicable								

Table 2. 2020/21 Water Year Monthly Temperature and Precipitation for Clam River, Wisconsin

				Departure	Heating	Normal				
Month	Highest	Lowest	Average	From	Degree	Degree	Total	Total	Normal	% of Normal
	Temp.	Temp.	Temp.	Normal	Days	Days	Precip.	Snowfall	Precip.	Precipitation
October - 20	81	28	54.6	-1.0	305	298	0.85	0.00	4.11	69
November - 20	80	13	38.0	-5.2	831	678	2.78	12.0	2.85	66
December - 20	75	11	33.3	4.5	948	1088	2.45	19.2	2.09	70
January – 21	44	-12	19.7	-0.22	1394	1556	0.99	16.5	1.21	75
February – 21	38	-14	17.9	7.7	1453	1699	0.61	9.1	0.96	75
March – 21	42	-35	7.2	-7.9	1612	1399	0.53	8.6	0.81	65
April – 21	61	0	33.2	7.3	979	1210	2.64	8.7	2.64	64
May – 21	66	12	41	1.4	713	762	2.91	2.3	2.43	67
June – 21	83	26	53.5	1.5	372	410	1.88	0.00	3.37	60
July – 21	94	41	66.6	5.4	54	152	1.79	0.00	4.39	67
August – 21	92	40	68.2	1.2	41	50	2.75	0.00	3.92	67
September - 21	89	46	68.6	3.1	24	64	2.44	0.00	3.73	70

Source: NOAA/Duluth, MN

Year	Month	Secchi	Chlorophyll a	Color (True)	Total	Total	Low D.O.	High D.O.	Low Water	High
		Depth			Phosphorus	Phosphorus			Temp.	Water
										Temp.
		meters	μg/L	C.P.U. Units	Below Surface	Above	mg/L	mg/L	°C	°C
					mg/L	Bottom mg/L				
2014	June	1.10	8.60	70.00	0.041	0.042	9.14	9.40	11.50	12.70
2015	April	1.50	13.00	25.00	0.049	0.039	8.45	11.93	9.90	14.40
2016	March	1.19	11.00	15.00	0.040	0.040	10.91	12.09	3.90	4.80
2017	April	1.30	15.00	10.00	0.024	0.025	9.91	11.03	9.70	10.80
2018	May	0.44	22.00	25.00	0.053	0.055	8.71	9.28	17.50	18.10
2019	April	1.46	5.200	40.00	0.032	0.047	8.94	9.39	9.11	9.60
2020	April	0.975	14.00	35.00	0.066	0.048	10.75	11.00	7.90	9.50
2021	April	1.47	9.20	35.00	0.043	0.036	12.20	12.51	9.70	11.60
Minimum	March-June	0.44	5.20	10.00	0.024	0.025	8.45	9.28	3.90	4.80
Maximum	March-June	1.50	22.00	70.00	0.066	0.055	12.20	12.51	17.50	18.10
Average	March-June	1.18	12.25	31.88	0.044	0.042	9.88	10.83	9.90	11.44
2014	July	0.80	18.00	50.00	0.056	0.055	7.06	12.44	20.40	22.50
2015	July	1.10	12.00	35.00	0.061	0.043	7.48	9.77	22.00	23.10
2016	July	0.88	44.00	30.00	0.043	0.043	0.70	11.31	24.40	26.60
2017	July	1.00	15.00	25.00	0.033	0.075	5.83	9.47	23.50	23.90
2018	July	0.46	26.00	30.00	0.090	0.093	0.07	8.47	24.90	26.10
2019	July	0.91	36.00	25.00	0.057	0.058	3.21	10.72	23.30	24.70
2020	July	0.549	17.00	25.00	0.057	0.059	0.72	10.17	24.10	24.90
2021	July	0.38	27.00	10.00	0.86	0.041	2.54	19.51	21.60	26.10
Minimum	July	0.055	12.00	10.00	0.033	0.041	0.07	8.47	20.40	22.50
Maximum	July	1.10	44.00	50.00	0.090	0.093	7.48	19.51	24.90	26.60
Average	July	0.70	24.38	28.75	0.060	0.058	3.45	11.49	23.03	24.78
2014	August	0.60	34.00	50.00	0.081	0.075	4.91	10.13	22.70	24.20
2015	August	0.50	120.00	40.00	0.076	0.043	5.50	16.91	22.60	24.70
2016	August	0.70	61.00	25.00	0.050	0.053	0.16	14.89	22.80	25.30
2017	August	1.00	11.00	20.00	0.034	0.034	3.30	9.84	20.70	21.40
2018	August	0.58	20.00	30.00	0.067	0.074	0.07	10.85	23.10	25.50
2019	August	0.58	92.00	45.00	0.090	0.065	0.04	13.08	22.40	24.40
2020	August	0.762	27.00	28.00	0.022	0.026	3.90	10.38	22.8	23.10
2021	August	0.61	72.00	25.00	0.099	0.070	0.870	16.24	22.70	24.90
Minimum	August	0.50	11.00	20.00	0.022	0.026	0.04	9.84	20.70	21.40
Maximum	August	1.00	120.00	50.00	0.099	0.075	5.50	16.91	23.10	25.50
Average	August	0.67	54.63	32.88	0.065	0.055	2.28	12.80	22.48	24.23

