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NORTH AMERICAN HYDRO

North American Hydro Holdings, Inc.
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January 23, 2012

The Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

FILED
SECRETARY OF THE
COMMISSION
2012 JAN 30 P 2:37
FEDERAL ENERGY
REGULATORY COMMISSION
1-30-12

Re: ***Clam River Project, No. 9185, Flambeau Hydro, LLC***
Article 401(b)(M), Purple Loosestrife Inventory

Dear Secretary:

On behalf of Flambeau Hydro, LLC, and in accordance with the Purple Loosestrife Monitoring Plan per license article named above, North American Hydro Holdings, Inc. submits the annual Purple Loosestrife Inventory for 2011 for the above named project. Copies of the inventory have been sent to the Wisconsin Department of Natural Resources and the US Fish & Wildlife Service and no comments have been received to date.

If you have any questions or comments regarding this submission, please contact Mr. Jereme Klassy at 920-293-4628 (ext. 22).

Sincerely,
NORTH AMERICAN HYDRO HOLDINGS, INC.

For Charles Alsberg
Chief Executive Officer

CC: FERC – CRO

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Clam River Project Purple Loosestrife Inventory
July 22 & 23, 2011
FERC Project #9185 Article 401(b)(M)

Flambeau Hydro, LLC
116 State St.
Neshkoro, WI 54960

Purple Loosestrife

On August 22 and 23, 2011, Flambeau Hydro, LLC (FHLLC) performed an inventory of purple loosestrife plants at the Clam River Project in Burnett County, Wisconsin. The method of inventory was defined as follows:

> While Purple Loosestrife is blooming in August, the inventory should be conducted using a boat to survey the impoundment above the dam within the Project Boundary and on foot 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, stem density, plant density, and location with reference to established GPS coordinates. Photos and/or videotape may be taken of the largest occurrences.
>
> Example:
>
> > GPS point CLRVPL001; Location Lat N45° 54.493' Lon W92° 31.128'; Plant height 2' – 6'; Density ~5' X 50' ~40 plants single & multi-stem; Comments. Insect damage observed. Seed heads removed. Photos. No Video.
>
> The area to be inventoried shall be the shoreline of the impoundment and lands owned by FHLLC within the Project Boundary as indicated on the Project Boundary Map G-1, as filed with the Federal Energy Regulatory Commission.

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General Observations:

The Clam River Project Boundary was divided into four different areas; *the impoundment* (from approximately 3.1 miles upstream of the Clam River powerhouse downstream to the Clam River powerhouse), *FHLLC owned property within the project boundary* (FHLLC owned property adjacent to the dam and powerhouse), *the tailrace* (from the powerhouse to a point approximately 900 feet downstream), and the *by-pass reach* (from the spillway to a point approximately 800 feet downstream).

The by-pass reach was surveyed on foot and no purple loosestrife plants were observed.

The tailrace was surveyed on foot 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 nine areas of purple loosestrife were found within the project boundary. Of the nine areas, three sites were new in 2010 and one occurrence located above the project boundary in 2007, could not be reached. All occurrences were observed on lands not owned by FHLLC.

Purple loosestrife was first observed at GPS Point CLRVPL001 in 2007. This site is located upstream of the project boundary and could not be found in 2008 or 2009. The site could not be reached in 2010 due to low water conditions. The site was reached in 2011 and no purple loosestrife plants were found.

GPS Point CLRVPL002 is located inside the project boundary and was first observed in 2007. In 2009 this site contained 15 - 20 plants, an increase from 2008 when no plants were observed at the location. No plants were located at this site in 2010 or 2011.

GPS Points CLRVPL003 and CLRVPL004 make up a large 10 acre site in the higher ground and bogs within wild rice beds of the upper end of the impoundment. This site was first observed in 2007. In 2009 the amount of plants observed at this site had declined with major reductions occurring in the northern half of the 10 acre site. Overall estimates of this site by the survey crew indicated an increase in the amount of plants in 2010, but less than in the 2007 and 2008 surveys. There appears to be a considerably greater amount of purple loosestrife plants at this location in 2011, specifically near the end of the wild rice beds. This area appeared to be melding together with GPS Point CLRVPL005.

