



February 17, 2017

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 2016 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 2016 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. 2016 was the tenth year monitoring was conducted since the license was issued, but is the 5th year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on March 22, July 18, and August 16, 2016. No issues were encountered during the 2016 monitoring season. All data has been entered into the SWIMS Data Base. The draft report was sent to the agencies by letter dated November 16, 2016 for review and comment. No comments have been received as of the date of this letter. The next scheduled monitoring event will be conducted in 2017.

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

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Phone: 855-99HYDRO
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Sincerely,
Renewable World Energies, LLC
Agent for Licensee

A handwritten signature in black ink, appearing to read "Jason", is written over a horizontal line.

For

Mr. Jason Kreuzscher
Vice President, Operations

Attachment: Final Report 2016 Water Quality Monitoring Data

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

2016 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:

Angie Stine



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

Phone: 906-822-7889

Summary Winter Hydroelectric Project – FERC #2064

2016 marked the tenth year of water quality sampling under FERC License issued August 12, 2006 Per Article 401, Water Quality Certification Condition N, Appendix A for the Winter Hydroelectric Project – FERC Project # 2064 – Flambeau Hydro LLC. Monitoring was conducted on March 22, July 18, and August 16, 2016. This document contains all of the associated records for the 2016 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 Winter Hydroelectric Project is shown in Figure 1 indicating the water quality sampling location.

Monitoring results for 2016 are shown in Table 1. No unusual Temperature (Figure 2) or Dissolved Oxygen (Figure 3) readings were observed. The Secchi depths are shown in Figure 4.

In general, the weather (temperature and rainfall) during 2016 monitoring season appeared slightly warmer in May, June, and July, & August, with lower than normal precipitation in April and May, and normal to high precipitation in the months of June, July and August (Table 2). 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.

Ice-Out occurred on the East Fork of the Chippewa sometime during the week beginning March 14th, 2016. The Ice-Out sampling event occurred on March 22, 2016. River flow, based on the Winter Hydroelectric Project records, was approximately 2366 cubic feet per second. Sampling occurred between 1409 and 1425. 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 March 24, 2016. White Water Associates, Inc. issued a laboratory report on May 9, 2016. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Winter Hydroelectric Project records, was approximately 1847 cubic feet per second during the July 18, 2016 sampling event. Sampling occurred between 1345 and 1405. 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 July 21, 2016. White Water Associates, Inc. issued a laboratory report on August 10, 2016. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Winter Hydroelectric Project records, was approximately 220 cubic feet per second during the August 16, 2016 sampling event. Sampling occurred between 1306 and 1311. 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 August

18, 2016. White Water Associates, Inc. issued a laboratory report on September 6, 2016. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

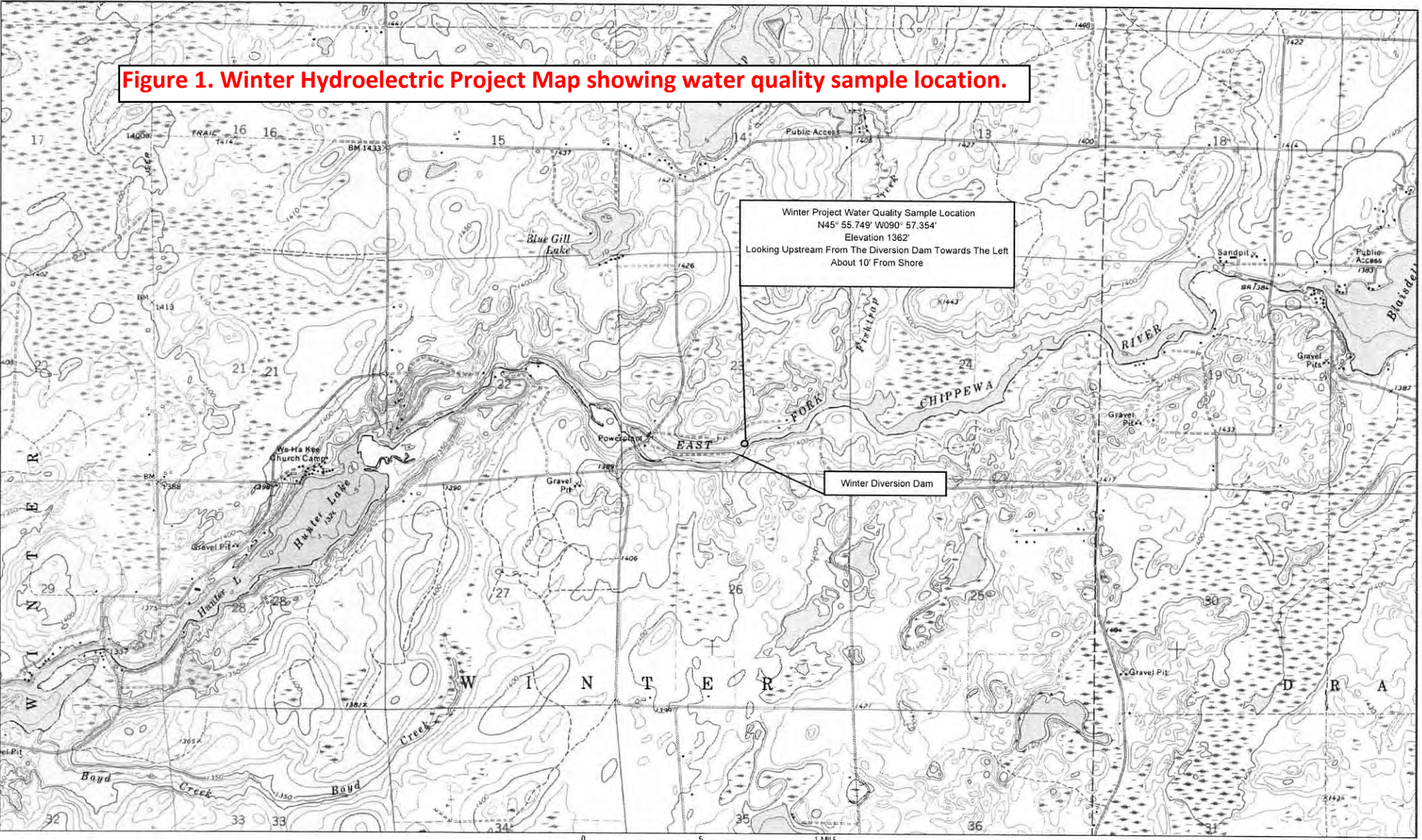
A summary of a comparison between the 2011 thru 2016 (Table 3) sampling results are as follows:

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

The next scheduled Water Quality Monitoring at the Winter Hydroelectric Project is set to take place in 2017 beginning with the Ice-Out sampling event.