*no sample taken

Appendix C - Clam River Impoundment Project Sampling Logs

ł	٨	Λ	Ρí	\cap		N	D	N	IF	N	Т	5	Δ Ν	M	P	ı	N	G	L	\cap	G
Ł	I١	1	Γ,	J	U	V	U	١V		I۷		3/	٦١	V١	Г	ᄓ	١V	J	L	J	U

Water Quality Study Location Clam Klyw

Hydroelectric Project – FERC # 9185

Date: 4-6-21

Pre-Sampling Data:

HWL <u>898 LY</u> TWL <u>864,4</u> CFS <u>437</u> Sample Location: <u>MY5° SL</u>, 499

W 092° 36.286

Performed by:

Time: 10.10 Barometer: 24.8

Air Temp: D°F Wind Speed: NIN 12 mpH

Sky Conditions: 2590 (linds

Precipitation within Last 24 Hours: _________

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed? 🖂 Yes 💢 No

If yes, when were they changed:

Battery Status: _______% Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 1 Meters

Secchi Depth (± 0.1)
Time/0.19 H. D Feet Meters

1.47 Metus

	Chlorophyll a									
(1 Meter below surface horizontal sampler)										
Time / 0 , 19 Quantity (ml) Filtered										
	1000 In Lab									
Preservative MgCO₃										

		True Color
(1 M	leter below	surface horizontal sampler)
Time	10:19	

Total	Phosphorus
(1 Meter below su	ırface horizontal sampler)
Time 10:19	Preservative
	H₂SO ₄

Total Phosphorus								
(1 Meter above bottom horizontal sampler)								
Time 10.23	Time 10.23 Preservative							
	H ₂ SO ₄							

D.	D.O. and Temperature Profile							
Depth	Time	D.O.	Temperature					
(Meters)		(mg/L)	° C					
0.5 below	w. (A.1.3.7)	12.5	11 /					
surface	10:21:37	12.20	1116					
1	11.20.26	12.23	1114					
2	10,24,57	12.21	11,2					
-3	10:23 40	12.45	11,0					
4	1624.10	12,24.	10,9					
5	1.24.54	12.47	10.7					
6	1023,34	12.51	16.6					
7	10.21.09	12.51	70,2					
875	10.74.15	1228	9.7					
0.5 above	10:28:18	12.31	60					
bottom	10100110	12.31	1, 1					

*If D.O. is below 5.0 mg/L notify agency and measure D.O. at 1.0 foot intervals if <5.0 mg/L.

Comments:



IMPOUNDMENT SAMPLING LOG
Water Quality Study Location LWM RIVA
Hydroelectric Project – FERC # 45
Date: 7-13-2\
Pre-Sampling Data:
HWL898 78TWL 863 CFS 113
Sample Location: N45° G. 799
w 092° 36. 286
Performed by: Time: 135 Barometer: 14,97
Time: $\frac{1}{10000000000000000000000000000000000$
Air Temp: Mind Speed: Sw Comp H
Sky Conditions: Olew
Precipitation within Last 24 Hours:
D.O. Meter Calibration:
Instrument Model Used: HQ40D
Were the batteries changed? ☐ Yes ☐ No
If yes, when were they changed:
Battery Status:% Charge
Calibration Method: Factory
Sampling Depth Profile: Measured depth to
bottom of impoundment: 22 Meters
Sacchi Donth (+ 0.1)