GPS Point CLRVPL005 was first observed in 2007. In 2009 this site showed an increase in purple loosestrife, with the survey crew counting 30 plants where only four plants were visible in 2008. There were no changes at this site in 2010. GPS Points CLRVPL003 and CLRVPL004 appeared to be melding together with this site in 2011.

Purple loosestrife plants were found at GPS Point CLRVPL006 from 2007-2010. All plants were pulled and destroyed in the 2007 and 2008 survey. The seed heads were clipped in 2009. Approximately 40 purple loosestrife plants were found in 2010. There appeared to be approximately the same amount of plants at this location in 2011.

GPS Point CLRVPL007 was first discovered in 2007. In 2009 only one plant was observed at this location, which was a decrease from 2008 when 5 plants were visible. No treatment was given due to its inaccessible location. No plants were found at this location in 2010 or 2011.

GPS Point CLRVPL008 was first observed in 2008. This area cannot be reached for close observation and treatment due to its location in a low lying area. In 2010, this site had wild rice growing on it and no purple loosestrife was observed. Six multi-stem plants were found in 2011.

GPS Point CLRVPL009 was first observed in 2009 and located 60' SSW of the GPS point. This one multi-stem plant showed no sign of beetle damage and there was no old cane accompanying the new growth. This site is inaccessible due to its location in a low lying area. This plant could not be located in 2010 or 2011.

GPS Point CLRVPL010 was first observed in 2009. The site is located on the left side of the river and in a very wet area. An examination found no signs of beetle damage. The site appeared to be the same in 2010. Three plants were found in this location in 2011.

GPS Point CLRVPL011 was first observed in 2010. The GPS point for this site is estimated at 345' north of the public boat launch. This site is not accessible due to being in a low lying area and its location on private property. It is also approximately 500 ft. east of the edge of the impoundment. The survey crew estimated 50 plants at this site in 2010. It was estimated that 50 plants were at this site again in 2011.

GPS Point CLRVPL012 was first observed in 2010. The one plant found was the furthest north in the impoundment that the survey crew has found purple loosestrife plants in all survey years. Due to the shallow, stump filled bay, treatment was unable to be made. Three multi-stem plants were found at this location in 2011.

GPS Point CLRVPL013 was first observed in 2010. The one plant was located on the left side of the river. This plant was found once again in 2011.

No plants were treated or pulled during the 2011 survey due to their location in low lying areas.

No insect damage was noted at any of the occurrences at the project.

These purple loosestrife plants were inventoried and have been noted on the survey sheet(s) and map(s) at the end of this report. No other occurrences of purple loosestrife were observed.

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During the inventory, a digital camera and/or video camera was used to document occurrences of purple loosestrife as noted in the survey comments at the end of this report.

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Purple Loosestrife Survey

Project:	Clam River #9185	**Datum:**	WGS 84
Date:	August 22-23, 2011	**Page:**	1 of 1
Crew:	GR & CTM		

GPS point	Latitude	Longitude	Plant Height	Stand Area	Comments
CLRVPL001	N45°54.493'	W92°31.128'	N/A	N/A	First observed in 2007. Located 1,500' upstream from the Project Boundary. No plants observed in 2008 and 2009. All plants pulled in 2007. Site could not be reached in 2010 or 2011. Video in 2007.
CLRVPL002	N45°54.812'	W92°31.014'	N/A	N/A	First observed in 2007. Located 150' W of GPS point. In 2009, some plants in full bloom, no old cane, and no beetle damage. No plants observed in 2008. No treatment in 2007 and 2009. No photos. Could not be located in 2010 or 2011.
CLRVPL003 CLRVPL004	N45°54.998' N45°55.240'	W92°30.949' W92°31.028'	1' - 7'	10 acres 150 - 200 plants multi-stem & single-stem	First observed in 2007. Located on higher gound and bogs within wild rice on either side of the channel with the GPS points as end-points. In 2009 and 2010 the amount of PL had declined with few plants visible in the northern half of the site. In 2011 the amount of plants considerably increased. The area appears to be melding with the loosestrife at CLRVPL005. No beetle damage observed. Has never been treated. This occurrence was partially recorded on video in 2007.
CLRVPL005	N45°55.284'	W92°30.756'	4' - 6'	15' x 15' 30 multi-stem plants	First observed in 2007. Located 100' S of GPS point. No beetle damage observed, old is cane present, and most plants blooming. Appears to be melding with CLRVPL003 and CLRVPL004. No treatment from 2007-2011.
CLRVPL006	N45°55.529'	W92°30.505'	2' - 4'	20' x 25' 40 plants	First observed in 2007. Located on right side of river and close to shoreline in low lying area. No beetle damage observed and no old cane present. All plants were pulled with root mass 2007 & 2008. Seed heads clipped in 2009. No treatment in 2010. Approximately same number of plants in 2011. No photos.
CLRVPL007	N45°55.541'	W92°30.606'	N/A	N/A	First observed in 2007. Location estimated. No insect damage or old cane was present. No treatment in 2007, 2008 and 2009. This plant could not be located in 2010 or 2011. No photos.

