November 12, 2014

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

RE: Winter Hydroelectric Project
FERC Project Number P-2064
Flambeau Hydro LLC
Final Report 2014 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 *Final Report 2014 Water Quality Monitoring Data* for the Winter Hydroelectric Project. The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on August 12, 2005. A revised Water Quality Certification was issued August 19, 2008. This report is submitted as a requirement of that License pursuant to License Article 401 Condition N, Appendix A. 2013 was the eighth year monitoring was conducted since the license was issued, but is the 3rd year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on June 5, July 15, and August 11, 2014. No out of the ordinary issues were encountered. Ice-Out occurred later than normal this year. High flows and dangerous water conditions prevented the Ice-Out sampling from occurring until June, as documented in the correspondence sections of the report. No other issues were encountered during the 2014 monitoring season. The draft report was sent to the agencies by letter dated October 3, 2014 for review and comment. It was submitted electronically as an attachment to an e-mail as requested previously. No comments were received from WDNR, USFWS, or the USFS. Should the agencies have any comments to offer, the Licensee suggests they be sent directly to the Commission. The next scheduled monitoring event will be conducted in 2015.

If you have any questions concerning this submittal, please contact Mr. Gary Rast at the Renewable World Energies, LLC offices @ 855-994-9376 Ext 105. He can also be reached by e-mail at grast@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

for Mr. Jason Kreuscher
Vice President, Operations

Attachment: Final Report 2014 Water Quality Monitoring Data – November 12, 2014

Cc: Mr. Paul Strong, USFS
Mr. Dale Higgins, USFS
Ms. Sue Reinecke, USFS
Ms. Cheryl Laatsch, WDNR
Mr. Nick Utrup, USFWS
RWE, Corporate

Final Report

2014 Water Quality Monitoring Data

for the

Winter Hydroelectric Project
FERC Project #2064
Flambeau Hydro, LLC

East Fork of the Chippewa River, Sawyer County, Wisconsin

Respectfully Submitted by:

Renewable World Energies, LLC
100 State Street – P.O. Box 264
Neshkoro, Wisconsin 54960

Final – November 12, 2014

Table of Contents

Summary

2014 marked the eighth year of water quality sampling under the FERC License issued August 12, 2005 Per Article 401, Water Quality Certification Condition N, Appendix A for the Winter Hydroelectric Project – FERC Project # 2064 – Flambeau Hydro, LLC".

In general, the weather (temperature and rainfall) during the 2014 monitoring season appeared cooler in April, slightly warmer in May, June, July, and August with higher than normal precipitation in the months of April, May, June, and August. Temperatures in May, June, July, and August were about .5 degrees warmer than normal but precipitation was slightly (11%) below normal for July. **(Refer to 2014 Monthly Temperature and Precipitation Table page 6)** No one test result stands out as out of the ordinary. Sampling and testing of the samples was coordinated with the sampling done at the Flambeau Projects (Upper, Lower, Pixley, Crowley). These projects are located on the North Fork of the Flambeau River, Price County, Wisconsin. Protocol, procedures, and sampling design followed that of the Flambeau Projects.

The definition for Ice-Out occurred on the East Fork of the Chippewa sometime during the week beginning April 20, 2014. The Licensee traveled to the region during the week of May 5, 2014 thru May 9, 2014 to conduct the monitoring. River flow, based on Winter Hydroelectric Project records was approximately 2500 cubic feet per second during this time. High flows and dangerous conditions prevented sampling from being accomplished. The Licensee contacted agencies with this information and proposed the Ice-Out sampling be abandoned for 2014. The WDNR responded they wished the sampling be performed even if it could not be done until June. The Licensee gave the agencies an update on the sampling progress on May 27, 2014. They were told that nothing had been collected to that point; flows had come down quite a bit, however the boat barriers had not been installed. Sampling is on hold until at least the week of June 2nd or June 9th. The Ice-Out sampling event occurred on June 5, 2014. River flow, based on the Winter Hydroelectric Project records, was approximately 556 cubic feet per second. Sampling occurred between 9:00 a.m. and 9:42 a.m. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to Northern Lake Service, Inc. in Crandon, WI on June 6, 2014. Northern Lake Service, Inc. issued a laboratory report on June 19, 2014. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

The July sampling event occurred on July 15, 2014. River flow, based on Winter Hydroelectric Project records was approximately 225 cubic feet per second. Sampling occurred between 9:00 a.m. and 9:28 a.m. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to Northern Lake Service, Inc. in Crandon, WI on July 16, 2014. Northern Lake Service, Inc. issued a laboratory report on July 22, 2014. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

The August sampling event occurred on August 11, 2014. River flow, based on Winter Hydroelectric Project records, was approximately 60 cubic feet per second. Sampling occurred between 1:15 p.m. and 1:35 p.m. Samples were taken without incident. No unusual

D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to Northern Lake Service, Inc. in Crandon, WI on August 12, 2014. Northern Lake Service, Inc issued a laboratory report on August 18, 2014. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

A summary of a comparison between the 2011 thru 2014 (**Refer to 2014 Winter Project Sampling Comparison Table 2011-2014 page 7**) sampling results are as follows:

1. Water Clarity – Increased Ice-Out – Normal July/August
2. Chlorophyll a – Increased Ice-Out – Decreased July/August
3. Color – Increased Ice-Out – Decreased July/August
4. Total Phosphorus – Increased Ice-Out – Decreased July/August
5. Overall D.O. – Increased July – Decreased Ice-Out/August
6. Water Temperatures – Increased Ice-Out/Slightly August – Decreased July

Correspondence from the agencies during 2010 indicated they would prefer that notifications of incidents be by e-mail only and that telephone contacts are not needed. All other correspondence can be found on page 12, **Appendix D**. The next Water Quality Monitoring at the Winter Hydroelectric Project is scheduled for 2015 beginning with the Ice-Out sampling event.

2014 Tabular Data

Ice-Out (June 5), July 15, August 11

Winter Hydroelectric Project - FERC Project # 2064
2014 Water Quality Sampling Data

