



February 21, 2015

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

**RE: Danbury Hydroelectric Project
FERC Project Number 9184
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 Danbury Hydroelectric Project. The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on September 5, 2006. This report is submitted as a requirement of that License pursuant to License Article 401 WQC, Condition K. 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 23, July 20, and August 17, 2016. Nothing out of the ordinary was experienced during the monitoring season except as noted in the report. 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. As of the date of this letter no comments have been received. 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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Sincerely,
Renewable World Energies, LLC
Agent for Licensee

A handwritten signature in black ink, appearing to read "Birk".

Handwritten initials in black ink, appearing to read "FJD".

Mr. Jason Kreuzscher
Vice President, Operations

Attachment: Final Report 2016 Water Quality Monitoring Data

Cc: Ms. Cheryl Laatsch, WDNR
Mr. Nick Utrup, USFWS
RWE, Corporate

Final Report

2016 Water Quality Monitoring Data

for the

Danbury Hydroelectric Project

FERC Project #9184

Flambeau Hydro, LLC

Yellow River,
Burnett County, Wisconsin

Respectfully Submitted by:

Angie Stine



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

Phone: 906-822-7889

Summary Danbury Hydroelectric Project – FERC #9184

2016 marked the tenth year of water quality sampling under FERC License issued on September 5, 2006 to Flambeau Hydro, LLC for the Danbury Hydroelectric Project – FERC Project # 9184 and specifically License Article 401 WQC, Condition K. Monitoring was conducted on March 23, July 20, and August 17, 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 Danbury 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 in March or July but in August the D.O. was below 5.0 mg/L throughout the water column. 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).

Ice-Out occurred between Yellow River sometime during the week beginning March 14th, 2016. The Ice-Out sampling event occurred on March 23, 2016. River flow, based on the Danbury Hydroelectric Project records, was approximately 320 cubic feet per second. Sampling occurred between 1445 and 1455. 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 Danbury Hydroelectric Project records, was approximately 383 cubic feet per second during the July 20, 2016 sampling event. Sampling occurred between 1225 and 1243. 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 Danbury Hydroelectric Project records, was approximately 322 cubic feet per second during the August 17, 2016 sampling event. Sampling occurred between 1246 and 1313. Samples were taken without incident. No unusual Temperature readings were observed but the D.O. was below 5.0 mg/L throughout the water column. 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.

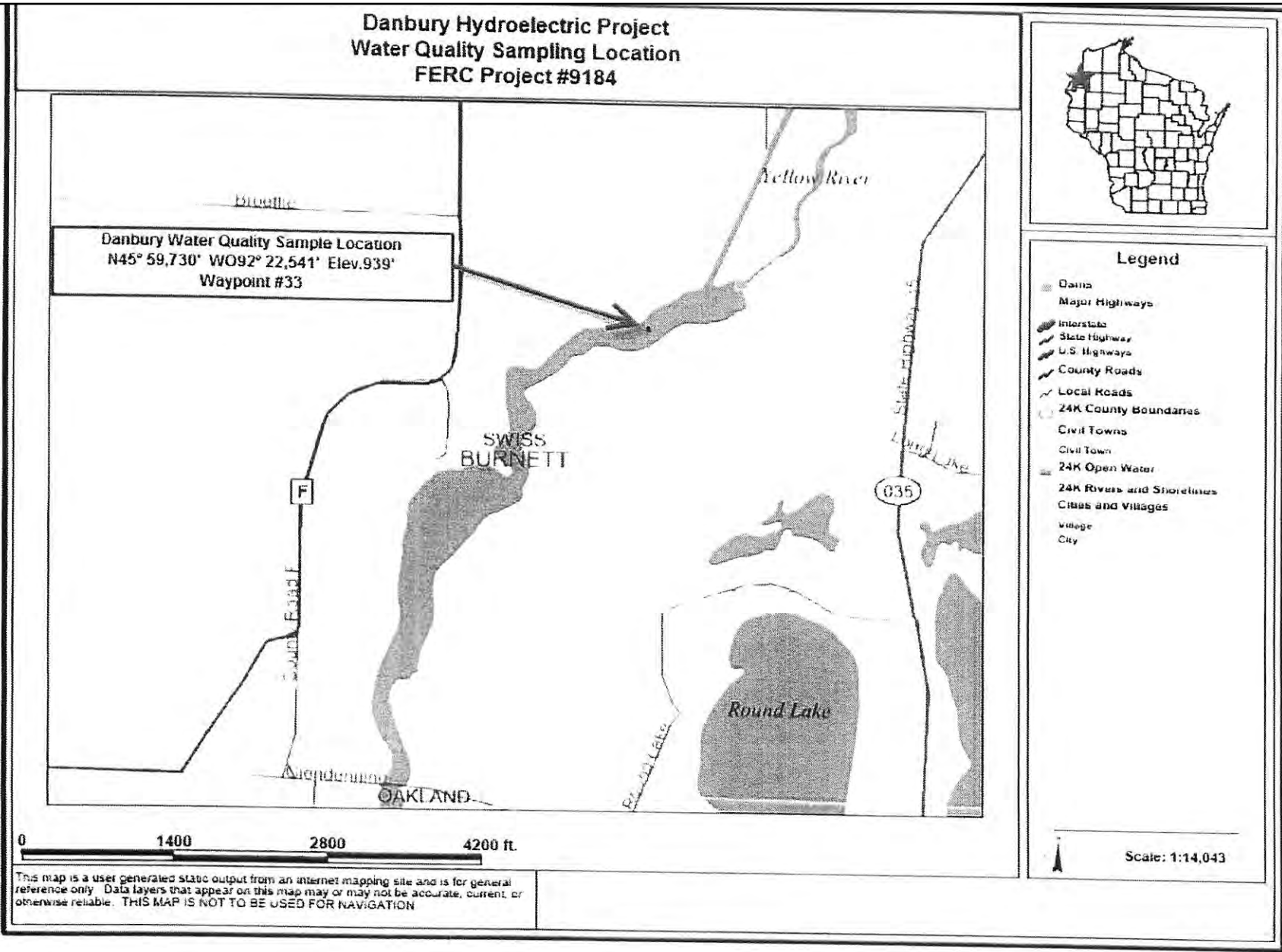
A summary of a comparison between the 2011 thru 2016 (Table 3) sampling results are as follows:

