



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

October 22, 2010

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

Dear Secretary Bose:

FERC Project No. 2525, No. 2595, No. 2522, No. 2546, No. 2560 and No. 2581

As per the Order Approving the Updated Comprehensive Land and Wildlife Management Plan for the Caldron Falls Project (FERC Project No. 2525), High Falls Project (FERC Project 2595), Johnson Falls Project (FERC Project 2522), Sandstone Rapids Project (FERC Project No. 2546) and Potato Rapids Project (FERC Project No. 2560) issued on March 29, 2006, Wisconsin Public Service Corporation (WPS) is submitting the survey results for purple loosestrife and zebra mussels.

Additionally, as per the Order Approving Supplement to Comprehensive Land and Wildlife Management Plan for the Peshtigo Project (FERC Project No. 2581) issued on July 30, 2009, WPS is submitting year two of a five-year purple loosestrife biological control and monitoring effort.

A survey for purple loosestrife was completed for the Caldron Falls, High Falls, Johnson Falls, Sandstone Rapids and Potato Rapids projects on July 19, 2010. No purple loosestrife was identified at any of the above mentioned projects. Purple loosestrife was again observed at the Peshtigo River Hydroelectric Project.

WPS released *Galerucella sp.* beetles (beetles) at the Peshtigo River Hydroelectric Project on July 6, 2010. WPS estimates that the total numbers of beetles released was approximately 10,000 beetles.

WPS completed a survey of the Peshtigo Project on July 19, 2010. The survey results indicated there remained a total of 25 purple loosestrife communities; however this included the addition of five new small colonies and the subtraction of five previously existing colonies as compared to the 2009 survey results.

Additionally, when compared to the 2009 survey results, the 2010 survey results showed several new areas where beetle feeding was observed. Only one site had beetle feeding in 2009, compared to eight in 2010. Also, heavy beetle feeding was observed at Site 6, where the beetles were released in 2010. Site 6 had a colony plant vigor rating of 12 in 2009 compared to 8 in 2010.

In addition, the overall plant vigor average for each colony was reduced from 11.32 in 2009 to 10.6 in 2010.

Ms. Kimberly D. Bose
October 22, 2010
Page 2 of 2

The 2010 Peshtigo Project purple loosestrife location map including colony location and identification number and the general plant vigor survey form are included in Appendix A. Eurasian Water Milfoil surveys are completed every third year with the next survey scheduled for 2011.

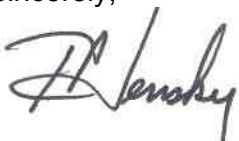
Monthly inspections of substrate samplers for the presence of zebra mussels were conducted for all six projects for the months of May through September. Zebra mussels were not found on any of the substrate samples during any of the monthly 2010 inspections.

However, zebra mussels were observed during drawdown activities at the Peshtigo River Hydroelectric Project in September of 2010. During drawdown conditions in 2009, zebra mussels were also identified at the Potato Rapids Hydroelectric Project. Appendix B provides a copy of the monthly substrate sampling reports for each hydroelectric project.

The survey results were provided to the resource agencies on September 14, 2010. The resource agencies did not provide comments. Documentation of submittal of the survey results to the resource agencies is attached as Appendix C.

Should you have any questions relative to this material, please do not hesitate to contact Jamie Nuthals at (920) 433-1460.

