



Wisconsin Public Service Corporation

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

October 21, 2009

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, Eurasian water milfoil (EWM) and zebra mussels.

A survey for purple loosestrife was completed for the Caldron Falls, High Falls, Johnson Falls, Sandstone Rapids and Potato Rapids projects on July 23, 2009. No purple loosestrife was identified at any of the above mentioned projects.

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 one of a five year purple loosestrife biological control and monitoring effort.

WPS released *Galerucella sp.* beetles (beetles) at the Peshtigo River Hydroelectric Project on July 21, 2009. WPS estimates that the total numbers of beetles released was approximately 8,000 beetles.

WPS worked with the Marinette County Jail to raise the beetles during the spring/summer of 2009. WPS provided the beetles and associated materials to the Marinette County Jail. Marinette County Jail inmates then raised the beetles until the beetles were ready to be released. The inmates used the beetle raising program to earn science course credits, which were applied to the credits necessary to earn their Graduate Equivalence Degrees.

On August 7, 2009, WPS completed a survey of the Peshtigo Project. The survey results indicated that there are a total of 25 purple loosestrife communities and only 1 of the communities has plant vigor of less than good and signs of beetle feeding. This however was anticipated, as it is the first year of beetle releases. The 2009 survey will serve as a good baseline for the five year project.

Ms. Kimberly D. Bose, Secretary
October 21, 2009
Page 2 of 2

The 2009 Peshtigo Project purple loosestrife location map including community 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 2009 inspections.

However, zebra mussels were identified at the Potato Rapids Hydroelectric Project during drawdown activities this June. A total of less than one hundred adult mussels were identified on the upper end of the Potato Rapids Project. An aquatic invasive animal incident report form was provided to the Wisconsin Department of Natural Resources. A summary of the substrate sampler results has been included in Appendix B.

The survey results were provided to the resource agencies on September 21, 2009. 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,

Handwritten signature of Terry P. Jensky in black ink, with the word "for" written below the signature.

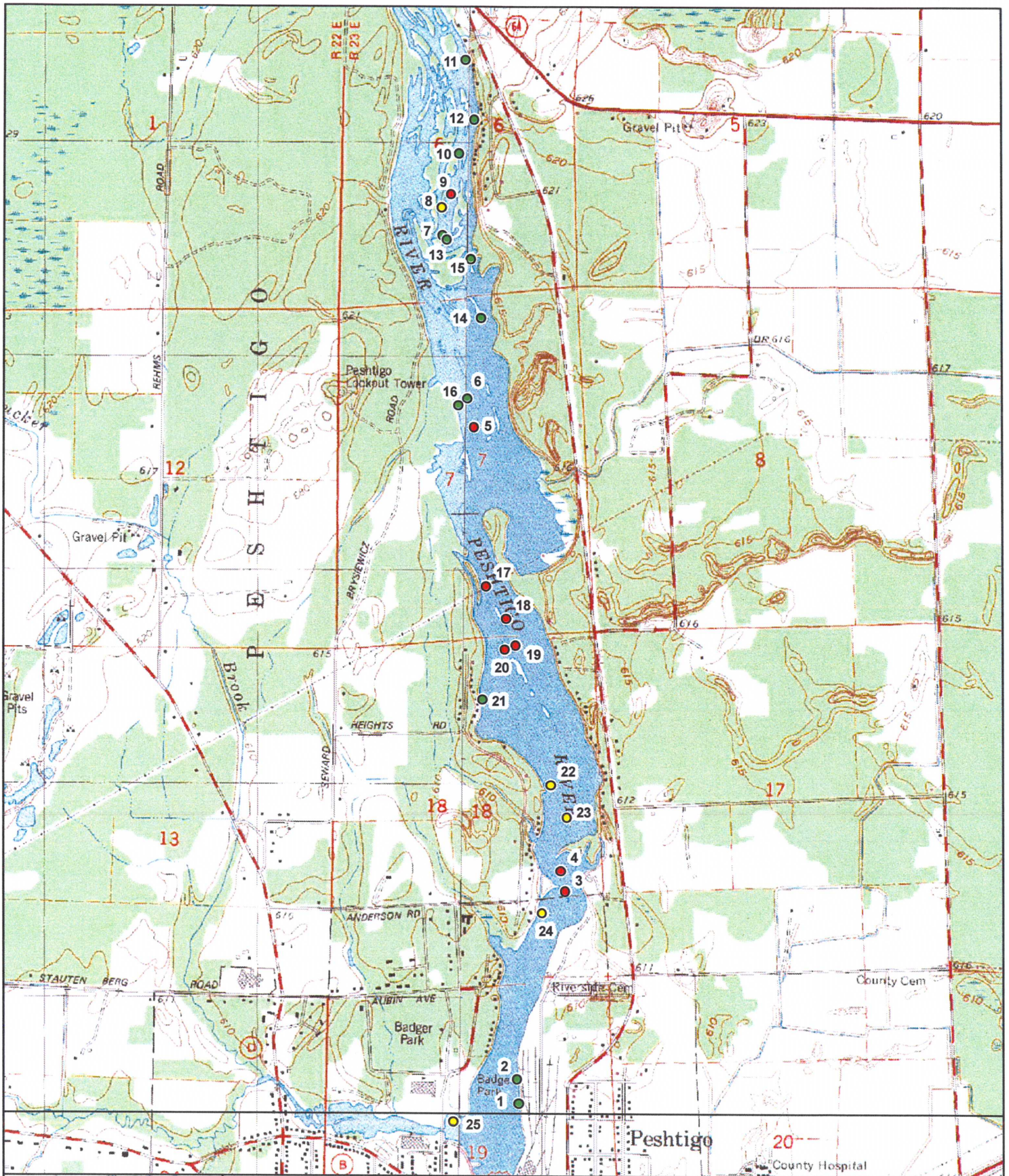
Terry P. Jensky
Vice President - Energy Supply Operations
Telephone: (920) 433-2900

syx

Enc.

