



ORIGINAL

Wisconsin River Power Company  
(owners of the Peterwell & Castle Rock Hydroelectric Plants)  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 29, 2008

Ms. Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
Mail Code: DTCA, HL 21.3  
888 First Street, N.E.  
Washington, DC 20426

RECEIVED  
FEDERAL ENERGY  
REGULATORY  
COMMISSION  
OCT 30 P 12:44

Dear Secretary Bose:

164

Peterwell & Castle Rock Project (FERC Project No. 1984-078) Invasive Species Monitoring

As per the Federal Energy Regulatory Commission (FERC) order approving Purple Loosestrife and Eurasian Water Milfoil Monitoring Plan for the Peterwell & Castle Rock Project (FERC Project No. 1984-078) issued on January 22, 2003. Wisconsin River Power Company (WRPCO) is submitting the survey results for purple loosestrife and zebra mussels.

The Peterwell & Castle Rock Projects were surveyed for purple loosestrife from July 8<sup>th</sup> through the 10<sup>th</sup>, 2008. The presence of purple loosestrife was identified on the Peterwell Project, mainly on the north end. A total of 16 locations were identified. No purple loosestrife colonies were identified on the Castle Rock Project.

WRPCO again reported *Galerucella* Beetle feeding. Feeding was observed on all colonies with a population of greater than five plants. Only three small colonies were observed with having no feeding. Those colonies were cut and sprayed.

Also, the number of colonies of purple loosestrife was reduced from 40 colonies observed in 2007 to 16 colonies observed in 2008.

WRPCO is planning to submit supplement to the Purple Loosestrife and Eurasian Water Milfoil Monitoring Plan for the Peterwell & Castle Rock Project (FERC Project No. 1984-078) issued on January 22, 2003, that will request in part, to release *Galerucella* Beetles at the Projects. WPSC will provide this information to the resource agencies for comment prior to submitting to the FERC. It is anticipated that the supplement will be submitted prior to January 1, 2009.

The Peterwell & Castle Rock Project 2008 purple loosestrife results and figures, removal methods and a comparison of the 2007 vs. 2008 purple loosestrife amounts and colony size are included in Appendix A.

**Ms. Kimberly D. Bose, Secretary**  
**October 29, 2008**  
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**EWM surveys are completed tri-annually with the next survey scheduled for 2009.**

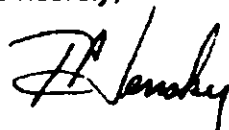
**Per the FERC correspondence to WRPCO, dated June 5, 2006, WRPCO is required to conduct monthly inspections for zebra mussels on the Petenwell & Castle Rock Flowages. The inspections are to be conducted once each month from May to September on an annual basis. The surveys are also to be conducted during the winter drawdown period and for any maintenance related drawdown.**

**Zebra mussels are known to be present in the Petenwell Project, however, no zebra mussels were observed during the sub sampler survey activities at the Petenwell or Castle Rock Projects. The results of the monthly surveys are attached as Appendix B.**

**Documentation of submittal of these results to the Agencies can be found in Appendix C.**

**Should you have any questions or require additional information, please do not hesitate to contact James Nuthals at (920) 433-1460**

**Sincerely,**



**Terry P. Jensky**  
**Vice President - Energy Supply Operations**  
**for Wisconsin Public Service Corporation**  
**Telephone: (920) 433-2900**

**syx**

**Enc.**

**cc: Ms. Joan Johaneck, WPSC - D2**  
**Mr. Virgil Schlorke, WRPCO**  
**Mr. Bruce Crocker, WPSC - D2**

**Mr. Howard Giesler, WPSC - PUL**  
**Mr. Gil Snyder, WPSC - D2**  
**Ms. Carlisa Linton, FERC - DC**

**APPENDIX A**  
**2008 PURPLE LOOSESTRIFE SURVEY**

**Castle Rock Purple Loosestrife Survey 2008**

<b>Size</b>	<b>Locations identified in 2007</b>	<b>Locations identified in 2008</b>
1 to 5	0	0
6 to 50	0	0
50+	0	0
<b>Total</b>	<b>0</b>	<b>0</b>