Chlorophyll <i>a</i> (1 Meter below surface horizontal sampler)								
·			· · · · · · · · · · · · · · · · · · ·					
Time // ₀ ,4/0 Quantity (ml) Filtered								
	1000		In Lab					
Preservative MgCO ₃								

True Color
(1 Meter below surface horizontal sampler)
Time /0,4/0

Total	Phosphorus	
(1 Meter below su	rface horizontal sampler)	
Time /v, y Preservative		
H ₂ SO ₄		

Total	Phosphorus	
(1 Meter above bot	ttom horizontal sampler)	
Time 10,45	Preservative	
H ₂ SO ₄		

n	O. and Tem	nerature P	Profile
Depth	Time	D.O.	Temperature
(Meters)		(mg/L)	° C
0.5 below	W 4 9		
surface	103744	19,51	2611
1	1008:28	A.15	26,0
2	10:40:35	7.67	24.1
3	10:41:19	7.19	23.4
4	10:42:21	5,09	22,3
5	10.43:01	4.10	21,6
6	,,,	,,,	
7			
8		,	•
0.5 above			
bottom			

*If D.O. is below 5.0 mg/L notify agency and measure D.O. at 1.0 foot intervals if <5.0 mg/L.

Meters 0.38/my/05

comments:
Bald Eagle
Painhol Partles

CLRUPICADO N45, 93768

20+ Purple W-72, 52978

Lousestry Plans

Water Quality Location:

Clambiver

Date: 7, 13-21

*D.O. and Temperature Profile				
Depth	Time	D.O.	Temperature	
(Feet)		(mg/L)	°C	
0.5 below			2-1)	
surface	10.41.29	19.71	45.8	
1	101,0005	19.74	夏东 》	
2	10 41.42	1907A	26.7	
3	10.491.44	19.65	26.2	
4	10.50.3		7.6.1	
5	10.52.50	13.70	25.2	
6	10.53.35		24.8	
7	10.55.38	7.55	24.1	
8	10.56.15		23.8	
9	10.57.06	6.39	23.6	
10	10.57.59		73.1	
11	10.5833		22.6	
12	10.59,29		2.2.4	
13	11.00.04	5.4/	22.2	
14	11.00,49		21.9	
15	11.01.36		21.7	
16	11.02.14	4.23	21.5	
17	11.07.59	_	21.4	
18	11.03.38	3,42	21.4	
19	11.04 20	3.47	21.3	
20	11.0456	3.43	21.3	
21	11.05.50	3.00	21.2	
22	11.06.39	2,54	24.1	
23				
24				
25				
0.5 above	11.07.20	2.59	21.1	
bottom		,	,	



IMPOUNDMENT SAMPLING LOG
Water Quality Study Location Clam River
Hydroelectric Project – FERC #
Date:8-4-21
Pre-Sampling Data:
HWL 818 SLIVL 813.1 CFS 107 Sample Location: 145 91, 399 W 092 34, 1810
Sample Location: N45° 36, 399
W 092° 36.286
Performed by: Caron
Time: 9:51 Barometer: 30.10
Air Temp: 67 °F Wind Speed: 3 NW
Sky Conditions:
Precipitation within Last 24 Hours:
D.O. Meter Calibration:
Instrument Model Used: HQ40D
Were the batteries changed? Yes X No
If yes, when were they changed:
Battery Status: 65 % Charge
Calibration Method: Factory
Sampling Depth Profile: Measured depth to bottom of impoundment: 21 Meters feet
Secchi Depth (± 0.1)
Time 10:15 D (Feet) Meters
1) In a left years for

Chlorophyll a				
(1 Meter below surface horizontal sampler) Time Quantity (ml) Filtered				
10:16	1000		In Lab	
Preservative		MgC	O ₃	

	True Color	
(1 M	eter below surface horizontal sampler)	
Time	10.16	

Total Phosphorus			
(1 Meter below surface horizontal sampler)			
Time 10.16 Preservative			
H ₂ SO ₄			

	Total	Phosphorus	
(1 Me	ter above bo	ttom horizontal sampler)	
Time 10.19 Preservative			
H ₂ SO ₄			

D.O. and Temperature Profile					
Depth	Time	D.O.	Temperature		
(Meters)		(mg/L)	° C		
0.5 below			0.1		
surface	10:16:21	16.56	24.8		
1	10.17:42	15.91	84.7		
2	10.18.11	7.76	24.0		
. 3	10:19.17	4.51	23.7		
4			,		
5					
6					
7					
8					
0.5 above					
bottom					

*If D.O. is below 5.0 mg/L notify agency and measure D.O. at 1.0 foot intervals if <5.0 mg/L.

