

February 24, 2021

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

**Re: Danbury Hydroelectric Project FERC #9184  
Flambeau Hydro, LLC  
Article 401 (b) (M) – Final 2020 Purple Loosetrife Inventory Report**

Dear Ms. Bose:

On behalf of Flambeau Hydro, LLC (Licensee), Renewable World Energies LLC is submitting the *Final 2020 Purple Loosetrife Inventory Report* for the Danbury Hydroelectric Project. It is a requirement of Article 401 (b) (M) amended April 23, 2013 of the License issued to Flambeau Hydro LLC by the Federal Energy Regulatory Commission on September 5, 2006. The 401 (b) (M) amendment changes the monitoring schedule from every year to every other year as well as Galerucella Beetles being placed at documented Purple Loosetrife sites in the non-survey year.

The report was sent to the agencies by attachment to an e-mail on December 29, 2020. The letter and e-mail asked for comment if the agencies had any to offer. The WDNR did respond with a comment of no comment. The survey was conducted on August 10, 2020. It began on the Impoundment, continued to the FHLLC – Owned Property, and ended with the Tailrace. One Purple Loosetrife plant was observed and pulled during the survey. During the survey, White Water Associates observed an osprey, eagle and 5 painted turtles. Since the one Purple Loosetrife that was observed had been pulled, no Galerucella Beetles are scheduled to be released in 2021. The next survey and report will be due in 2022.

If you have any questions concerning the report, please contact Brian Kreuscher at the Renewable World Energy LLC offices @ 855-994-9376 Ext. 230. He can also be reached by e-mail at [bkreuscher@rwehydro.com](mailto:bkreuscher@rwehydro.com).

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

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

For Mr. Jason Kreuscher  
Vice President, Operation

Attachment: Final Danbury 2020 Purple Loosestrife Inventory Report  
Agency Correspondence

Cc: Cheryl Laatsch, WDNR  
Nick Utrup, USFWS  
Paul Cook, Burnett County

2020 Purple Loosestrife Inventory  
for  
Danbury Hydroelectric Project  
FERC Project #9184  
Flambeau Hydro, LLC  
Burnett County, Wisconsin

Submitted by:



429 River Lane, P.O. Box 27  
Amasa, Michigan 49903  
Phone: 906-822-7889

## **Summary of Purple Loosestrife Inventory for Danbury Hydroelectric Project, FERC #9184**

On August 10, 2020, White Water Associates, Inc. performed an inventory of purple loosestrife at the Danbury Hydroelectric Project. This is a requirement of Article 401 (b) amended April 23, 2013 of the License issued to Flambeau Hydro LLC by the Federal Energy Regulatory Commission (FERC) (September 5, 2006). This amendment changes the monitoring schedule from every year to every other year as well as Galerucella beetles being placed at documented purple loosestrife sites in the non-survey year.

### **2020 Observations**

The Danbury Project boundary was divided into three different areas; *the impoundment* (from the Danbury powerhouse #2 to the County HWY U bridge approximately 6.0 miles upstream), *FHLLC-owned property within the project boundary* (FHLLC-owned property adjacent to the dams and powerhouses), and *the tailrace* (from the powerhouse #1 to a point approximately 2,500 feet downstream, including the 200 foot long tailrace area of powerhouse #2).

*The impoundment* was surveyed by boat and there was one purple loosestrife location in 2020. DBYPL02 one plant was pulled.

