

January 12, 2015

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

**RE: Flambeau Crowley FERC Project Number 2473
Flambeau Hydro LLC
Final Report 2014 Purple Loosestrife 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 2014 Purple Loosestrife Inventory Report* for the Flambeau Crowley Hydroelectric Project. The report is a requirement of Flambeau's Federal license pursuant to article 410.

Monitoring was conducted on August 21, 2014. No out of the ordinary issues were encountered. Purple Loosestrife was observed at the Impoundment. The sites were FLCR PL001 and FLCR PL002 which are located along the south side of HWY 70 at 6 Mile Creek. 15 plants were pulled and disposed of in an approved manner. The draft report was sent to the agencies by a letter dated December 9, 2014 as an attachment to an e-mail sent the same day for review and comment. No comments have been received from WDNR or the USFWS. The next scheduled monitoring event will be conducted in 2015.

If you have any questions concerning this submittal, please contact Mr. Gary Rast at the Renewable World Energies, LLC offices @ 855-994-9376 Ext 105. He can also be reached by e-mail at grast@rwehydro.com.

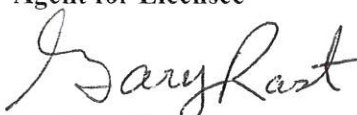
Corporate Office
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Administrative Office
1001 Stephenson Street
Norway, MI 49870
Fax: 906-563-9344



Sincerely,
Renewable World Energies, LLC
Agent for Licensee

JK

Mr. Jason Kreuzscher
Vice President, Operations

Attachment: Flambeau Crowley Final Purple Loosestrife Inventory Report

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

Flambeau Crowley Project Purple Loosestrife Inventory

August 21, 2014

FERC Project # 2473 Article 410

Flambeau Hydro LLC

100 S. State St.

Neshkoro, WI 54960

Purple Loosestrife

On August 21, 2014, Flambeau Hydro, LLC (FHLLC) performed an inventory of purple loosestrife plants at the Flambeau Crowley Project in Price County, Wisconsin. The method of inventory as approved and modified by Federal Energy Regulatory Commission (FERC) Order of 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 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 receiver 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.

Example:

#1) 6' tall plants; 4' x 20'; 30% cover; 4-5 stems per plant; 4 plants; on shoreline N45 56.183' W90 26.748'; no photo

#2) 5'-7' tall plants; 10' x 10'; 25% cover; 4-5 stems per plant; 10 plants; in marsh ~50 feet Bearing 25 degrees from N45 56.256' W90 26.710'; photo No. 1

The area to be inventoried shall be the shoreline of the impoundment to elevation 1428 feet NGVD and lands owned by FHLLC within the Project Boundary as indicated on the Project Map 1, dated November 1991, included in Exhibit G of Flambeau Paper Corp. Application for a Subsequent License for the Crowley Hydroelectric Project FERC Project #2473.

General Observations:

The Flambeau Crowley Project Boundary was divided into three different areas; *the impoundment* (from approximately 500 feet downstream of the Pixley dam to the Crowley 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 tailrace 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 impoundment was surveyed by boat and one occurrence of purple loosestrife plants was observed.

The only site where purple loosestrife was found was FLCR PL001- FLCR PL002. This is along the south side of the Highway 70 causeway at 6-Mile Creek. From 2003 until 2012, this site had been treated with a Glyphosate solution. In 2010 there were 21 purple loosestrife plants observed in this location. In 2011 that number was down to 3. In 2012 there were 11 multi-stem plants between 1-3 feet tall. In 2013 there were again 10 plants along the causeway. In 2014 there were 15 single and multi-stemmed plants located along this stretch. They showed no signs of *Galerucella* beetles feeding on the plants and were between 1-2 feet tall with flowering spikes. All were hand pulled with the root ball and properly disposed of.

None of the other occurrences of purple loosestrife were observed during this year's survey.

All survey information has been entered into the SWIMS database for the 2014 year.