Appendix A – Winter Hydroelectric Project Figures

Figure 1. Winter Hydroelectric Project Map showing water quality sample location.

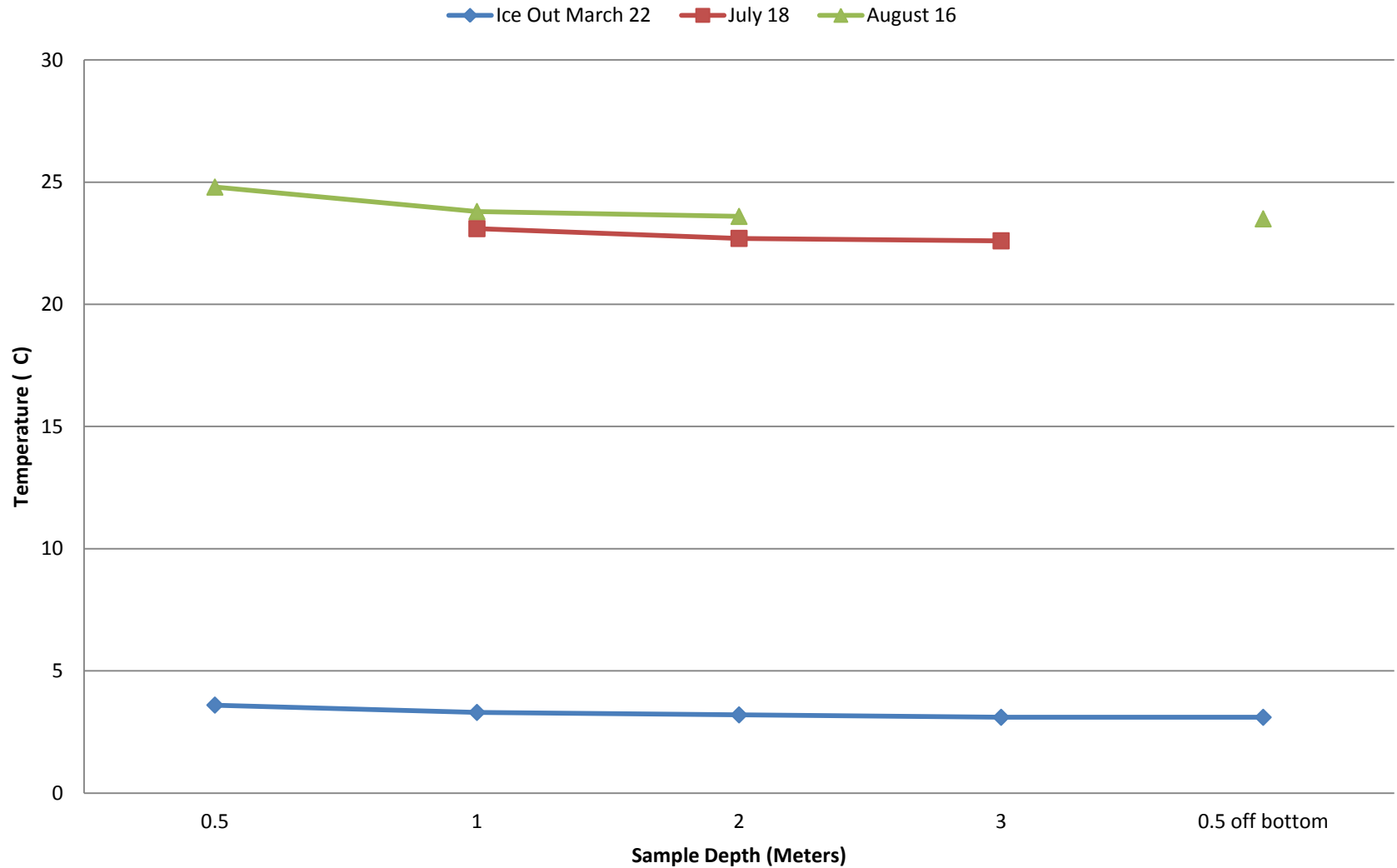


Winter Project Water Quality Sample Location
N45° 55.749' W090° 57.354'
Elevation 1362'
Looking Upstream From The Diversion Dam Towards The Left
About 10' From Shore