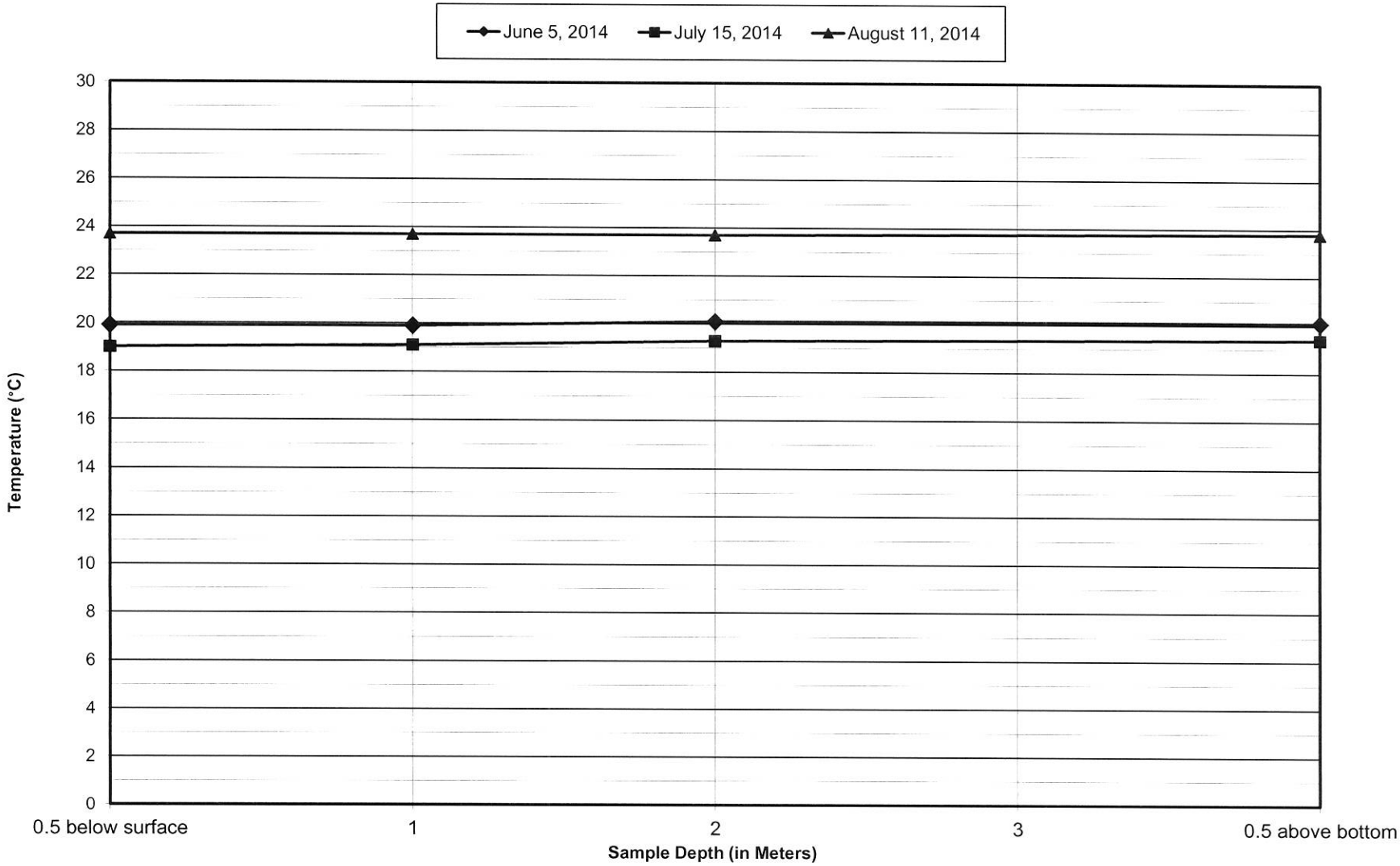
	June 5, 2014			July 15, 2014			August 11, 2014		
Project Flow (c.f.s.)	556			225			60		
Dissolved Oxygen	**Time**	**D.O. (mg/L)**	**Water Temp. (°C)**	**Time**	**D.O. (mg/L)**	**Water Temp. (°C)**	**Time**	**D.O. (mg/L)**	**Water Temp. (°C)**
0.5 meter below surface	9:36 AM	7.07	19.9	9:25 AM	6.44	19.0	1:30 PM	6.68	23.7
1 meter below surface	9:39 AM	7.04	19.9	9:26 AM	6.40	19.1	1:32 PM	6.65	23.7
2 meter below surface	9:41 AM	7.00	20.1	9:27 AM	6.35	19.3	1:34 PM	6.61	23.7
3 meter below surface	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
.5 meter above bottom	9:42 AM	6.98	20.1	9:28 AM	6.31	19.4	1:35 PM	6.54	23.8
Secchi Disk	**Time**	**Depth (mtr)**		**Time**	**Depth (mtr)**		**Time**	**Depth (mtr)**	
Meters below surface	9:20 AM	1.50		9:10 AM	0.60		1:20 PM	0.90	
Chlorophyll a	**Time**	**ug/L**		**Time**	**ug/L**		**Time**	**ug/L**	
1 meter below surface	9:22 AM	2.30		9:15 AM	1.50		1:25 PM	1.80	
Color (True)	**Time**	**C.P.U. Units**	**LOD**	**Time**	**C.P.U. Units**	**LOD**	**Time**	**C.P.U. Units**	**LOD**
1 meter below surface	9:23 AM	300.00	25*	9:17 AM	250.0	25*	1:26 PM	150.0	25*
Total Phosphorus	**Time**	**mg/L**	**LOD**	**Time**	**mg/L**	**LOD**	**Time**	**mg/L**	**LOD**
1 meter below surface	9:24 AM	0.055	0.0070*	9:20 AM	0.050	0.0070*	1:27 PM	0.040	0.0070*
1 meter above bottom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*** Considered Reporting Limits**

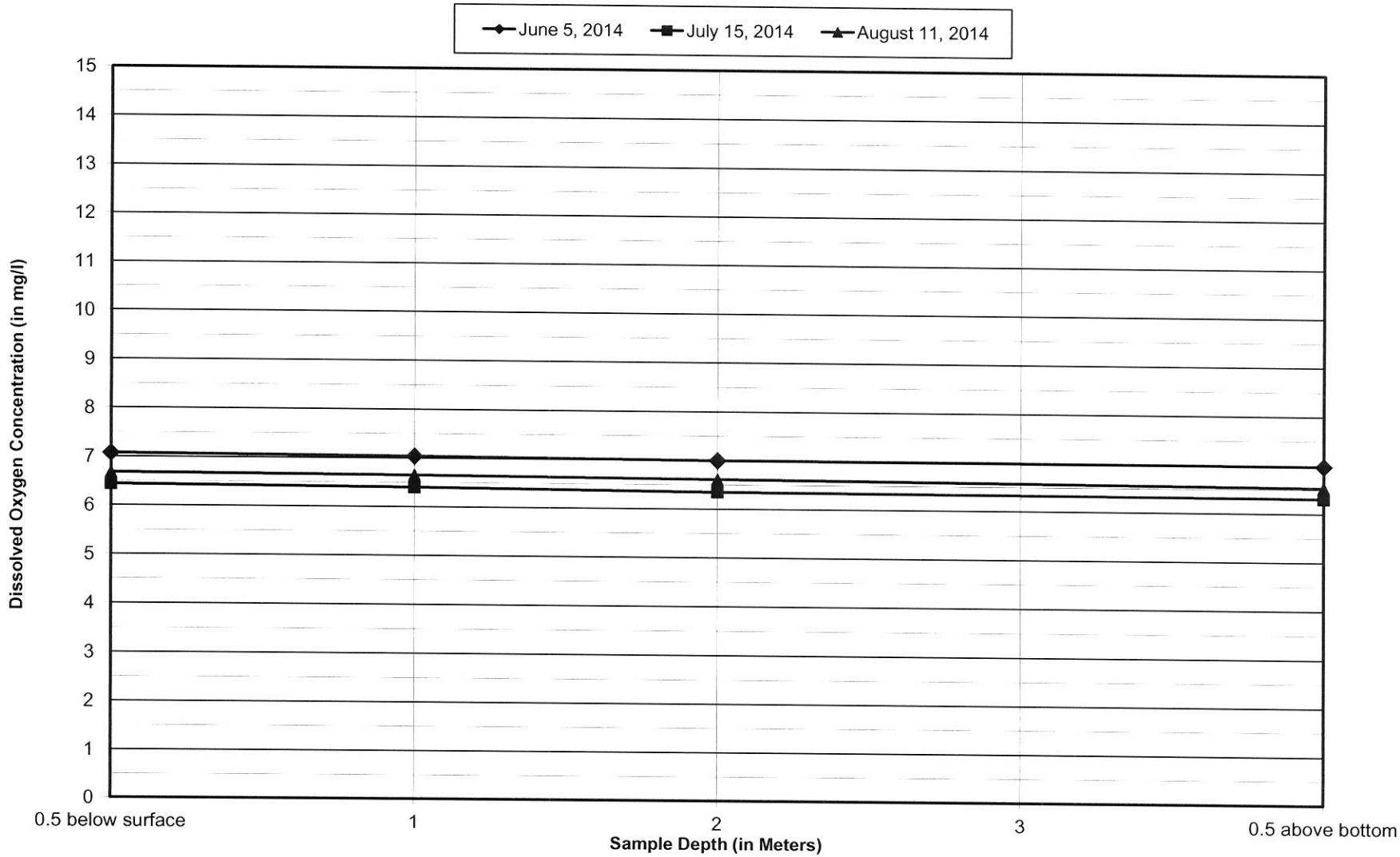
2014 Graphed Data

Temperature and Dissolved Oxygen

Winter Impoundment - FERC # 2064
2014 Temperature Samples



Winter Impoundment - FERC # 2064
2014 Dissolved Oxygen Samples



Monthly

Temperature and Precipitation

Table

2014 Water Year Monthly Temperature and Precipitation for Winter, Wisconsin

Month	Highest Temp.	Lowest Temp.	Average Temp.	Departure From Normal	Heating Degree Days	Normal Degree Days	Total Precip.	Total Snowfall	Normal Precip.	% of Normal Precipitation
October-13	74	21	45.0	1.8	610	678	3.93	0.3	5.01	78%
November-13	50	-3	27.9	-0.9	1105	1088	0.82	4.7	2.09	39%
December-13	35	-21	4.6	-10.2	1866	1556	2.88	39.9	1.21	238%
January-14	34	-28	1.6	-8.6	1955	1699	0.73	9.4	0.96	76%
February-14	41	-22	5.3	-9.8	1663	1399	2.12	29.5	0.81	262%
March-14	52	-23	18.4	-7.5	1439	1210	1.91	20.9	1.49	128%
April-14	66	11	35.1	-4.5	886	762	3.30	26.3	2.43	136%
May-14	85	31	51.9	0.5	414	426	4.37	T	3.23	135%
June-14	82	42	60.3	0.2	162	179	4.47	T	4.23	106%
July-14	88	45	66.3	0.5	40	63	3.42	0.0	3.85	89%
August-14	83	48	64.7	0.4	37	86	4.63	0.0	3.70	125%
September-14	81	34	57.4	1.8	227	298	1.64	0.0	4.11	40%