Below 5 mg/L

Comments:



Water Quality Location:

Date: 8-4-21

*D.O. and Temperature Profile				
Depth	Time	D.O.	Temperature	
(Feet)		(mg/L)	° C	
0.5 below	_	11		
surface	10:21.16	16.24	249	
1	10.21.58	15.47	24.8	
2	10.224		24.9	
3	10-23.27	15,90	74.8	
4	10.24.58	16.13	24-8	
5	10.2531	13.65	24.7	
6	10.96.11	8.92	24.2	
7	10.27.21	8.03	24.1	
8	10.28.16	5.74	24.0	
9	10.29.04	4.72	23.8	
10	10.30.21		23.7	
11	10.31.21	3.95	23-6	
12	10.31.54	3.61	23.6	
13	10:32.21	255	33.5	
14	10.33.13		23.3	
15	10.34.27		23.2	
16	10.34.58	2.25	231	
17 ·	10:35.11	1.41	22.4	
18	16:35.41	1.01	22.8	
19	10.36.42	1.02	22.1	
20	10:37.11	0.92	22.8	
21	10.38.2	0.87	32.7	
22				
23				
24				
25				
0.5 above bottom	10.38.7	0.87	22.1	



Appendix D - Clam River Hydroelectric Project Lab Reports and Chains of Custody

Cover Page



ANALYTICAL REPORT

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE		WWA Job #: 93995		
Project:	Monitoring			
Date Received: 4/8/2021		Date Reported: 5/12/2021		
Sample Number	Client Sample ID	Date/Time Sampled	Sample Matrix	
93995-001	Clam River Surface	4/6/2021 10:19	Water	
93995-002	Clam River Bottom	4/6/2021 10:23	Water	
93995-003	Danbury Surface	4/6/2021 13:41	Water	
93995-004	Danbury Bottom	4/6/2021 13:46	Water	

Cover Page..continued



ANALYTICAL REPORT

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 93995

Comments (if any):

Key to Laboratory Flags:

- *: RPD/RSD exceeds limits.
- B: The analyte was found in the associated blank as well as in the sample.
- J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.
- M: A matrix effect was present.
- Q: Batch QC data associated with the analysis does not meet the stated objectives
- H: Indicates analytical holding time exceedance.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid) For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

Sample Types:

S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By: Electronically signed by Bette J. Premo

remo

WI DNR Lab Certification Number: 999971280

MI EGLE Certification Number: 9306

DoD-ELAP Accreditation Number: 65802 by PJLA

for Environmental Testing ISO/IEC 17025:2005 Accredited

ANALYTICAL REPORT



429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 93995

Project:

Monitoring

Date Received:

4/8/2021

Date Reported:

5/12/2021

	Sa	ample	Results					
Sample No. / ID / Description / M	Iatrix Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
93995-001 / Clam River Surface	/ Water							
General Chemistry Parameter	·s							
Chlorophyll a	9.2		mg/m3	4/30/2021 13:30	10200H	NA	NA	AH
Color	35	H	CU	5/3/2021 10:30	2120B	5	5	AH
Total Phosphorus LL (t)	0.043	J	mg/L	4/14/2021 11:57	365.4	0.008	0.050	NK
93995-002 / Clam River Bottom	/ Water							
General Chemistry Parameter	·s							
Total Phosphorus LL (t)	0.036	J	mg/L	4/14/2021 11:58	365.4	0.008	0.050	NK
93995-003 / Danbury Surface /	Water							
General Chemistry Parameter	·s							
Chlorophyll a	7.6		mg/m3	4/30/2021 13:30	10200H	NA	NA	AH
Color	20	H	CU	5/3/2021 10:30	2120B	5	5	AH
Total Phosphorus LL (t)	0.014	J	mg/L	4/14/2021 11:58	365.4	0.008	0.050	NK
93995-004 / Danbury Bottom / V	Water							
General Chemistry Parameter	·s							
Total Phosphorus LL (t)	0.021	J	mg/L	4/14/2021 11:59	365.4	0.008	0.050	NK

