

Draft Report

2007 Water Quality Monitoring Data

for the

Flambeau (Lower) Hydroelectric Project

FERC Project #2421

Flambeau Hydro, LLC

North Fork of the Flambeau River, Price County, Wisconsin

Respectfully Submitted by:

North American Hydro Holdings, Inc.

116 North State Street

Neshkoro, Wisconsin 54960

Draft – November 7, 2007

Table of Contents

I.	Summary	2
II.	2007 Sampling Results Table	3
III.	2007 Temperature and Dissolved Oxygen Sampling Event Graphs	4
IV.	2007 Monthly Temperature and Precipitation Table	5
V.	2007 Flambeau Lower Sampling Comparison Table	6
VI.	Monitoring Plan Synopsis & Design	7 - 10
VII.	Sampling Location Map.....	11
	APPENDIX A - April 18, 2007 Sampling Documents	12
	APPENDIX B - July 17, 2007 Sampling Documents.....	13
	APPENDIX C - August 08, 2007 Sampling Documents	14
	APPENDIX D - Agency Correspondence.....	15

Summary

2007 marked the fourth year of water quality sampling under the FERC approved "Water Quality Monitoring Plan Per License Article 406 for the Flambeau (Lower) Hydroelectric Project – FERC Project # 2421 – Flambeau Hydro, LLC".

Ice-Out occurred between Agenda and Nine Mile Landing on the North Fork of the Flambeau River during the later part of the first week in April 2007. The Ice-Out sampling event occurred on April 18, 2007. River flow, based on Flambeau (Lower) Hydroelectric Project records, was approximately 398 cubic feet per second. Sampling occurred between 10:30 am and 10:57 am. 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 April 20, 2007. Northern Lake Service, Inc. issued a laboratory report on April 26, 2007. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on Flambeau (Lower) Hydroelectric Project records, was approximately 264 cubic feet per second during the July 17, 2007 sampling event. Sampling occurred between 10:30 am and 11:08 am. Samples were taken without incident. Samples for laboratory analysis were delivered to Northern Lake Service, Inc in Crandon, WI on July 19, 2007. Northern Lake Service, Inc issued a laboratory report on July 24, 2007. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on Flambeau (Lower) Hydroelectric Project records, was approximately 260 cubic feet per second during the August 08, 2007 sampling event. Sampling occurred between 10:00 am and 11:03 am. 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 10, 2007. Northern Lake Service, Inc issued a laboratory report on August 21, 2007. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

In general, the weather (temperature and precipitation) received over the summer months was not normal. Temperatures were slightly warmer than normal. Precipitation was 15% higher in April but 47% and 55% lower in July and August. **(Refer to 2007 Monthly Temperature and Precipitation Table page 5)**

A summary of a comparison between the 2006 and 2007 **(Refer to 2007 Flambeau Lower Project Sampling Comparison Table 2006-2007 page 6)** sampling results are as follows:

1. Water Clarity improved in 2007 over 2006
2. Chlorophyll a (2007) was slightly higher in April and significantly lower in July and August than 2006
3. Color and Total Phosphorus showed similar results to 2006
4. Overall, D.O. declined slightly in 2007 over the 2006 survey
5. Water Temperatures in 2007 were somewhat colder in April & July and slightly warmer in August than in 2006

**2007
Sampling Results
Table**

Flambeau (Lower) Hydroelectric Project - FERC Project # 2421 2007 Water Quality Sampling Data