Source: NOAA/Duluth, MN

To calculate HDD or Heating Degree Days--If the departure from normal is a negative number (-) you add this to the total below the HDD column
If the departure from normal is a plus number (+) you subtract this from the total below the HDD column
Calculations for NDD or Normal Degree Days follow the same formula

2014
Winter
Sampling Comparison Table
2011—2014

Winter

Project Sampling Comparison Table

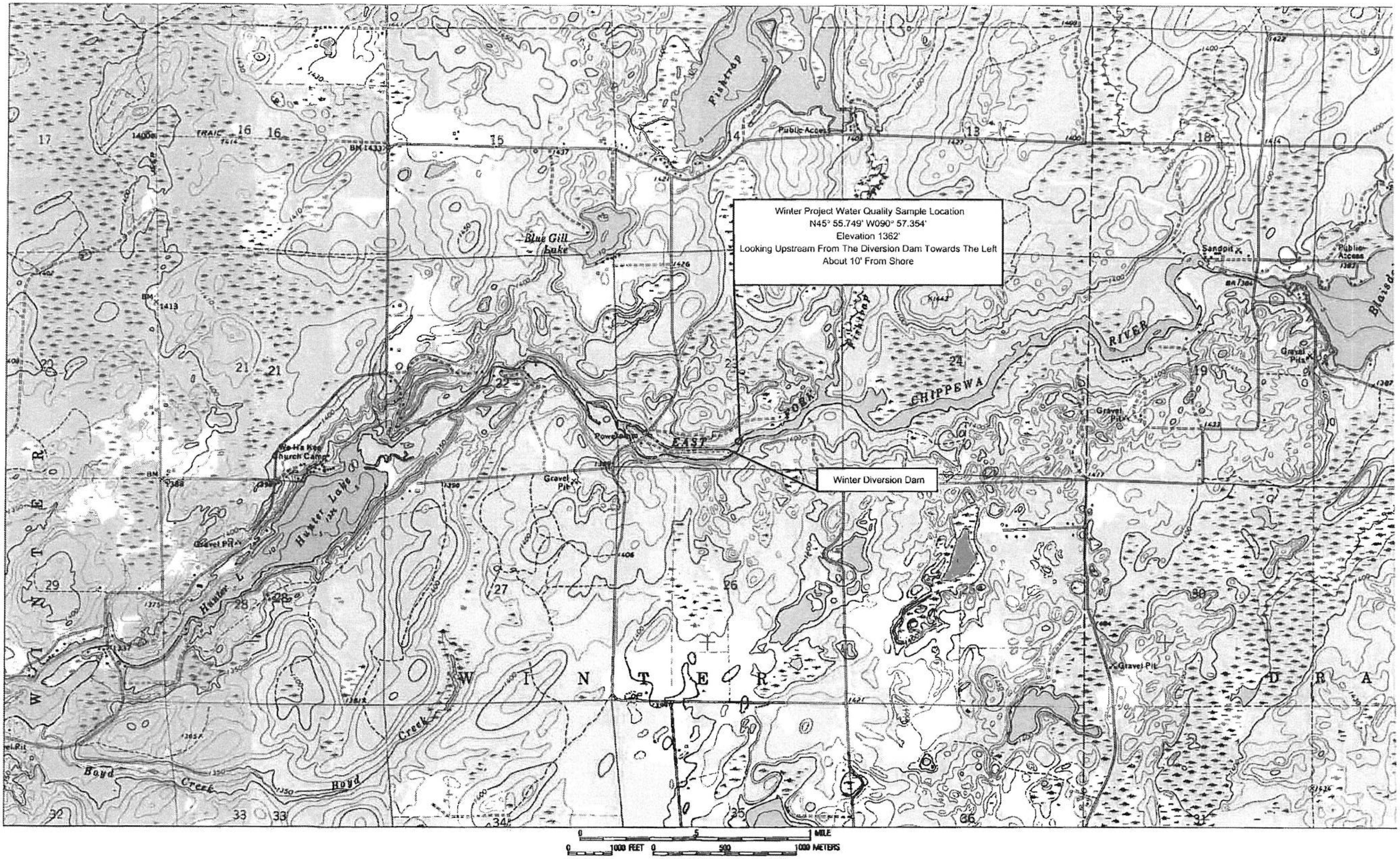
2011 Thru Current Year

Year	Month	Secchi Depth (m)	Chlorophyll a ug/l	Color (True) C.P.U. Units	Total Phosphorus Below Surface mg/l	Low D.O. mg/l	High D.O. mg/l	Low Water Temp. °C	High Water Temp. °C
2011	April	1.00	0.00	150.00	0.028	11.85	12.10	8.10	8.60
2012	April	0.50	2.30	250.00	0.048	10.55	10.73	9.90	10.60
2013	May	1.20	1.90	250.00	0.036	9.34	9.61	6.90	7.80
2014	June	1.50	2.30	300.00	0.055	6.98	7.07	19.90	20.10
Minimum	April/June	0.50	0.00	150.00	0.028	6.98	7.07	6.90	7.80
Maximum	April/June	1.50	2.30	300.00	0.055	11.85	12.10	19.90	20.10
Average	April/June	1.05	1.63	237.50	0.042	9.68	9.88	11.20	11.78
2011	July	0.80	4.30	250.00	0.055	5.84	6.44	26.10	27.70
2012	July	0.60	1.80	400.00	0.082	4.67	4.75	25.50	25.90
2013	July	0.80	1.90	400.00	0.064	5.05	5.21	25.20	26.10
2014	July	0.60	1.50	250.00	0.050	6.31	6.44	19.00	19.40
Minimum	July	0.60	1.50	250.00	0.050	4.67	4.75	19.00	19.40
Maximum	July	0.80	4.30	400.00	0.082	6.31	6.44	26.10	27.70
Average	July	0.70	2.38	325.00	0.063	5.47	5.71	23.95	24.78
2011	August	0.70	3.70	250.00	0.055	7.25	7.27	24.70	25.10
2012	August	1.10	3.00	200.00	0.047	7.27	7.55	23.40	25.10
2013	August	0.90	2.00	200.00	0.120	5.49	6.10	20.00	20.10
2014	August	0.90	1.80	150.00	0.040	6.54	6.68	23.70	23.80
Minimum	August	0.70	1.80	150.00	0.040	5.49	6.10	20.00	20.10
Maximum	August	1.10	3.70	250.00	0.120	7.27	7.55	24.70	25.10
Average	August	0.90	2.63	200.00	0.066	6.64	6.90	22.95	23.53

Winter Impoundment

Sampling Location

Map



Winter Project Water Quality Sample Location
N45° 55.749' W090° 57.354'
Elevation 1362'
Looking Upstream From The Diversion Dam Towards The Left
About 10' From Shore
Winter Diversion Dam
Fishtrap
Public Access
Blue Gill Lake
EAST FORK CHIPPEWA RIVER
Hunter Lake
Hunter L
Boyd Creek
WINTER
Gravel Pit
Sandpit
Church Camp
0 .5 1 MILE
0 1000 FEET
0 500 1000 METERS

Appendix A

June 5, 2014 Sampling Documents (Ice-Out)