Filed Da	te: 02	/08	/2022
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Job # (WWA office use): 9399			СН	ΙΑI	1-OI	F-C	US.	ΓΟΙ) Y F	REC	OR	D						1							Version 191002
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ADDRESS		TELE	PHO	NE														ane, P.	O. Box				Phon	e: (90¢	3) 822-7889, Fax -7977 -water-associates.com
CITY STATE ZIF	P	CONT	RAC	T/P) 1-	ROJI	1 TOE	NAME	E / WS	SSN#					ANA			E RE		TED	(Attac				
SAMPLER NAME (print first/last name)		<u>.</u>		TY OF LOCATION PAGE Indicate if more than one page of COC records used										İ					emall mall						
Anglis Strij SAMPLER'S SIGNATURE			A KKIDI		ATD		upon botile prese	arrival s, WW rvatio	reservi l and li l/A data n detal	ndicate abase is,	total contal	numbe ns bot	er of ttle	Containers	0										Unless otherwise noted, drinkin water report copies are sent to EGLE and Health Dept.
SAMPLE ID AND LOCATION Containers for each sample may be combined on one line.	TIME	vater	Aqueous	Sed.	ATRI	Offier:		HZSO4	ERS EONH) PR	NaOH	Na Thio	Other:	Total Number of Containers	140	7 /2 ho	Colas								REMARKS (Note any special Instructions provided by client conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)
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- Control of the Cont	0,23		X					X						1		X									
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Dunbury Bottom 4-6-2)	3,46		+										_	- -	<u> </u>	1									
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	ate:	Time	: \		elved	by:		}	CUS				Dat	e: 3	21	Tin	.30				3				Other WWA

Filed Date: 02/08/2022

Login Checklist



Pro	ject No.:	93995	Date logged in.: 4/8/2021	Login person's	s initials: 11
Clie	nt:	RWE		Number of co	olers: 1
Pro	ject name:	Monitoring		Courier/shipp	er: WWA
/	1. Custody	seals/original j	packing tape were intact (if appli	icable).	
/	2. Samples	are in good co	ndition, i.e. not broken or leakin	g.	
/	3. Samples	were received	within holding times.		NOTES on #4:
/	4. Samples	were received	on ice (in direct contact with the	e samples).	
1	5. Tempera	iture of the sar	nples was between 0-6°C. Temp.	3	
			veen 0-6°C that are received at the not require client notification.	ie laboratory on	the day
/	6. Samples	matched the C	Chain of Custody (COC).		
/	7. Proper c	ontainers were	e used.		
/	8. Samples	were collected	in White Water lab containers.		
/	9. There is	adequate samp	ple volume for requested analyse	s and QC.	
	10. For wat	ter VOC samp	les, headspace is less than the siz	ze of a pea.	
/	_	•	d to the proper pH. Sample bottlontainer Section.	les and preserva	tion are
/	12. The CC	OC is signed. (e	ither Sampler or Relinquished b	oy)	
	13. Sub-sar section of le		required. Bottles created are not	ed in sample cor	ıtainers
/	14. For Dis	solved Analysi	s (when applicable), samples we	re filtered in the	lab.
	15. For soil	l VOCs, metha	mol preserved samples were reco	eived.	
	16. For Soi	l VOCs, samp	les were preserved with methano	ol in the lab.	
	17. Client o	contact is neces	ssary. Provide documentation be	low.	

CLIENT RESPONSE

COMMENTS/CORRECTIVE ACTION

Note: If hold time, volume, and received on ice or temperature criteria are not met when required by the method, results may not be able to be used for regulatory purposes. Check with your reporting agency for more information.