1. Water Clarity – Secchi Increased Ice Out, July & August
2. Chlorophyll a – Decreased Ice Out & August and Increased July
3. Color – Decreased Ice Out, July & August
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

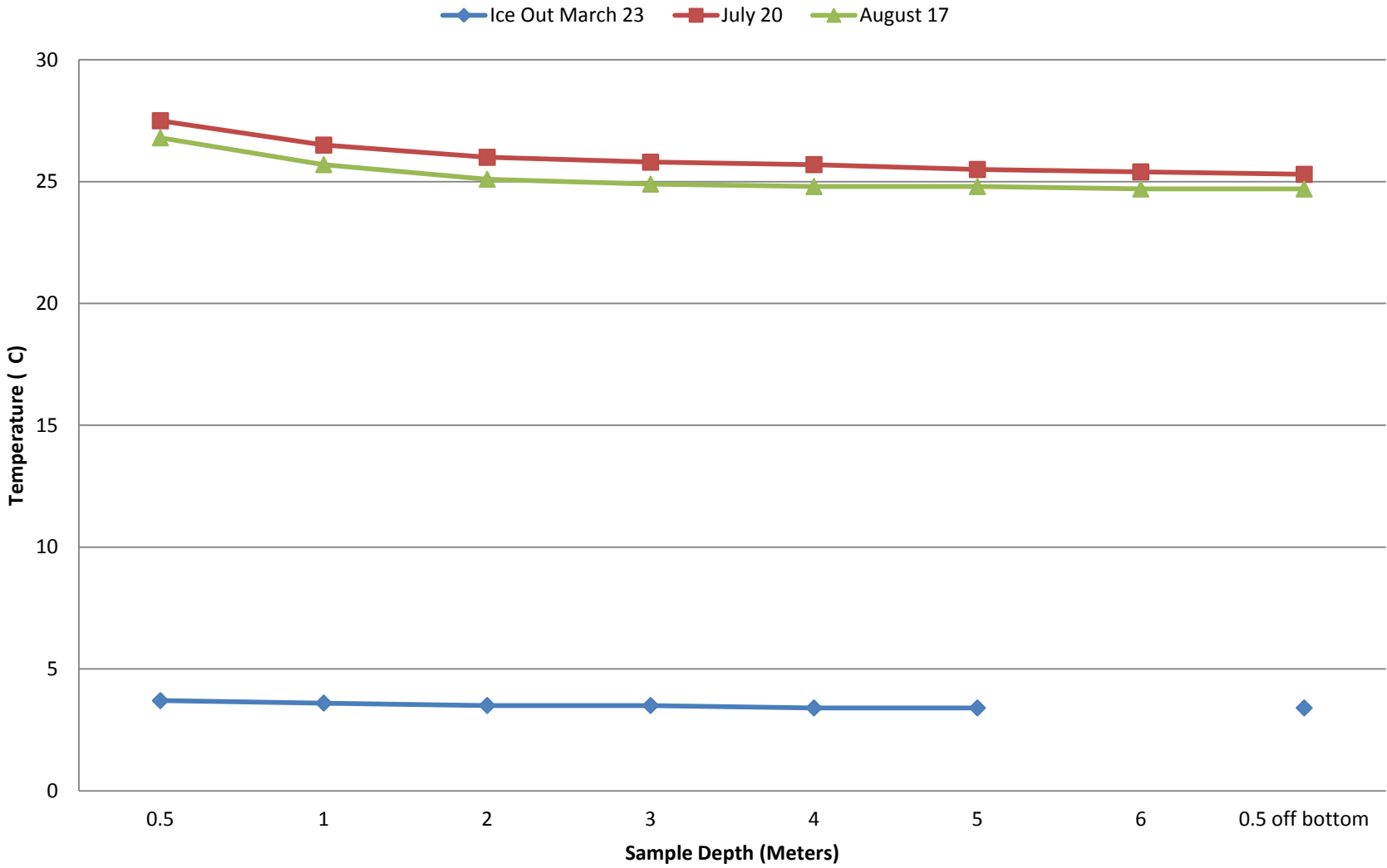
The next scheduled Water Quality Monitoring at the Danbury Hydroelectric Project is set to take place in 2017 beginning with the Ice-Out sampling event.