IMPOUNDMENT SAMPLING LOG

2014 Water Quality Study - Winter Hydroelectric Project - FERC #2064

Date: 6/05/14

Pre-Sampling Data: HWL-1370.43 TWL-1346.45 CFS-556

Time: 9:00 Barometer: 29.9 Air Temp: 22 °C Wind Speed: SE 5 MPH

Sky Conditions: SUNNY, TEMPS IN 70's

Precipitation within Last 24 Hours: LIGHT MIST / TRACE

D.O. Meter Calibration: Instrument Model Used: Hach HQ40d

Were The Batterys Changed? □ Yes ☒ No If Yes, When Changed: _____

Battery Status: 75% Charge

Calibration Time: FEB. 2014 Method: Factory

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 3.0 Meter

Secchi Disk Depth: (E0.1 Meter) 1.5 Meter Time: 9:20

Chlorophyll a (1 Meter Below Surface)

Lab Sample I.D.# : 06052014A

Time	Quantity (ml)	Filtered
9:22	1000	ND

True Color (1 Meter Below Surface)

Lab Sample I.D.# : 06052014B

Time	Quantity (ml)
9:23	250

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
.5 Mtr Below Surface	9:36	7.07	19.9
1 Meter	9:39	7.04	19.9
2 Meter	9:41	7.00	20.1
3 Meter			
4 Meter			
5 Meter			
6 Meter			
7 Meter			
8 Meter			
.5 Mtr Above Bottom	9:42	6.98	20.1

Phosphorus

Lab Sample I.D.# : 06052014C

(1 Meter Below Surface)

Time	Preserved?
9:24	H2SO4

~~Lab Sample I.D.# : 06052014D~~

~~(1 Meter Above Bottom)~~

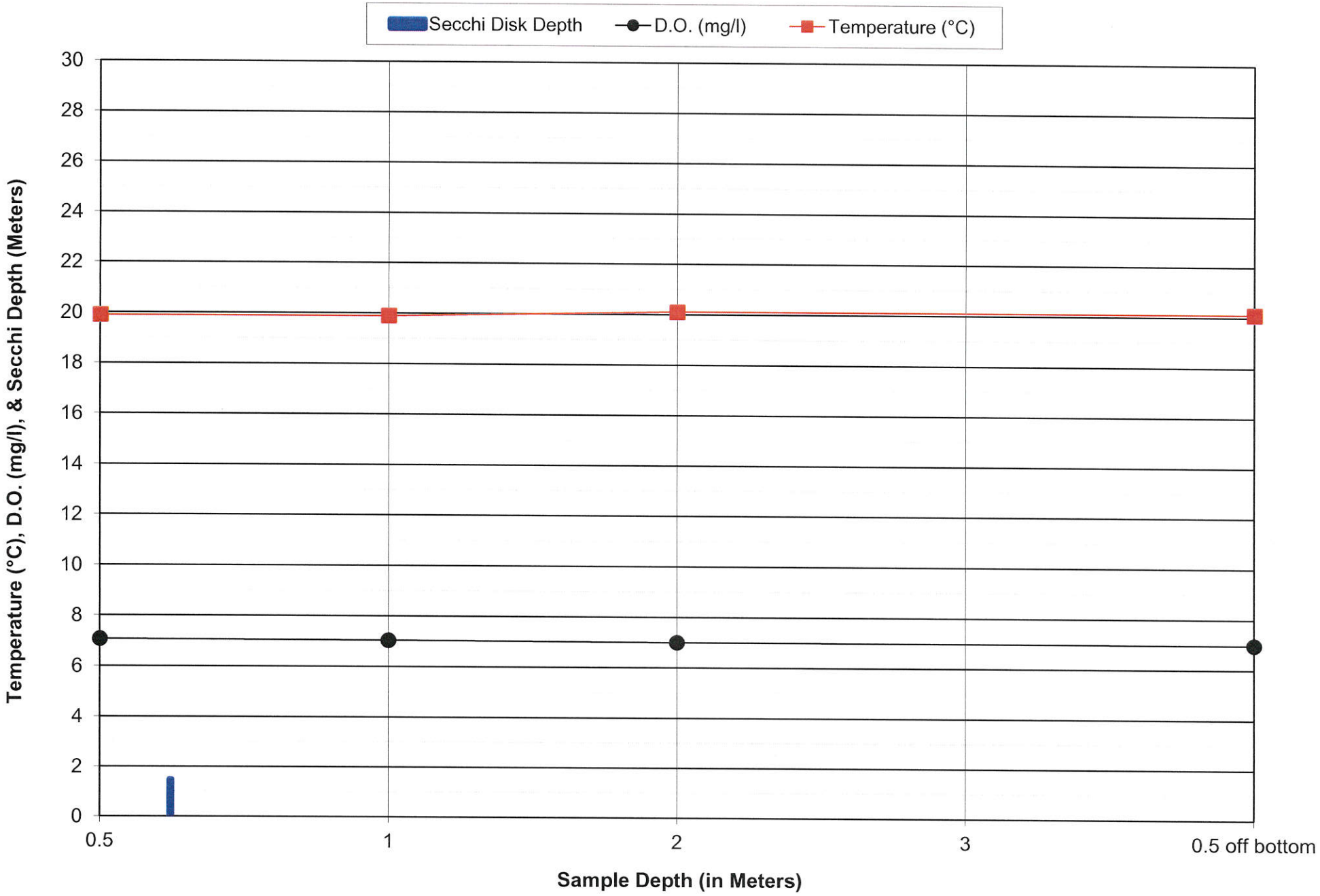
~~Time~~	~~Preserved?~~
~~9:30~~	~~H2SO4~~

Sample Location: N45° 55.749' W90° 57.354'

Comments: _____

Performed By: ANETA RIETVELD

Winter Impoundment - FERC # 2064
June 5, 2014 Iceout Sampling Event



NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 220333
NLS Customer: 102823
Phone: 855 994 9376

Client: Renewable World Energies
Attn: Gary Rast
100 State Street
P.O. Box 264
Neshkoro, WI 54960

Project: Winter Hydro

062014 A NLS ID: 794856
COC: 174087:1 Matrix: SW
Collected: 06/05/14 09:22 Received: 06/06/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Chlorophyll, all species	see attached					06/17/14	10200-H	721026460
Lab filtration for Chlorophyll	yes					06/09/14	NA	721026460

062014 B NLS ID: 794857
COC: 174087:2 Matrix: SW
Collected: 06/05/14 09:23 Received: 06/06/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.055	mg/L	1	0.0070*		06/12/14	SM 4500P-E 20ed	721026460

062014 C NLS ID: 794858
COC: 174087:3 Matrix: SW
Collected: 06/05/14 09:30 Received: 06/06/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.050	mg/L	1	0.0070*		06/12/14	SM 4500P-E 20ed	721026460

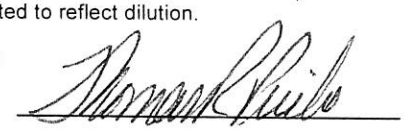
062014 D NLS ID: 794859
COC: 174087:4 Matrix: SW
Collected: 06/05/14 09:23 Received: 06/06/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Color, APHA (true)	300	C.P.U.	5	25*		06/06/14	SM 2120-B 20ed	721026460
Lab filtration	yes					06/06/14	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
R. T. Krueger
President

Northern Lake Service, Inc.
Chlorophyll Results

Customer: Renewable World Energies
Project: 220333
Winter Hydro

Sample	Description	CC a	Pheo a	TC a	TC b	TC c
794856	062014 A	1.5	1.3	2.3	0.12	0.22

CC a = Corrected Chlorophyll a
Pheo a = Pheophytin a
TC a = Trichromatic Chlorophyll a
TC b = Trichromatic Chlorophyll b
TC c = Trichromatic Chlorophyll c
Units = ug/L for Water, ug/cm^2 for periphyton samplers

*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin Lab Cert. No. 721026460

WI DATCP 105-000330

NO. 174037

CLIENT	RWE Hydro
ADDRESS	100 State St.
CITY / STATE / ZIP	Neshkoro / WI / 54960
PROJECT DESCRIPTION / NO.	Winter Hydro
QUOTATION NO.	
DNR FID #	
DNR LICENSE #	
CONTACT	Gary Rast
PHONE	920-570-0995
PURCHASE ORDER NO.	
FAX	