Cover Page



ANALYTICAL REPORT

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE		•	WWA Job #: 95725
Project:	Monitoring		
Date Received:	7/15/2021	Date Reported: 7/	/30/2021
Sample Number	Client Sample ID	Date/Time Sampled	Sample Matrix
95725-001	Clam River Surface	7/13/2021 10:40	Water
95725-002	Clam River Bottom	7/13/2021 10:45	Water
95725-003	Danbury Surface	7/13/2021 13:38	Water
95725-004	Danbury Bottom	7/13/2021 13:41	Water

Cover Page..continued



ANALYTICAL REPORT

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 95725

Comments (if any):

Key to Laboratory Flags:

- *: RPD/RSD exceeds limits.
- B: The analyte was found in the associated blank as well as in the sample.
- J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.
- M: A matrix effect was present.
- Q: Batch QC data associated with the analysis does not meet the stated objectives
- H: Indicates analytical holding time exceedance.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)
For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

Sample Types:

S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By: Electronically signed by Bette J. Premo

remo

WI DNR Lab Certification Number: 999971280 MI EGLE Certification Number: 9306

DoD-ELAP Accreditation Number: 65802 by PJLA

for Environmental Testing ISO/IEC 17025:2005 Accredited

ANALYTICAL REPORT



429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 95725

Project:

Monitoring

Date Received:

7/15/2021

Date Reported:

7/30/2021

	Sa	mple	Results	•				
Sample No. / ID / Description	/ Matrix Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
95725-001 / Clam River Surfa	ace / Water							
General Chemistry Parame	eters							
Chlorophyll a	27		mg/m3	7/16/2021 13:20	10200H	NA	NA	АН
Color	10		CU	7/16/2021 13:30	2120B	5	5	NK
Total Phosphorus LL (t)	0.086		mg/L	7/23/2021 14:18	365.4	0.008	0.050	NK
95725-002 / Clam River Botto	om / Water							
General Chemistry Parame	eters							
Total Phosphorus LL (t)	0.041	J	mg/L	7/23/2021 14:19	365.4	0.008	0.050	NK
95725-003 / Danbury Surface	/ Water							
General Chemistry Parame	eters							
Chlorophyll a	6.4		mg/m3	7/16/2021 13:20	10200H	NA	NA	AH
Color	10		CU	7/16/2021 13:30	2120B	5	5	NK
Total Phosphorus LL (t)	0.036	J	mg/L	7/23/2021 14:19	365.4	0.008	0.050	NK.
95725-004 / Danbury Bottom	/ Water							
General Chemistry Parame	eters							
Total Phosphorus LL (t)	0.037	J	mg/L	7/23/2021 14:21	365.4	0.008	0.050	NK.

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Containers for each sample may be combined on one line.	DATE	TIME	Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	모	NaOH	Na Thio	Other:	Total Number of Containers	CMI	7/	Colo								instructions provided by ciler conditions of receipt noted WWA lab staff. Also note a residual chlorine.)
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Filed Date: 02/08/2022

Login Checklist



Proj	ect No.:	95/25	Date logged in.:	//15/2021	Login person's	mitials:	JI
Clien	nt:	RWE			Number of coo	lers: 1	
Proj	ect name:	Monitoring			Courier/shippe	er: W	WA
V	1. Custody	seals/original p	acking tape were	intact (if applic	able).		
~	2. Samples	are in good co	ndition, i.e. not b	roken or leaking.	•		
V	3. Samples	were received	within holding tir	nes.		NOTES or	ı #4:
✓	4. Samples	were received	on ice (in direct c	ontact with the s	samples).		rection to the second
~	5. Tempera	ture of the san	ıples was betweei	n 0-6°C. Temp.:	1		
		-	een 0-6°C that ar ot require client		e laboratory on	the day	
V	6. Samples	matched the C	hain of Custody	(COC).			
~	7. Proper co	ontainers were	used.				
~	8. Samples	were collected	in White Water l	ab containers.			
V	9. There is	adequate samp	le volume for rec	quested analyses	and QC.		
	10. For wat	er VOC sampl	es, headspace is l	ess than the size	of a pea.		
V	-		I to the proper plontainer Section.	H. Sample bottle	s and preservat	ion are	
V	12. The CO	C is signed. (e	ither Sampler or	Relinquished by)		
	13. Sub-san section of lo	~ ~ .	equired. Bottles o	created are noted	d in sample con	tainers	
V	14. For Disa	solved Analysis	s (when applicabl	e), samples were	filtered in the	lab.	
	15. For soil	VOCs, metha	nol preserved san	nples were receiv	ved.		
	16. For Soil	l VOCs, sampl	es were preserved	d with methanol	in the lab.		
	17. Client c	ontact is neces	sary. Provide doc	cumentation belo	ow.		

CLIENT RESPONSE

COMMENTS/CORRECTIVE ACTION

Note: If hold time, volume, and received on ice or temperature criteria are not met when required by the method, results may not be able to be used for regulatory purposes. Check with your reporting agency for more information.