Sincerely,



Terry P. Jensky
Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation

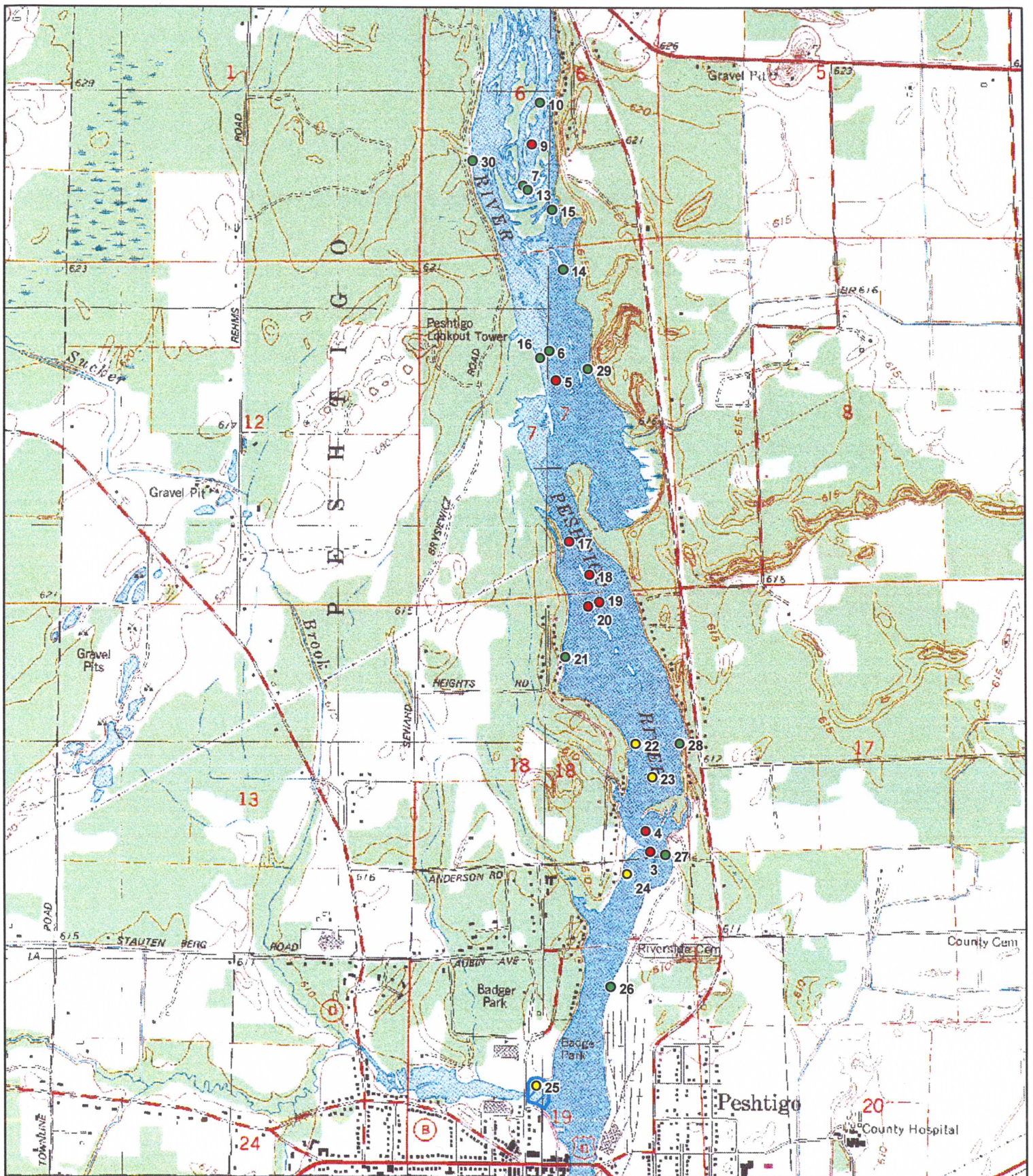
Enc.

cc: Ms. Joan Johaneck, WPS - D2
Mr. Bruce Crocker, WPS - D2
Mr. Bill Bosacki, WPS - CRI

Mr. Howard Giesler, WPS - PUL
Ms. Carlisa Linton, FERC - DC
Mr. Ed Brandt, WPS - CRI