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS

ITEM NO.	NLS LAB ID	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX (See above)	N/A	Chlorophyll	Phosphorus	phosphorus	Color								COLLECTION REMARKS (i.e. DNR Well ID #)
1.	794856	06 2014 A	6-5-14	9:22	SW River		X											
2.	857	06 2014 B	6-5-14	9:23	River			X										
3.	858	06 2014 C	6-5-14	9:30	River				X									
4.	859	06 2014 D	6-5-14	9:23	River					X								
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

COLLECTED BY (signature)	CUSTODY SEAL NO. (IF ANY)	DATE/TIME 06-05-14 1:30pm
RELINQUISHED BY (signature)	RECEIVED BY (signature)	DATE/TIME
DISPATCHED BY (signature)	METHOD OF TRANSPORT	DATE/TIME

RECEIVED AT NLS BY (signature) Debbie Wilson	DATE/TIME 6-6-14 10:15	CONDITION on ice	TEMP.
COOLER #	REMARKS & OTHER INFORMATION		
	WDNR FACILITY NUMBER	E-MAIL ADDRESS	

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

REPORT TO	INVOICE TO
GARY Rast - RWE 100 State Street Neshkoro, WI 54960	RWE Hydro 1001 Stephenson St Norway, MI 49870

IMPORTANT

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

ORIGINAL COPY

Appendix B

July 15, 2014 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2014 Water Quality Study - Winter Hydroelectric Project - FERC #2064

Date: 7/15/14

Pre-Sampling Data: HWL - 1370.41 TWL - 1345.58 CFS - 225

Time: 9:00 Barometer: 30.04 Air Temp: 13.33 °C Wind Speed: N 9MPH

Sky Conditions: OVERCAST, CLOUDY

Precipitation within Last 24 Hours: YES

D.O. Meter Calibration: Instrument Model Used: Hach HQ40d

Were The Batterys Changed? ☐ Yes ☒ No If Yes, When Changed: _____

Battery Status: 70% Charge

Calibration Time: FEB. 2014 Method: Factory

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 3.2 Meter

Secchi Disk Depth: (E0.1 Meter) .60 Meter Time: 9:10

Chlorophyll a (1 Meter Below Surface)

Lab Sample I.D.# : 07152014-1A

Time	Quantity (ml)	Filtered
9:15	1000	NO

True Color (1 Meter Below Surface)

Lab Sample I.D.# : 07152014-1B

Time	Quantity (ml)
9:17	250

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
.5 Mtr Below Surface	9:25	6.44	19.0
1 Meter	9:26	6.40	19.1
2 Meter	9:27	6.35	19.3
3 Meter			
4 Meter			
5 Meter			
6 Meter			
7 Meter			
8 Meter			
.5 Mtr Above Bottom	9:28	6.31	19.4

Phosphorus

Lab Sample I.D.# : 07152014-1C

(1 Meter Below Surface)

Time	Preserved?
9:20	H_2SO_4

Lab Sample I.D.# :

(1 Meter Above Bottom)

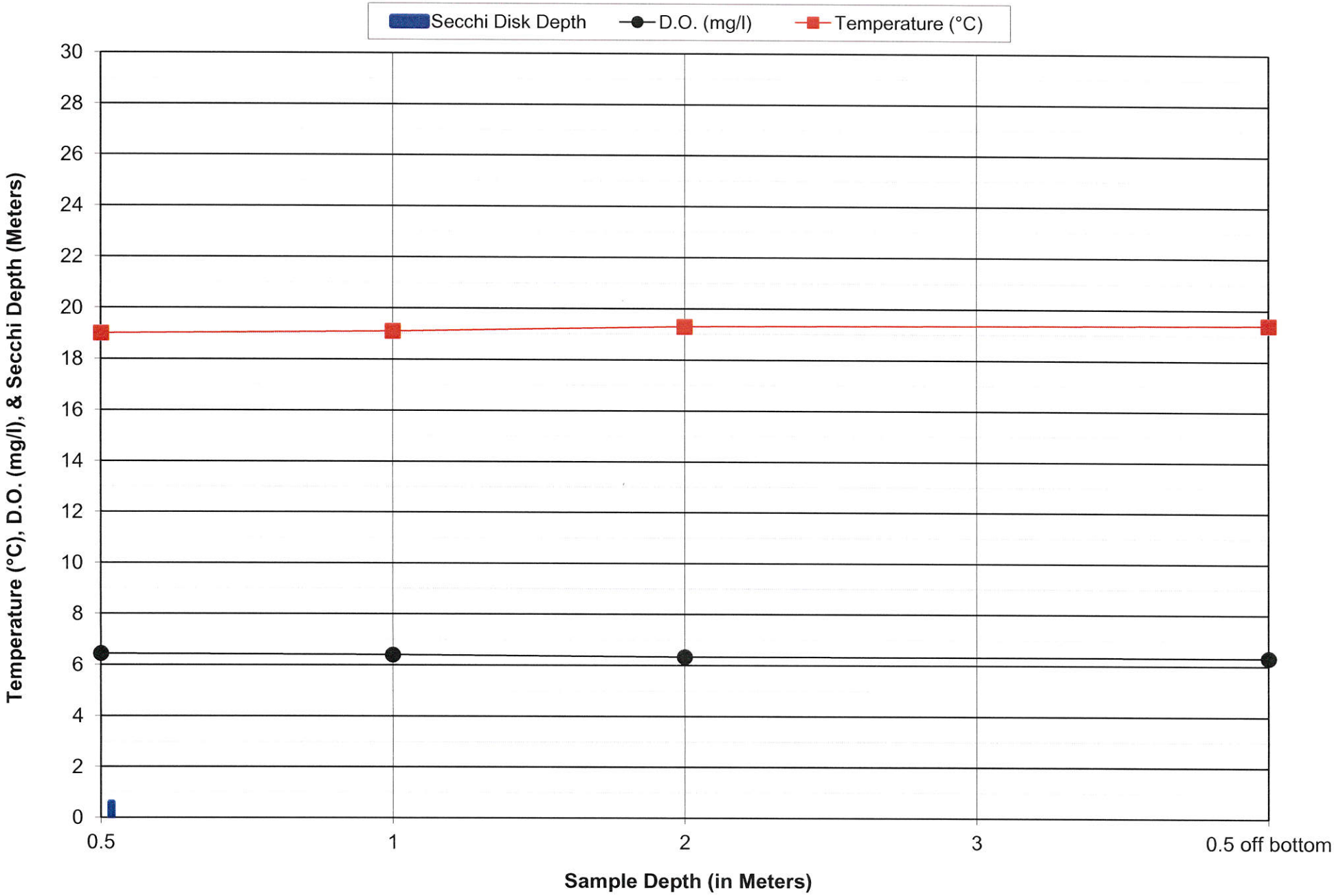
Time	Preserved?