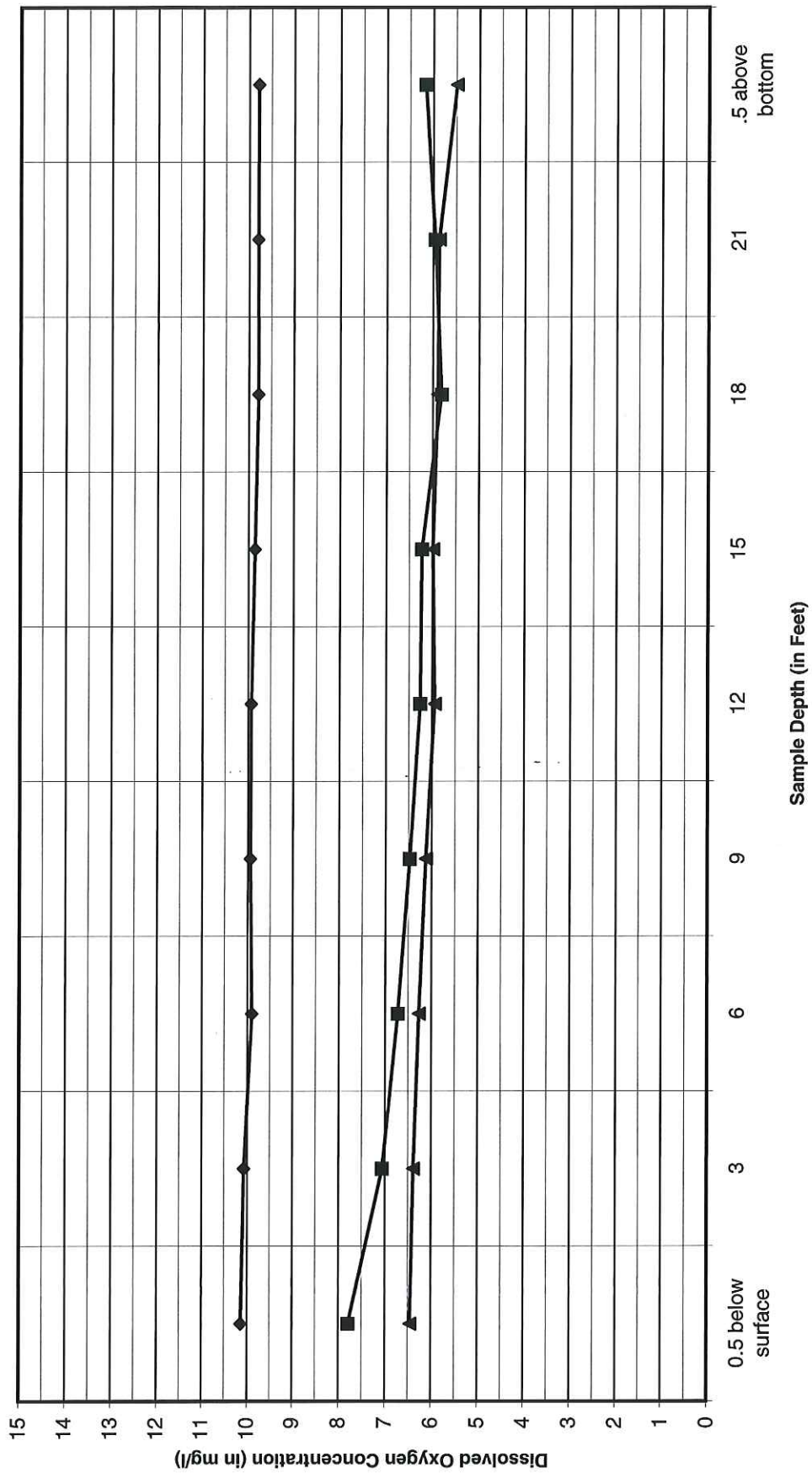
	April 18, 2007	July 17, 2007	August 8, 2007																																																																																										
Project Flow (c.f.s.)	398	264	291																																																																																										
Dissolved Oxygen	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>D.O. (mg/L)</th> <th>Water Temp. (°C)</th> </tr> </thead> <tbody> <tr><td>10:43 AM</td><td>10.13</td><td>8.9</td></tr> <tr><td>10:45 AM</td><td>10.07</td><td>8.9</td></tr> <tr><td>10:46 AM</td><td>9.90</td><td>8.8</td></tr> <tr><td>10:47 AM</td><td>9.94</td><td>8.8</td></tr> <tr><td>10:48 AM</td><td>9.93</td><td>8.8</td></tr> <tr><td>10:54 AM</td><td>9.85</td><td>9.1</td></tr> <tr><td>10:55 AM</td><td>9.78</td><td>8.8</td></tr> <tr><td>10:56 AM</td><td>9.79</td><td>8.8</td></tr> <tr><td>10:57 AM</td><td>9.78</td><td>8.8</td></tr> </tbody> </table>	Time	D.O. (mg/L)	Water Temp. (°C)	10:43 AM	10.13	8.9	10:45 AM	10.07	8.9	10:46 AM	9.90	8.8	10:47 AM	9.94	8.8	10:48 AM	9.93	8.8	10:54 AM	9.85	9.1	10:55 AM	9.78	8.8	10:56 AM	9.79	8.8	10:57 AM	9.78	8.8	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>D.O. (mg/L)</th> <th>Water Temp. (°C)</th> </tr> </thead> <tbody> <tr><td>10:46 AM</td><td>7.79</td><td>24.1</td></tr> <tr><td>10:47 AM</td><td>7.06</td><td>22.9</td></tr> <tr><td>10:48 AM</td><td>6.72</td><td>22.3</td></tr> <tr><td>10:55 AM</td><td>6.47</td><td>21.9</td></tr> <tr><td>10:56 AM</td><td>6.25</td><td>21.8</td></tr> <tr><td>10:57 AM</td><td>6.22</td><td>21.8</td></tr> <tr><td>10:58 AM</td><td>5.81</td><td>21.7</td></tr> <tr><td>11:05 AM</td><td>10:48 PM</td><td>21.8</td></tr> <tr><td>11:08 AM</td><td>6.16</td><td>21.7</td></tr> </tbody> </table>	Time	D.O. (mg/L)	Water Temp. (°C)	10:46 AM	7.79	24.1	10:47 AM	7.06	22.9	10:48 AM	6.72	22.3	10:55 AM	6.47	21.9	10:56 AM	6.25	21.8	10:57 AM	6.22	21.8	10:58 AM	5.81	21.7	11:05 AM	10:48 PM	21.8	11:08 AM	6.16	21.7	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>D.O. (mg/L)</th> <th>Water Temp. (°C)</th> </tr> </thead> <tbody> <tr><td>10:37 AM</td><td>6.45</td><td>25.6</td></tr> <tr><td>10:38 AM</td><td>6.38</td><td>25.1</td></tr> <tr><td>10:39 AM</td><td>6.26</td><td>24.9</td></tr> <tr><td>10:40 AM</td><td>6.12</td><td>24.7</td></tr> <tr><td>10:41 AM</td><td>5.94</td><td>24.6</td></tr> <tr><td>10:55 AM</td><td>5.99</td><td>24.5</td></tr> <tr><td>10:56 AM</td><td>5.89</td><td>24.5</td></tr> <tr><td>10:57 AM</td><td>5.87</td><td>24.5</td></tr> <tr><td>11:03 AM</td><td>5.49</td><td>24.5</td></tr> </tbody> </table>	Time	D.O. (mg/L)	Water Temp. (°C)	10:37 AM	6.45	25.6	10:38 AM	6.38	25.1	10:39 AM	6.26	24.9	10:40 AM	6.12	24.7	10:41 AM	5.94	24.6	10:55 AM	5.99	24.5	10:56 AM	5.89	24.5	10:57 AM	5.87	24.5	11:03 AM	5.49	24.5
Time	D.O. (mg/L)	Water Temp. (°C)																																																																																											
10:43 AM	10.13	8.9																																																																																											
10:45 AM	10.07	8.9																																																																																											
10:46 AM	9.90	8.8																																																																																											
10:47 AM	9.94	8.8																																																																																											
10:48 AM	9.93	8.8																																																																																											
10:54 AM	9.85	9.1																																																																																											
10:55 AM	9.78	8.8																																																																																											
10:56 AM	9.79	8.8																																																																																											
10:57 AM	9.78	8.8																																																																																											
Time	D.O. (mg/L)	Water Temp. (°C)																																																																																											
10:46 AM	7.79	24.1																																																																																											
10:47 AM	7.06	22.9																																																																																											
10:48 AM	6.72	22.3																																																																																											
10:55 AM	6.47	21.9																																																																																											
10:56 AM	6.25	21.8																																																																																											
10:57 AM	6.22	21.8																																																																																											
10:58 AM	5.81	21.7																																																																																											
11:05 AM	10:48 PM	21.8																																																																																											
11:08 AM	6.16	21.7																																																																																											
Time	D.O. (mg/L)	Water Temp. (°C)																																																																																											
10:37 AM	6.45	25.6																																																																																											
10:38 AM	6.38	25.1																																																																																											
10:39 AM	6.26	24.9																																																																																											
10:40 AM	6.12	24.7																																																																																											
10:41 AM	5.94	24.6																																																																																											
10:55 AM	5.99	24.5																																																																																											
10:56 AM	5.89	24.5																																																																																											
10:57 AM	5.87	24.5																																																																																											
11:03 AM	5.49	24.5																																																																																											
Secchi Disk Feet below surface	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Depth (ft)</th> </tr> </thead> <tbody> <tr><td>10:30 AM</td><td>5.00</td></tr> </tbody> </table>	Time	Depth (ft)	10:30 AM	5.00	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Depth (ft)</th> </tr> </thead> <tbody> <tr><td>10:45 AM</td><td>4.50</td></tr> </tbody> </table>	Time	Depth (ft)	10:45 AM	4.50	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>Depth (ft)</th> </tr> </thead> <tbody> <tr><td>10:05 AM</td><td>4.90</td></tr> </tbody> </table>	Time	Depth (ft)	10:05 AM	4.90																																																																														
Time	Depth (ft)																																																																																												
10:30 AM	5.00																																																																																												
Time	Depth (ft)																																																																																												
10:45 AM	4.50																																																																																												
Time	Depth (ft)																																																																																												
10:05 AM	4.90																																																																																												
Chlorophyll a 3 feet below surface	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>ug/L</th> </tr> </thead> <tbody> <tr><td>10:32 AM</td><td>3.60</td></tr> </tbody> </table>	Time	ug/L	10:32 AM	3.60	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>ug/L</th> </tr> </thead> <tbody> <tr><td>10:30 AM</td><td>2.70</td></tr> </tbody> </table>	Time	ug/L	10:30 AM	2.70	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>ug/L</th> </tr> </thead> <tbody> <tr><td>10:07 AM</td><td>5.50</td></tr> </tbody> </table>	Time	ug/L	10:07 AM	5.50																																																																														
Time	ug/L																																																																																												
10:32 AM	3.60																																																																																												
Time	ug/L																																																																																												
10:30 AM	2.70																																																																																												
Time	ug/L																																																																																												
10:07 AM	5.50																																																																																												
Color (True) 3 feet below surface	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>C.P.U. Units</th> <th>LOD</th> </tr> </thead> <tbody> <tr><td>10:33 AM</td><td>100.0</td><td>10*</td></tr> </tbody> </table>	Time	C.P.U. Units	LOD	10:33 AM	100.0	10*	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>C.P.U. Units</th> <th>LOD</th> </tr> </thead> <tbody> <tr><td>10:31 AM</td><td>60.0</td><td>5.0*</td></tr> </tbody> </table>	Time	C.P.U. Units	LOD	10:31 AM	60.0	5.0*	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>C.P.U. Units</th> <th>LOD</th> </tr> </thead> <tbody> <tr><td>10:09 AM</td><td>50.0</td><td>5.0*</td></tr> </tbody> </table>	Time	C.P.U. Units	LOD	10:09 AM	50.0	5.0*																																																																								
Time	C.P.U. Units	LOD																																																																																											
10:33 AM	100.0	10*																																																																																											
Time	C.P.U. Units	LOD																																																																																											
10:31 AM	60.0	5.0*																																																																																											
Time	C.P.U. Units	LOD																																																																																											
10:09 AM	50.0	5.0*																																																																																											
Total Phosphorus 3 feet below surface 3 feet above bottom	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>mg/L</th> <th>LOD</th> </tr> </thead> <tbody> <tr><td>10:35 AM</td><td>0.044</td><td>.0070*</td></tr> <tr><td>10:36 AM</td><td>0.042</td><td>.0070*</td></tr> </tbody> </table>	Time	mg/L	LOD	10:35 AM	0.044	.0070*	10:36 AM	0.042	.0070*	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>mg/L</th> <th>LOD</th> </tr> </thead> <tbody> <tr><td>10:32 AM</td><td>0.057</td><td>.0070*</td></tr> <tr><td>10:34 AM</td><td>0.062</td><td>.0070*</td></tr> </tbody> </table>	Time	mg/L	LOD	10:32 AM	0.057	.0070*	10:34 AM	0.062	.0070*	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>mg/L</th> <th>LOD</th> </tr> </thead> <tbody> <tr><td>10:10 AM</td><td>0.062</td><td>.0070*</td></tr> <tr><td>10:12 AM</td><td>0.059</td><td>.0070*</td></tr> </tbody> </table>	Time	mg/L	LOD	10:10 AM	0.062	.0070*	10:12 AM	0.059	.0070*																																																															
Time	mg/L	LOD																																																																																											
10:35 AM	0.044	.0070*																																																																																											
10:36 AM	0.042	.0070*																																																																																											
Time	mg/L	LOD																																																																																											
10:32 AM	0.057	.0070*																																																																																											
10:34 AM	0.062	.0070*																																																																																											
Time	mg/L	LOD																																																																																											
10:10 AM	0.062	.0070*																																																																																											
10:12 AM	0.059	.0070*																																																																																											

* Considered Reporting Limits

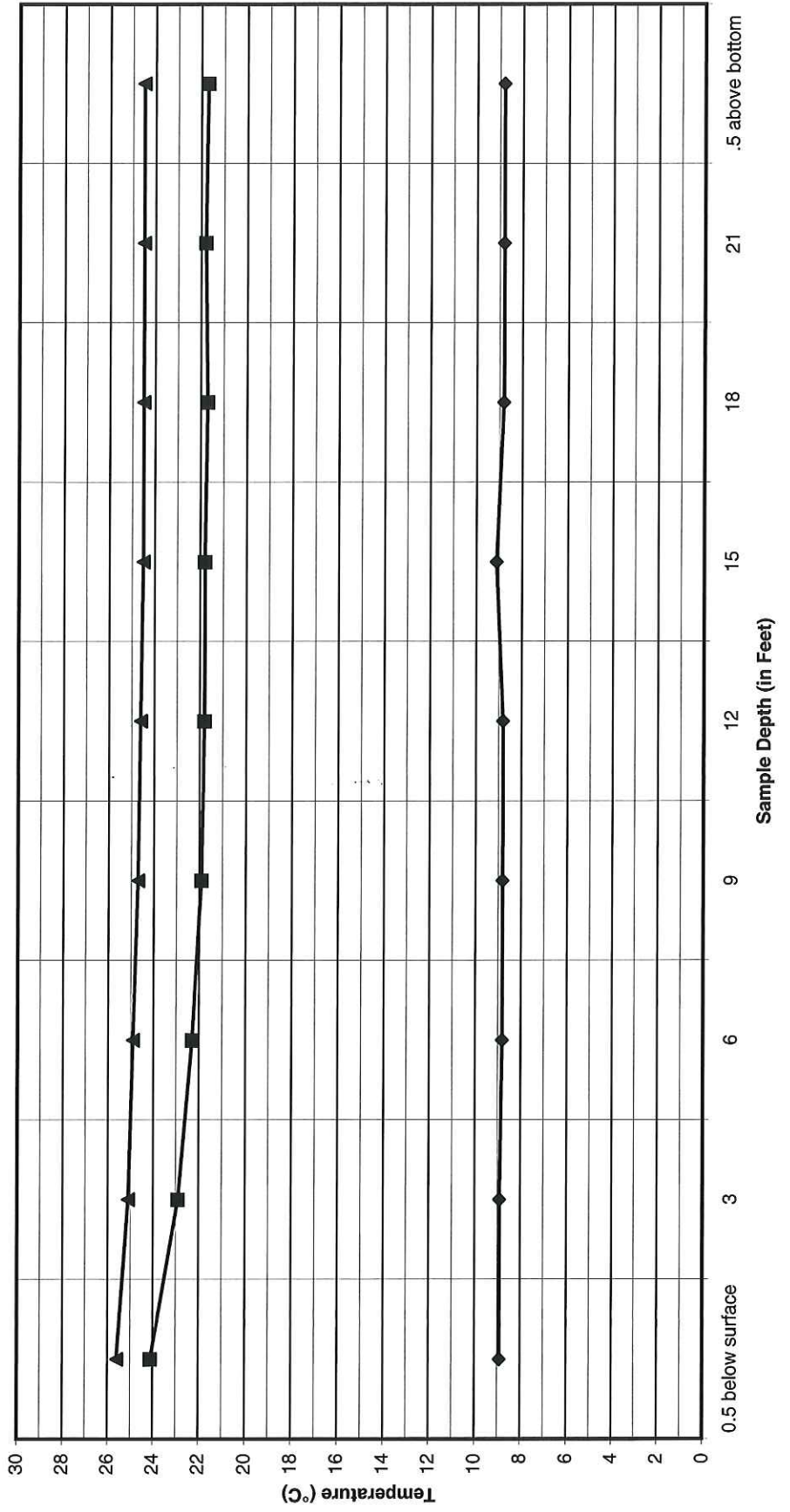
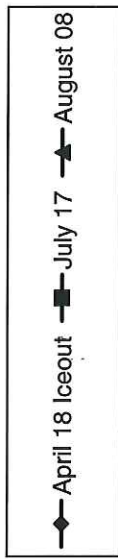
**2007
Temperature
and
Dissolved Oxygen
Graphs**

