



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001

www.wisconsinpublicservice.com

December 14, 2015

FERC Project No. 1999
NATDAM No. WI00752

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

Dear Secretary Bose:

Wausau Hydroelectric Project
2015 Purple Loosestrife Monitoring Report

In accordance with the order Amending Purple Loosestrife Monitoring Plan issued October 23, 2008, Wisconsin Public Service (WPS) is required to provide annual updates on the *Galerucella sp.* Beetles (beetles) release sites and purple loosestrife populations.

In 2015, WPS released beetles that were reared on potted purple loosestrife plants. Approximately 4000 beetles were released in two different locations.

WPS conducted a purple loosestrife survey on July 14, 2015. The results of the survey indicated a total of eight (8) purple loosestrife colonies. Beetle feeding was noted at four (4) of those colonies. The purple loosestrife figure and datasheet provide the location of the purple loosestrife, location of beetle feeding and the beetle release locations. The figure and datasheet are included in Appendix 1.

WPS created a spreadsheet to summarize the last seven (7) years of purple loosestrife survey and beetle release data. The spreadsheet is located in Appendix 2. A review of the data shows that the number of colonies has ranged between eight (8) and fifteen (15) over the seven-year period. Currently there are eight (8) colonies. The percentage of colonies with beetle feeding has ranged from 33% to 93%. Currently 50% of the colonies have beetle feeding.

This review of data shows that the beetle populations are still not present in all areas of the reservoir. In 2016, WPS proposes to continue releasing beetles as a biological control measure in an attempt to establish healthy beetle populations throughout the entire reservoir.

A copy of the report was submitted to the Wisconsin Department of Natural Resources (WDNR) and US Fish and Wildlife Service (FWS) on October 27, 2015. No comments on the report were received from WDNR or FWS. Documentation of Consultation is located in Appendix 3.

Ms. Kimberly D. Bose
December 14, 2015
Page 2 of 2

If you have any questions regarding this letter, please contact James Nuthals at (920) 433-1460 or William Bosacki at (920) 433-4977.

Sincerely,

William K. Bosacki for

Gil Snyder
Power Generation Manager

Enc: Appendix 1, Appendix 2, Appendix 3

cc:	Mr. William Bosacki, WPS - D2	Mr. Brad Menning, WPS - MERH
	Mr. Edward Brandt, WPS - CRI	Mr. John Myers, WPS - D2
	Mr. Todd Jastremski - We Energies	Mr. James Nuthals, WPS D-2
	Ms. Joan Johaneck, WPS - D2	Mr. John Zygaj, FERC - CRO
	Mr. Darrin M. Johnson, WPS - STP	

APPENDIX 1

2015 PURPLE LOOSESTRIFE FIGURE AND DATASHEETS



Lincoln	Langlade
 Marathon	
Wood	Portage

2015 Wausau Purple Loosestrife Survey

0 1,000 2,000 3,000 4,000
Feet

Project Boundary	Purple Loosestrife
★ Beetle Release Site	○ 0-5 Plants
▲ New Erosion Site	○ 6-50 Plants
	● >50 Plants

Date: 9/29/2015

Image courtesy of USGS Earthquake Geophysics SID © 2015 Microsoft Corporation © 2010 NAVTEQ © AIG

APPENDIX 2

PURPLE LOOSESTRIFE SUMMARY WORKSHEET

Wausau Project

Year	Total Number of Colonies	Number of Small Colonies (0-5)	Number of Medium Colonies (6-50)	Number of Large Colonies (50+)	Number of Colonies with Beetle Feeding	Percentage of Total Colonies with Beetle Feeding	Beetles Released
2009	8	7	0	1	4	50%	500
2101	13	11	0	2	5	38%	2000
2011	8	6	0	2	6	75%	2000
2012	15	14	1	0	14	93%	4000
2013	12	10	1	1	4	22%	3000
2014	10	9	1	0	5	50%	3000
2015	8	6	2	0	4	50%	4000
7 year average	10.6	9.0	0.7	0.9	6.0	54%	

APPENDIX 3

DOCUMENTATION OF CONSULTATION



Wisconsin Public Service Corporation
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October 27, 2015

Ms. Cheryl Laatsch
WDNR-FERC Coordinator
101 S Webster St
GEF 2-7th Floor
Madison, WI 53707

Mr. Nick Utrup
USFWS Ecological Services Field Office
4101 American Blvd East
Bloomington, MN 55425

Dear Ms. Laatsch and Mr. Utrup:

Wausau Hydroelectric Project (P-1999)
2015 Noxious Plants Monitoring Report

Per the order Amending Purple Loosestrife Monitoring Plan issued October 23, 2008, Wisconsin Public Service (WPS) is to provide annual updates on the *Galerucella sp.* Beetles (beetles) release sites and purple loosestrife populations.

In 2015, WPS released beetle that were reared on potted purple loosestrife plants. Approximately 4000 beetles were released in two different locations.

WPS conducted a purple loosestrife survey on July 14, 2015. The results of the survey indicated a total of eight (8) purple loosestrife colonies. Beetle feeding was noted at four of those colonies. The purple loosestrife figure and datasheet provide the location of the purple loosestrife, location of beetle feeding and the beetle release locations. The figure and datasheet are included in Appendix A.

WPS created a spreadsheet to summarize the last seven (7) years of purple loosestrife survey and beetle release data. The spreadsheet is located in Appendix B. A review of the data shows that the number of colonies has ranged between eight (8) and fifteen (15) over the seven-year period and currently sits at eight (8). The percentage of colonies with beetle feeding has ranged from 33% to 93% and currently sits at 50%.

This review of data shows that the beetle populations are still not present in all areas of the reservoir. In 2016, WPS proposes to continue releasing beetles as a biological control measure in an attempt to establish healthy beetle populations throughout the entire reservoir.

If you have any questions or comments regarding this report, please provide them within 30 days to Darrin Johnson at (715) 345-7509 or via email at dmjohnson@integrysgroup.com.

Sincerely,


Darrin Johnson
Environmental Consultant

Appendix A

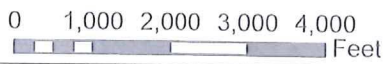
Wausau Purple Loosestrife Figure and Datasheets



Image courtesy of USGS Earthquake Geophysics SID © 2015 Microsoft Corporation © 2010 NAVTEQ © AND

Lincoln	Langlade
Wood	Portage

2015 Wausau Purple Loosestrife Survey



- | | |
|---------------------|--------------------|
| Project Boundary | Purple Loosestrife |
| Beelle Release Site | 0-5 Plants |
| New Erosion Site | 6-50 Plants |
| | >50 Plants |

Date: 9/29/2015

Appendix B

Wausau Purple Loosestrife Summary Spreadsheet

Wausau Project

Year	Total Number of Colonies	Number of Small Colonies (0-5)	Number of Medium Colonies (6-50)	Number of Large Colonies (50+)	Number of Colonies with Beetle Feeding	Percentage of Total Colonies with Beetle Feeding	Beetles Released
2009	8	7	0	1	4	50%	500
2101	13	11	0	2	5	38%	2000
2011	8	6	0	2	6	75%	2000
2012	15	14	1	0	14	93%	4000
2013	12	10	1	1	4	22%	3000
2014	10	9	1	0	5	50%	3000
2015	8	6	2	0	4	50%	4000
7 year average	10.6	9.0	0.7	0.9	6.0	54%	

NO COMMENTS RECEIVED FROM WDNR

NO COMMENTS RECEIVED FROM FWS