Sample Location: N45° 55.749' W90° 57.354'

Comments:

Performed By: Gary Rast

Winter Impoundment - FERC # 2064
July 15, 2014 Sampling Event



NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

NLS Project: 222855
NLS Customer: 102823
Phone: 855 994 9376

Client: Renewable World Energies
Attn: Gary Rast
100 State Street
P.O. Box 264
Neshkoro, WI 54960

Project: Winter

07152014 1A NLS ID: 802935
COC: 155001:1 Matrix: SW
Collected: 07/15/14 09:15 Received: 07/16/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Chlorophyll, all species	see attached					07/21/14	10200-H	721026460
Lab filtration for Chlorophyll	yes					07/16/14	NA	721026460

07152014 1B NLS ID: 802936
COC: 155001:2 Matrix: SW
Collected: 07/15/14 09:17 Received: 07/16/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.050	mg/L	1	0.0070*		07/17/14	SM 4500P-E 20ed	721026460

07152014 1C NLS ID: 802937
COC: 155001:3 Matrix: SW
Collected: 07/15/14 09:20 Received: 07/16/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Color, APHA (true)	250	C.P.U.	5	25*		07/16/14	SM 2120-B 20ed	721026460
Lab filtration	yes					07/16/14	NA	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:

Authorized by:
R. T. Krueger
President

Northern Lake Service, Inc.
Chlorophyll Results

Customer: Renewable World Energies
Project: 222855
Winter

Sample	Description	CC a	Pheo a	TC a	TC b	TC c
802935	07152014 1A	1.1	0.62	1.5	0.029	0.46

CC a = Corrected Chlorophyll a
Pheo a = Pheophytin a
TC a = Trichromatic Chlorophyll a
TC b = Trichromatic Chlorophyll b
TC c = Trichromatic Chlorophyll c
Units = ug/L for Water, ug/cm_2 for periphyton samplers

*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin Lab Cert. No. 721026460

WI DATCP 105-000330

NO. 155001

CLIENT: RENEWABLE WORLD ENERGIES

ADDRESS: 100 S. STATE STREET POBOX 264

CITY: NESHKORO STATE: WI ZIP: 54960

PROJECT DESCRIPTION / NO.: WINTER QUOTATION NO.:

DNR FID #: DNR LICENSE #:

CONTACT: GARY RAST PHONE: 855-994-9376

PURCHASE ORDER NO.: VERBAL FAX: 920-293-4100

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ITEM NO.	NLS LAB NO.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS: CHLOROPHYLL	PHOS	TRUE COLOR	COLLECTION REMARKS (i.e. DNR Well ID #)
1.	802935	07152014 1A	7/15/14	9:15	RIVER WATER	X			
2.	936	" 1B	"	9:17	"		X		
3.	937	" 1C	"	9:20	"			X	
4.									
5.									
6.									
7.									
8.									
9.									
10.									

ONE SAMPLE PER LINE

COLLECTED BY (signature): Gary Rast CUSTODY SEAL NO. (IF ANY): DATE/TIME: 7/15/14 9:15-9:20

RELINQUISHED BY (signature): RECEIVED BY (signature): DATE/TIME:

DISPATCHED BY (signature): Gary Rast METHOD OF TRANSPORT: UPS DATE/TIME: 7/15/14 3:00PM

RECEIVED AT NLS BY (signature): Marnie Prose DATE/TIME: 7-16-14 9:45 CONDITION: ONICE TEMP.:

COOLER #: REMARKS & OTHER INFORMATION:

WDNR FACILITY NUMBER: E-MAIL ADDRESS:

REPORT TO: SAME AS ABOVE ATTN: GARY

INVOICE TO: RWE OPERATIONS 1001 STEPHENSON STREET NORWAY, MI 49870

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

IMPORTANT

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM **MUST** BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, **NOT** PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS **REPORT TO** AND LISTED AS **INVOICE TO** AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

Appendix C

August 11, 2014 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2014 Water Quality Study - Winter Hydroelectric Project - FERC #2064

HWL - 1370.28
TWL - 1344.65

Pre-Sampling Data:

Date: 8/11/14

PROJECT FLOW - 60 CFS

Time: 1:15 Barometer: 30.02 Air Temp: 18.88 °C Wind Speed: N 8 MPH

Sky Conditions: CLOUDY WITH PERIODS OF SUNSHINE

Precipitation within Last 24 Hours: YES

D.O. Meter Calibration: Instrument Model Used: Hach HQ40d

Were The Batterys Changed? ☐ Yes ☒ No If Yes, When Changed: _____

Battery Status: 60% Charge

Calibration Time: FEB. 2014 Method: Factory

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 3.2 Meter

Secchi Disk Depth: (±0.1 Meter) .9 Meter Time: 1:20

Chlorophyll a (1 Meter Below Surface)

Lab Sample I.D.# : 20140811-1A

Time	Quantity (ml)	Filtered
1:25	1000	NO

True Color (1 Meter Below Surface)

Lab Sample I.D.# : 20140811-1B

Time	Quantity (ml)
1:26	250

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
.5 Mtr Below Surface	1:30	6.68	23.7
1 Meter	1:32	6.65	23.7
2 Meter	1:34	6.61	23.7
3 Meter			
4 Meter			
5 Meter			
6 Meter			
7 Meter			
8 Meter			
.5 Mtr Above Bottom	1:35	6.54	23.8

Phosphorus

Lab Sample I.D.# : 20140811-1C

(1 Meter Below Surface)

Time	Preserved?
1:27	H_2SO_4

Lab Sample I.D.# :

(1 Meter Above Bottom)

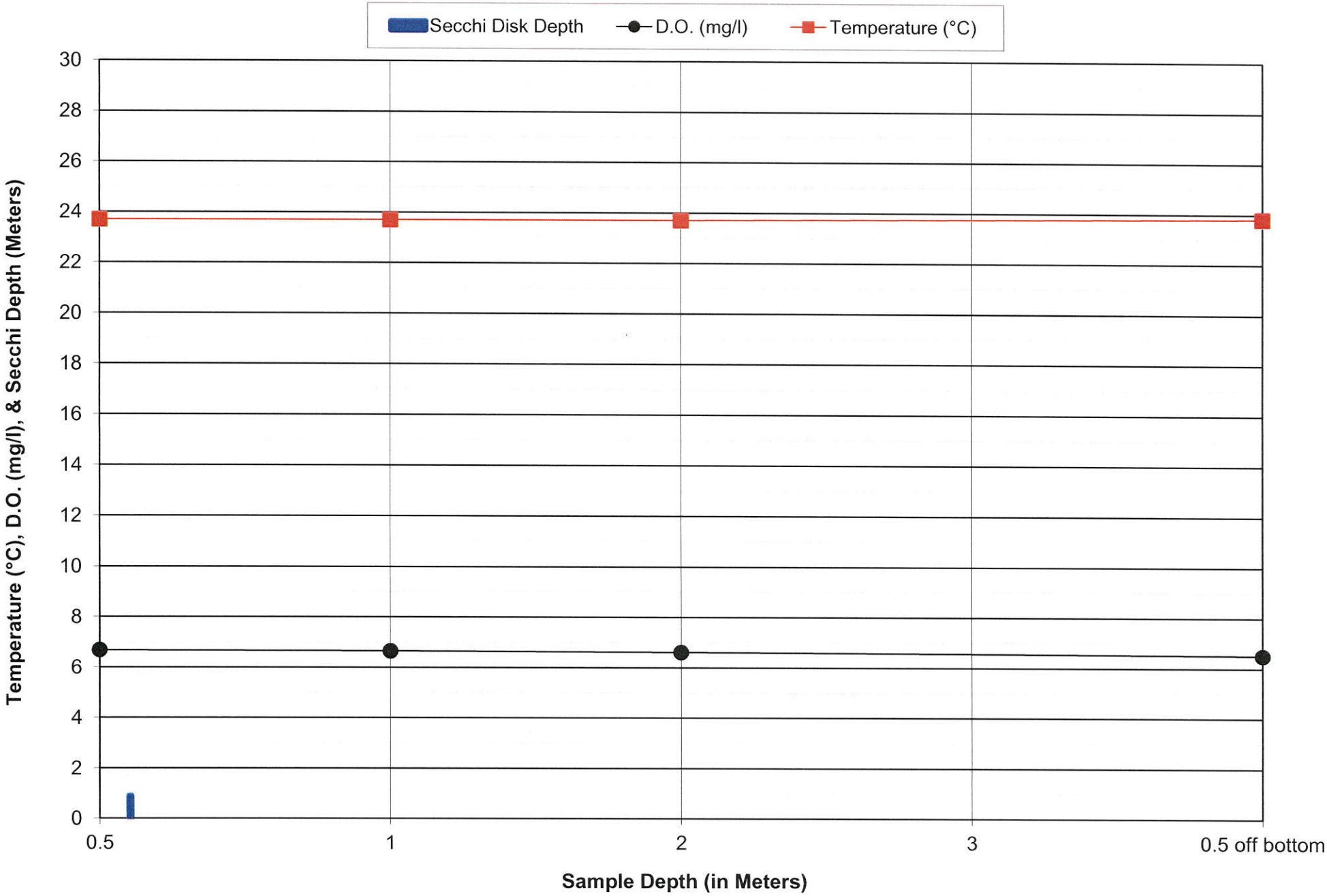
Time	Preserved?