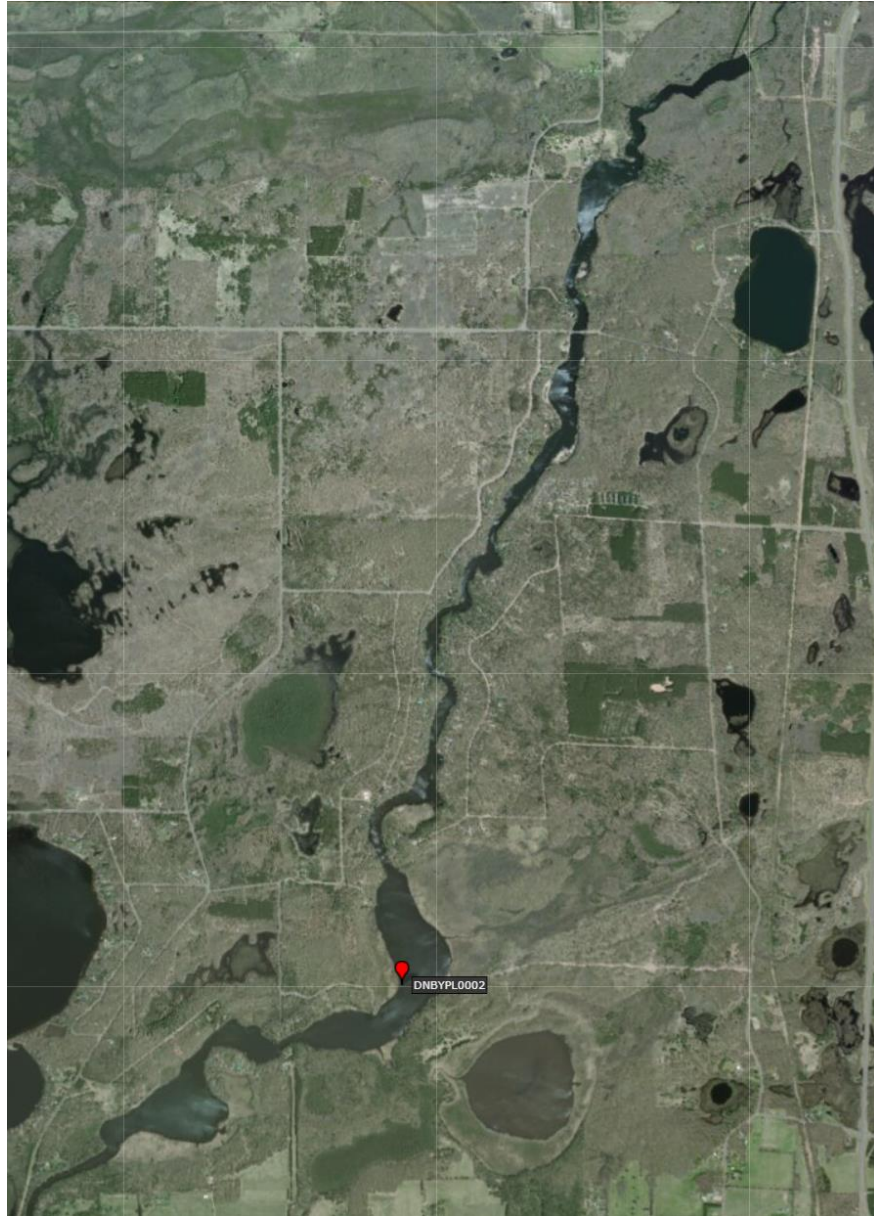
*The FHLLC-owned property within the project boundary* was surveyed on foot and no purple loosestrife plants were observed.

*The tailrace* was surveyed by boat and no purple loosestrife plants were observed.

A map of the purple loosestrife location observed in 2020 is available in Appendix A. Appendix B provides tables of historical purple loosestrife data as well as observations made in 2020. Appendix C provides scans of field data sheets. Appendix D provides photos taken at the project area.

# **Appendix A**

## **Maps**



Map 1. Locations of purple loosestrife at Danbury in 2020 zoomed out.

# **Appendix B**

## **Tables**

<b>Table 1. GPS points for purple loosestrife inventory at Danbury, FERC#9184.</b>					
<i>GPS Point</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Plant Height</i>	<i>Stand Area</i>	<i>Comments</i>
DNBYPL001	45.94743	-92.41280	N/A	N/A	2007-first observed. Plants cut at base. 2008-no plants observed. 2009-1 plant observed and pulled. 2010, 2011, 2012, 2013 & 2014-no plants observed. 2016-no plants observed. 2018-no plants observed.
DNBYPL002	45.95118	-92.39754	4'	No	First observed in 2020. One plant removed.