**Lower Impoundment - FERC # 2421
2007 Dissolved Oxygen Samples**

◆ April 18 Iceout ■ July 17 ▲ August 08



Lower Impoundment - FERC # 2421
2007 Temperature Samples



2007
Monthly Temperature
and
Precipitation
Table

2007 Water Year Monthly Temperature and Precipitation for Park Falls, 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-06	77	19	39.8	-0.7	777	682	1.78	4.1	2.46	72%
November-06	58	2	31.8	3.8	988	1124	1.22	4.0	4.90	25%
December-06	41	-7	23.8	9.8	1267	1587	1.22	10.1	0.94	130%
January-07	35	-12	13.7	5.3	1582	1771	0.20	4.5	1.12	18%
February-07	41	-25	7.9	-6.9	1592	1422	1.49	19.7	0.83	56%
March-07	72	-10	29.4	4.0	1094	1244	2.49	25.5	3.29	76%
April-07	76	5	38.8	-0.2	778	787	2.22	12.7	2.09	106%
May-07	86	31	53.9	2.1	348	421	3.39	0.1	2.95	115%
June-07	85	41	63.0	3.1	100	180	2.67	0.0	4.25	63%
July-07	88	44	67.4	1.9	60	69	1.88	0.0	4.20	45%
August-07	88	44	65.1	1.4	63	106	1.39	0.0	4.22	33%
September-07	88	28	57.4	2.7	254	331	4.38	0.0	4.13	94%

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

**2007
Flambeau Lower
Project Sampling Comparison Table
2006—2007**

**2007
Flambeau Lower
Project Sampling Comparison Table
To Previous Year**

Year	Month	Secchi Disk Depth (ft)	Chlorophyll a ug/l	Color (True) C.P.U. Units	Total Phosphorus Below Surface mg/l	Total Phosphorus Above Bottom mg/l	Lowest D.O. mg/l	Highest D.O. mg/l	Lowest Water Temp. °C	Highest Water Temp. °C
2006	April	3.8	2.4	150	.047	.045	10.0	10.20	9.0	9.6
2007	April	5.0	3.6	100	.044	.042	9.78	10.13	8.8	9.1
2006	July	4.5	5.7	50	.050	.160	5.60	6.16	25.8	26.0
2007	July	4.5	2.7	60	.057	.062	5.81	7.79	21.7	24.1
2006	August	3.0	9.7	70	.055	.051	6.26	7.32	22.6	22.8
2007	August	4.9	5.5	50	.062	.059	5.49	6.45	25.6	24.5

**Water Quality Monitoring Plan
Per License Article 406**

for the

**Lower Hydroelectric Project
FERC # 2421
Flambeau Hydro, LLC**

Flambeau River, Price County, Wisconsin

Requirement for Studies

The Federal Energy Regulatory Commission (FERC), has stipulated as a requirement of the Flambeau (Lower) Hydroelectric Project License (Article 406), issued February 5, 1997, that "the licensee shall, after consultation with the Wisconsin Department of Natural Resources (Wisconsin DNR) file with the Commission, for approval, a plan to monitor: (1) water clarity; (2) phosphorus; (3) chlorophyll a; (4) water temperature; and (5) dissolved oxygen in the Lower Project impoundment monthly from June 1 through August 31.

The monitoring plan shall include a schedule for: (2.) implementation of the program; (2) consultation with the Wisconsin DNR concerning the results of the monitoring; and (3) filing the results, agency comments, and licensee's response to agency comments with the Commission.

The licensee shall include with the plan documentation of consultation, copies of comments and recommendations on the completed plan after it has been prepared and provided to the agency, and specific descriptions of how the agency's comments are accommodated by the plan. The licensee shall allow a minimum of 30 days for the agency to comment and to make recommendations before filing the plan with the Commission. If the licensee does not adopt a recommendation, the filing shall include the licensee's reasons, based on project-specific information. The Commission reserves the right to require changes to the plan. Upon Commission approval, the licensee shall implement the plan, including any changes required by the Commission."

The Commission's May 4, 1998 "Order on Hearing of Orders Issuing New Licenses and Orders Issuing Subsequent Licenses" modified Article 406, at the request of the Wisconsin Department of Natural Resources, to require sampling at "iceout" in March or April and monthly in July and August.

Purpose of Studies

The purpose of these water quality studies shall be to establish a long-term database of water quality measurements in order to document the trophic state, dissolved oxygen concentration and any stratification of the Flambeau (Lower) Project impoundment at the time and location of sampling events.

Study Sampling Periods

The Wisconsin Department of Natural Resources has requested that annual water quality sampling studies consist of one grab sampling event during Spring "ice-out", one grab sampling event during the month of July, and one grab sampling event during the month of August at one WDNR approved sampling location on the Project impoundment.

Each water quality sampling study shall consist of three (3) sampling events each year. One (1) grab sampling event will be conducted during the Spring "ice-out" of the Flambeau (Upper) Project impoundment. ("Ice-out" shall be defined as the 14-day period following the breakup or melting of impoundment surface ice, resulting in the continuous exposure of 95% or more ice-free impoundment surface area). One (1) grab sampling event will be conducted during the month of July. One (1) grab sampling event will be conducted during the month of August. July and August sampling will be scheduled to provide at least 21 days separation between events.

Water quality sampling studies will be conducted each year following Commission approval of this Plan through the term of the license.

Sampling Design

Monitoring Parameters:

1. Water Clarity
2. Phosphorus
3. Chlorophyll a
4. Water Temperature
5. Dissolved Oxygen Concentration
6. True Color

Sampling Protocol

Prior to initial water quality study implementation, a reconnaissance of the impoundment will be performed to establish one (1) permanent sampling location that is representative of the maximum depth in the impoundment's main channel area and which can be easily located during subsequent sampling events and studies.

Access to the sampling location will be accomplished using a boat. Sampling personnel will carefully approach the established sampling location in order to mitigate any disruption within the water column at the sampling location. Sampling personnel will carefully deploy one or more anchor(s), minimizing any disruption of the water column or bottom sediments, in order to secure the boat over the established sampling location.

Sampling equipment will be cleaned and decontaminated with distilled water and, if appropriate, calibrated prior to sampling. Single-use laboratory sample containers and media will be obtained from the Wisconsin State Certified Laboratory selected to perform sample analysis or a reputable laboratory supply company.

Sampling personnel will complete a pre-printed customized Impoundment Sampling Log form to manually record sampling data and other pertinent information regarding each sampling event. Field sample handling procedures will be consistent with methods outlined in "Standard Methods for the Examination of Water and Wastewater", 20th Edition (1998).^[1]

Water clarity per sampling event will be measured visually within one tenth (0.1) foot tolerance by sampling personnel employing a Secchi disk. Sampling personnel will record resulting Secchi disk time and depth data on the Impoundment Sampling Log form.

Two (2) Phosphorus grab samples per sampling event will be collected using a horizontal water sampler. One (1) sample will be collected three (3) feet below the impoundment's surface and one (1) sample will be collected three (3) feet above the impoundment's bottom. Each sample will be transferred to an appropriate sample container, preserved, appropriately labeled, and the container stored on ice in a portable cooler for laboratory analysis.

Sampling personnel will record collection times and sample preservation verification on the Impoundment Sampling Log form.

One (1) Chlorophyll a grab sample per sampling event will be obtained from water collected three (3) feet below the impoundment's surface using a horizontal water sampler. Water clarity will be calculated to determine the proper quantity of collected water to be filtered based on the following Secchi disk depth results:

Secchi Depth (in feet)	Water to filter (in ml)
Less than 1 foot	50
1.00 to 1.50 feet	100
1.50 to 2.25 feet	200
2.25 to 3.25 feet	300
3.25 to 6.00 feet	500
6.00 to 9.75 feet	800
9.75 to 16.50 feet	1000
Greater than 16.5 feet	1500

Collected water will be measured and filtered if required by the selected Wisconsin State Certified Laboratory providing analytical analysis. The sample will be transferred to an appropriate sample container, appropriately labeled, and the container stored on ice in a portable

cooler for laboratory analysis. Sampling personnel will record the collection time and water sample quantity in the appropriate areas on the Impoundment Sampling Log form.