Purple Loosestrife Survey

Project: Flambeau Crowley #2473Datum: WGS 84Date: August 21, 2014Page: 1 of 2Crew: GGR and AKR

Sighting #	GPS Point	Latitude	Longitude	Plant Height	Stand Area	Comments
1	209-215 FLCR PL001 -FLCR PL002	N45 51.816' N45 51.850'	W90 32.859' W90 32.786'	1'-3'	~180' x 25' 15 multi-stem plants	Located between GPS points 209 (FLCR PL001) and 215 (FLCR PL002) on the south side of the causeway formed by HWY 70 just east of the 6-Mile boat landing. First located in 2002 when 11 plants were observed over a 375 foot long area. All plants were treated yearly with herbicide between 2003 and 2012 with the exception of 2005, when 1 immature single stem plant was pulled and the rest appeared to have been spot treated with an herbicide by other person(s) before the licensee survey crew arrived. The stand area had declined in size by 50% in 2009. In 2010 the stand area remained the same but experienced an increase in the number of plants, but plants were small in size and most without blooms. In 2011 the number of plants decreased again. The 3 plants found were treated with herbicide. In 2012 the plant population went back up in number and was again treated with herbicide. This occurrence recorded on digital photos and/or video tape from 2002-2008, 2013 and 2014. In 2013 there were 10 plants along the causeway-they were pulled and properly disposed of. In 2014 there were 15 plants-they were hand pulled to the roots and properly disposed of.

Sighting #	GPS Point	Latitude	Longitude	Plant Height	Stand Area	Comments
2	216-217 FLCR PL003 - FLCR PL004	N45 51.857' N45 51.853	W90 32.806' W90 32.814'	N/A	N/A	Located between GPS points 216 (FLCR PL003) and 217 (FLCR PL004) on the north side of the causeway formed by HWY 70 just east of the 6-Mile boat landing. First observed in 2002. All seed heads at this occurrence were harvested in August 2002 to prevent propagation. All plants were treated with herbicide in 2003. No purple loosestrife plants were observed at this location in 2004. The only plant found in 2005 was pulled. All plants were treated with herbicide in 2006. No plants were found at this location in 2007, 2008, and 2009. In 2010 one large plant was located at this site and treated with herbicide. The one plant found at this site in 2011 was pulled. This occurrence recorded on digital photos and/or video tape in 2002, 2003, 2005, & 2006. No plants found at this site in 2012, 2013, or 2014.
3	208 FLCR PL005	N45 51.926'	W90 32.788'	N/A	N/A	Located at GPS point on a bog in a stump field in the river east of the 6-Mile boat landing. All seed heads were harvested in August 2002 to prevent propagation. This site has not reoccurred since 2002.
4	FLCR PL006	N45 51.814'	W90 32.9445'	N/A	N/A	Located at GPS point on the east side of the 6-Mile boat landing. First observed in 2008. All plants pulled in 2008 and 2009. No plants observed in 2010, 2011, 2012, 2013, or 2014. Photos in 2008.