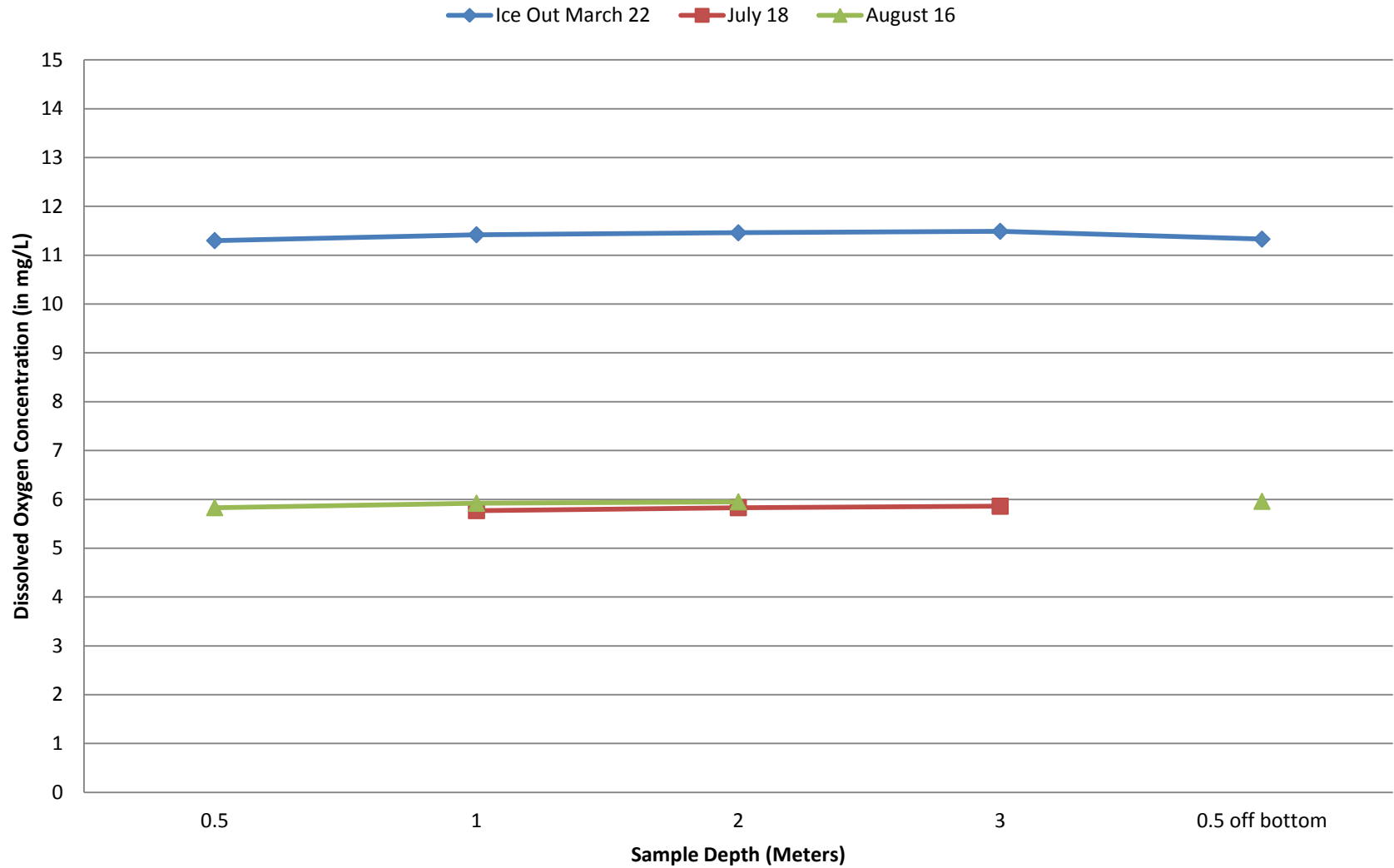
Winter Diversion Dam



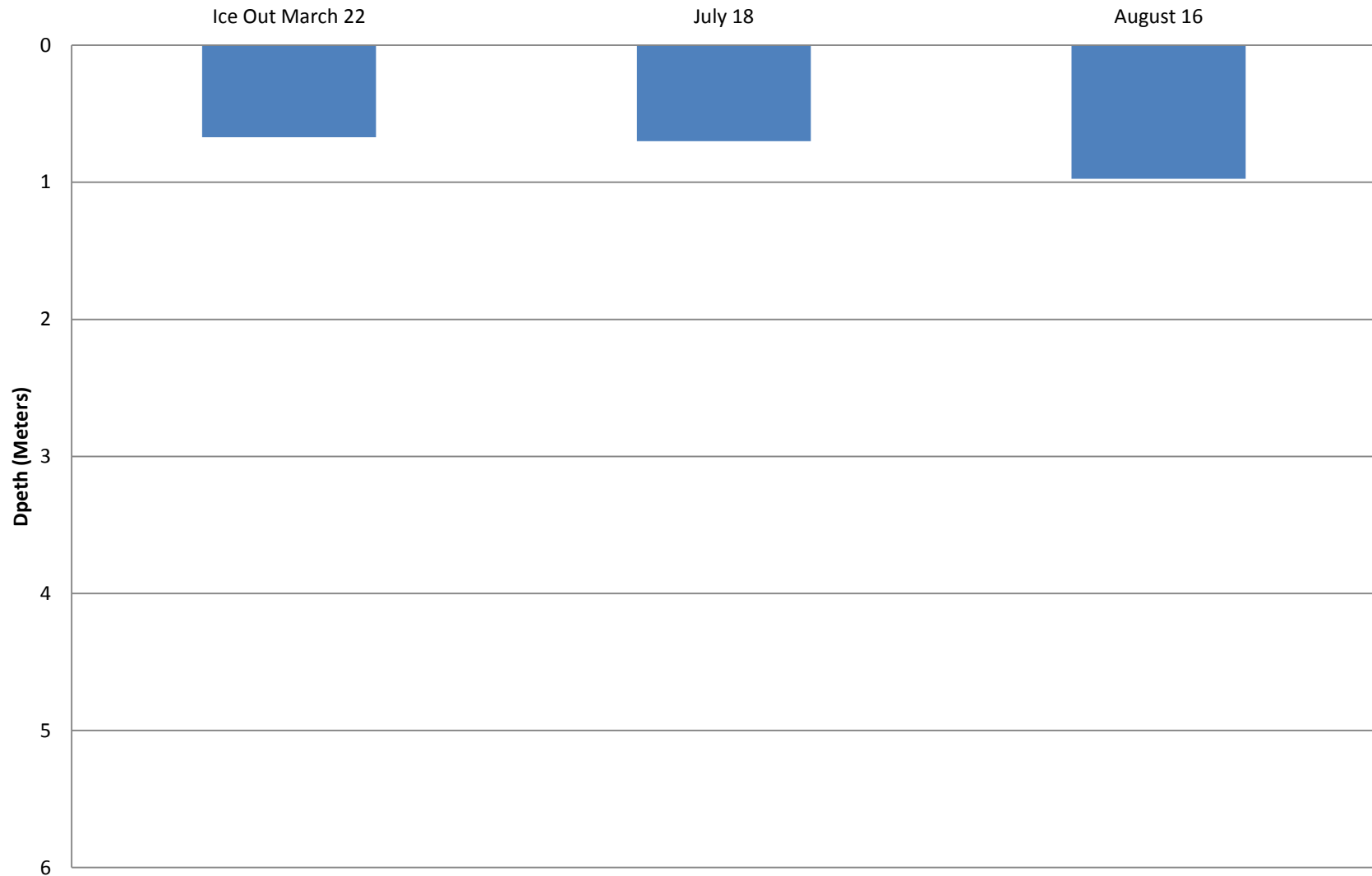
**Figure 2. Winter Impoundment - FERC #2064
2016 Temperature Samples**