Water temperature will be sampled at three (3) foot vertical intervals from the surface to the bottom of the sample location water column per sampling event. Additionally, one (1) sample will be measured one half (0.5) foot below the impoundment surface and one (1) sample will be measured one half (0.5) foot above the bottom of the impoundment at the sample location. In the event that measured D.O. drops below the State minimum standard of 5.0 mg/l, sampling personnel will determine the water temperature at which 5.0 mg/l occurs. Water temperature sampling will be measured at (1) foot vertical intervals in the water column where measured D.O. falls below 5.0 mg/l. Sampling personnel will record resulting sample data in appropriate areas on the Impoundment Sampling Log form.

Dissolved Oxygen (D.O.) concentration will be sampled at three (3) foot vertical intervals from the surface to the bottom of the sample location water column per sampling event. Additionally, one (1) sample will be measured one half (0.5) foot below the impoundment surface and one (1) sample will be measured one half (0.5) foot above the bottom of the impoundment at the sample location.

In the event that measured D.O. drops below the State minimum standard of 5.0 mg/l, sampling personnel will determine the depth at which 5.0 mg/l occurs. D.O. sampling will be measured at (1) foot vertical intervals in the water column where measured D.O. falls below 5.0 mg/l. Sampling personnel will record resulting sample data in appropriate areas on the Impoundment Sampling Log form.

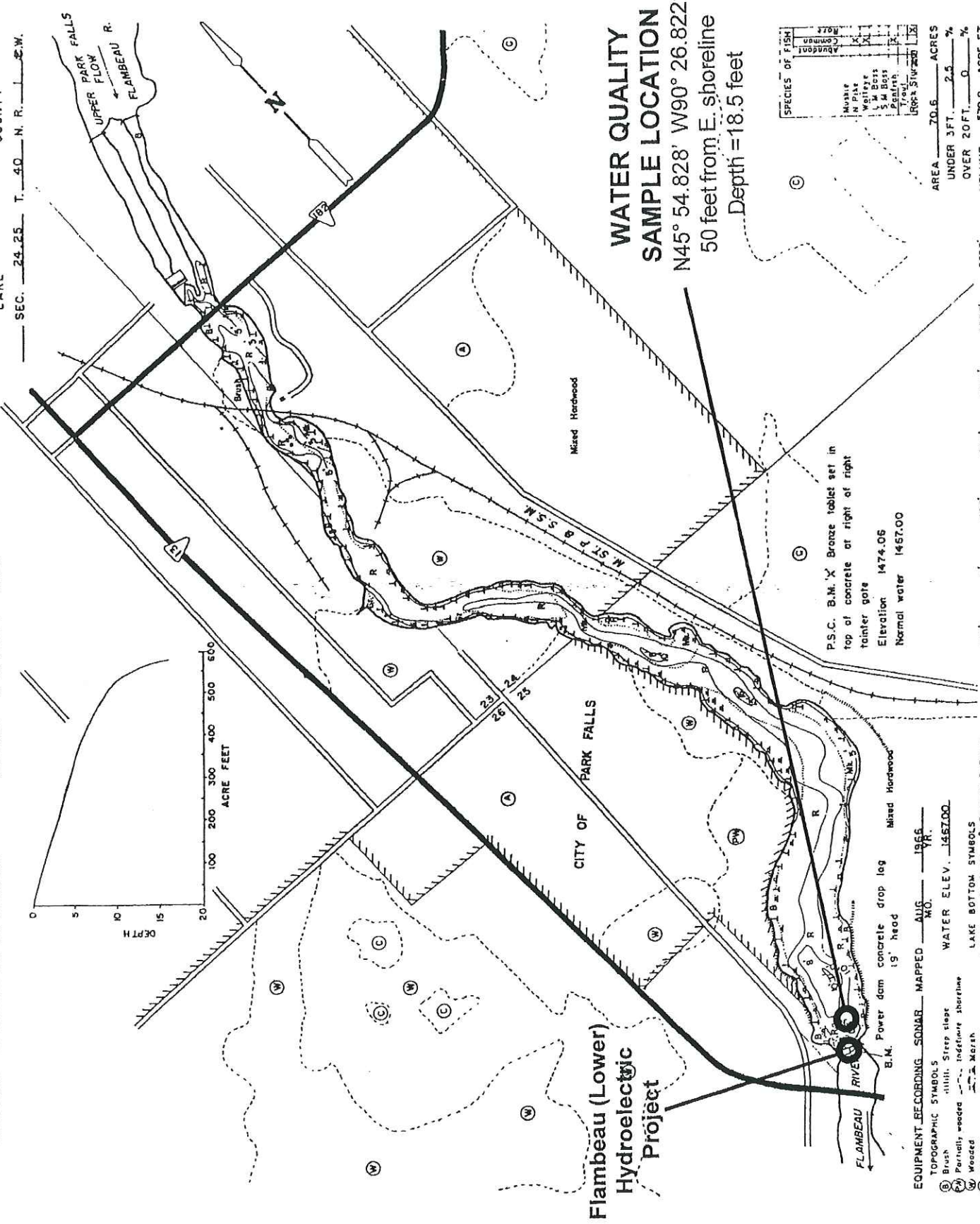
One (1) True Color grab sample per sampling event will be obtained from water collected three (3) feet below the impoundment's surface using a horizontal water sampler. The sample will be transferred to an appropriate sample container, appropriately labeled, and the container stored on ice in a portable cooler for laboratory analysis. Sampling personnel will record the collection time and water sample quantity on the Impoundment Sampling Log form.

Sampling personnel will deliver and/or ship Phosphorus, Chlorophyll a and True Color samples, observing accepted handling and chain-of-custody methods, to a selected Wisconsin State Certified Laboratory at the conclusion of sampling activities for the sample event.

Lower Impoundment

Sampling Location

Map



**WATER QUALITY
 SAMPLE LOCATION**
 N45° 54.828' W90° 26.822'
 50 feet from E. shoreline
 Depth = 18.5 feet

SPECIES OF FISH	
Abundant	Common
Bluegill	✓
Crappie	✓
Rock Bass	✓
Trout	✓
Walleye	✓
Whitefish	✓
Yellow Perch	✓
Other Species	None

AREA	70.6	ACRES
UNDER 3 FT.	2.5	%
OVER 20 FT.	0	%
VOLUME	570.9	ACRE FT.
TOTAL ALK.	36	P.P.M.
SHORELINE	4.2	MILES
MAX. DEPTH	18	FEET

P.S.C. B.M. 'X' Bronze tablet set in top of concrete at right of right tainter gate
 Elevation 1474.06
 Normal water 1467.00

- EQUIPMENT RECORDING SONAR MAPPED AUG. 1966
 WATER ELEV. 1467.00
- TOPOGRAPHIC SYMBOLS**
- Brush
 - Shrub
 - Slack floor
 - Indefinite shoreline
 - Partially wooded
 - Marsh
 - Cleared
 - Spring
 - Postured
 - Agricultural
 - B.M. Bench Mark
 - Dwelling
 - Road
- LAKE BOTTOM SYMBOLS**
- P Prof
 - Gr Gravel
 - S Stumps & Snags
 - Ma-Mud
 - R Rubble
 - B Boulder
 - C-Clay
 - Br. Bedrock
 - M-Mat
 - T Submerged vegetation
 - Sd Sand
 - Silt
 - Floating vegetation

Scale: 0' 500' 1000' 1500' 2000' 2500'

Access with Parking
 Access
 Boat Livery
 Field work by L. Schaefer, C. Busch, G. Winter
 Drawn by C. Hall

**Flambeau (Lower)
 Hydroelectric
 Project**

Appendix A

April 18, 2007 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2007 Water Quality Study - Flambeau (Lower) Hydroelectric Project - FERC #2421

Date: 4-18-07

Pre-Sampling Data:

Time: 10:30 AM Barometer: 30.10 Air Temp: 9 °C Wind Speed: N 9 MPH

Sky Conditions: CLEAR + SUNNY SKIES

Precipitation within Last 24 Hours: NO

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

D.O. Membrane Changed in Last 24 Hours? Yes No If Yes, Time Changed: N/A

Battery Status: NEW volts

Calibration Time: N/A Method: FACTORY (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 22.2 feet

Secchi Disk Depth: (±0.1 foot): 5.0 feet. Time: 10:30 AM

Chlorophyll a (3 feet below surface)

Lab Sample I.D. #: <u>20070418-2A</u>		
Time	Quantity (ml)	Filtered
<u>10:32 AM</u>	<u>1000</u>	<u>NO</u>

True Color (3 feet below surface)

Lab Sample I.D. #: <u>20070418-2D</u>	
Time	Quantity (ml)
<u>10:33 AM</u>	<u>250</u>

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
0.5 feet below surface	<u>10:43</u>	<u>10.13</u>	<u>8.9</u>
3 feet	<u>10:45</u>	<u>10.07</u>	<u>8.9</u>
6 feet	<u>10:46</u>	<u>9.9</u>	<u>8.8</u>
9 feet	<u>10:47</u>	<u>9.94</u>	<u>8.8</u>
12 feet	<u>10:48</u>	<u>9.93</u>	<u>8.8</u>
15 feet	<u>10:54</u>	<u>9.85</u>	<u>9.1</u>
18 feet	<u>10:55</u>	<u>9.78</u>	<u>8.8</u>
21 feet	<u>10:56</u>	<u>9.79</u>	<u>8.8</u>
24 feet			
0.5 feet above bottom	<u>10:57</u>	<u>9.86</u>	<u>8.8</u>

Phosphorus

Lab Sample I.D. #: <u>20070418-2B</u>	
(3 feet below surface)	
Time	Preserved?
<u>10:35 AM</u>	<u>H₂SO₄</u>

Lab Sample I.D. #: <u>20070418-2C</u>	
(3 feet above bottom)	
Time	Preserved?
<u>10:36 AM</u>	<u>H₂SO₄</u>

Comments: SAMPLE LOCATION: N45°54.826' W90°26.822' (±8 FT)

Performed By: GARY RAST Gary Rast

ANALYTICAL REPORT

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

Client: North American Hydro Holdings Inc
Attn: Gary Rast
 116 North State Street
 P O Box 167
 Neshkoro, WI 54960 0167