9-21-2014 FLCR PL 001- FLCR PL002



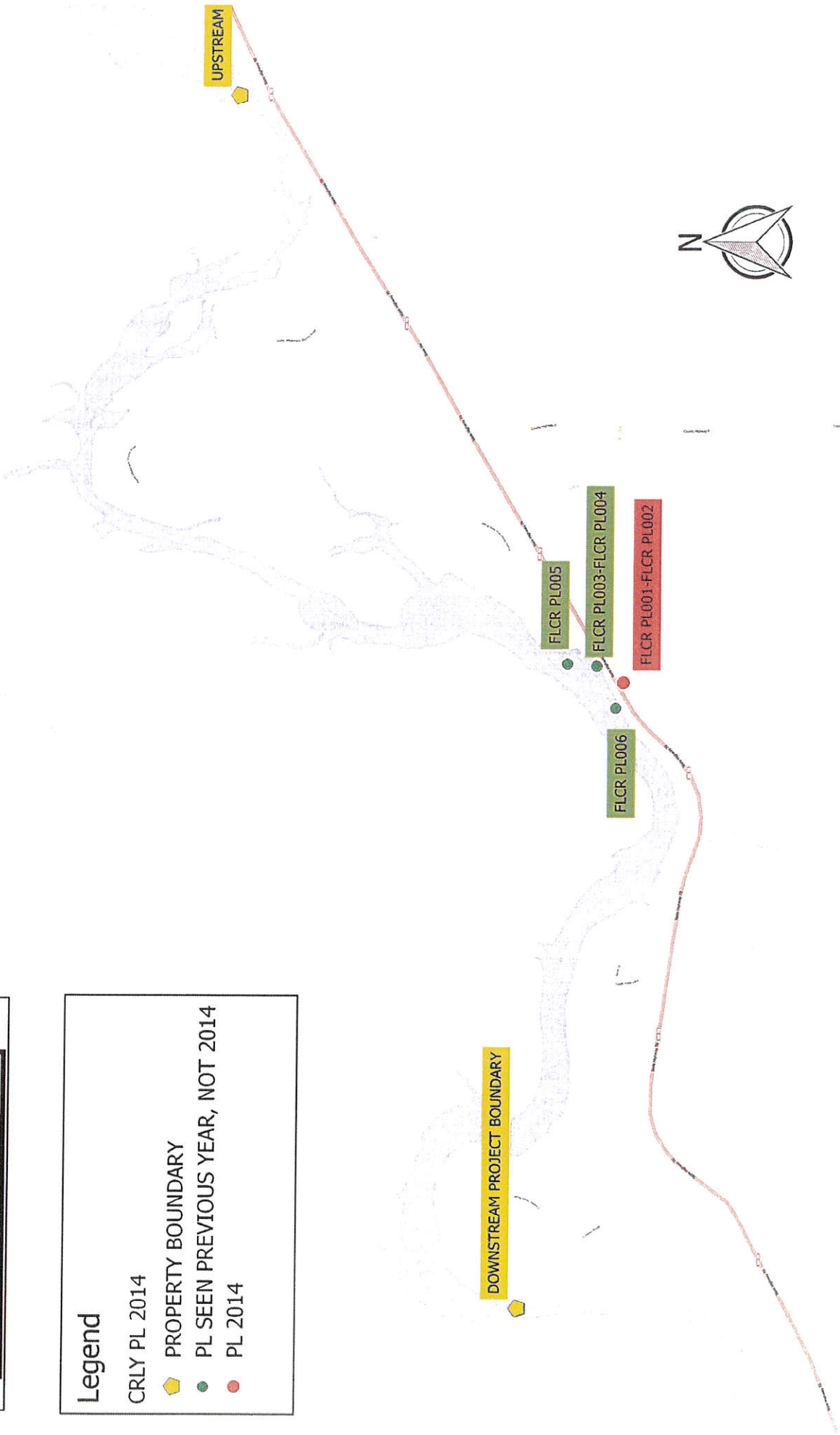
9-21-2014 FLCR PL 001- FLCR PL002

CROWLEY HYDROELECTRIC PROJECTS FERC # 2473 PURPLE LOOSESTRIFE 2014



Legend

- CRLY PL 2014
- PROPERTY BOUNDARY
- PL SEEN PREVIOUS YEAR, NOT 2014
- PL 2014



Year 2014 Purple Loosestrife Survey

Flambeau Crowley Hydroelectric Project - FERC # 2640

Date: 8-21-14 Conducted By: AKR GGR

HWL: 1427.13 TWL: 1406.4 620 cfs

Time Survey Started: 9:00 Time Survey Ended: 2 pm

Weather Conditions: partly cloudy 64°

Location of Survey Area: Tailrace Bypass Reach _____ Impoundment

Time of Sighting(s): 9 am

Location of Sighting(s) (GPS Coordinates): along road - swamp - 15 plants pulled - see pics - 1'-4' plants no beetle chews
(Attach Photos & Map if Applicable)

