



January 30, 2018

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

**RE: Flambeau Pixley FERC Project Number 2395  
Flambeau Hydro LLC  
Final Report 2017 Purple Loosetrife Inventory Report**

Dear Ms. Bose:

On behalf of Flambeau Hydro LLC, "Flambeau" (Licensee), Renewable World Energies, LLC (RWE) is submitting a copy of the *Final Report 2017 Purple Loosetrife Inventory Report* for the Flambeau Pixley Hydroelectric Project. The report is a requirement of Flambeau's Federal license pursuant to article 410. Monitoring was conducted on August 28 and August 29, 2017. No out of the ordinary issues were encountered and no Purple Loosetrife was observed. The draft report was sent to the agencies by an attachment to an e-mail on November 16, 2017 for review and comment. No comments have been received from the WDNR. No comments have been received from the USFWS. The next scheduled monitoring event will be conducted in 2018.

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](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 "J. Kreuzscher".

Mr. Jason Kreuzscher  
Vice President

Attachment: Flambeau Pixley Final Purple Loosestrife Inventory Report

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

2017 Purple Loosestrife Inventory  
for  
Flambeau Pixley Hydroelectric Project  
FERC Project #2395  
Flambeau Hydro, LLC  
Price County, Wisconsin

Submitted by:



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

## Summary of Purple Loosestrife Inventory for Flambeau Pixley Hydroelectric Project, FERC #2395

On August 28<sup>th</sup> and 29<sup>th</sup>, 2017, White Water Associates, Inc. performed an inventory of purple loosestrife at the Flambeau Pixley Project. The method of inventory approved and modified by a Federal Energy Regulatory Commission (FERC) Order (June 18, 2003) was defined as follows:

While purple loosestrife is blooming in mid-July to early August, the inventory should be conducted using a boat to survey the impoundment above the dam within the Project Boundary and on foot or by boat below the dam within the Project Boundary. County wetland maps may be used to determine other areas where Purple Loosestrife could be found on lands owned by Flambeau Hydro, LLC (FHLLC) within the Project Boundary. Lands owned by FHLLC within the Project Boundary will be surveyed on foot. A pair of binoculars should be used to search for the purple flowered spikes of the plant. When plants are located, the person(s) inventorying should get close enough to make a positive identification without disturbing the plants or the immediate area around the plants as this could cause them to spread. A GPS will be used to establish a GPS coordinate for the location of the plants. If it is not possible to get close enough to establish an accurate location, an approximate location will be established with reference to an established GPS coordinate. The plants should be inventoried by marking and numbering the location on a project map along with notes approximating size of plants, stand area, percent cover, stem density, plant density, and location with reference to established GPS coordinates. Photos and/or videotape will be taken of the largest occurrences.

### 2017 Observations

The Flambeau Lower Project boundary was divided into three different areas; *the impoundment* (from HWY 13 bridge in Park Falls to the dam), *FHLLC-owned property within the project boundary* (FHLLC-owned property adjacent to the dam and powerhouse), and *the tailrace* (from the dam and powerhouse to approximately 500 feet downstream of the dam).

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

*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.

Appendix A provides scans of field data sheets.

# **Appendix A**

## **Scans of Datasheets**

# Purple Loosestrife Survey

Pixley Hydroelectric Project - FERC # 2395 Page 1 of 1

Date 8-29-17 Conducted By Stine A. S. Haag

HWL 1448.30 TWL 1429.9 CFS 653 Equipment Used: binoculars, GPS

Air Temp: 53 ° Wind Speed: 0 Barometer: 30.1 Sky Conditions: Clear then turned cloudy

Time Survey Started 7:30 am Time Survey Ended 9:30 am Boat (14ft or Canoe) and/or Foot

Latitude Start Boat landing Longitude End Boat landing

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

Description of Location Hwy 13 bridge in Park Falls to the Dam

Historic Info: NO PL 3 hours

Purple Loosestrife Found: Yes or No

Photo 4149-50 scene

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:

Kingfisher, 2 wild turkey, 5 otter, 1 bald eagle, green heron, 2 loons, 1 adult loon, 1 immature loon  
 photo 4151

# Purple Loosestrife Survey

Pixley Hydroelectric Project – FERC # 2395 Page 1 of 1

Date 8-28-17 Conducted By Shirley A. S. Haege

HWL 448.70 TWL 422.4 CFS 650 Equipment Used: binoculars, GPS

Air Temp:      °C Wind Speed:      Barometer:      Sky Conditions: Cloudy

Time Survey Started 9:35 Time Survey Ended 9:45 Boat (14ft or Canoe) and/or Foot (Foot)

Latitude Start      Longitude End     

Location of Survey Area: Tailrace  Bypass Reach  Impoundment  FHLLC Property

Description of Location Property owned adj. to the dam + powerhouse, Dam 500ft downstream

Historic Info: NO PL

Purple Loosestrife Found: Yes or (No)

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					
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# 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:

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## Brian Kreuscher

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**From:** Brian Kreuscher  
**Sent:** Thursday, November 16, 2017 10:45 AM  
**To:** Cheryl Laatsch; Nick Utrup  
**Subject:** Crowley (P-2473) Pixley (P-2395) Upper (P-2640) Lower (P-2421) 2017 Purple Loosestrife Draft Reports  
**Attachments:** Crowley PL Draft Report 2017-Complete.pdf; Lower Flambeau PL Draft Report 2017-Complete.pdf; Pixley PL Draft Report 2017-Complete.pdf; Upper Flambeau PL Draft Report 2017-Complete.pdf; Grantsburg High School Purple Loosestrife Beetle Release on Clam Flowage\_Clam River Delta 7 5 17.pdf

Cheryl and Nick,

Attached are copies of the Purple Loosestrife Draft Reports for the surveys conducted at Flambeau Upper (P-2640), Flambeau Lower (P-2421), Flambeau Pixley (P-2395) and Flambeau Crowley (P-2473). Danbury (P-9184) and Clam River (P-9185) did not require a Survey in Odd years. Clam River did have approximately 6,000 Galerucella Beetles released by the Grantsburg High School. I have attached the report that Science teacher Matt Berg wrote.

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

Thanks

Brian Kreuscher  
Renewable World Energies  
Regulatory & Compliance  
855-994-9376 x230