**Figure 3. Winter Impoundment- FERC #2064
2016 Dissolved Oxygen Samples**



**Figure 4. Winter Impoundment FERC# 2064
Secchi Depths**



Appendix B – Winter Hydroelectric Project Tables

Table 1. Winter Hydroelectric Project – FERC Project # 2064: 2016 Water Quality Sampling Data

	Ice Out March 22, 2016			July 18, 2016			August 16, 2016		
Project Flow (c.f.s)	2366			1847			220		
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	14:15:51	11.30	3.6	N/A	N/A	N/A	13:07:39	5.83	24.8
1 meter below surface	14:16:32	11.42	3.3	13:56:15	5.77	23.1	13:08:52	5.92	23.8
2 meter below surface	14:17:18	11.46	3.2	13:57:12	5.83	22.7	13:10:19	5.95	23.6
3 meter below surface	14:17:54	11.49	3.1	13:58:35	5.86	22.6	N/A	N/A	N/A
0.5 meter above bottom	14:18:41	11.33	3.1	13:58:45	5.86	22.6	13:11:34	5.96	23.5
Secchi Disk	Time	Depth (m)		Time	Depth (m)		Time	Depth (m)	
Meters below surface	14:13	0.67		13:50	0.70		13:15	0.98	
Chlorophyll <i>a</i>	Time	µg/L		Time	µg/L		Time	µg/L	
1 meter below surface	14:21	0.41		14:00	2.20		13:06	1.50	
Color (True)	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD
1 meter below surface	14:21	40	5*	14:05	85	5*	13:09	60	5*
Total Phosphorus	Time	mg/L	LOD	Time	mg/L	LOD	Time	mg/L	LOD
1 meter below surface	14:25	0.02	0.01*	14:05	0.035	0.008*	13:09	0.038	0.008*
1 meter above bottom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Considered Method Detection Limit N/A = Not Applicable

Table 2. 2015/16 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 - 15	84	24	46.3	3.1	574	678	1.90	Trace	2.85	67
November - 15	64	10	36.7	7.9	844	1088	2.75	4.40	2.09	132
December - 15	43	2	26.4	11.6	1187	1556	3.70	24.60	1.21	306
January - 16	41	-21	12.8	2.6	1611	1699	1.05	13.00	0.96	109
February - 16	52	-17	17.3	2.2	1376	1399	0.83	12.20	0.81	102
March - 16	60	-2	31.6	5.7	1028	1210	3.96	17.30	1.49	266
April - 16	71	2	37.7	-1.9	809	762	2.40	9.80	2.43	99
May - 16	92	28	53.2	1.8	370	426	1.87	0.10	3.23	58
June - 16	89	37	61.5	1.4	142	179	4.46	0.00	4.23	105
July - 16	90	45	67.1	1.3	29	63	4.39	0.00	3.85	114
August - 16	85	50	67.5	3.2	25	86	4.96	0.00	3.70	134
September - 16	80	40	59.9	4.3	162	298	3.52	0.00	4.11	86

Source: NOAA/Duluth, MN

Table 3. Winter Project Sampling Comparison Table: 2011 Thru Current Year

Year	Month	Secchi Depth	Chlorophyll <i>a</i>	Color (True)	Total Phosphorus	Low D.O.	High D.O.	Low Water Temp.	High Water Temp.
		meters	µg/L	C.P.U. Units	Below Surface mg/L	mg/L	mg/L	° C	° 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
2015	April	0.80	3.70	180.00	0.036	9.57	9.72	10.00	11.60
2016	March	0.67	0.41	40.00	0.020	11.30	11.49	3.10	3.60
Minimum	March/April/June	0.50	0.00	40.00	0.020	6.98	7.07	3.10	3.60
Maximum	March/April/June	1.50	3.70	300.00	0.055	11.85	12.10	19.90	20.10
Average	March/April/June	0.95	1.77	195.00	0.037	9.93	10.12	9.65	10.38
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	250.0	0.050	6.31	6.44	19.00	19.40
2015	July	0.70	1.80	25.00	0.044	6.47	6.53	22.30	22.30
2016	July	0.70	2.20	85.00	0.035	5.77	5.86	22.60	23.10
Minimum	July	0.60	1.50	25.00	0.035	4.67	4.75	19.00	19.40
Maximum	July	0.80	4.30	400.00	0.082	6.47	6.53	26.10	27.70
Average	July	0.70	2.25	235.00	0.055	5.69	5.87	23.45	24.08
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
2015	August	0.70	3.30	300.00	0.051	5.95	6.10	22.80	23.20
2016	August	0.98	1.50	60.00	0.038	5.83	5.96	23.50	24.80
Minimum	August	0.70	1.50	60.00	0.038	5.49	5.96	20.00	20.10
Maximum	August	1.10	3.70	300.00	0.120	7.27	7.55	24.70	25.10
Average	August	0.88	2.55	193.33	0.059	6.39	6.61	23.02	23.68

Appendix C – Winter Impoundment Project Sampling Logs

IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Winter

Hydroelectric Project - FERC # 2064

Date: 3-22-16

Pre-Sampling Data:

HWL 1370.58 TWL 1047.45 CFS 2366

Sample Location: WSN WA SP
N 45.92909
W 090.95618

Performed by: A. Spive Plummer

Time: 2:09 Barometer: 29.7

Air Temp: 37°F °C Wind Speed: ENE 9 mph

Sky Conditions: 100% c/louds Sunny

Precipitation within Last 24 Hours: 0

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed? Yes No

If yes, when were they changed: _____

Battery Status: 80 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment

3 meters

Secchi Depth (± 0.1)		
Time	Secchi Depth	Feet
<u>2:13</u>	<u>2.2</u>	

14:13

Comments:

Chlorophyll α (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time	Quantity (ml)	Filtered
<u>14:21</u>	<u>1000</u>	<u>In Lab</u>
Preservative		<u>MgCO₃</u>

True Color (3 feet below surface horizontal sampler)
Lab Sample I.D. #:
Time:
<u>14:21</u>

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time	Preservative
<u>14:25</u>	<u>H₂SO₄</u>

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time	Preservative
	H₂SO₄

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>14:15:51</u>	<u>11.30</u>	<u>3.6</u>
1	<u>14:16:32</u>	<u>11.42</u>	<u>3.3</u>
2	<u>14:17:18</u>	<u>11.46</u>	<u>3.2</u>
3	<u>14:17:51</u>	<u>11.49</u>	<u>3.1</u>
4			
5			
6			
7			
8			
0.5 above bottom	<u>14:18:41</u>	<u>11.53</u>	<u>3.1</u>

*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.

Flow very high hard to do D.O. at Bottom

IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Winter

Hydroelectric Project – FERC # 2064

Date: 7-18-2016

Pre-Sampling Data:

HWL 1370.42 TWL 1347.09 CFS 1847

Sample Location: _____

Performed by:

Angie Stine Steven Hagg

Time: 13:45 Barometer: 30.20

Air Temp: 79 °F Wind Speed: w 7 mph

Sky Conditions: Clear Sunny

Precipitation within Last 24 Hours: no

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed? Yes No

If yes, when were they changed: _____

Battery Status: 95 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 6 Feet

Secchi Depth (± 0.1)	
Time <u>13:50</u>	<u>2.3</u> (Feet)

Comments:

Chlorophyll <i>a</i> (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time <u>14:00</u>	Quantity (ml)	Filtered
	1000	In Lab
Preservative	MgCO ₃	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>14:05</u>	

14:00

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time	Preservative
	H₂SO₄

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time <u>14:05</u>	Preservative
	H ₂ SO ₄

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface			
1	<u>13:56:15</u>	<u>5.77</u>	<u>23.1</u>
2	<u>13:57:12</u>	<u>5.83</u>	<u>22.7</u>
3	<u>13:58</u>	<u>5.86</u>	<u>22.6</u>
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.



Photo 3520

IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Winter

Hydroelectric Project - FERC # 2064

Date: 8-16-16

Pre-Sampling Data:

HWL 1370.50 TWL 1345.18 CFS 220.0

Sample Location: same

Performed by: Stine Hagg

Time: 13:06 Barometer: 30.10

Air Temp: 77°F Wind Speed: SSW 4 mph

Sky Conditions: cloudy

Precipitation within Last 24 Hours: no

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed? Yes No

If yes, when were they changed: 90

Battery Status: 90 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 6.5 Feet

Secchi Depth (± 0.1)		
Time	<u>13:15</u>	<u>3.2</u> Feet

Comments:

Chlorophyll a (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time <u>13:06</u>	Quantity (ml)	Filtered
	1000	In Lab
Preservative	MgCO ₃	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>13:09</u>	

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time <u>13:09</u>	Preservative
	H ₂ SO ₄

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time	Preservative
	H₂SO₄

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>1:07:39</u>	<u>5.83</u>	<u>24.8</u>
1	<u>1:08:09</u>	<u>5.87</u>	<u>24.2</u>
2	<u>1:08:30</u>	<u>5.89</u>	<u>24.0</u>
3	<u>1:08:52</u>	<u>5.92</u>	<u>23.8</u>
4	<u>1:09:19</u>	<u>5.94</u>	<u>23.7</u>
5	<u>1:09:52</u>	<u>5.95</u>	<u>23.6</u>
6	<u>1:10:19</u>	<u>5.95</u>	<u>23.6</u>
<u>6.5</u>	<u>1:11:34</u>	<u>5.96</u>	<u>23.5</u>
8			
0.5 above bottom	<u>1:11:34</u>	<u>5.96</u>	<u>23.5</u>

*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.



Appendix D – Winter Hydroelectric Project Lab Reports and Chains of Custody



WHITE WATER ASSOCIATES, INC.

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

Cover Page

Client: RWE

WWA Job #: 62079

Project: Monitoring

Date Received: 3/24/2016

Date Reported: 5/9/2016

Sample Number	Client Sample ID	Date Sampled	Sample Matrix
62079-001	Upper Flambeau Surface	03/22/16	Water
62079-002	Upper Flambeau Bottom	03/22/16	Water
62079-003	Lower Flambeau Surface	03/22/16	Water
62079-004	Lower Flambeau Bottom	03/22/16	Water
62079-005	Pixley Surface	03/22/16	Water
62079-006	Pixley Bottom	03/22/16	Water
62079-007	Crowley Surface	03/22/16	Water
62079-008	Crowley Bottom	03/22/16	Water
62079-009	Winter Surface	03/22/16	Water
62079-010	Clam River Surface	03/23/16	Water
62079-011	Clam River Bottom	03/23/16	Water
62079-012	Danbury Surface	03/23/16	Water
62079-013	Danbury Bottom	03/23/16	Water



WHITE WATER ASSOCIATES, INC.

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Cover Page..continued

Client: RWE

WWA Job #: 62079

Comments (if any):

Key to Laboratory Flags:

- *: RPD 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.
- U: The analyte was analyzed for, but not detected.
- P: A manual peak selection or manual integration was performed to correct an erroneous software selection.