Appendix A – Danbury Hydroelectric Project Figures

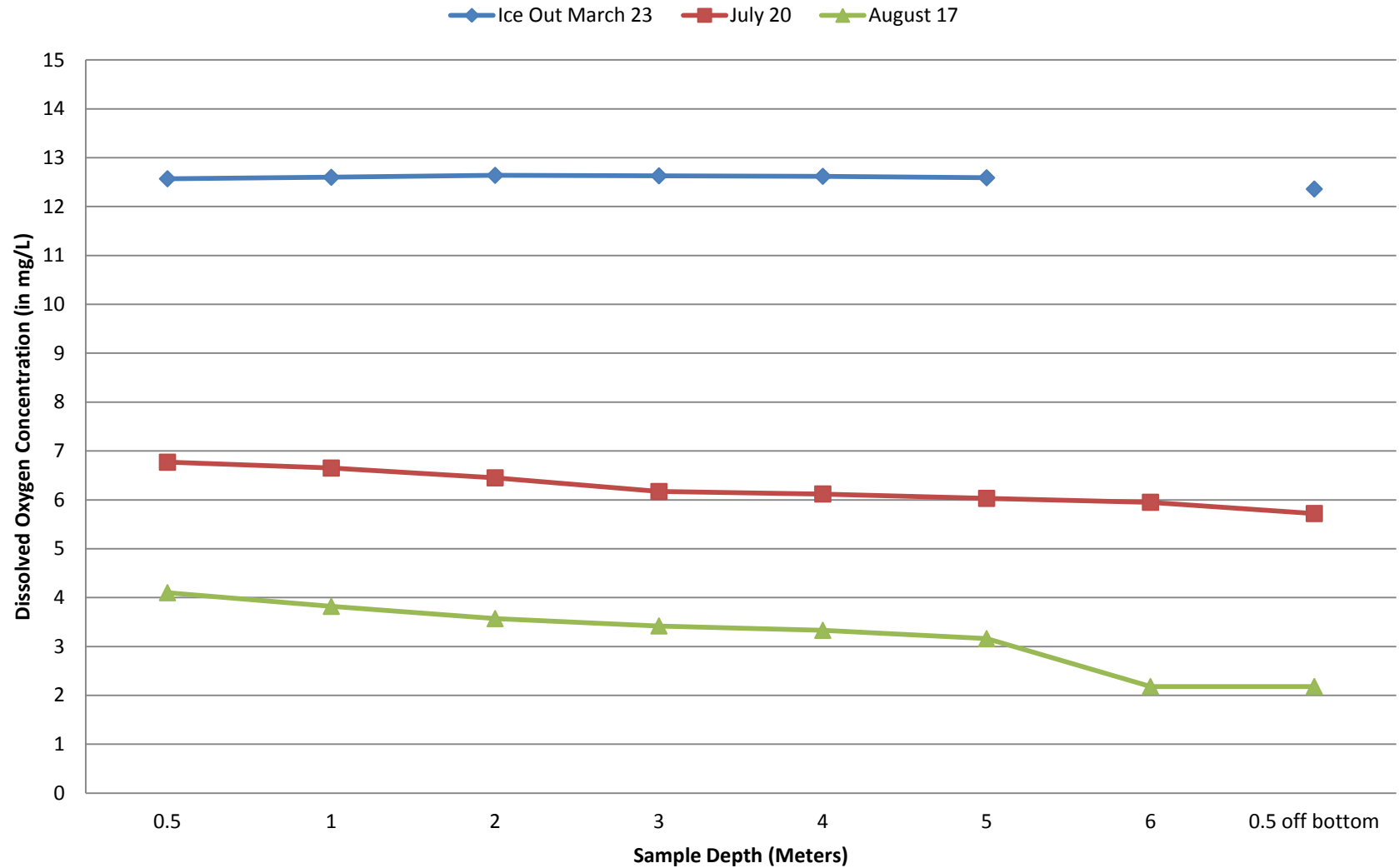
Figure 1. Danbury Hydroelectric Project Map showing water quality sample location.