cc: Ms. Carlisa Linton, FERC - D.C.
Mr. Bruce Crocker, WPSC - D2
Mr. Howard Giesler, WPSC - PUL

Mr. Edward Brandt, WPSC - WMAR
Ms. Joan Johaneck, WPSC - D2
Mr. Michael Henderson, WPS - CRI



Peshtigo River Purple Loosestrife Survey 2009

Legend

- 0-5 Plants
- 6-50 Plants
- >50 Plants

0 1,000 2,000 Feet

08/31/2009

Purple Loosestrife Survey Form

Hydroelectric Project Peshtigo Hydro Electric Project

Inspection Date 8/7/2009

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	S	3	4	4	11		91
2	S	3	4	4	11		92
3	L	4	4	4	12	possible release 2010	93
4	L	4	4	4	12		94
5	L	3	4	4	11		95
6	S	3	4	3	10		96
7	S	4	4	4	12		97
8	M	4	4	4	12		98
9	L	4	4	4	12	possible release 2010	99
10	S	4	4	4	12		100
11	S	3	4	4	11		101

Purple Loosestrife Survey Form

Hydroelectric Project Peshtigo Hydro Electric Project

Inspection Date 8/7/2009

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	S	3	4	4	11		102
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	L	4	4	4	12	best for release 2010	108
19	L	4	4	4	12		109
20	L	4	4	4	12		110
21	S	4	4	4	12		111
22	M	4	4	3	11		112

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				
4/21/09	✓		✓		MN	
5/19/09	✓		✓		MN	
6/3/09	✓		✓		MN	
7/6/09	✓		✓		MN	
8/26/09	✓		✓		MN	
9/3/09	✓		✓		MN	

No Zebra Muscle found During Diving insp. 8-6-09. (Upstream side of Dam)

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				
3/30/09		✓	✓		MN	During Draw Down
4/21/09	✓		✓		MN	
5/7/09	✓		✓		MN	
6/3/09	✓		✓		MN	
7/6/09	✓		✓		MN	
8/26/09	✓		✓		MN	No Zebra Muscles Found During Underwater Work on DAM. Veolia Divers.
9/3/09	✓		✓		MN	



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

September 21, 2009

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

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, Eurasian water milfoil (EWM) and zebra mussels.

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WPS released *Galerucella sp.* beetles (beetles) at the Peshtigo River Hydroelectric Project on July 21, 2009. WPS estimates that the total numbers of beetles released was approximately 8,000 beetles.

Additionally, WPS completed a survey of the Peshtigo Project on August 7, 2009. The survey results indicated that there are a total of 25 purple loosestrife communities and only 1 of the communities has plant vigor of less than good and signs of beetle feeding. This is however was anticipated, as it is the first year of beetle releases. The 2009 survey will serve as a good baseline for five year project.

Mr. Nicholas Utrup
September 21, 2009
Page 2 of 2

The 2009 Peshtigo Project purple loosestrife location map including community location and identification number and the general plant vigor survey form are included in Appendix A.

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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 2009 inspections.

However, zebra mussels were identified at the Potato Rapids Hydroelectric Project during drawdown activities this June. A total of less than one hundred adult mussels were identified on the upper end of the Potato Rapids Project. An aquatic invasive animal incident report form was provided to the Wisconsin Department of Natural Resource. A summary of the substrate sampler results has been included in Appendix B.

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

Sincerely,



James D. Nuthals
Environmental Services
Natural Resource Management
Wisconsin Public Service Corporation

syx

Enc.

cc: Ms. Joan Johaneck, WPS - D2
Mr. Bruce Crocker, WPS - D2
Mr. Michael Henderson, WPS - CRI

Mr. Greg Sevener, WDNR
Mr. Michael Donofrio, WDNR



Wisconsin Public Service Corporation

700 North Adams Street

P.O. Box 19001

Green Bay, WI 54307-9001

September 21, 2009

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, Eurasian water milfoil (EWM) and zebra mussels.

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Mr. Dale Simon
September 21, 2009
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Sincerely,



James D. Nuthals
Environmental Services
Natural Resource Management
Wisconsin Public Service Corporation

syx

Enc.

cc: Ms. Joan Johaneck, WPS - D2
Mr. Bruce Crocker, WPS - D2
Mr. Michael Henderson, WPS - CRI
Mr. Greg Sevener, WDNR
Mr. Michael Donofrio, WDNR



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

September 21, 2009

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

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), Peshtigo Project (FERC No. 2581) and Potato Rapids Project (FERC Project No. 2560) issued on March 29, 2006, Wisconsin Public Service Corporation (WPS) is submitting the survey results for zebra mussels.

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Sincerely,

A handwritten signature in black ink, appearing to read 'J. Nuthals', is written over a light blue horizontal line.

James D. Nuthals
Environmental Services
Natural Resource Management
Wisconsin Public Service Corporation

syx

Enc.

cc: Ms. Joan Johaneck, WPS - D2
Mr. Bruce Crocker, WPS - D2
Mr. Michael Henderson, 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.

Document Content(s)

2009PeshtigoRiverExoticSpeciesFERCLetter.PDF.....	1-2
AppendixA-2009.PDF.....	3-6
AppendixB-2009.PDF.....	7-12
AppendixC-2009.PDF.....	13-18