# **Appendix C**

## **Scans of Datasheets**

GPS3

# Purple Loosestrife Survey

Danbury

Hydroelectric Project - FERC # 9184

Page 1 of 2

Date 8-10-20 Conducted By Anna Shin Sean Moran

HWL 929.19 TWL 889.95 CFS 123 Equipment Used: Binocular 14ft Boat GPS

Air Temp: 73 °F Wind Speed: www 8 mph Barometer: 29.92 Sky Conditions: few clouds

Time Survey Started 11:45 Time Survey Ended 1:05 Boat (14ft or Canoe) and/or Foot

Latitude Start BL Longitude End BL

Location of Survey Area: Tailrace      Bypass Reach      Impoundment X FHLLC Property     

Description of Location     

Historic Info:     

Purple Loosestrife Found: Yes or No 0

Information					
Site	<u>DBV PLO 1</u>				
Time	<u>14:31</u>				
Photo ID	<u>0444</u>				
Location	<u>N45.9518</u>				
Single or Multi-stem	<u>multi</u>	<u>W 092.35725</u>			
# of Plants	<u>1</u>				
Acreage est.					
Stand Area Density	<u>1'x1'</u>				
Size Colony	<u>S</u>				
S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft	<u>4'</u>				
Flowering %	<u>yes</u>				
Beetle Feeding?	<u>no</u>				
Plant Vigor (Very poor to good)	<u>good</u>				
Plant Removed (explain)	<u>yes</u>				

(left) By Deer Blind

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony					
S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Other Species Observed:

Osprey, eagle, 5 painted turtles

Phragmites - sample N45.91960 W092.39725 Take photo phone

# Purple Loosestrife Survey

Danbury Hydroelectric Project – FERC # 9184 Page 2 of 2  
 Date 8-10-20 Conducted By Angela Shim Steen Caron  
 HWL 92.15 TWL 88.55 CFS 123 Equipment Used: \_\_\_\_\_  
 Air Temp: \_\_\_\_\_ °C Wind Speed: \_\_\_\_\_ Barometer: 15.0 Sky Conditions: 50% clouds  
 Time Survey Started 13:40 Time Survey Ended 15:10 Boat (14ft or Canoe) and/or Foot (circled)  
 Latitude Start Dam Longitude End Dam  
 Location of Survey Area: Tailrace X Bypass Reach X Impoundment \_\_\_\_\_ FHLLC Property \_\_\_\_\_  
 Description of Location \_\_\_\_\_  
 Historic Info: \_\_\_\_\_  
 Purple Loosestrife Found: Yes or No (circled)

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Other Species Observed:

# **Appendix D**

## **Photos**



**Photo 1. Purple loosestrife to the left of a duck blind, Danbury.**



**RE: Danbury (P-9184), Clam River (P-9185) Draft Purple Loosestrife Reports**

Haller, Macaulay G - DNR <macaulay.haller@wisconsin.gov>

Mon 1/25/2021 10:07 AM

To: Brian Kreuscher <bkreuscher@rwehydro.com>

Cc: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>; Haller, Macaulay G - DNR <macaulay.haller@wisconsin.gov>;

Nick Utrup <nick\_utrup@fws.gov>

Hi Brian,

Thank you for the opportunity to comment on RWE's draft 2020 Purple Loosestrife Reports for Danbury (P-9184) and Clam River (P-9185). The department does not have any comments.

Have a good week,

**Macaulay Haller**

Wisconsin Department of Natural Resources

Macaulay.Haller@wisconsin.gov

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**From:** Brian Kreuscher <[bkreuscher@rwehydro.com](mailto:bkreuscher@rwehydro.com)>

**Sent:** Tuesday, December 29, 2020 10:53 AM

**To:** Laatsch, Cheryl - DNR <[Cheryl.Laatsch@wisconsin.gov](mailto:Cheryl.Laatsch@wisconsin.gov)>; Nick Utrup <[nick\\_utrup@fws.gov](mailto:nick_utrup@fws.gov)>

**Subject:** Danbury (P-9184), Clam River (P-9185) Draft Purple Loosestrife Reports

Cheryl and Nick,

Attached are copies of the Purple Loosestrife Reports for the surveys conducted at Danbury (P-9184) and Clam River (P-9185). 2020 was a survey year, while 2019 was set to be a beetle release year in the Clam Flowage but good root stock could not be located to raise the beetles in 2019 and thus no beetles were released. The issue of finding root stock was communicated to agencies in 2019 and that correspondence will be included in the final report to FERC.

Please return any comments on the report to me within 30 days.

Thanks

Brian Kreuscher

Renewable World Energies

Regulatory & Compliance

855-994-9376 x230