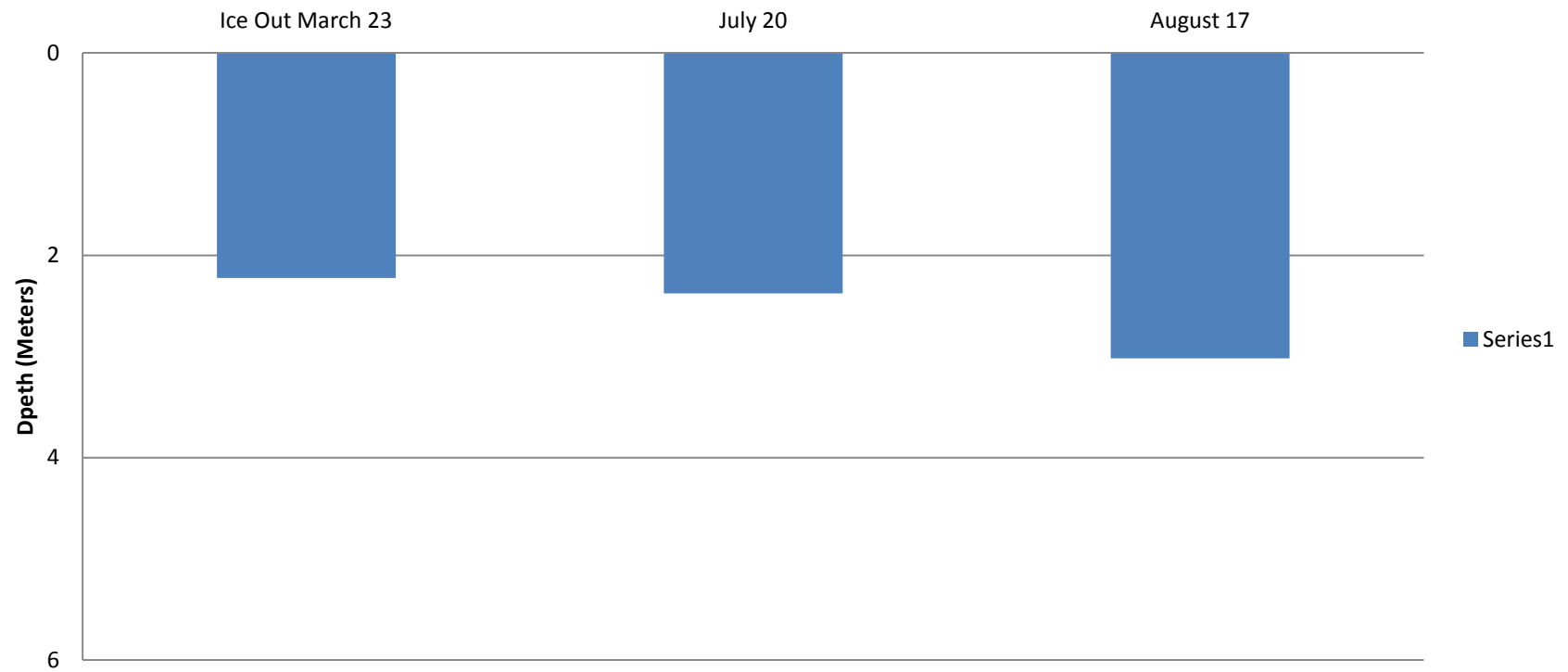
**Figure 2. Danbury Impoundment - FERC #9184
2016 Temperature Samples**