ANALYTICAL REPORT

Cover Page



429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE		,	WWA Job #: 96119		
Project:	Monitoring				
Date Received:	8/5/2021	Date Reported: 9.	12/2021		
Sample Number	Client Sample ID	Date/Time Sampled	Sample Matrix		
96119-001	Clam River Surface	8/4/2021 10:16	Water		
96119-002	Clam River Bottom	8/4/2021 10:19	Water		
96119-003	Danbury Surface	8/4/2021 12:18	Water		
96119-004	Danbury Bottom	8/4/2021 12:20	Water		

Filed Date: 02/08/2022

Cover Page..continued



ANALYTICAL REPORT

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 96119

Comments (if any):

Key to Laboratory Flags:

- *: RPD/RSD exceeds limits.
- B: The analyte was found in the associated blank as well as in the sample.
- J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.
- M: A matrix effect was present.
- Q: Batch QC data associated with the analysis does not meet the stated objectives
- H: Indicates analytical holding time exceedance.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid) For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

Sample Types:

S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By: Electronically signed by Bette J. Premo

remo

WI DNR Lab Certification Number: 999971280 MI EGLE Certification Number: 9306 DoD-ELAP Accreditation Number: 65802 by PJLA

for Environmental Testing

ISO/IEC 17025:2005 Accredited

ANALYTICAL REPORT



429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 96119

Project:

Monitoring

Date Received:

8/5/2021

Date Reported:

9/12/2021

	S	ample	Results					
Sample No. / ID / Description / M	Iatrix Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
96119-001 / Clam River Surface	/ Water							
General Chemistry Parameter	s							
Chlorophyll a	72		mg/m3	8/6/2021 15:40	10200H	NA	NA	AC
Color	25		CU	9/8/2021 15:50	2120B	5	5	NK
Total Phosphorus LL (t)	0.099		mg/L	8/10/2021 15:55	365.4	0.008	0.050	NK
96119-002 / Clam River Bottom	/ Water							
General Chemistry Parameter	s							
Total Phosphorus LL (t)	0.070		mg/L	8/10/2021 15:55	365.4	0.008	0.050	NK
96119-003 / Danbury Surface / \	Water							
General Chemistry Parameter	S							
Chlorophyll a	18		mg/m3	8/6/2021 15:40	10200H	NA	NA	AC
Color	10		CU	9/8/2021 15:52	2120B	5	5	NK
Total Phosphorus LL (t)	0.073		mg/L	8/10/2021 15:56	365.4	0.008	0.050	NK.
96119-004 / Danbury Bottom / N	Vater							
General Chemistry Parameter	S							
Total Phosphorus LL (t)	0.038	J	mg/L	8/10/2021 15:57	365.4	0.008	0.050	NK.

conditions of receipt noted by HWWA lab staff. Also note any 1:
residual chlorine.)

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O Document Accession Unless ofherwise noted, drinking unwater report copies are sent to HEGLE and #: 20220208 02/08/2022 instructions provided by client or Instructions to White Water REMARKS (Note any special Packing: Ice / Send my report by: emaĭi Phone: (906) 822-7889, Fax -7977 Web: white-water-associates.com mail Health Dept. UPS□ FedEx□ USPS□ Client□ Other UUW# ASSOCIATES, INC. WHITE WATER ANALYSIS TYPE REQUESTED (Attach list if neeeded) Comments/sample temp on receipt 429 River Lane, P.O. Box 27 Amasa, Michigan 49903 Time: > لر Time: بر > Sale: Indicate if more than Total Mumber of Containers 7 one page of COC records used Date: Other: CONTAINERS / PRESERVATIVES upon arrival and indicate total number of Check off preservatives for each bottle bottles. WWA database contains bottle oldT &V CHAIN-OF-CUSTODY RECORD HOBN CONTRACT / PO / PROJECT NAME / WSSN# P. HCI preservation details. FONH PAGE X ~2 **₩SSO** Monthorma Mone Other: COUNTY OF LOCATION Received by: Received by: SAMPLE MATRIX llos CANARY - W/ SAMPLES EMAIL ADDRESS .be2 TELEPHONE suceupA 62.h Time: Time: Drinking water 3 12-5-8 Borbon 18-4-31 10:19 8:C 18-7-8 Sup. (4-8/10:16 TIME Job # (WWA office use): Q[g][Q]Date: Ken Ope. NO 검 DATE STATE WHITE - RETURN W/ REPORT SAMPLER NAME (print first/last pame) Containers for each sample may m/mo Parkin SAMPLE ID AND LOCATION be combined on one line. Breama SAMPLER'S SIGNATURE CLIENT NAME / BILL TO 13 m Rilla Char Prices MARIA Hung Relinquighed by Relinquished by ADDRESS CITY