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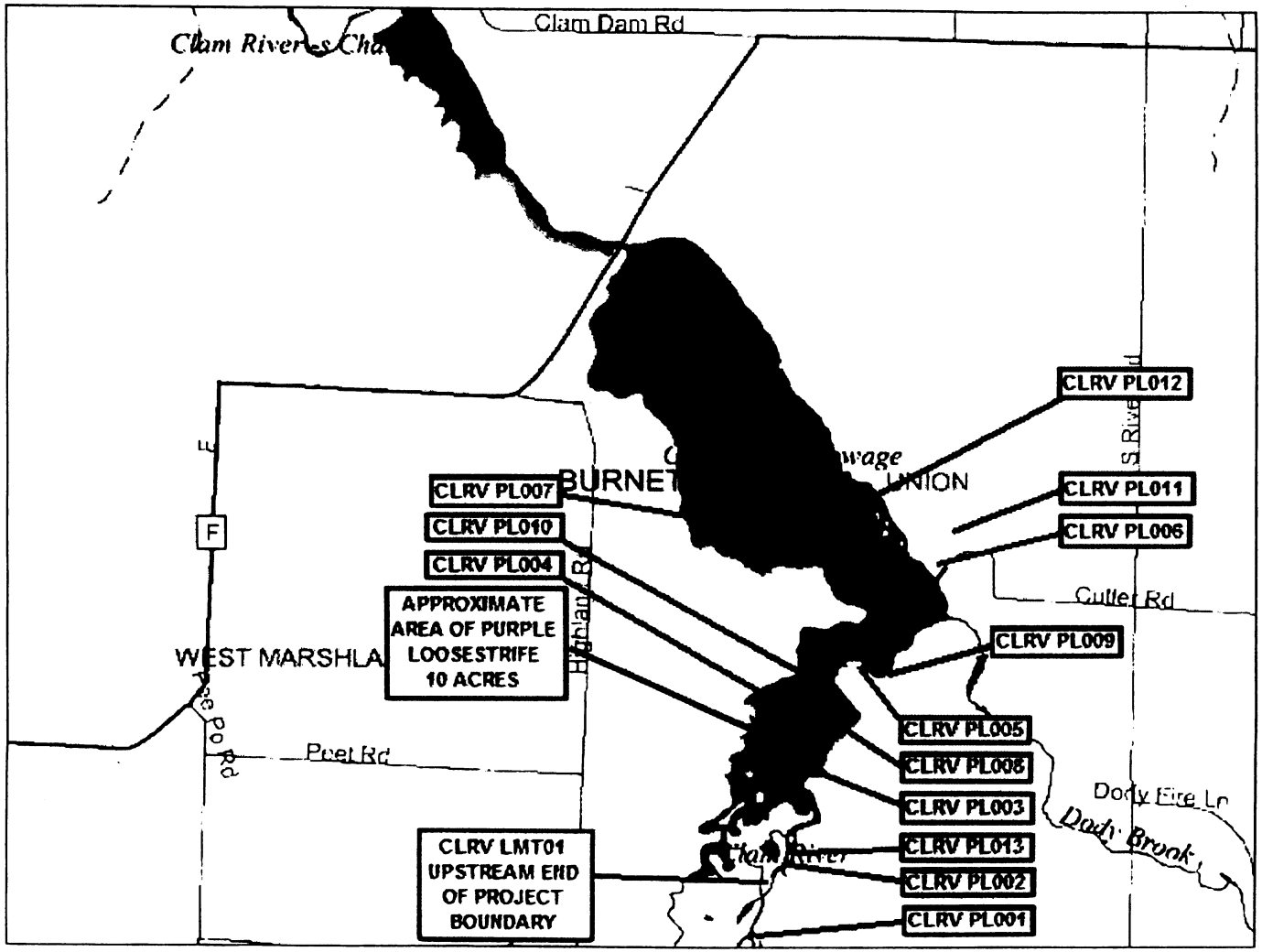
Purple Loosestrife Survey