**Petenwell Purple Loosestrife Survey 2008**

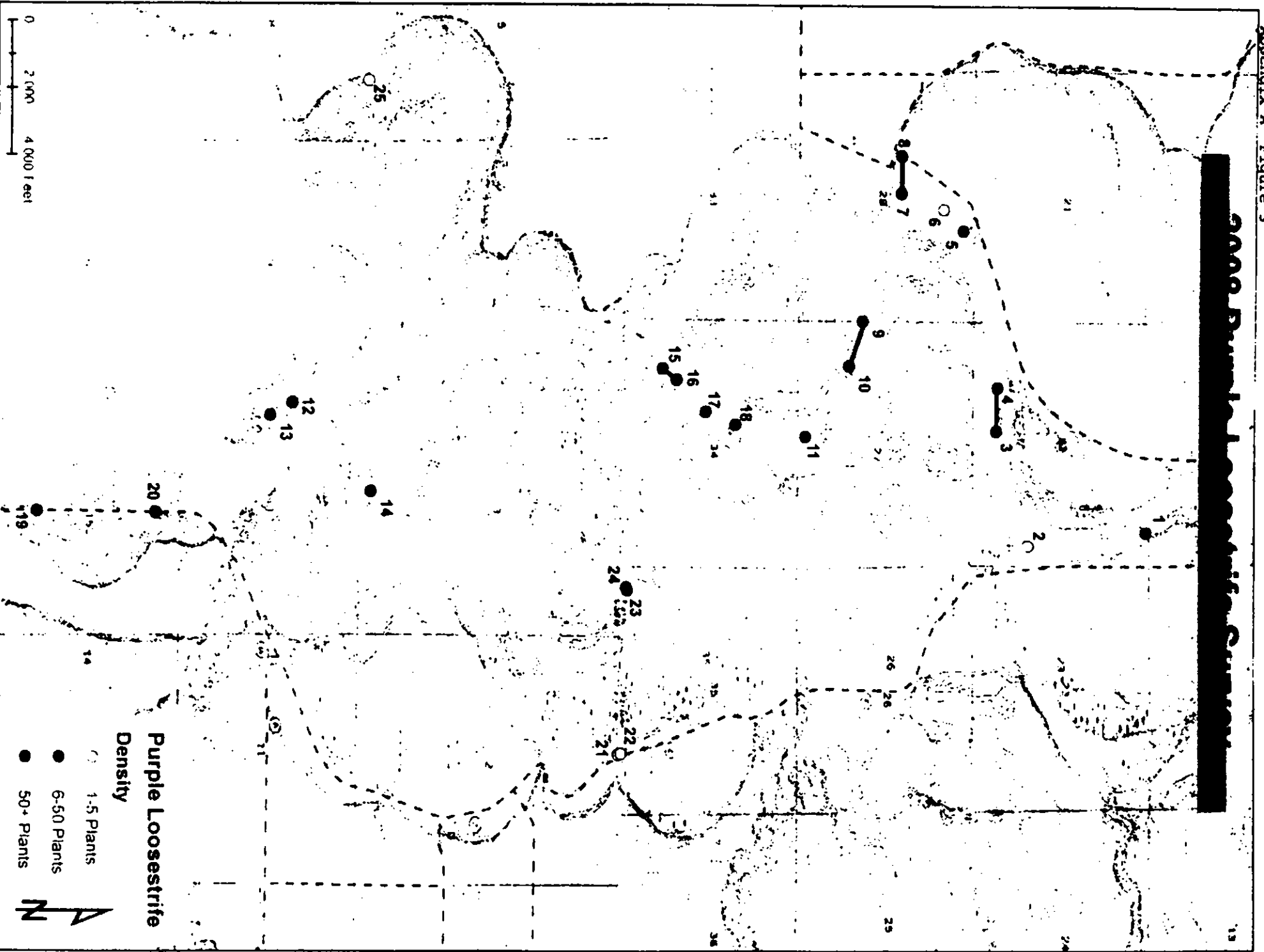
<b>Size</b>	<b>Locations identified in 2007</b>	<b>Locations identified in 2008</b>
1 to 5	12	5
6 to 50	8	1
50+	20	10
<b>Total</b>	<b>40</b>	<b>16</b>

## Purple Loosestrife Control Methods Survey 2008

Number	Amount	Notes/Control Methods	Beetle Feeding
1	1 to 5	private property/ no cut or spray	feeding
2 start	50+	start of island/ no cut or spray	heavy feeding
2 end	50+	end of island / no cut or spray	heavy feeding
3	50+	whole channel / no cut or spray	heavy feeding
4	1 to 5	cut/spray	No feeding
5 start	50+	start of channel / no cut or spray	heavy feeding
5 end	50+	end of channel / no cut or spray	heavy feeding
6 start	50+	start of island/ no cut or spray	heavy feeding
6 end	50+	end of island / no cut or spray	heavy feeding
7 start	50+	start of island/ no cut or spray	heavy feeding
7 middle	50+	middle of island/ no cut or spray	heavy feeding
7 end	50+	end of island / no cut or spray	heavy feeding
8	50+	island about 1/2 the pop. as last year	heavy feeding
9 start	50+	island about 1/2 the pop. as last year	heavy feeding
9 end	50+	island about 1/2 the pop. as last year	heavy feeding
10 start	50+	island about 1/2 the pop. as last year	heavy feeding
10 end	50+	island about 1/2 the pop. as last year	heavy feeding
11	5 to 50	no cut or spray	some feeding
12	50+	no cut or spray	feeding
13	1 to 5	cut/spray	No feeding
14	1 to 5	cut/spray	No feeding
15 start	50+	start of island/ no cut or spray	heavy feeding
15 end	50+	end of island / no cut or spray	heavy feeding
16	1 to 5	cut/spry	