Sample Location: N45° 55.749' W90° 57.354'

Comments:

Performed By: GARY RAST + JIM TESCH

Winter Impoundment - FERC # 2064
August 11, 2014 Sampling Event



NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034

Client: Renewable World Energies
Attn: Gary Rast
100 State Street
P.O. Box 264
Neshkoro, WI 54960

NLS Project: 224724
NLS Customer: 102823
Phone: 855 994 9376

Project: Winter

20140811-1A NLS ID: 809389
COC: 160941:1 Matrix: SW
Collected: 08/11/14 13:25 Received: 08/12/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Chlorophyll, all species	see attached					08/14/14	10200-H	721026460
Lab filtration for Chlorophyll	yes					08/12/14	NA	721026460

20140811-1B NLS ID: 809390
COC: 160941:2 Matrix: SW
Collected: 08/11/14 13:26 Received: 08/12/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Color, APHA (true)	150	C.P.U.	5	25*		08/12/14	SM 2120-B 20ed	721026460
Lab filtration	yes					08/12/14	NA	721026460

20140811-1C NLS ID: 809391
COC: 160941:3 Matrix: SW
Collected: 08/11/14 13:27 Received: 08/12/14

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.040	mg/L	1	0.0070*		08/14/14	SM 4500P-E 20ed	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection LOQ = Limit of Quantitation ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L
DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:

Authorized by:
R. T. Krueger
President

Northern Lake Service, Inc.
Chlorophyll Results

Customer: Renewable World Energies
Project: 224724
Winter

Sample	Description	CC a	Pheo a	TC a	TC b	TC c
809389	20140811-1A	1.5	0.49	1.8	0.1	0.088

CC a = Corrected Chlorophyll a
Pheo a = Pheophytin a
TC a = Trichromatic Chlorophyll a
TC b = Trichromatic Chlorophyll b
TC c = Trichromatic Chlorophyll c
Units = ug/L for Water, ug/cm^2 for periphyton samplers

*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298

Tel: (715) 478-2777 • Fax: (715) 478-3060

Wisconsin Lab Cert. No. 721026460

WI DATCP 105-000330

NO. 160941

CLIENT: RENEWABLE WORLD ENERGIES LLC

ADDRESS: PO BOX 264 / 1005. STATE STREET

CITY: NESHKORO STATE: WI ZIP: 54960

PROJECT DESCRIPTION / NO.: WINTER QUOTATION NO.:

DNR FID #: DNR LICENSE #:

CONTACT: GARY PHONE: 855-994-9376

PURCHASE ORDER NO.: VERBAL FAX: 920-293-4100

MATRIX:
SW = surface water
WW = waste water
GW = groundwater
DW = drinking water
TIS = tissue
AIR = air
SOIL = soil
SED = sediment
PROD = product
SL = sludge
OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.
Indicate G or C if WW Sample is Grab or Composite.

ITEM NO.	NLS LAB No.	SAMPLE ID	COLLECTION DATE	COLLECTION TIME	MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS: CHLOROPHYLL	TRUE COLOR	PHOS	COLLECTION REMARKS (i.e. DNR Well ID #)
1.	869389	20140811-1A	8/11/14	1:25	RIVER WATER	X			
2.	390	20140811-1B	8/11/14	1:26	"		X		
3.	391	20140811-1C	8/11/14	1:27	"			X	
4.									
5.									
6.									
7.									
8.									
9.									
10.									

NO TEMP BLANK WAS SENT OR ENCLOSED

COLLECTED BY (signature): [signature] CUSTODY SEAL NO. (IF ANY): DATE/TIME: 8/11/14 1:25 - 1:27

RELINQUISHED BY (signature): [signature] RECEIVED BY (signature): DATE/TIME:

DISPATCHED BY (signature): [signature] METHOD OF TRANSPORT: UPS DATE/TIME: 8/11/14 3:00

RECEIVED AT NLS BY (signature): [signature] DATE/TIME: 8/12/14 9:45 CONDITION: TEMP.

COOLER #: REMARKS & OTHER INFORMATION:

WDNR FACILITY NUMBER: E-MAIL ADDRESS:

REPORT TO: SAME AS ABOVE ATTN: GARY

INVOICE TO: RENEWABLE WORLD OPERATIONS 1001 STEPHENSON STREET NORWAY, MI 49870

PRESERVATIVE:
NP = no preservative
S = sulfuric acid
N = nitric acid
Z = zinc acetate
M = methanol
OH = sodium hydroxide
HA = hydrochloric & ascorbic acid
H = hydrochloric acid

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Appendix D

Agency Correspondence

Renewable World Energies

October 3, 2014

Mr. Nick Utrup
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
2661 Scott Tower Drive
New Franken, WI 54229

Ms. Cheryl Laatsch
Statewide FERC Coordinator
Wisconsin Dept. of Natural Resources
N7725 HWY 28
Horicon, WI 53032

Mr. Paul Strong, Forest Supervisor
USDA Forest Service Chequamegon, Nicolet NF
Forest Headquarters Offices
500 Hanson Lake R
Rhinelander, WI 54501

Re: **Winter Hydroelectric Project**
FERC Project Number P-2064
Flambeau Hydro LLC
Draft Report 2014 Water Quality Monitoring Data

Dear Agency:

Purpose

On behalf of Flambeau Hydro LLC "Flambeau" (Licensee), Renewable World Energies, LLC is submitting a copy of the *Draft Report 2014 Water Quality Monitoring Data* for the Winter Hydroelectric Project for review and comment. Nothing out of the ordinary was experienced during the 2014 monitoring season except as noted in the report.

Background

The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on August 12, 2005. Portions of the original Certification were contested by the Licensee. The Wisconsin Department of Natural Resources (WDNR) submitted a revised Water Quality Certification, Dated at Park Falls, WI: August 19, 2008 that replaced the original certification of June 21, 2005. Only conditions E, F, and J were modified and a footnote was added to condition D according to the Final Settlement Agreement. The submitted report is a requirement of the License pursuant to Article 401 Condition N, Appendix A. 2014 marked the eighth year of water quality sampling under the FERC License issued August 12, 2005.

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

Renewable World Energies

Conclusion

The Federal Energy Regulatory Commission's regulations allow for a 30 day formal review and comment period. Thank you in advance for providing your responses in a timely manner so we can include your comments and recommendations, as appropriate, into our report. If you have any questions concerning the report, please contact Mr. Gary Rast at the Renewable World Energies, LLC offices @ 855-994-9376 ext. 105, or by email at; grast@rwehydro.com.

Sincerely,
Renewable World Energies, LLC
Agent for Licensee

Gary Rast

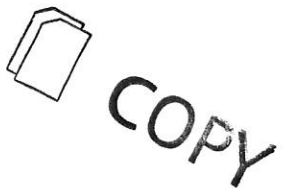
Mr. Jason Kreuscher
Vice President, Operations

Attachment: Draft Report 2014 Water Quality Monitoring Data – October 3, 2014

Cc: RWE, Corporate
Mr. Dale Higgins, FS
Ms. Sue Reinecke, FS

Gary Rast

From: Gary Rast
Sent: Tuesday, May 27, 2014 8:58 AM
To: 'Laatsch, Cheryl - DNR'; Utrup, Nick
Subject: RE: water quality data collection



Everyone,

Just sending an update on water sample collections (Ice-Out) at Winter and Flambeau projects. Nothing collected to this point. Flows have come down quite a bit in the last two weeks. However, the boat barriers are not in at Winter, Flambeau Upper or Flambeau Lower. Two of the three sites have access just slightly above the dams and sample points near the dams at most a couple hundred feet (Winter & Flambeau Lower). I will not attempt any sampling unless they are installed. A side note is that the 4 Flambeau projects must be done in sequence and on the same day. Sampling is on hold until at least the week of June 2nd or June 9th if you still want it done. I need to schedule Turtle/Eagle/Erosion and KBB surveys from now on as well.