Project:	Clam River #9185	**Datum:**	WGS 84
Date:	August 22-23, 2011	**Page:**	1 of 1
Crew:	GR & CTM		

GPS point	Latitude	Longitude	Plant Height	Stand Area	Comments
CLRVPL008	N45°55.173'	W92°30.858'	5' -7'	6 multi-stem plants	First observed in 2008. Located 470' S/SE of GPS point. No old cane present. Could not get close enough to determine beetle damage. No treatment in 2008, 2009 and 2010. Photos in 2010. Number of plants increased in 2011.
CRLVPL009	N45°55.292'	W92°30.697'	N/A	N/A	First observed in 2009. Located 60' SSW of GPS point. No treatment in 2009. This plant could not be located in 2010 or 2011. No photos.
CLRVPL010	N45°55.233'	W92°30.863'	4' - 5'	3 plants	First observed in 2009. Located on left side of river and close to shoreline in low lying area. No beetle damage. No treatment in 2009 and 2010. Three plants found in 2011. No photos.
CLRV PL011	N45°55.568'	W92°30.495'	4' - 6'	50 Plants	First observed in 2010. GPS point is estimated at 345' north of CLRV BR001 boat launch. Approx. 50 plants found again in 2011. No treatment either year.
CLRV PL012	N45°55.685'	W92°30.874'	6'	3 multi-stem plants	First observed in 2010. Located on the east side of impoundment and close to shoreline in low lying area. The site is located 83 yards east of GPS point. Three multi-stem plants found in 2011. No treatment.
CLRV PL013	N45°54.871'	W92°30.968'	6'	1 multi-stem plant	First observed in 2010. Located on left side of river and close to rivers edge in low lying area. One plant found again in 2011. No beetle damage. No treatment.

Clam River Purple Loosestrife Location Map 2011

Clam River Reservoir, FERC #9185



Legend

- Dams
- Major Highways
  - Interstate
  - State Highway
  - U.S. Highways
- County Roads
- Local Roads
- 24K County Boundaries
  - Civil Towns
  - Civil Town
- 24K Open Water
- 24K Rivers and Shorelines
  - Intermittent
  - Fluctuating
  - Perennial
- Cities and Villages
  - Village
  - City

Purple Loosestrife Observed in 2011

Purple Loosestrife Observed in Previous Years and not in 2011

Scale: 1:28,470

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

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December 21, 2011

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Field Supervisor
U.S. Fish and Wildlife Service
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New Franken, WI 54229

Re: Clam River Project, No. 9185, Flambeau Hydro, LLC
Article 401(b)(M), Purple Loosestrife Inventory

Dear Mr. Roesler, Ms. Laatsch, and Mr. Fasbender:

Attached is a copy of the Flambeau Hydro, LLC "Purple Loosestrife Inventory" for 2011. 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 or comments regarding this submission, please contact Mr. Jereme Klassy at 920-293-4628 (ext. 22).

Sincerely,
NORTH AMERICAN HYDRO HOLDINGS, INC.

Charles Alsberg
Chief Executive Officer

11/12/21 CLRV 2011 Loosestrife Survey to Agencies

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Document Content(s)