Purple Loosestrife:

Other Species Observed: 12 mallard ducks sawed, 5 painted turtles
1 eagle

Other Pertinent Survey Information

[Handwritten Signature]

CORRESPONDENCE

Gary Rast

From: Aneta Rietveld
Sent: Monday, January 12, 2015 12:58 PM
To: Gary Rast
Subject: FW: FLUP,PXLY,CRLY, FLLW Purple Loosestrife inventory to agencies
Attachments: 14-12-04 GGR AKR FLLW PL Inventory Draft to Agencies.pdf; 14-12-09 GGR AKR PXLY PL Inventory Draft to Agencies.pdf; 14-12-09 GGR AKR FLUP PL Inventory Draft to Agencies.pdf; 14-12-09 GGR AKR CRLY PL Inventory Draft to Agencies.pdf

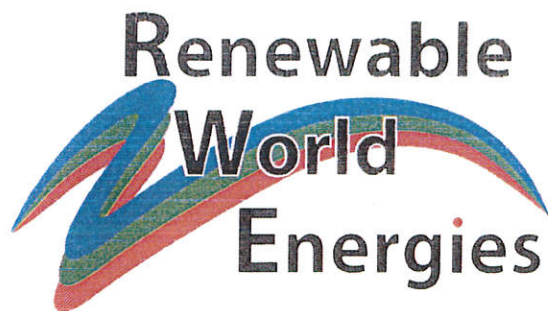



From: Aneta Rietveld
Sent: Tuesday, December 09, 2014 11:13 AM
To: cheryl.laatsch@wisconsin.gov; 'nick_utrup@fws.gov'
Subject: FW: FLUP,PXLY,CRLY, FLLW Purple Loosestrife inventory to agencies

Hi Nick and Cheryl,

Attached you will find the 2014 Purple Loosestrife inventories for Renewable World Energies, LLC's Pixley, Crowley, Flambeau Lower, and Flambeau Upper projects. All four have already been included in the SWIMS database as of the beginning of November. Please send any comments you may have to me in the next month and a half and I will file as final in the end of January. Thank you,

Aneta Rietveld
RWE Hydro
Environmental
Cell(920)293-1251



 COPY

December 9, 2014

Mr. Nick Utrup
WI/MN Ecological Services Field Office
U.S. Fish and Wildlife Service
4101 American Blvd. East
Bloomington, MN 55425

Ms. Cheryl Laatsch
Statewide FERC Coordinator
Wisconsin Department of Natural Resources
N7725 Hwy 28
Horicon, WI 53032


Re: Flambeau Crowley Project
FERC # 2473
Flambeau Hydro, LLC
Article 410, 2014 DRAFT Purple Loosetrife Inventory

Dear Ms. Laatsch, and Mr. Utrup:

Attached you will find a copy of the Flambeau Hydro, LLC "Purple Loosetrife Inventory" for 2014. This annual report has been prepared to comply with the federal hydropower license of the project and article named above and is being filed with the Federal Energy Regulatory Commission.

If you have any questions regarding this submission, please contact Mr. Gary Rast at Renewable World Energies Neshkoro office @ (855)994-9376, ext 105 or Aneta Rietveld at Renewable World Energies Norway office @ (855)994-9376, ext 108. They can also be reached via email at grast@rwehydro.com or arietveld@rwehydro.com.

Sincerely,
Renewable World Energies, LLC
Agent for the Licensee


For: Mr. Jason Kreuzscher
Vice President Operations

Attached: Flambeau Crowley 2014 Draft Purple Loosetrife Inventory

CC: RWE Hydro, Corporate

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Document Content(s)

15-01-12 GGR CRLY FINAL P L RPT TO FERC.PDF.....1-12