Gary

Gary Rast
Regulatory/Compliance Manager

Renewable World Energies

Renewable World Energies, LLC
100 S. State Street
P.O. Box 264
Neshkoro, WI 54960
Phone: 855-994-9376 Ext. 105
Fax: 920-293-4100
Cell: 920-570-0995
E-mail: grast@rwehydro.com

From: Laatsch, Cheryl - DNR [mailto:Cheryl.Laatsch@wisconsin.gov]
Sent: Tuesday, May 13, 2014 11:38 AM
To: Gary Rast
Subject: FW: water quality data collection

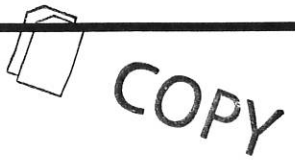
I have asked for clarification from Craig. Here is his response.

Thanks, Cheryl

From: Roesler, Craig P - DNR
Sent: Tuesday, May 13, 2014 11:12 AM
To: Laatsch, Cheryl - DNR; Hansen, James P - DNR
Cc: Aartila, Tom P - DNR
Subject: RE: water quality data collection

I would have them collect the samples as soon as conditions become safe. If it isn't possible in May, try for early June.

Gary Rast



From: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>
Sent: Tuesday, May 13, 2014 11:38 AM
To: Gary Rast
Subject: FW: water quality data collection

I have asked for clarification from Craig. Here is his response.

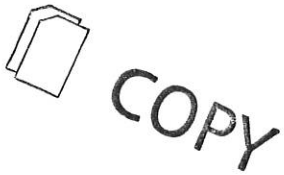
Thanks, Cheryl

From: Roesler, Craig P - DNR
Sent: Tuesday, May 13, 2014 11:12 AM
To: Laatsch, Cheryl - DNR; Hansen, James P - DNR
Cc: Aartila, Tom P - DNR
Subject: RE: water quality data collection

I would have them collect the samples as soon as conditions become safe. If it isn't possible in May, try for early June.

Gary Rast

From: Gary Rast
Sent: Tuesday, May 13, 2014 9:52 AM
To: 'Laatsch, Cheryl - DNR'
Cc: 'Jason Kreuscher'; Cindy Skowronski; Aneta Rietveld
Subject: RE: water quality data collection



Cheryl,

Thanks for the response. However, last year a similar situation occurred at the Flambeau projects and we abandoned the sampling with agency consult. Why the inconsistency from year to year? Below is exact content of an e-mail sent to the agencies on May 22, 2013 addressing same type of issue and agencies agreed. Just asking where is the difference. **FYI – As of this morning ,the flows at the Winter project are now 3,000 CFS as opposed to 2,000 CFS last week and the flows at the (4) Flambeau projects are at 6,500 CFS as opposed to 3,500 - 4,000 CFS last week.** We can try to check back together but next week is the last full week of May because Memorial Day is the following Monday. Gary

Everyone,

About 1to 1.5 weeks ago I notified you that because of water conditions and no boat barriers being installed at the Flambeau projects the Ice-Out WQ monitoring would or could not be performed during the 2 week time period following Ice-Out. On Monday 5/20 I was notified that the barriers were installed and river conditions were approaching more normal conditions. Because weather looked favorable for Thursday 5/23 I made plans for that day. I was not aware that the area had received so much rain in the past couple of days and that runoff from surrounding areas were contributing so much. River conditions today 5/22 are horrible to say the least, about 1000 CFS more than when you were originally notified. I believe they are slightly one side or the other of 4000 CFS. I have been informed that another 500 CFS is to be released from the flowage later today, so conditions will worsen. I spoke to Jeff less than an hour ago and discussed doing some sort of modified monitoring while I am here. We agreed that was not a good thing because comparison to other years Ice-Out results would be very hard to make and the effort would not be worth much. Jeff and I agreed to skip the Ice-Out sampling all together because the effort would not yield good results and the safety concerns involving the monitoring. RWE asks for your understanding and agreement. Thanks

Gary

Gary Rast
Regulatory/Compliance Manager

Renewable World Energies

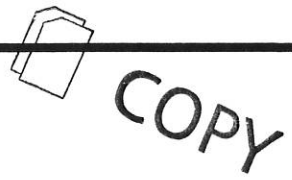
Renewable World Energies, LLC
100 S. State Street
P.O. Box 264
Neshkoro, WI 54960
Phone: 855-994-9376 Ext. 105
Fax: 920-293-4100
Cell: 920-570-0995
E-mail: grast@rwehydro.com

From: Laatsch, Cheryl - DNR [mailto:Cheryl.Laatsch@wisconsin.gov]
Sent: Tuesday, May 13, 2014 8:28 AM
To: Gary Rast
Subject: water quality data collection

Staff agree that the sampling should be postponed. They have requested that you try to collect samples before the end of May. Lets check back with each other at the end of May to see how things are going. Thanks

Cheryl Laatsch
Statewide FERC Coordinator
Wisconsin Dept of Natural Resources
N7725 Hwy 28
Horicon WI 53032
(T) 920-387-7869 (Fax) 920-387-7888
Cheryl.laatsch@wisconsin.gov

Gary Rast

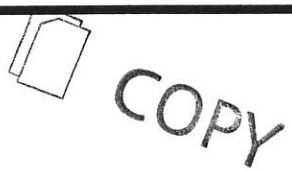


From: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>
Sent: Tuesday, May 13, 2014 8:28 AM
To: Gary Rast
Subject: water quality data collection

Staff agree that the sampling should be postponed. They have requested that you try to collect samples before the end of May. Lets check back with each other at the end of May to see how things are going. Thanks

Cheryl Laatsch
Statewide FERC Coordinator
Wisconsin Dept of Natural Resources
N7725 Hwy 28
Horicon WI 53032
(T) 920-387-7869 (Fax) 920-387-7888
Cheryl.laatsch@wisconsin.gov

Gary Rast



From: Reinecke, Sue -FS <sreinecke@fs.fed.us>
Sent: Thursday, May 08, 2014 12:00 PM
To: Gary Rast
Cc: Higgins, Dale -FS
Subject: RE: Winter Ice Out WQ

Hi Gary, FS concurs with your decision to not sample for safety reason due to high flows.

thanks
sue

****

Sue Reinecke,Forest Fisheries Biologist
Chequamegon-Nicolet NF
1170 4th Ave South
Park Falls, WI 54552
715-762-5185
sreinecke@fs.fed.us
****

From: Gary Rast [mailto:grast@rwehydro.com]
Sent: Thursday, May 08, 2014 10:42 AM
To: Laatsch, Cheryl - DNR; Utrup, Nick; Higgins, Dale -FS; Reinecke, Sue -FS
Cc: Jason Kreuscher; Cindy Skowronski; Aneta Rietveld; David Anderson
Subject: Winter Ice Out WQ

Everyone,

I traveled up to the Winter Hydro this week to perform the Ice Out WQ sampling. The photos were taken May 7, 2014. The 1st photo shows the discharge (2004) CFS and 2nd photo is looking upstream from the dam. As you can see it is wild and no buoys are installed yet because of dangerous conditions. Sample site is just upstream of the buoys and just to the right of the large evergreen on left side of photo. The power canal is not shown but is on left side of the photo. According to WQ plan, the sampling can be done within 3 weeks of Ice Out. This week was the 2nd week since Ice Out. We do not expect conditions to improve in the near future which would put the Ice Out sampling outside of the 3 week window. **The licensee proposes to abandon the Ice Out sampling for 2014 because of these conditions and asks for your agreement.** If you require sampling to be performed, we can do it outside the timeframe when conditions improve but not until then. As a side note sampling was accomplished at the Clam River and Danbury projects this week. Please respond as soon as possible.

Gary

Gary Rast
Regulatory/Compliance Manager

Renewable World Energies

Renewable World Energies, LLC

Gary Rast

COPY

From: Gary Rast
Sent: Thursday, May 08, 2014 10:42 AM
To: 'Laatsch, Cheryl - DNR'; Utrup, Nick; Higgins, Dale -FS (dhiggins@fs.fed.us); 'Reinecke, Sue -FS'
Cc: 'Jason Kreuscher'; Cindy Skowronski; Aneta Rietveld; David Anderson
Subject: Winter Ice Out WQ
Attachments: WNTR Discharge May 7 (1).JPG; WNTR Upstream May 7.JPG

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Gary

Gary Rast
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