APPENDIX A

PURPLE LOOSESTRIFE SURVEY FIGURE AND SURVEY FORM – 2010



Peshtigo River Purple Loosestrife Survey 2010

Legend

- 0-5 Plants
- 6-50 Plants
- >50 Plants
- Purple Loosestrife Area



0 1,000 2,000 Feet

08/17/2010

Purple Loosestrife Survey Form

Hydroelectric Project Peshtigo Hydro Electric Project

Inspection Date 7/19/2010

General Plant Vigor

Colony Number	Colony Size S 0-5 M 6-50 L >50	Plant Height 4=>4ft 3=2-4ft 2=1-2 ft 1= <1 ft	Plant Flowering 4=100% of plants 3=51-99% of plants 2=26-50% of plants 1= <25% of plants	Beetle Feeding 4=0-25% feeding 3=26-50% feeding 2=51-75% feeding 1=76-100% feeding	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS #
1	NO LONGER ABLE TO IDENTIFY						
2	NO LONGER ABLE TO IDENTIFY						
3	L	4	3	4	11		93
4	L	4	3	4	11	minimal feeding	94
5	L	2	4	4	10	minimal feeding	95
6	M	3	3	2	8	heavy feeding	96
7	S	2	4	2	10	heavy feeding	97
8	NO LONGER ABLE TO IDENTIFY						
9	L	3	4	4	11	release spot for 2011	99
10	S	4	4	4	12		100
11	NO LONGER ABLE TO IDENTIFY						

Purple Loosestrife Survey Form

Hydroelectric Project Peshtigo Hydro Electric Project

Inspection Date 7/19/2010

General Plant Vigor

Colony Number	Colony Size S 0-5 M 6-50 L >50	Plant Height 4=>4ft 3=2-4ft 2=1-2 ft 1= <1 ft	Plant Flowering 4=100% of plants 3=51-99% of plants 2=26-50% of plants 1= <25% of plants	Beetle Feeding 4=0-25% feeding 3=26-50% feeding 2=51-75% feeding 1=76-100% feeding	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS #
12	NO LONGER ABLE TO IDENTIFY						
13	S	3	4	4	11		103
14	S	3	4	4	11		104
15	S	3	4	4	11		105
16	S	3	4	4	11		106
17	L	4	4	4	12		107
18	M	4	3	1	8	release site in 2010	108
19	L	4	4	4	12		109
20	L	4	4	4	12		110
21	S	3	4	4	11		111
22	M	4	4	3	11		112

APPENDIX B

ZEBRA MUSSEL SUBSTRATE SAMPLING REPORTS – 2010

ZEBRA MUSSEL INSPECTION RESULTS PESHTIGO RIVER HYDROELECTRIC PROJECTS

HYDRO NAME:

Caldron Falls

Johnson Falls

Potato Rapids

Grand Rapids

High Falls

Sandstone Rapids

Peshtigo

Date	Inspection Type		No Zebra Muscles Present	Zebra Muscles Present	Operator	Comments
	Monthly	During Drawdown				
3-5	✓		✓		MCD	
4-9	✓		✓		MCD	
5-13	✓		✓		MCD	
6-22	✓		✓		MCD	
7-23	✓		✓		MCD	
8-19	✓		✓		MCD	
9-11	✓		✓		T.F.N.	

ZEBRA MUSSEL INSPECTION RESULTS PESHTIGO RIVER HYDROELECTRIC PROJECTS

HYDRO NAME:

- Caldron Falls
 Johnson Falls
 Potato Rapids
 Grand Rapids
 High Falls
 Sandstone Rapids
 Peshtigo

Date	Inspection Type		No Zebra Muscles Present	Zebra Muscles Present	Operator	Comments
	Monthly	During Drawdown				
3/5/10	X		X		MCD	
4/9/10	X		X		MCD	
5-13-10	X		X		MCD	need to replace
6-21-10	X		X		MCD	
7-14-10	X		X		MCD	
8-16-10	<u>X</u>		X		MCD	need to replace downstream
9-11-10		X		X	T.F.U	

APPENDIX C

DOCUMENTATION OF SUBMITTAL – 2010



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

September 14, 2010

Mr. Dale Simon – Chief Biologist
Wisconsin Department of Natural Resources
101 S. Webster Street WT/4
PO Box 7921
Madison, WI 53703

Dear Mr. Simon:

FERC Project No. 2525, No. 2595, No. 2522, No. 2546, No. 2560, and No. 2581

As per the Order Approving the Updated Comprehensive Land and Wildlife Management Plan for the Caldron Falls Project (FERC Project No. 2525), High Falls Project (FERC Project 2595), Johnson Falls Project (FERC Project 2522), Sandstone Rapids Project (FERC Project No. 2546) and Potato Rapids Project (FERC Project No. 2560) issued on March 29, 2006, Wisconsin Public Service Corporation (WPS) is submitting the survey results for purple loosestrife and zebra mussels.