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:

WI DNR Lab Certification Number: 999971280
MI DEQ Certification Number: 9306
DoD-ELAP Accreditation Number: 65802
ISO/IEC 17025:2005 Accredited



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Client: RWE

WWA Job #: 62079

Project: Monitoring

Date Received: 3/24/2016

Date Reported: 5/9/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
62079-001 / Upper Flambeau Surface / Water							
General Chemistry Parameters							
chlorophyll a	ND		mg/m3	3/28/2016	10200H	NA	NA
Color	30		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.02	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-002 / Upper Flambeau Bottom / Water							
General Chemistry Parameters							
Total Phosphorus (t)	0.01	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-003 / Lower Flambeau Surface / Water							
General Chemistry Parameters							
chlorophyll a	ND		mg/m3	3/28/2016	10200H	NA	NA
Color	35		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.03	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-004 / Lower Flambeau Bottom / Water							
General Chemistry Parameters							
Total Phosphorus (t)	0.03	J	mg/L	3/25/2016	365.4	0.01	0.04

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)



WHITE WATER ASSOCIATES, INC.

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

Client: RWE

WWA Job #: 62079

Project: Monitoring

Date Received: 3/24/2016

Date Reported: 5/9/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	QL
62079-005 / Pixley Surface / Water							
General Chemistry Parameters							
chlorophyll a	0.40		mg/m3	3/28/2016	10200H	NA	NA
Color	35		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.03	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-006 / Pixley Bottom / Water							
General Chemistry Parameters							
Total Phosphorus (t)	0.03	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-007 / Crowley Surface / Water							
General Chemistry Parameters							
chlorophyll a	0.41		mg/m3	3/28/2016	10200H	NA	NA
Color	40		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.03	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-008 / Crowley Bottom / Water							
General Chemistry Parameters							
Total Phosphorus (t)	0.03	J	mg/L	3/25/2016	365.4	0.01	0.04

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)



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Client: RWE

WWA Job #: 62079

Project: Monitoring

Date Received: 3/24/2016

Date Reported: 5/9/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	SQL
62079-009 / Winter Surface / Water							
General Chemistry Parameters							
chlorophyll a	0.41		mg/m3	3/28/2016	10200H	NA	NA
Color	40		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.02	J	mg/L	3/25/2016	365.4	0.01	0.04
62079-010 / Clam River Surface / Water							
General Chemistry Parameters							
chlorophyll a	11		mg/m3	3/28/2016	10200H	NA	NA
Color	15		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.04		mg/L	3/25/2016	365.4	0.01	0.04
62079-011 / Clam River Bottom / Water							
General Chemistry Parameters							
Total Phosphorus (t)	0.04		mg/L	3/25/2016	365.4	0.01	0.04
62079-012 / Danbury Surface / Water							
General Chemistry Parameters							
chlorophyll a	9.5		mg/m3	3/28/2016	10200H	NA	NA
Color	15		CU	3/25/2016	2120B	5	5
Total Phosphorus (t)	0.02	J	mg/L	3/25/2016	365.4	0.01	0.04

 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)



WHITE WATER ASSOCIATES, INC.

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Client: RWE

WWA Job #: 62079

Project: Monitoring

Date Received: 3/24/2016

Date Reported: 5/9/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
62079-013 / Danbury Bottom / Water							
General Chemistry Parameters							
Total Phosphorus (t)	0.02	J	mg/L	3/25/2016	365.4	0.01	0.04

CHAIN-OF-CUSTODY RECORD

Job # (WWA office use): **62079**

CLIENT NAME / BILL TO
RWE

ADDRESS

EMAIL ADDRESS

TELEPHONE

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

Phone: (906) 822-7889, Fax -7977
Web: white-water-associates.com



SAMPLE ID AND LOCATION <small>Containers for each sample may be combined on one line.</small>	DATE	TIME	SAMPLE MATRIX							Total Number of Containers	ANALYSIS TYPE REQUESTED (Attach list if needed)	REMARKS <small>(Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)</small>				
			Drinking water	Aqueous	Sed.	Soil	Other:	CONTAINERS / PRESERVATIVES								
								None	H ₂ SO ₄				HNO ₃	HCl	NaOH	ZnAc/NaOH
1 Upper Flambeau Surface	3-22-16	8:16									X	X	Chloro Pylor & T Color			
2 Upper Flambeau Bottom	"	"								1		X				
3 Lower Flambeau Surf		9:44								3	X	X				
4 Lower Flambeau Bottom		"								1	X	X				
5 Pixley Surface		11:07								3	X	X				
6 Pixley Bottom		"								1	X	X				
7 Crowley Surface		12:30								3	X	X				
8 Crowley Bottom		"								1	X	X				
9 Winter Surface		14:21								3	X	X				
10 Clam River Surface 3/23		12:44								3	X	X				
11 Clam River Bottom "		"								1	X	X				
Relinquished by:												Date:	Time:	Date:	Time:	Comments / Sample temperature on receipt:
Relinquished by: <i>[Signature]</i>												Date:	Time:	Date:	Time:	1.4
SAMPLER NAME (print first/last name) Angie Stiri												Indicate if more than one page of COC records used 1 OF 2				
SAMPLER SIGNATURE <i>[Signature]</i>												CONTRACT / PO / PROJECT NAME / WSSN# Monitoring				
COUNTY OF LOCATION Pres												Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.				

WHITE - RETURN W/ REPORT CANARY - W/ SAMPLES PINK - CUSTOMER



429 River Lane, P.O. Box 27
Amasa, Michigan 49903
Phone: (906) 822-7889, Fax -7977
Web: white-water-associates.com

CLIENT NAME / BILL TO: **RWE**

ADDRESS: _____

EMAIL ADDRESS: _____

TELEPHONE: _____

CITY: _____ STATE: _____ ZIP: _____ CONTRACT / PO / PROJECT NAME / WSSN#: _____

SAMPLER NAME (print first/last name): **Monitoring** PAGE: **2 OF 2** Indicate if more than one page of CQC records used

SAMPLER'S SIGNATURE: *Angie S. Spri* COUNTY OF LOCATION: _____

ANALYSIS TYPE REQUESTED (Attach list if needed)

Analysis Type	Requested
Chlorophyll a	X
TP	X
Color	X

Instructions to White Water
Send my report by: _____ email _____ mail _____

Unless otherwise noted, drinking water report copies are sent to MDEQ and Health Dept.

REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)

SAMPLE ID AND LOCATION Containers for each sample may be combined on one line.	DATE	TIME	SAMPLE MATRIX / PRESERVATIVES											Total Number of Containers			
			Drinking water	Aqueous	Sed.	Soil	Other.	None	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Na Thio		
			12 Danbury Surface	3/23/16	14:45	X					X						
13 Danbury Bottom	"	"	X					X									1

Relinquished by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____

Relinquished by: *Angie S. Spri* Date: **3-24-16** Time: **9:49** Received by: *Enad J* Date: **3-24-16** Time: **9:50**

Comments / Sample temperature on receipt: _____



WHITE WATER ASSOCIATES, INC.

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

Cover Page

Client: RWE

WWA Job #: 64453

Project: Monitoring

Date Received: 7/21/2016

Date Reported: 8/10/2016

Sample Number	Client Sample ID	Date Sampled	Sample Matrix
64453-001	Upper Flambeau	07/19/16	Water
64453-002	Upper Flambeau	07/19/16	Water
64453-003	Lower Flambeau	07/19/16	Water
64453-004	Lower Flambeau	07/19/16	Water
64453-005	Pixley	07/19/16	Water
64453-006	Pixley	07/19/16	Water
64453-007	Crowley	07/19/16	Water
64453-008	Crowley	07/19/16	Water
64453-009	Winter	07/18/16	Water
64453-010	Clam River	07/20/16	Water
64453-011	Clam River	07/20/16	Water
64453-012	Danbury	07/20/16	Water
64453-013	Danbury	07/20/16	Water



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Cover Page..continued

Client: RWE

WWA Job #: 64453

Comments (if any):

Key to Laboratory Flags:

- *: RPD 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.
- U: The analyte was analyzed for, but not detected.
- P: A manual peak selection or manual integration was performed to correct an erroneous software selection.

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:

WI DNR Lab Certification Number: 999971280
MI DEQ Certification Number: 9306
DoD-ELAP Accreditation Number: 65802
ISO/IEC 17025:2005 Accredited



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Client: RWE

WWA Job #: 64453

Project: Monitoring

Date Received: 7/21/2016

Date Reported: 8/10/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	SQL
64453-001 / Upper Flambeau / Surface / Water							
General Chemistry Parameters							
chlorophyll a	6.3		mg/m3	7/21/2016	10200H	NA	NA
Color	40		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.022	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-002 / Upper Flambeau / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.019	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-003 / Lower Flambeau / Surface / Water							
General Chemistry Parameters							
chlorophyll a	6.7		mg/m3	7/21/2016	10200H	NA	NA
Color	45		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.021	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-004 / Lower Flambeau / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.026	J	mg/L	8/1/2016	365.4	0.008	0.050

 ND = Not Detected, MDL = Method Detection Limit, SQL = Method Quantitation Limit,
 ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)



WHITE WATER ASSOCIATES, INC.

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Client: RWE

WWA Job #: 64453

Project: Monitoring

Date Received: 7/21/2016

Date Reported: 8/10/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	SQL
64453-005 / Pixley / Surface / Water							
General Chemistry Parameters							
chlorophyll a	8.1		mg/m3	7/21/2016	10200H	NA	NA
Color	45		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.033	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-006 / Pixley / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.180		mg/L	8/1/2016	365.4	0.008	0.050
64453-007 / Crowley / Surface / Water							
General Chemistry Parameters							
chlorophyll a	6.5		mg/m3	7/21/2016	10200H	NA	NA
Color	55		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.036	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-008 / Crowley / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.030	J	mg/L	8/1/2016	365.4	0.008	0.050

ND = Not Detected, MDL = Method Detection Limit, SQL = Method Quantitation Limit,
ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)



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Client: RWE

WWA Job #: 64453

Project: Monitoring

Date Received: 7/21/2016

Date Reported: 8/10/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	SQL
64453-009 / Winter / Surface / Water							
General Chemistry Parameters							
chlorophyll a	2.2		mg/m3	7/21/2016	10200H	NA	NA
Color	85		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.035	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-010 / Clam River / Surface / Water							
General Chemistry Parameters							
chlorophyll a	44		mg/m3	7/21/2016	10200H	NA	NA
Color	30		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.043	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-011 / Clam River / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.043	J	mg/L	8/1/2016	365.4	0.008	0.050
64453-012 / Danbury / Surface / Water							
General Chemistry Parameters							
chlorophyll a	10		mg/m3	7/21/2016	10200H	NA	NA
Color	20		CU	7/21/2016	2120B	5	5
Total Phosphorus LL (t)	0.022	J	mg/L	8/1/2016	365.4	0.008	0.050

 ND = Not Detected, MDL = Method Detection Limit, SQL = Method Quantitation Limit,
 ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)



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Client: RWE

WWA Job #: 64453

Project: Monitoring

Date Received: 7/21/2016

Date Reported: 8/10/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
64453-013 / Danbury / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.022	J	mg/L	8/1/2016	365.4	0.008	0.050



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Cover Page

Client: RWE

WWA Job #: 65014

Project: Monitoring

Date Received: 8/19/2016

Date Reported: 9/6/2016

Sample Number	Client Sample ID	Date Sampled	Sample Matrix
65014-001	Upper Flambeau	08/18/16	Water
65014-002	Upper Flambeau	08/18/16	Water
65014-003	Lower Flambeau	08/18/16	Water
65014-004	Lower Flambeau	08/18/16	Water
65014-005	Pixley	08/18/16	Water
65014-006	Pixley	08/18/16	Water
65014-007	Crowley	08/18/16	Water
65014-008	Crowley	08/18/16	Water
65014-009	Winter	08/18/16	Water
65014-010	Clam River	08/18/16	Water
65014-011	Clam River	08/18/16	Water
65014-012	Danbury	08/18/16	Water
65014-013	Danbury	08/18/16	Water



Cover Page..continued

Client: RWE

WWA Job #: 65014

Comments (if any):

Key to Laboratory Flags:

- *: RPD 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.
- U: The analyte was analyzed for, but not detected.
- P: A manual peak selection or manual integration was performed to correct an erroneous software selection.