Appendix A Figure 3

# 2000 Purple Loosestrife Survey



**APPENDIX B**

**2008 ZEBRA MUSSEL SURVEY**

**ZEBRA MUSSEL INSPECTION RESULTS  
WEPCO HYDROELECTRIC PROJECTS**

**HYDRO NAME**

- Peterwall Flowage  
 Castle Rock Flowage

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>5/30/09</u>	
COMMENTS/RESULTS: <u>No Zebra Mussel at this time</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>6-16-08</u>	
COMMENTS/RESULTS: <u>No Zebra Mussel at this time</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>7-17-08</u>	
COMMENTS/RESULTS: <u>No Zebra Mussel at this time</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>8-15-08</u>	
COMMENTS/RESULTS: <u>No zebra Mussel at this time</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>9-16-08</u>	
COMMENTS/RESULTS: <u>No Zebra Mussel found today</u>	

INSPECTION TYPE: <input type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE:	
COMMENTS/RESULTS:	



**ZEBRA MUSSEL INSPECTION RESULTS  
WRPCO HYDROELECTRIC PROJECTS**

**HYDRO NAME**

- Felsenwell Flowage  
 Castle Rock Flowage

INSPECTION TYPE:  MONTHLY INSPECTION       INSPECTION DURING DRAWDOWN  
DATE: 5/31/08  
COMMENTS/RESULTS: No zebra mussels at this time

INSPECTION TYPE:  MONTHLY INSPECTION       INSPECTION DURING DRAWDOWN  
DATE: 6/16/08  
COMMENTS/RESULTS: No Zebra Mussels at this time

INSPECTION TYPE:  MONTHLY INSPECTION       INSPECTION DURING DRAWDOWN  
DATE: 7-17-08  
COMMENTS/RESULTS: No Zebra Mussels at this time.

INSPECTION TYPE:  MONTHLY INSPECTION       INSPECTION DURING DRAWDOWN  
DATE: 8-15-08  
COMMENTS/RESULTS: No Zebra Mussels at this time

INSPECTION TYPE:  MONTHLY INSPECTION       INSPECTION DURING DRAWDOWN  
DATE: 9-17-08  
COMMENTS/RESULTS: No Zebra Mussels at this time

INSPECTION TYPE:  MONTHLY INSPECTION       INSPECTION DURING DRAWDOWN  
DATE:  
COMMENTS/RESULTS:

## **APPENDIX C**

### **2008 DOCUMENTATION OF SUBMITTAL TO RESOURCE AGENCIES**



**Wisconsin River Power Company**

(owners of the Petenwell & Castle Rock Hydroelectric Plants)

P.O. Box 19001

Green Bay, WI 54307-9001

September 26, 2008

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

Dear Ms. Clemency:

**Exotic Species Monitoring for FERC Project No. 1984-078**

As per the Federal Energy Regulatory Commission (FERC) order approving Purple Loosestrife and Eurasian Water Milfoil Monitoring Plan for the Petenwell - Castle Rock Project (FERC Project No. 1984-078) issued on January 22, 2003. Wisconsin River Power Company (WRPCO) is submitting the survey results for purple loosestrife and zebra mussels.

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WRPCO again surveyed and reports the purple loosestrife control method of *Galerucella* Beetle feeding. Feeding was observed on all colonies with a population of greater than five plants. Only three small colonies were observed with having no feeding and these colonies were cut and sprayed. The survey results for the removal methods are included as Figure 2 in Appendix A.

A map showing purple loosestrife density and locations is included as Figure 3 in Appendix A.

Per the FERC correspondence to WRPCO, dated June 5, 2006, WRPCO is required to conduct monthly inspections for zebra mussels on the Petenwell and Castle Rock Flowages. The inspections are to be conducted once each month from May to

Ms. Louise Clemency  
September 26, 2008  
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September on an annual basis. The surveys are also to be conducted during the winter drawdown period and for any maintenance related drawdown.

Zebra mussels are known to be present in the Petenwell Project, however, no zebra mussels were observed during the sub sampler survey activities at the Petenwell or Castle Rock Projects. The results of the monthly surveys are attached as Appendix B.

Eurasian watermilfoil surveys are completed tri-annually with the next survey being scheduled for 2009.

Should you have any questions or require additional information, please do not hesitate to contact me at your earliest convenience.

Sincerely,



James D. Nuthals  
Environmental Consultant  
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Virgil Schlorke, WRPCO



**Wisconsin River Power Company**  
(owners of the Petenwell & Castle Rock Hydroelectric Plants)  
P.O. Box 19001  
Green Bay, WI 54307-9001

September 26, 2008

Mr. Scott Watson  
Wisconsin Department of Natural Resources  
Division of Water  
5301 Rib Mountain  
Wausau, WI 54401

Dear Mr. Watson:

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Mr. Scott Watson  
September 26, 2008  
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