**Figure 3. Danbury Impoundment- FERC #9184
2016 Dissolved Oxygen Samples**



**Figure 4. Danbury Impoundement - FERC# 9184
Secchi Depth**



Appendix B – Danbury Hydroelectric Project Tables

Table 1. Danbury Hydroelectric Project – FERC Project # 9184: 2016 Water Quality Sampling Data

	Ice Out March 23, 2016			July 20, 2016			August 17, 2016		
Project Flow (c.f.s)	320			383			322		
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	14:51:21	12.57	3.7	12:39:07	6.77	27.5	13:02:45	4.1	26.8
1 meter below surface	14:52:06	12.60	3.6	12:39:37	6.65	26.5	13:05:44	3.82	25.7
2 meter below surface	14:52:46	16.64	3.5	12:40:10	6.45	26.0	13:07:27	3.57	25.1
3 meter below surface	14:53:12	12.63	3.5	12:40:49	6.17	25.8	13:08:50	3.42	24.9
4 meter below surface	14:54:09	12.62	3.4	12:41:20	6.12	25.7	13:10:09	3.33	24.8
5 meter below surface	14:54:50	12.59	3.4	12:41:55	6.03	25.5	13:11:36	3.16	24.8
6 meter below surface	N/A	N/A	N/A	12:42:25	5.95	25.4	13:12:49	2.18	24.7
0.5 meter above bottom	14:55:02	12.36	3.4	12:43:22	5.72	25.3	13:12:49	2.18	24.7
Secchi Disk	Time	Depth (m)		Time	Depth (m)		Time	Depth (m)	
Meters below surface	14:48	2.23		12:33	2.38		13:15	3.02	
Chlorophyll <i>a</i>	Time	µg/L		Time	µg/L		Time	µg/L	
1 meter below surface	14:45	9.50		12:34	10.00		13:03	5.2	
Color (True)	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD
1 meter below surface	14:53	15	5*	12:35	20	5*	13:02	20	5*
Total Phosphorus	Time	mg/L	LOD	Time	mg/L	LOD	Time	mg/L	LOD
1 meter below surface	14:53	0.02	0.01*	12:35	0.022	0.008*	13:02	0.037	0.008*
1 meter above bottom	14:55	0.02	0.01*	12:36	0.022	0.008*	13:05	0.040	0.008*
*Considered Method Detection Limit N/A = Not Applicable									

Table 2. 2015/16 Water Year Monthly Temperature and Precipitation for Danbury, 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. Danbury Project Sampling Comparison Table: 2011 Thru Current Year

Year	Month	Secchi Depth	Chlorophyll <i>a</i>	Color (True)	Total Phosphorus	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	Above Bottom mg/L	mg/L	mg/L	° C	° C
2011	April	1.95	4.70	20.00	0.030	0.030	12.19	11.94	7.30	7.50
2012	April	2.80	1.70	25.00	0.030	*	11.93	12.69	10.30	10.60
2013	May	2.00	9.60	25.00	0.036	0.034	11.05	11.19	10.20	11.60
2014	June	2.00	5.50	30.00	0.026	0.026	10.42	10.62	7.90	8.70
2015	April	2.10	11.00	20.00	0.045	0.033	10.32	10.43	11.00	13.40
2016	March	2.23	9.50	15.00	0.020	0.020	12.36	12.64	3.40	3.70
Minimum	March/April/June	1.95	1.70	15.00	0.020	0.020	10.32	10.43	3.40	3.70
Maximum	March/April/June	2.80	11.00	30.00	0.045	0.034	12.36	12.69	11.00	13.40
Average	March/April/June	2.18	7.00	22.50	0.031	0.029	11.38	11.59	8.35	9.25
2011	July	1.80	6.10	25.00	0.066	0.063	0.26	7.35	19.40	24.40
2012	July	1.90	6.90	40.00	0.062	0.061	2.96	7.04	26.10	26.70
2013	July	2.50	1.70	40.00	0.062	0.065	4.37	5.24	24.10	25.10
2014	July	2.20	3.30	50.00	0.044	0.044	6.85	20.80	7.86	22.00
2015	July	1.80	5.10	25.00	0.058	0.043	6.24	7.50	22.50	23.50
2016	July	2.38	10.00	20.00	0.022	0.022	5.72	6.77	25.30	27.50
Minimum	July	1.80	1.70	20.00	0.022	0.022	0.26	5.24	7.86	22.00
Maximum	July	2.50	10.00	50.00	0.066	0.065	6.85	20.80	22.50	27.50
Average	July	2.10	5.52	33.33	0.052	0.050	4.40	9.12	25.30	24.87
2011	August	1.50	16.00	50.00	0.054	0.052	1.64	6.03	22.30	23.50
2012	August	2.65	40.00	0.06	0.056	0.056	5.44	6.06	21.40	22.00
2013	August	2.80	4.80	35.00	0.060	0.120	1.90	6.33	19.60	22.70
2014	August	1.60	4.50	50.00	0.063	0.052	4.20	5.18	23.40	24.20
2015	August	2.20	7.60	30.00	0.042	0.036	5.89	8.02	23.10	25.40
2016	August	3.02	5.20	20.00	0.037	0.040	2.18	4.15	24.70	26.80
Minimum	August	1.50	4.50	0.06	0.037	0.036	1.64	4.15	19.60	22.00
Maximum	August	3.02	40.00	50.00	0.063	0.120	5.89	8.02	24.70	26.80
Average	August	2.30	13.02	30.84	0.052	0.059	3.54	5.96	22.42	24.10