PINK - CUSTOMER

Firefox

Document Accession #: 20220208-5110 Filed Date: 02/08/2022

FW: Review Request FW: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

Gregory, Malcolm K - DNR <malcolm.gregory@wisconsin.gov>

Tue 11/30/2021 8:49 AM

To: Brian Kreuscher < bkreuscher@rwehydro.com>

Good morning Brian

Upon review WDNR does not have any comments for these water quality reports for P-9184 and P-9185.

If you have any questions, please feel free to reach out.

Best,

Malcolm

Malcolm Gregory (he/him)

Environmental Analysis & Review Specialist Wisconsin Department of Natural Resources 101 S. Webster Street Madison, WI 53707-7921 malcolm.gregory@wisconsin.gov



From: Brian Kreuscher < bkreuscher@rwehydro.com >

Sent: Tuesday, November 16, 2021 2:36 PM

To: Laatsch, Cheryl - DNR < Cheryl.Laatsch@wisconsin.gov >; Darin Simpkins@fws.gov

Subject: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Cheryl and Darin,

Attached are the Draft Water Quality Reports for Danbury and Clam River. Please review and provide any comments you may have to me within 60 days for FERC submittal.

Thanks

Brian Kreuscher

Renewable World Energies Regulatory & Compliance 855-994-9376 x230

1 of 1 2/2/2022, 11:47 AM Firefox

Document Accession #: 20220208-5110

Filed Date: 02/08/2022

Re: Flambeau Upper (P-2640) Flambeau Lower (P-2421) Pixley (P-2395) Crowley (P-2473) Draft Water Quality Reports

Brian Kreuscher < bkreuscher@rwehydro.com>

Tue 12/21/2021 9:07 AM

To: Gregory, Malcolm K - DNR <malcolm.gregory@wisconsin.gov>

Cc: Laatsch, Cheryl - DNR < Cheryl.Laatsch@wisconsin.gov>

Greg,

Here is the sheet with a tab for each project.

Thanks

Brian Kreuscher

From: Gregory, Malcolm K - DNR <malcolm.gregory@wisconsin.gov>

Sent: Tuesday, December 21, 2021 8:20 AM

To: Brian Kreuscher < bkreuscher@rwehydro.com>

Cc: Laatsch, Cheryl - DNR < Cheryl. Laatsch@wisconsin.gov>

Subject: FW: Flambeau Upper (P-2640) Flambeau Lower (P-2421) Pixley (P-2395) Crowley (P-2473) Draft Water

Quality Reports

Good morning Brian,

Could you please send me the raw data for these four reports? WDNR would like to have the corresponding spreadsheets for the FERC licensee annual WQ reports.

Best,

Malcolm

Malcolm Gregory (he/him)

Environmental Analysis & Review Specialist Wisconsin Department of Natural Resources 101 S. Webster Street Madison, WI 53707-7921 malcolm.gregory@wisconsin.gov



From: Brian Kreuscher < bkreuscher@rwehydro.com>

Sent: Tuesday, November 16, 2021 9:47 AM

To: Laatsch, Cheryl - DNR < Cheryl.Laatsch@wisconsin.gov>; Darin Simpkins@fws.gov

Subject: Flambeau Upper (P-2640) Flambeau Lower (P-2421) Pixley (P-2395) Crowley (P-2473) Draft Water

Quality Reports

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All,

1 of 2 2/2/2022, 11:50 AM

Firefox

Document Accession #: 20220208-5110

Filed Date: 02/08/2022

Attached are the Draft Water Quality Reports for all four projects. Please review and provide any comments you may have to me within 60 days for FERC submittal.

Thanks
Brian Kreuscher
Renewable World Energies
Regulatory & Compliance
855-994-9376 x230

2 of 2 2/2/2022, 11:50 AM

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