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330
EPA Laboratory ID No. WI00034
Printed: 04/26/07 **Code:** S **Page 2 of 2**
NLS Project: 106622
NLS Customer: 93918
Fax: 920 293 8087 **Phone:** 920 293 4628


Project: Flambeau Projects

20070418 - Lower/2C NLS ID: 437695									
Ref. Line 2 COC 93933 20070418 - Lower/2C Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Phosphorus, tot. as P	0.042	Dilution	1	LOD	0.0070*	LOQ		Analyzed	04/24/07 EPA 365.2
								Method	EPA 365.2
								Lab	721026460
20070418 - Pixley/3A NLS ID: 437696									
Ref. Line 3 COC 93933 20070418 - Pixley/3A Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Chlorophyll, all species	see attached	Dilution		LOD		LOQ		Analyzed	04/25/07 10200-H
Lab filtration for Chlorophyll	yes							Method	NA
								Lab	721026460
20070418 - Pixley/3B NLS ID: 437697									
Ref. Line 3 COC 93933 20070418 - Pixley/3B Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Phosphorus, tot. as P	0.036	Dilution	1	LOD	0.0070*	LOQ		Analyzed	04/24/07 EPA 365.2
								Method	EPA 365.2
								Lab	721026460
20070418 - Pixley/3C NLS ID: 437698									
Ref. Line 3 COC 93933 20070418 - Pixley/3C Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Phosphorus, tot. as P	0.040	Dilution	1	LOD	0.0070*	LOQ		Analyzed	04/24/07 EPA 365.2
								Method	EPA 365.2
								Lab	721026460
20070418 - Crowley/4A NLS ID: 437699									
Ref. Line 4 COC 93933 20070418 - Crowley/4A Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Chlorophyll, all species	see attached	Dilution		LOD		LOQ		Analyzed	04/25/07 10200-H
Lab filtration for Chlorophyll	yes							Method	NA
								Lab	721026460
20070418 - Crowley/4B NLS ID: 437700									
Ref. Line 4 COC 93933 20070418 - Crowley/4B Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Phosphorus, tot. as P	0.039	Dilution	1	LOD	0.0070*	LOQ		Analyzed	04/24/07 EPA 365.2
								Method	EPA 365.2
								Lab	721026460
20070418 - Crowley/4C NLS ID: 437701									
Ref. Line 4 COC 93933 20070418 - Crowley/4C Matrix: SW									
Collected: 04/18/07 00:00 Received: 04/20/07									
Parameter									
Phosphorus, tot. as P	0.032	Dilution	1	LOD	0.0070*	LOQ		Analyzed	04/24/07 EPA 365.2
								Method	EPA 365.2
								Lab	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)
 DWB = Dry Weight Basis NA = Not Applicable %DWB = (mg/kg DWB) / 10000
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

1000 ug/L = 1 mg/L

Reviewed by:  R. T. Krueger
 President

Authorized by: R. T. Krueger
 President

Northern Lake Service, Inc.
Chlorophyll Results

Customer: North American Hydro Holdings Inc
Project: Flambeau Projects

Sample	Description	CC a	Pheo a	TC a	TC b	TC c
437691	20070418 - Upper/1A	4	0.59	4.5	0.37	0.69
437693	20070418 - Lower/2A	3.6	0.53	4	0.29	0.63
437696	20070418 - Pixley/3A	4.7	0.23	5	0.3	0.64
437699	20070418 - Crowley/4A	6.8	0.5	7.3	0.35	0.87

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/cm² for periphyton samplers

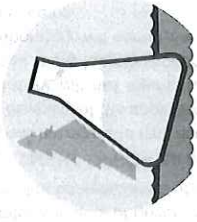
*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

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. 93933

CLIENT <i>NORTH AMERICAN HYDRO</i>		STATE <i>WI</i>	ZIP <i>54960</i>
ADDRESS <i>P.O. Box 167 116 STATE STREET</i>		QUOTATION NO.	
CITY <i>NESAKORO</i>		DNR LICENSE #	
PROJECT DESCRIPTION / NO. <i>FLAMBEAU PROTECTS</i>	PHONE <i>700-299-4608 EXT 5</i>		
FLAMBEAU PROTECTS	FAX <i>700-293-8087</i>		
CONTACT <i>GARY RAST</i>	PURCHASE ORDER NO.		

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

ANALYZE PER ORDER OF ANALYSIS

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		MATRIX (See above)	COLLECTION REMARKS (i.e. DNR Well ID #)
			DATE	TIME		
1.	47947	20070418-1000	4-18-07		ROCK WATER	
2.	137120	20070418-1000	4-18-07		"	
3.	137121	20070418-1000	4-18-07		"	
4.	137122	20070418-1000	4-18-07		"	
5.						
6.						
7.						
8.						
9.						
10.						

COLLECTED BY (signature) <i>Gary Rast</i>	DATE/TIME <i>8:00-4:00</i>
RELINQUISHED BY (signature) <i>Gary Rast</i>	DATE/TIME <i>4/18/07 5:15 PM</i>
DISPATCHED BY (signature) <i>Gary Rast</i>	DATE/TIME
CUSTODY SEAL NO. (IF ANY)	
RECEIVED BY (signature)	
METHOD OF TRANSPORT	
DATE/TIME <i>4-17-07</i>	CONDITION <i>GOOD</i>
REMARKS & OTHER INFORMATION	
WDNR FACILITY NUMBER	E-MAIL ADDRESS
COOLER #	TEMP.
PRESERVATIVE: N = nitric acid Z = zinc acetate M = methanol S = sulfuric acid	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.

REPORT TO
GARY RAST
 NORTH AMERICAN HYDRO
 P.O. Box 167
 116 STATE STREET
 NESAKORO, WI 54960

INVOICE TO
 NORTH AMERICAN HYDRO
 P.O. Box 167
 116 STATE STREET
 NESAKORO, WI 54960

Flambeau Projects Operations Log Data Water Quality Monitoring Study

April 18, 2007

Project	Total CFS	Gate CFS	Unit CFS				Unit KW	Impoundment (NGVD)	Tailwater (NGVD)	Head (feet)
---------	-----------	----------	----------	--	--	--	---------	--------------------	------------------	-------------

UPPER	486	70	416	0	458	0	N/A	1486.78	1467.28	19.5
	Enter 24 Hour Totals For KW Here >			11112	0					

LOWER	398	0	0	398	0	0	410	1467.1	1448.3	18.8
	Enter 24 Hour Totals For KW Here >			0	0	0	9800			

PIXLEY	490	0	490	0	550	0	N/A	1448.89	1427.6	21.3
	Enter 24 Hour Totals For KW Here >			13800	0					

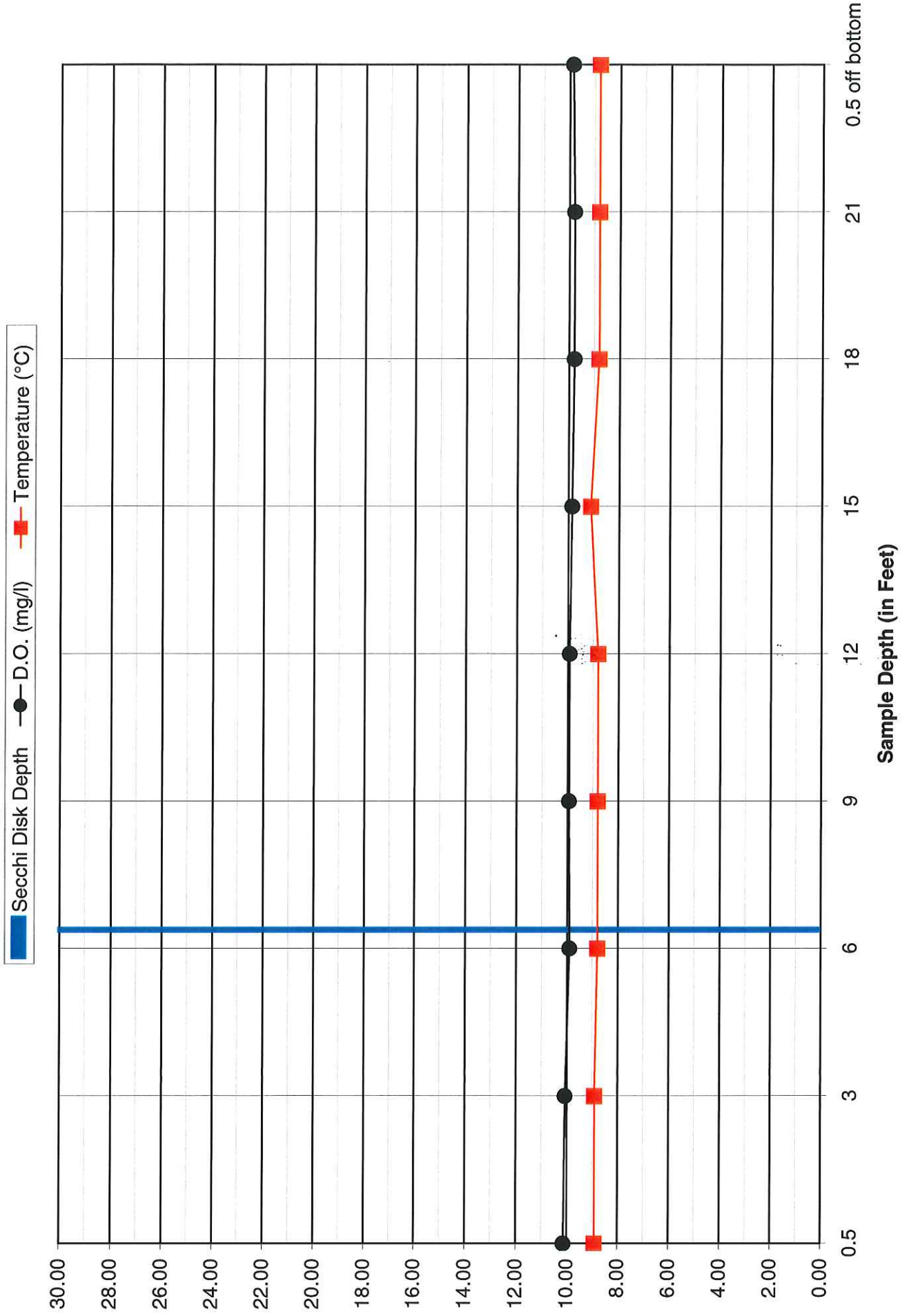
CROWLEY	490	0	0	490	0	510	N/A	1427.45	1405.7	21.7
	Enter 24 Hour Totals For KW Here >			0	13200					