*no sample taken

Appendix C – Danbury Impoundment Project Sampling Logs

IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Danbury

Hydroelectric Project - FERC # 9187

Date: 3-23-2016

Pre-Sampling Data:

HWL 926.60 TWL 900.00 CFS 320

Sample Location: DANB.W.2.SP
N 45.99546°
W 092.37592

Performed by: A Skine T Plummer

Time: 14:45 Barometer: 30.10

Air Temp: 37°F Wind Speed: NE 11 mph

Sky Conditions: 100% clouds

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: 90 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 5.5 Feet. meters

Secchi Depth (± 0.1)	
Time <u>2:48</u> <u>14:48</u>	<u>7.3</u> Feet <u>2.23 meters</u>

Comments:

Mallards, common merganser
wood ducks pair male/female
Eagle

Chlorophyll <i>a</i> (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time	Quantity (ml)	Filtered
<u>14:45</u>	1000	In Lab
Preservative	MgCO ₃	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. # :	
Time:	<u>14:53</u>

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. # :	
Time <u>14:53</u>	Preservative
H ₂ SO ₄	

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. # :	
Time <u>14:55</u>	Preservative
H ₂ SO ₄	

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>14:51:21</u>	<u>12.57</u>	<u>3.7</u>
1	<u>14:52:06</u>	<u>12.60</u>	<u>3.6</u>
2	<u>14:52:46</u>	<u>12.64</u>	<u>3.6</u>
3	<u>14:53:12</u>	<u>12.63</u>	<u>3.5</u>
4	<u>14:54:09</u>	<u>12.62</u>	<u>3.4</u>
5	<u>14:54:50</u>	<u>12.59</u>	<u>3.4</u>
6			
7			
8			
0.5 above bottom	<u>14:55:02</u>	<u>12.36</u>	<u>3.4</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.



IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Danbury
 Hydroelectric Project - FERC # 9184
 Date: 7-20-16

Pre-Sampling Data:
 HWL 929.33 TWL 898.50 CFS 383
 Sample Location: N45° 59.730' W 91° 21.541'

Performed by: A. Stine S. Heag
 Time: 12:25 Barometer: 30.00
 Air Temp: 88 °F Wind Speed: 59 mph
 Sky Conditions: clear
 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: 90 % Charge
 Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 2.38 Feet m

Secchi Depth (± 0.1)		
Time	<u>12:33</u>	<u>7.8</u> Feet
		<u>2.38</u> meters

Comments:
Saw Snapper and softshell (took photo)

Chlorophyll a (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time <u>12:34</u>	Quantity (ml)	Filtered
	1000	In Lab
Preservative	MgCO ₃	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>12:35</u>	

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time <u>12:35</u>	Preservative
	H ₂ SO ₄

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time <u>12:36</u>	Preservative
	H ₂ SO ₄

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>12:39:07</u>	<u>6.77</u>	<u>27.5</u>
1	<u>12:39:32</u>	<u>6.65</u>	<u>26.5</u>
2	<u>12:40:10</u>	<u>6.45</u>	<u>26.0</u>
3	<u>12:40:49</u>	<u>6.17</u>	<u>25.8</u>
4	<u>12:41:20</u>	<u>6.12</u>	<u>25.7</u>
5	<u>12:41:55</u>	<u>6.03</u>	<u>25.5</u>
6	<u>12:42:25</u>	<u>5.95</u>	<u>25.4</u>
7			
8			
0.5 above bottom	<u>12:43:22</u>	<u>5.72</u>	<u>25.3</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.



IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Danbury

Hydroelectric Project - FERC # 9184

Date: 8-17-16

Pre-Sampling Data:

HWL 928.99 TWL 848.50 CFS 322

Sample Location: N45° 59' 30" W 92° 22' 54"

Performed by: Stine Haag

Time: 12:46 Barometer: 30.10

Air Temp: 81 °F Wind Speed: 55 mph

Sky Conditions: clear

Precipitation within Last 24 Hours: 0.1 inch

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed? Yes No

If yes, when were they changed: _____

Battery Status: 90 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 19 Feet

Secchi Depth (± 0.1)	
Time <u>13:15</u>	<u>9.9</u> Feet

Comments:

Photo 3533 - D.O.
Emailed DDT and Jason on low D.O.



WHITE WATER ASSOCIATES, INC.

Painted baskets, 3 wood ducks, blue herons, northern pikefish

Chlorophyll a (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time <u>13:03</u>	Quantity (ml)	Filtered
	1000	In Lab
Preservative	MgCO ₃	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>13:02</u>	

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time <u>13:02</u>	Preservative
	H ₂ SO ₄

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time <u>13:05</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			
2			
3			
4			
5			
6			
7			
8			
0.5 above bottom			

-7 low oxygen

*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.

8-17-16 Danbury

*D.O. and Temperature Profile			
Depth (Feet)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	1:02:45	4.10	26.8
1	1:03:13	4.06	26.5
2	1:04:02	4.15	26.5
3	1:05:44	3.82	25.7
4	1:06:16	3.63	25.3
5	1:06:41	3.61	25.3
6	1:07:02	3.59	25.2
7	1:07:27	3.57	25.1
8	1:07:53	3.45	25.0
9	1:08:30	3.43	24.9
10	1:08:50	3.42	24.9
11	1:09:12	3.41	24.9
12	1:09:31	3.40	24.9
13	1:10:09	3.33	24.8
14	1:10:39	3.29	24.8
15	1:11:09	3.25	24.8
16	1:11:36	3.16	24.8
17	1:11:59	3.12	24.7
18	1:12:20	3.03	24.7
19	1:12:49	2.18	24.7
20			
21			
22			
23			
24			
25			
0.5 above bottom	1:12:49	2.18	24.7

Bottom



WHITE WATER
ASSOCIATES, INC.

Appendix D – Danbury 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

**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



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	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)



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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	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)



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



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: _____
CITY: _____ STATE: _____ ZIP: _____
CONTRACT / PO / PROJECT NAME / WSSN#: _____
COUNTY OF LOCATION: **Nowitaring**
SAMPLER NAME (print first/last name): _____
SAMPLER 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.)

ANALYSIS TYPE REQUESTED (Attach list if needed)

Check off preservatives for each bottle
upon arrival and indicate total number of
bottles. WWA database contains bottle
preservation details.

Indicate if more than
one page of COC
records used
1 OF 2

SAMPLE ID AND LOCATION Containers for each sample may be combined on one line.	DATE	TIME	SAMPLE MATRIX						CONTAINERS / PRESERVATIVES						Total Number of Containers
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Na Thio	

ANALYSIS TYPE REQUESTED (Attach list if needed)	Time	Date
Chloro Pyler 9	X	X
Color	X	X
TP	X	X

1	Upper Flambeau Surface	3-22-16	8:16								X											
2	Upper Flambeau Bottom		"																			
3	Lower Flambeau Surf		9:44																			
4	Lower Flambeau Bottom		"																			
5	Pixley Surface		11:07																			
6	Pixley Bottom		"																			
7	Crowley Surface		12:30																			
8	Crowley Bottom		"																			
9	Winter Surface		14:21																			
10	Clam River Surface	3/23	12:44																			
11	Clam River Bottom	"	"																			

Relinquished by: _____

Date: _____ Time: _____

Received by: _____

Date: **3-24-16** Time: **9:17**

Relinquished by: **[Signature]**

Date: **3-24-16** Time: **9:50**

Received by: **[Signature]**

Comments / Sample temperature on receipt: **1.4**

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

Job # (WWA office use): 62079

CHAIN-OF-CUSTODY RECORD



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: _____
 ADDRESS: _____
 TELEPHONE: _____
 CONTRACT / PO / PROJECT NAME / WSSN#: _____
 COUNTY OF LOCATION: **Monitoring**
 PAGE: **2 OF 2**
 INDICATE IF MORE THAN ONE PAGE OF COC RECORDS USED

SAMPLER NAME (print first/last name): **Angie Spina**
 SIGNATURE: *Angie Spina*

SAMPLER'S SIGNATURE: *[Signature]*

ANALYSIS TYPE REQUESTED (Attach list if needed)

ANALYSIS TYPE REQUESTED	Color	TP	Chlorophyll a																
	X	X	X																
		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.