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:

WI DNR Lab Certification Number: 999971280

MI DEQ Certification Number: 9306

DoD-ELAP Accreditation Number: 65802

ISO/IEC 17025:2005 Accredited



WHITE WATER ASSOCIATES, INC.

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

Client: RWE

WWA Job #: 65014

Project: Monitoring

Date Received: 8/19/2016

Date Reported: 9/6/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MLQ
65014-001 / Upper Flambeau / Surface / Water							
General Chemistry Parameters							
chlorophyll a	8.5		mg/m3	8/24/2016	10200H	NA	NA
Color	35		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.022	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-002 / Upper Flambeau / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.022	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-003 / Lower Flambeau / Surface / Water							
General Chemistry Parameters							
chlorophyll a	7.2		mg/m3	8/24/2016	10200H	NA	NA
Color	30		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.026	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-004 / Lower Flambeau / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.096		mg/L	8/25/2016	365.4	0.008	0.050

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)



WHITE WATER ASSOCIATES, INC.

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Client: RWE

WWA Job #: 65014

Project: Monitoring

Date Received: 8/19/2016

Date Reported: 9/6/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
65014-005 / Pixley / Surface / Water							
General Chemistry Parameters							
chlorophyll a	15		mg/m3	8/24/2016	10200H	NA	NA
Color	45		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.036	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-006 / Pixley / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.048	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-007 / Crowley / Surface / Water							
General Chemistry Parameters							
chlorophyll a	15		mg/m3	8/24/2016	10200H	NA	NA
Color	40		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.030	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-008 / Crowley / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.030	J	mg/L	8/25/2016	365.4	0.008	0.050



WHITE WATER ASSOCIATES, INC.

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

Client: RWE

WWA Job #: 65014

Project: Monitoring

Date Received: 8/19/2016

Date Reported: 9/6/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
65014-009 / Winter / Surface / Water							
General Chemistry Parameters							
chlorophyll a	1.5		mg/m3	8/24/2016	10200H	NA	NA
Color	60		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.038	J	mg/L	8/25/2016	365.4	0.008	0.050
65014-010 / Clam River / Surface / Water							
General Chemistry Parameters							
chlorophyll a	61		mg/m3	8/24/2016	10200H	NA	NA
Color	25		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.050		mg/L	8/25/2016	365.4	0.008	0.050
65014-011 / Clam River / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.053		mg/L	8/25/2016	365.4	0.008	0.050
65014-012 / Danbury / Surface / Water							
General Chemistry Parameters							
chlorophyll a	5.2		mg/m3	8/24/2016	10200H	NA	NA
Color	20		CU	8/19/2016	2120B	5	5
Total Phosphorus LL (t)	0.037	J	mg/L	8/25/2016	365.4	0.008	0.050

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)



**WHITE WATER
ASSOCIATES, INC.**

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

Client: RWE

WWA Job #: 65014

Project: Monitoring

Date Received: 8/19/2016

Date Reported: 9/6/2016

Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
65014-013 / Danbury / Bottom / Water							
General Chemistry Parameters							
Total Phosphorus LL (t)	0.040	J	mg/L	8/25/2016	365.4	0.008	0.050

CHAIN-OF-CUSTODY RECORD

Job # (WWA office use): 65014



429 River Lane, P.O. Box 27
Amasa, Michigan 49903
Phone: (906) 822-7889, Fax: -7977
Web: white-water-associates.com

CLIENT NAME / BILL TO: **RWE**

EMAIL ADDRESS: _____

TELEPHONE: _____

CITY: _____ STATE: _____ ZIP: _____

CONTRACT / PO / PROJECT NAME / WSSN#: _____

COUNTY OF LOCATION: **Monitoring** PAGE: **1** OF **1**

SAMPLER NAME (print first/last name): **Steve Haag**

SAMPLER'S SIGNATURE:

INSTRUCTIONS TO WHITE WATER: Send my report by: email mail

UNLESS OTHERWISE NOTED, DRINKING WATER REPORT COPIES ARE SENT TO MDEQ AND HEALTH DEPT.

REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.):

SAMPLE ID AND LOCATION Containers for each sample may be combined on one line.	DATE	TIME	SAMPLE MATRIX										Total Number of Containers								
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH	Na Thio						
1 Upper Flamborough Surface	8-18-16	7:58												X	3	X	X	X	X	X	
2 Upper Flamborough Bottom	8-18-16	7:59													1	X	X	X	X	X	
3 Lower Flamborough Surface	8-18-16	9:44													3	X	X	X	X	X	
4 Lower Flamborough Bottom	8-18-16	9:45													1	X	X	X	X	X	
5 Pixley Surface	8-18-16	11:10													3	X	X	X	X	X	
6 Pixley Bottom	8-18-16	11:12													1	X	X	X	X	X	
7 Crawsby Surface	8-18-16	12:59													3	X	X	X	X	X	
8 Crawsby Bottom	8-18-16	13:00													1	X	X	X	X	X	
9 Winter Surface	8-16-16	13:07													3	X	X	X	X	X	
10 Chamberlain Surface	8-17-16	10:28													3	X	X	X	X	X	
11 Clum River Bottom	8-17-16	10:29													1	X	X	X	X	X	
12 Dumbury Surface	8-17-16	13:06													3	X	X	X	X	X	
13 Dumbury Bottom	8-17-16	13:08													1	X	X	X	X	X	

ANALYSIS TYPE REQUESTED (Attach list if needed):

Chlorophyll a (mg/L) **X**

Total Phos **X**

Color **X**

Received by: **Analyst** Date: **8-18-16** Time: **16:15**

Relinquished by: **Logan** Date: **8-19-16** Time: **11:07**

Comments / Sample temperature on receipt: **3.7**