█ Data Entered in These Fields Only

█ Spreadsheet Calculated Fields

Lower Impoundment - FERC # 2421

April 18, 2007 Iceout Sampling Event



Appendix B

July 17, 2007 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2007 Water Quality Study - Flambeau (Lower) Hydroelectric Project - FERC #2421

Date: 7/17/07

Pre-Sampling Data:

Time: 10:30 AM Barometer: 29.95 Air Temp: 22 °C Wind Speed: 5 MPH

Sky Conditions: MOSTLY CLOUDY - PERIODS OF SUNSHINE

Precipitation within Last 24 Hours: NO

D.O. Meter Calibration: Instrument Model Used: HACH HOYD

D.O. Membrane Changed in Last 24 Hours? Yes No If Yes, Time Changed: N/A

Battery Status: GOOD volts

Calibration Time: N/A Method: FACTORY (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 22.5 feet

Secchi Disk Depth: (±0.1 foot): 4.5 feet. Time: 10:45 AM

Chlorophyll a (3 feet below surface)

Lab Sample I.D. #: <u>20070717-2A</u>		
Time	Quantity (ml)	Filtered
<u>10:30 AM</u>	<u>1000</u>	<u>NO</u>

True Color (3 feet below surface)

Lab Sample I.D. #: <u>20070717-2D</u>	
Time	Quantity (ml)
<u>10:31 AM</u>	<u>250</u>

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
0.5 feet below surface	<u>10:46</u>	<u>7.79</u>	<u>24.1</u>
3 feet	<u>10:47</u>	<u>7.06</u>	<u>22.7</u>
6 feet	<u>10:48</u>	<u>6.72</u>	<u>22.3</u>
9 feet	<u>10:55</u>	<u>6.47</u>	<u>21.9</u>
12 feet	<u>10:56</u>	<u>6.25</u>	<u>21.8</u>
15 feet	<u>10:57</u>	<u>6.22</u>	<u>21.8</u>
18 feet	<u>10:58</u>	<u>5.81</u>	<u>21.7</u>
21 feet	<u>11:05</u>	<u>5.95</u>	<u>21.8</u>
24 feet			
0.5 feet above bottom	<u>11:08</u>	<u>6.16</u>	<u>21.7</u>

Phosphorus

Lab Sample I.D. #: <u>20070717-2B</u>	
(3 feet below surface)	
Time	Preserved?
<u>10:32 AM</u>	<u>H₂SO₄</u>

Lab Sample I.D. #: <u>20070717-2C</u>	
(3 feet above bottom)	
Time	Preserved?
<u>10:31 AM</u>	<u>H₂SO₄</u>

Comments: SAMPLE LOCATION N45°54.826' W90°26.822'

Performed By: Gary Rast

Gary Rast

GARY RAST

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

Client: North American Hydro Holdings Inc
 Attn: Gary Rast
 116 North State Street
 P O Box 167
 Neshkoro, WI 54960 0167

Project: Flambeau Projects

20070717-Upper NLS ID: 447357

Ref. Line 1 COC 96303 20070717-Upper Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Chlorophyll, all species

Lab filtration for Chlorophyll

20070717-Lower NLS ID: 447358

Ref. Line 2 COC 96303 20070717-Lower Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Chlorophyll, all species

Lab filtration for Chlorophyll

20070717-Pixley NLS ID: 447359

Ref. Line 3 COC 96303 20070717-Pixley Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Chlorophyll, all species

Lab filtration for Chlorophyll

20070717-Crowley NLS ID: 447360

Ref. Line 4 COC 96303 20070717-Crowley Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Chlorophyll, all species

Lab filtration for Chlorophyll

20070717-Upper 1B NLS ID: 447370

Ref. Line 1 COC 96303 20070717-Upper 1B Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Phosphorus, tot. as P

20070717-Upper 1D NLS ID: 447371

Ref. Line 1 COC 96303 20070717-Upper 1D Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Color, APHA (true)

20070717-Lower 2B NLS ID: 447372

Ref. Line 2 COC 96303 20070717-Lower 2B Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Phosphorus, tot. as P

20070717-Lower 2C NLS ID: 447373

Ref. Line 2 COC 96303 20070717-Lower 2C Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter

Phosphorus, tot. as P

ANALYTICAL REPORT

**ORIGINAL
 RECEIVED**

JUL 26 2007

NORTH AMERICAN HYDRO

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

Printed: 07/24/07 Code: S Page 1 of 2

NLS Project: 109158

NLS Customer: 93918

Fax: 920 293 8087 Phone: 920 293 4628

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					07/23/07 07/19/07	10200-H NA	721026460 721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					07/23/07 07/19/07	10200-H NA	721026460 721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					07/23/07 07/19/07	10200-H NA	721026460 721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					07/23/07 07/19/07	10200-H NA	721026460 721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.029	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
40	C.P.U.	1	5.0*		07/19/07	EPA 110.2	721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.057	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.062	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Grandon, WI 54620
 Ph: (715)-478-2777 Fax: (715)-478-3060

Client: North American Hydro Holdings Inc
 Attn: Gary Rast
 116 North State Street
 P O Box 167
 Neshkoro, WI 54960 0167

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

Printed: 07/24/07 Code: S Page 2 of 2

NLS Project: 109158
NLS Customer: 93918
 Fax: 920 293 8087 Phone: 920 293 4628

Project: Flambeau Projects

20070717-Lower 2D NLS ID: 447374
 Ref. Line 2 COC 96303 20070717-Lower 2D Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Color, APHA (true)	60	C.P.U.	1	5.0*		07/19/07	EPA 110.2	721026460

20070717-Pixley 3B NLS ID: 447375
 Ref. Line 3 COC 96303 20070717-Pixley 3B Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.072	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

20070717-Pixley 3C NLS ID: 447376
 Ref. Line 3 COC 96303 20070717-Pixley 3C Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.057	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

20070717-Pixley 3D NLS ID: 447377
 Ref. Line 3 COC 96303 20070717-Pixley 3D Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Color, APHA (true)	70	C.P.U.	2	10*		07/19/07	EPA 110.2	721026460

20070717-Crowley 4B NLS ID: 447378
 Ref. Line 4 COC 96303 20070717-Crowley 4B Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.037	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

20070717-Crowley 4C NLS ID: 447379
 Ref. Line 4 COC 96303 20070717-Crowley 4C Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Phosphorus, tot. as P	0.049	mg/L	1	0.0070*		07/20/07	EPA 365.2	721026460

20070717-Crowley 4D NLS ID: 447380
 Ref. Line 4 COC 96303 20070717-Crowley 4D Matrix: SW
 Collected: 07/17/07 00:00 Received: 07/19/07

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Color, APHA (true)	70	C.P.U.	2	10*		07/19/07	EPA 110.2	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
 DWB = Dry Weight Basis NA = Not Applicable
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

ND = Not Detected (< LOD) 1000 ug/L = 1 mg/L

Reviewed by: 
 Authorized by: R. T. Krueger, President

Northern Lake Service, Inc.
Chlorophyll Results

Customer: North American Hydro Holdings Inc
Project: 109158
Flambeau Projects

Sample	Description	CC a	Pheo a	TC a	TC b	TC c
447357	20070717-Upper	3.4	0.28	3.7	0.12	0.41
447358	20070717-Lower	2.7	0.25	2.9	0.17	0.34
447359	20070717-Pixley	22	0.0*	22	2.7	1.6
447360	20070717-Crowley	12	2.6	14	2.4	2.2

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/cm³ for periphyton samplers

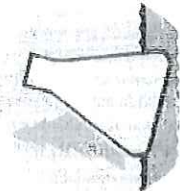
*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

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. 96303

CLIENT: WISN American Home Holdings
 ADDRESS: PO Box 167 116 State Street
 CITY: ESHKORO WI STATE: WI ZIP: 54960
 PROJECT DESCRIPTION/NO: AMERICAN HOME PROJECTS QUOTATION NO.
 DNR FID # _____ DNR LICENSE # _____
 CONTACT: CARY EAST PHONE: 920-293-4628
 PURCHASE ORDER NO. HAMBAN PROTECTORS FAX: 920-293-8087

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	MATRIX	SW	WW	GW	DW	TIS	AIR	SOIL	PCOD	SL	OTHER

ITEM NO.	NLS LABEL NO.	SAMPLE ID	COLLECTION DATE	TIME	MATRIX (See above)	COLLECTION REMARKS (i.e. DNR WellID #)
----------	---------------	-----------	-----------------	------	--------------------	--

1.	20070717-UPPER	7/17/07	10:00	10	HA	TRUE COIC
2.	20070717-LOWER	7/17/07	10:30	20	HA	Phosphorus
3.	20070717-LOWER	7/17/07	10:30	30	HA	Phosphorus
4.	20070717-LOWER	7/17/07	10:45	40	HA	Phosphorus
5.						
6.						
7.						
8.						
9.						
10.						

REPORT TO: CARY EAST
116 STATE STREET
ESHKORO, WI 54960

INVOICE TO: NORTH AMERICAN HOME HOLDINGS INC
PO BOX 167
116 STATE STREET
ESHKORO, WI 54960

COLLECTED BY (signature): [Signature] DATE/TIME: 7/17/07
 RELINQUISHED BY (signature): [Signature] DATE/TIME: 7/17/07
 DISPATCHED BY (signature): [Signature] DATE/TIME: 7/17/07

CUSTODY SEAL NO. (IF ANY): _____
 RECEIVED BY (signature): _____
 METHOD OF TRANSPORT: _____

DATE/TIME	CONDITION	TEMP.