12 Danbury Surface 3/23/16 14:45
 13 Danbury Bottom " "

Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.

SAMPLE MATRIX	CONTAINERS / PRESERVATIVES								Total Number of Containers				
	Drinking water	Aqueous	Sed.	Soil	Other	None	H2SO4	HNO3		HCl	NaOH	ZnAc/NaOH	Na Thio
	X					X							3
	X					X							1

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

Relinquished by: *[Signature]* Date: **3-24-16** Time: **9:41** Received by: *[Signature]* Date: **3-24-16** Time: **9:50**

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



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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

**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



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)



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)



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

Job # (WWA office use): 64453

CHAIN-OF-CUSTODY RECORD

CLIENT NAME / BILL TO: RWE
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP: _____
 CONTRACT / PO / PROJECT NAME / WSSN#: _____
 COUNTY OF LOCATION: Monterey PAGE: 1 OF 1
 SAMPLER NAME (print first/last name): STEVE HAAG
 SAMPLER'S SIGNATURE: 



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 Containers for each sample may be combined on one line.	DATE	TIME	SAMPLE MATRIX							Total Number of Containers	ANALYSIS TYPE REQUESTED (Attach list if needed)	REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)			
			Drinking water	Aqueous	Sed	Soil	Other	None	H2SO4				HNO3	HCl	NaOH
1 Upper Flambeau Surface	7-19-16	8:00	X						X					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.)
2 Upper Flambeau Bottom	7-19-16	8:10							X					X	
3 Lower Flambeau Surface	7-19-16	9:09							X					X	
4 Lower Flambeau Bottom	7-19-16	9:08							X					X	
5 Pixley Surface	7-19-16	11:26							X					X	
6 Pixley Bottom	7-19-16	11:27							X					X	
7 Crowley Surface	7-19-16	13:25							X					X	
8 Crowley Bottom	7-19-16	13:27							X					X	
9 Winter Surface	7-18-16	14:00							X					X	
10 Clam River Surface	7-20-16	10:15							X					X	
11 Clam River Bottom	7-20-16	10:20							X					X	
12 Dunsbury Surface	7-20-16	12:34							X					X	
13 Dunsbury Bottom	7-20-16	12:36							X					X	

Relinquished by: _____ Date: 7/20/16 Time: 18:12
 Received by: an al w Date: 7-21-16 Time: 1:50
 Comments / Sample temperature on receipt: _____

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

**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



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
65014-001 / 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)



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Client: RWE

WWA Job #: 65014

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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



WHITE WATER ASSOCIATES, INC.

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 <i>RWE</i>		EMAIL ADDRESS														
ADDRESS		TELEPHONE														
CITY	STATE	ZIP	CONTRACT / PO / PROJECT NAME / WSSN# <i>Monitoring</i>													
SAMPLER NAME (print first/last name) <i>Steve Haag</i>			PAGE <i>1</i> OF <i>1</i> <small>Indicate if more than one page of COC records used</small>													
SAMPLER'S SIGNATURE 		Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.														
SAMPLE ID AND LOCATION <small>Containers for each sample may be combined on one line.</small>	DATE	TIME	CONTAINERS / PRESERVATIVES											Total Number of Containers		
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Na Thio	
1 Upper Flambeau Surface	8-18-16	7:58									X					3
2 Upper Flambeau Bottom	8-18-16	7:59														1
3 Lower Flambeau Surface	8-18-16	9:44														3
4 Lower Flambeau Bottom	8-18-16	9:45														1
5 Pixley Surface	8-18-16	11:10														3
6 Pixley Bottom	8-18-16	11:12														1
7 Crowley Surface	8-18-16	12:59														3
8 Crowley Bottom	8-18-16	13:00														1
9 Water Surface	8-16-16	13:07														3
10 Chambers Surface	8-17-16	10:28														3
11 Chimney Bottom	8-17-16	10:29														1
12 Dumbury Surface	8-17-16	13:06														3
13 Dumbury Bottom	8-17-16	13:08														1

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.)

ANALYSIS TYPE REQUESTED (Attach list if needed)			Date:	Time:	Comments / Sample temperature on receipt:
Chlorophyll a (mg/L)	X	X	8-18-16	16:15	
Total Phos (mg/L)	X	X	8-19-16	11:07	3.7
Color	X	X			

Document Content(s)

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