Additionally, as per the Order Approving Supplement to Comprehensive Land and Wildlife Management Plan for the Peshtigo Project (FERC Project No. 2581) issued on July 30, 2009, WPS is submitting year two of a five year purple loosestrife biological control and monitoring effort.

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WPS released *Galerucella sp.* beetles (beetles) at the Peshtigo River Hydroelectric Project on July 6, 2010. WPS estimates that the total numbers of beetles released was approximately 10,000 beetles.

WPS completed a survey of the Peshtigo Project on July 19, 2010. The survey results indicated there remained a total of 25 purple loosestrife communities; however this included the addition of five new small colonies and the subtraction of five previously existing colonies as compared to the 2009 survey results.

Additionally, when compared to the 2009 survey results, the 2010 survey results showed several new areas where beetle feeding was observed. Only one site had beetle feeding in 2009, compared to eight in 2010. Also, heavy beetle feeding was observed at Site 6, where the beetles were released in 2010. Site 6 had a colony plant vigor rating of 12 in 2009 compared to 8 in 2010.

In addition, the overall plant vigor average for each colony was reduced from 11.32 in 2009 to 10.6 in 2010.

The 2010 Peshtigo Project purple loosestrife location map including colony location and identification number and the general plant vigor survey form are included in Appendix A.

Eurasian Water Milfoil surveys are completed every third year with the next survey scheduled for 2011.

Monthly inspections of substrate samplers for the presence of zebra mussels were conducted for all six projects for the months of May through September. Zebra mussels were not found on any of the substrate samples during any of the monthly 2010 inspections.

However, zebra mussels were observed during drawdown activities at the Peshtigo River Hydroelectric Project in September of 2010. During drawdown conditions in 2009, zebra mussels were also identified at the Potato Rapids Hydroelectric Project. Appendix B provides a copy of the monthly substrate sampling reports for each hydroelectric project.

If you have any questions, please do not hesitate to call me at (920) 433-1460.

Sincerely,



James Nuthals
Environmental Services-
Natural Resource Management

Enc.

cc: Ms. Joan Johaneck, WPS – D-2
Mr. Bruce Crocker, WPS – D-2
Mr. Bill Bosacki, WPS –CRI

Mr. Greg Sevener, WDNR
Mr. Michael Donofrio, WDNR
Mr. Ed Brandt, WPS-CRI



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

September 14, 2010

Mr. Nicholas Utrup
U.S. Fish & Wildlife Service
Department of the Interior
2661 Scott Tower Drive
New Franken, WI 54229-9565

Dear Mr. Utrup:

FERC Project No. 2525, No. 2595, No. 2522, No. 2546, No. 2560, and No. 2581

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James Nuthals
Environmental Services-
Natural Resource Management

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cc: Ms. Joan Johaneck, WPS – D-2
Mr. Bruce Crocker, WPS – D-2

Mr. Ed Brandt, WPS-CRI
Mr. Bill Bosacki, WPS –CRI



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

September 14, 2010

Mr. Phil Moy
UW Manitowoc
705 Viebann Street
Manitowoc, WI 54220

Dear Mr. Moy:

FERC Project No. 2525, No. 2595, No. 2522, No. 2546, No. 2560, and No. 2581

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Mr. Bruce Crocker, WPS – D-2

Mr. Ed Brandt, WPS-CRI
Mr. Bill Bosacki, WPS –CRI

The Appendix A and Appendix B are identical to the Appendix A and Appendix B being provided to FERC. The Appendices have not been reproduced in this correspondence in effort to reduce the size of the document.