REMARKS & OTHER INFORMATION: _____

COOLER # 32403

WDR FACILITY NUMBER _____ E-MAIL ADDRESS _____

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.
 DUPLICATE COPY

Flambeau Projects Operations Log Data Water Quality Monitoring Study

July 17, 2007

Project	Total CFS	Gate CFS	Unit CFS				Unit KW	Impoundment (NGVD)	Tailwater (NGVD)	Head (feet)
---------	-----------	----------	----------	--	--	--	---------	--------------------	------------------	-------------

UPPER	291	70	Unit #1 0	Unit #2 221	Unit #3 N/A	Unit #4 N/A	Unit #1 0	Unit #2 263	Unit #3 N/A	1486.43	1467.08	19.35
	Enter 24 Hour Totals For KW Here >											

LOWER	264	5	Unit #1 0	Unit #2 259	Unit #3 0	Unit #4 0	Unit #1 0	Unit #2 315	Unit #3 0	Unit #4 0	1467.2	1448.3	19
	Enter 24 Hour Totals For KW Here >												

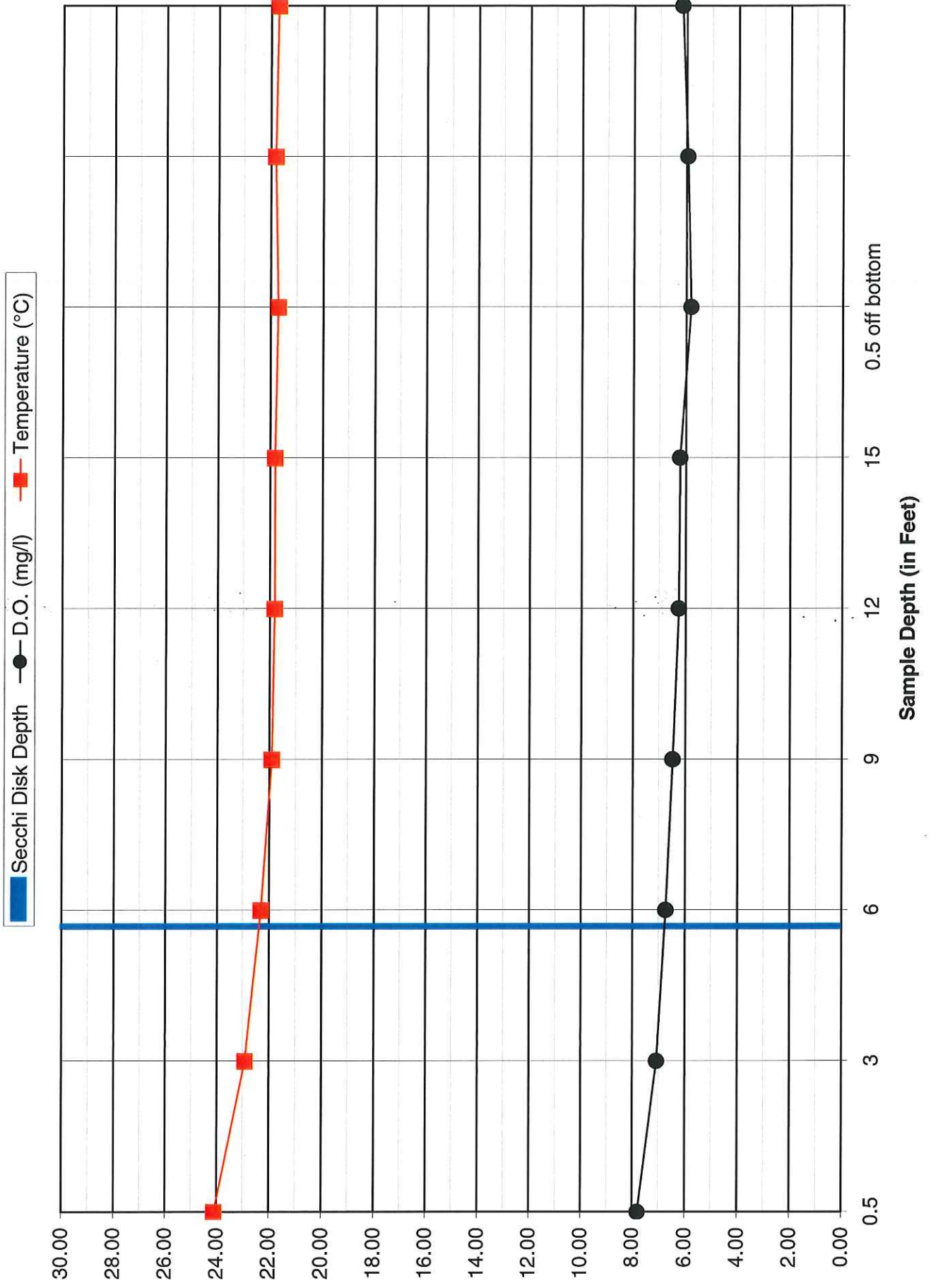
PIXLEY	290	0	Unit #1 290	Unit #2 0	Unit #3 N/A	Unit #4 N/A	Unit #1 200	Unit #2 0	Unit #3 N/A	Unit #4 N/A	1448.69	1427.5	21.2
	Enter 24 Hour Totals For KW Here >												

CROWLEY	260	0	Unit #1 0	Unit #2 260	Unit #3 N/A	Unit #4 N/A	Unit #1 0	Unit #2 270	Unit #3 N/A	Unit #4 N/A	1427.2	1405.3	21.9
	Enter 24 Hour Totals For KW Here >												

Data Entered in These Fields Only!

Spreadsheet Calculated Fields

Lower Impoundment - FERC # 2421 July 17, 2007 Sampling Event



Appendix C

August 08, 2007 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2007 Water Quality Study - Flambeau (Lower) Hydroelectric Project - FERC #2421

Date: 8/8/07

Pre-Sampling Data:

Time: 10:00AM Barometer: 29.96 Air Temp: 22 °C Wind Speed: SE 5MPH

Sky Conditions: CLEAR & BRIGHT

Precipitation within Last 24 Hours: NONE

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

D.O. Membrane Changed in Last 24 Hours? Yes No If Yes, Time Changed: N/A

Battery Status: NEW volts

Calibration Time: N/A Method: FACTORY (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 22.1 feet

Secchi Disk Depth: (± 0.1 foot): 4.9 feet. Time: 10:05AM

Chlorophyll a (3 feet below surface)

Lab Sample I.D. #: <u>20070808-2A</u>		
Time	Quantity (ml)	Filtered
<u>10:07</u>	<u>1000 ml</u>	<u>NO</u>

True Color (3 feet below surface)

Lab Sample I.D. #: <u>20070808-20</u>	
Time	Quantity (ml)
<u>10:09</u>	<u>250 ml</u>

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
0.5 feet below surface	<u>10:37</u>	<u>6.45</u>	<u>25.6</u>
3 feet	<u>10:38</u>	<u>6.38</u>	<u>25.1</u>
6 feet	<u>10:39</u>	<u>6.26</u>	<u>24.9</u>
9 feet	<u>10:40</u>	<u>6.12</u>	<u>24.7</u>
12 feet	<u>10:41</u>	<u>5.94</u>	<u>24.6</u>
15 feet	<u>10:55</u>	<u>5.90</u>	<u>24.5</u>
18 feet	<u>10:56</u>	<u>5.89</u>	<u>24.5</u>
21 feet	<u>10:57</u>	<u>5.87</u>	<u>24.5</u>
24 feet			
0.5 feet above bottom	<u>11:03</u>	<u>5.49</u>	<u>24.5</u>

Phosphorus

Lab Sample I.D. #: <u>20070808-2B</u>	
(3 feet below surface)	
Time	Preserved?
<u>10:10</u>	<u>H₂SO₄</u>

Lab Sample I.D. #: <u>20070808-2C</u>	
(3 feet above bottom)	
Time	Preserved?
<u>10:12</u>	<u>H₂SO₄</u>

Comments: SAMPLE LOCATION - N45°54'8.26" W 90°26'8.22"

Performed By: Gary Rast

GARY RAST

ANALYTICAL REPORT

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

Client: North American Hydro Holdings Inc
 Attn: Gary Rast
 116 North State Street
 P O Box 167
 Neshkoro, WI 54960 0167

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. W100034

Printed: 08/21/07 Code: S Page 1 of 2
 NLS Project: 109831
 NLS Customer: 93918
 Fax: 920 293 8087 Phone: 920 293 4628

ORIGINAL
 ANALYZED

AUG 22 2007

NORTH AMERICAN HYDRO

Project: Flambeau Projects

20070808-Upper 1A NLS ID: 449718
 Ref. Line 1 COC 97616 20070808-Upper 1A Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					08/16/07 08/10/07	10200-H NA	721026460 721026460

20070808-Upper 1B NLS ID: 449719
 Ref. Line 2 COC 97616 20070808-Upper 1B Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.021	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

20070808-Upper 1D NLS ID: 449720
 Ref. Line 3 COC 97616 20070808-Upper 1D Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
40	C.P.U.	1	5.0*		08/10/07	EPA 110.2	721026460

20070808-Lower 2A NLS ID: 449721
 Ref. Line 4 COC 97616 20070808-Lower 2A Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					08/16/07 08/10/07	10200-H NA	721026460 721026460

20070808-Lower 2B NLS ID: 449722
 Ref. Line 5 COC 97616 20070808-Lower 2B Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.062	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

20070808-Lower 2C NLS ID: 449723
 Ref. Line 6 COC 97616 20070808-Lower 2C Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.059	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

20070808-Lower 2D NLS ID: 449724
 Ref. Line 7 COC 97616 20070808-Lower 2D Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
50	C.P.U.	1	5.0*		08/10/07	EPA 110.2	721026460

20070808-Pixley 3A NLS ID: 449725
 Ref. Line 8 COC 97616 20070808-Pixley 3A Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					08/16/07 08/10/07	10200-H NA	721026460 721026460

ANALYTICAL REPORT

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

Client: North American Hydro Holdings Inc
 Attn: Gary Rast
 116 North State Street
 P O Box 167
 Neshkoro, WI 54960 0167

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. W100034

Printed: 08/21/07 Code: S Page 2 of 2
 NLS Project: 109831
 NLS Customer: 93918
 Fax: 920 293 8087 Phone: 920 293 4628

Project: Flambeau Projects

20070808-Pixley 3B NLS ID: 449726
 Ref. Line 9 COC 97616 20070808-Pixley 3B Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.057	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

Parameter
 Phosphorus, tot. as P

20070808-Pixley 3C NLS ID: 449727
 Ref. Line 10 COC 97616 20070808-Pixley 3C Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.045	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

Parameter
 Phosphorus, tot. as P

20070808-Pixley 3D NLS ID: 449728
 Ref. Line 11 COC 97616 20070808-Pixley 3D Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
60	C.P.U.	1	5.0*		08/10/07	EPA 110.2	721026460

Parameter
 Color, APHA (true)

20070808-Crowley 4A NLS ID: 449729
 Ref. Line 12 COC 97616 20070808-Crowley 4A Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
see attached yes					08/16/07 08/10/07	10200-H NA	721026460 721026460

Parameter
 Chlorophyll, all species
 Lab filtration for Chlorophyll

20070808-Crowley 4B NLS ID: 449730
 Ref. Line 13 COC 97616 20070808-Crowley 4B Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.042	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

Parameter
 Phosphorus, tot. as P

20070808-Crowley 4C NLS ID: 449731
 Ref. Line 14 COC 97616 20070808-Crowley 4C Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
0.068	mg/L	1	0.0070*		08/10/07	EPA 365.2	721026460

Parameter
 Phosphorus, tot. as P

20070808-Crowley 4D NLS ID: 449732
 Ref. Line 15 COC 97616 20070808-Crowley 4D Matrix: SW
 Collected: 08/08/07 00:00 Received: 08/10/07

Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
60	C.P.U.	1	5.0*		08/10/07	EPA 110.2	721026460

Parameter
 Color, APHA (true)

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)
 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: North American Hydro Holdings Inc
Project: 109831
Flambeau Projects

Sample	Description	CC a	Pheo a	TC a	TC b	TC c
449718	20070808-Upper 1A	5.2	0.6	5.7	0.31	0.49
449721	20070808-Lower 2A	5.5	0.99	6.3	0.48	0.55
449725	20070808-Fixley 3A	18	2.6	20	1.7	1.5
449729	20070808-Crowley 4A	11	1.2	12	0.68	0.97

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/cm² for periphyton samplers

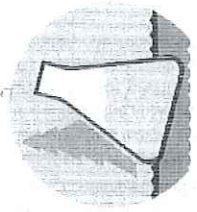
*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

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. 97616

CLIENT: NORTH AMERICAN HYDRO HOLDINGS, I
 ADDRESS: PO BOX 167 116 STATE STREET
 CITY: WESHAKORO WI 54960
 PROJECT DESCRIPTION / NO.: FLAMBEAU PROTECTS
 QUOTATION NO.:
 DNR FID #: DNR LICENSE #
 CONTACT: CARY RAST
 PHONE: 920-293-4628
 PURCHASE ORDER NO.:
 FAX: 920-293-8087
 FLAMBEAU PROTECTS

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

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

ITEM NO.	NLS LAB. NO.	SAMPLE ID	DATE	COLLECTION TIME	MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	COLLECTION REMARKS (i.e. DNR Well ID #)
1.	449915	20070808-UPPER	8/8/07	11:00 AM	UPPER RIVER WATER	Phos Phos Plus	
2.		20070808-LOWER	8/8/07	3	"	Phos Phos Plus	
3.		20070808-FIDLEY	8/8/07	3	"	Phos Phos Plus	
4.		20070808-PROWLEY	8/8/07	PM	"	Phos Phos Plus	
5.							
6.							
7.							
8.							
9.							
10.							

COLLECTED BY (signature): *Cary Rast*
 RECEIVED BY (signature): *Cary Rast*
 DISPATCHED BY (signature): *Cary Rast*
 CUSTODY SEAL NO. (IF ANY):
 DATE/TIME: 08/18/07
 DATE/TIME: 08/18/07
 DATE/TIME: 08/18/07 5:00 PM
 METHOD OF TRANSPORT:

REPORT TO: CARY RAST
 NORTH AMERICAN HYDRO HOLDINGS, I
 PO BOX 167
 116 STATE STREET
 WESHAKORO, WI 54960
 INVOICE TO: NORTH AMERICAN HYDRO HOLDINGS, I
 PO BOX 167
 116 STATE STREET
 WESHAKORO, WI 54960

RECEIVED AT NLS BY (signature): *Cary Rast*
 DATE/TIME: 8/13/07
 CONDITION:
 REMARKS & OTHER INFORMATION: No bottle for K. P. Cary included not used.
 WDNR FACILITY NUMBER: AS sent for that sample
 E-MAIL ADDRESS: Dnmw 8/13/07

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

Flambeau Projects Operations Log Data Water Quality Monitoring Study

August 8, 2007

Project	Total CFS	Gate CFS	Unit CFS	Unit KW				Impoundment (NGVD)	Tailwater (NGVD)	Head (feet)
---------	-----------	----------	----------	---------	--	--	--	--------------------	------------------	-------------

UPPER	340	70	270	0	N/A	255	0	1486.63	1466.88	19.75
	Enter 24 Hour Totals For KW Here >			6620	0	N/A				

LOWER	260	0	0	260	N/A	0	220	1448.3	1467.2	18.9
	Enter 24 Hour Totals For KW Here >			0	0	5200				

PIXLEY	270	0	0	270	N/A	0	600	1448.65	1427.5	21.1
	Enter 24 Hour Totals For KW Here >			0	3900					

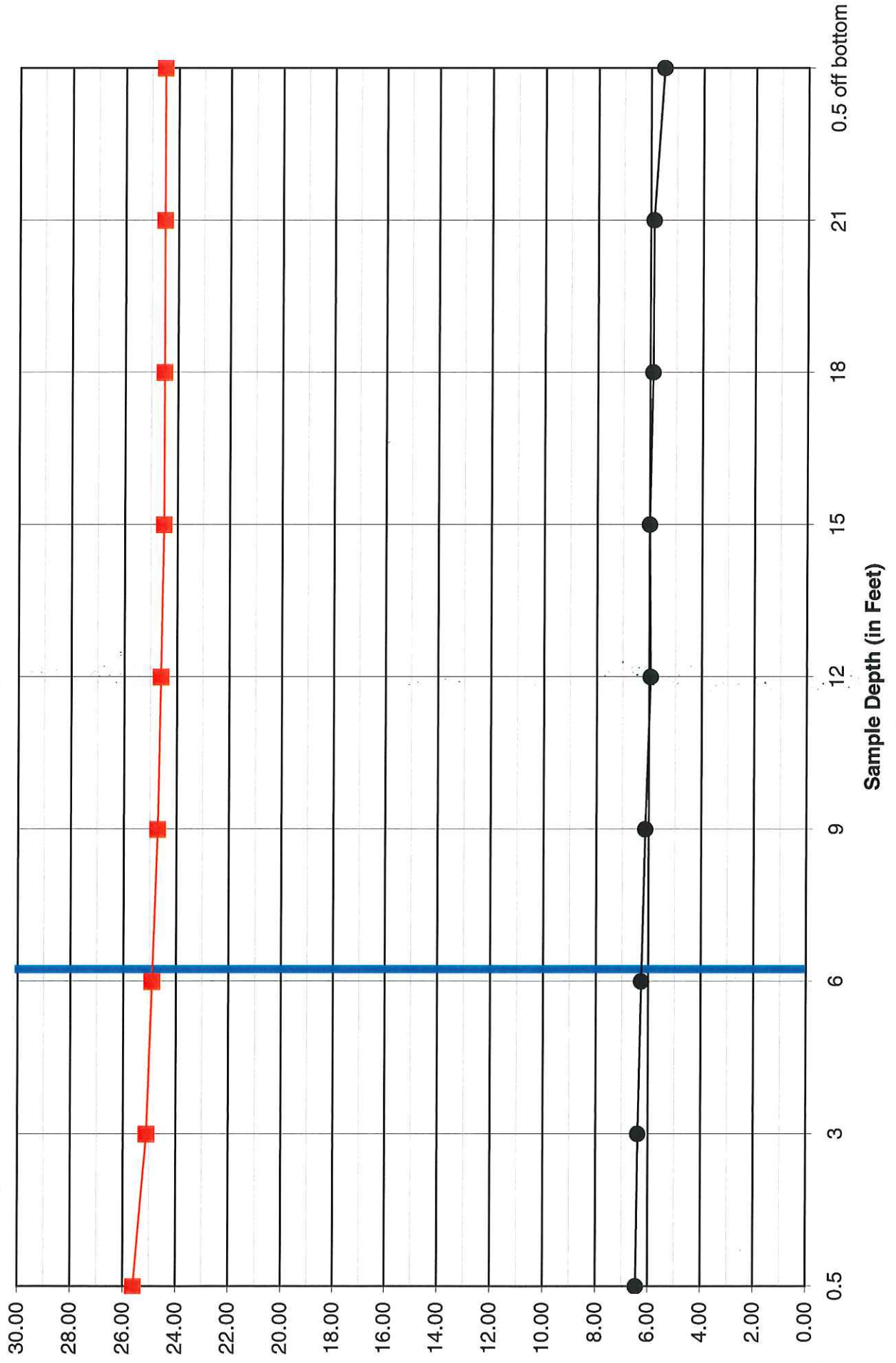
CROWLEY	291	0	0	291	N/A	0	280	1427.4	1405.5	21.9
	Enter 24 Hour Totals For KW Here >			0	7600					

Data Entered in These Fields Only

Spreadsheet Calculated Fields

Lower Impoundment - FERC # 2421 August 08, 2007 Sampling Event

■ Secchi Disk Depth ● D.O. (mg/l) ■ Temperature (°C)



Appendix D

Agency Correspondence

