

Wisconsin River Power Company

(owners of the Peterwell & Castle Rock Hydroelectric Plants)

P.O. Box 19001

Green Bay, WI 54307-9001

December 27, 2007

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

Dear Secretary Bose:

Invasive Species Monitoring for FERC Project No. 1984-078 /5/

As per the revised order approving the invasive species monitoring plan pursuant to the license Article 408 for the Petenwell and Castle Rock Project (FERC Project No. 1984-078) issued on July 13, 2005, Wisconsin River Power Company (WRPCO) is submitting the purple loosestrife, Eurasian watermilfoil, and zebra mussel survey results.

The Petenwell and Castle Rock Projects were surveyed for purple loosestrife from July 9, 2007 through July 11, 2007. The presence of purple loosestrife was identified on the Petenwell Project, mainly on the north end. Nine colonies were also identified on the southeast end of the project and two colonies were discovered on the southwest end of the project. When small colonies and edge colonies were discovered, WRPCO sprayed and/or cut the identified colonies, where possible. No purple loosestrife colonies were identified on the Castle Rock Project.

WRPCO also reported *Galerucella* Beetle feeding on fourteen colonies of purple loosestrife. On those colonies only the outlying purple loosestrife plants were cut. WRPCO has not introduced *Galerucella* Beetles to the Petenwell or Castle Rock Projects, but is aware of a release conducted in 2006 in the Wisconsin River on the south end of the Wisconsin River, upstream of the Petenwell Project.

The 2007 Petenwell and Castle Rock Project purple loosestrife results and figures, including removal methods, are attached in Appendix A. Also a comparison of the 2006 versus 2007 purple loosestrife amounts and colony size is included in Appendix A.

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



Ms. Kimberly D. Bose, Secretary December 27, 2007 Page 2 of 2

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 through 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 were observed in 2006 on a navigational structure on the north end of the Petenwell Project. No zebra mussels were observed during the 2007 sub sampler survey activities. 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 River Power Company

Bruce Crocker (for)

Telephone: (715) 355-2047

SYX

Enc.

cc: Ms. Joan Johanek, WPSC - D2

Mr. Virgil Schlorke, WRPCO

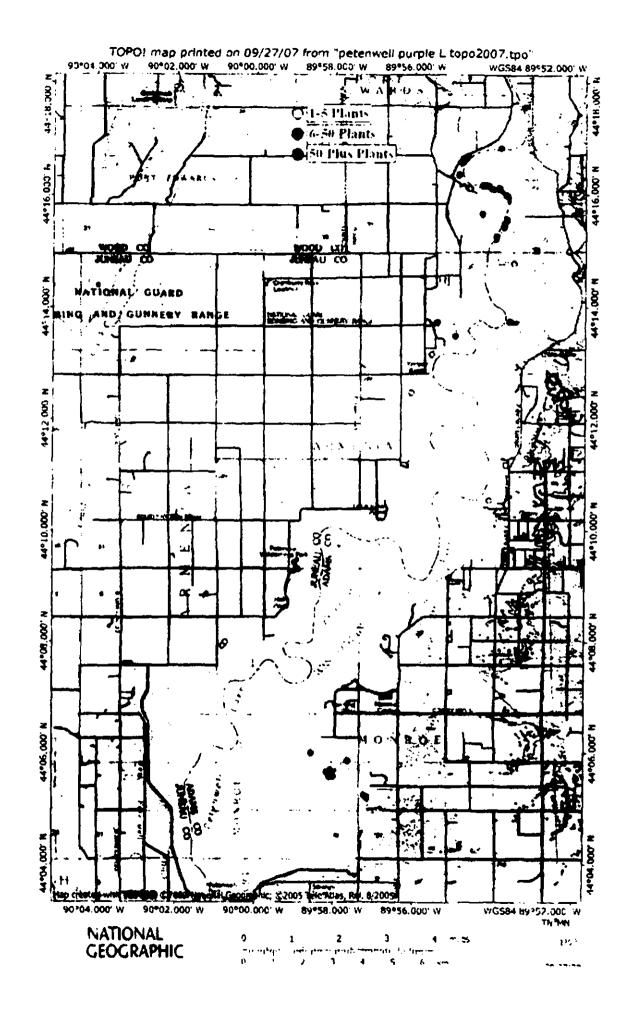
Mr. Bruce Crocker, WPSC - D2

Mr. Howard Giesler, WPSC - PUL

Mr. Gil Snyder, WPSC - D2

Ms. Carlisa Linton, FERC - DC

APPENDIX A PURPLE LOOSESTRIFE SURVEY - 2007



Purple Loosestrife Survey 2007

Number Latitude	Longitude	<u>Amount</u>	Control Method/Notes	Beetle Feeding
1 N 44 16.714	W 89 54.602	1 to 5	cut/spray	
2 N 44 16.533	W 89 54.696	6 to 50	cut/spray	
3 start N 44 16.651	W 89 54.703	50+	cut/spray ends of channel	cella feeding
3 end N 44 16.640	W 89 54.716	50+	cut/spray ends of channel	
4 N 44 16.623	W 89 54.734	6 to 50	cut/spray	<u> </u>
5 start N 44 16.580	W 89 54.779	6 to 50	cut/spray	cella feeding
5 end N 44 16.550	W 89 54.794	6 to 50	cut/spray	
6 start N 44 16.365	W 89 54.871	50+	cut/spray outliers	<u> </u>
6 end N 44 16.334	W 89 55.651	50+	cut/spray outliers	
7 N 44 16.119	W 89 54.639	1 to 5	cut/ spray	
8 N 44 16.110	W 89 54.590	1 to 5	cut/ spray	
9 N 44 16.152	W 89 54.288	1 to 5	cut/ spray	<u> </u>
10 N 44 16.157	W 89 54.245	50+	none	
11 N 44 16.154	W 89 54.195	1 to 5	cut/spray	
12 N 44 16.157	W 89 54.175	50+	around island	cella feeding
13 N 44 16.085	W 89 54.018	50+	none	cella feeding
14 start N 44 16.038	W 89 53.904	50+	around island	
14 end N 44 16.132	W 89 53.985	50+	around island	
15 start N 44 15.919	W 89 53.627	50+	none	
15 end N 44 15.823	W 89 53.621	50+	none	<u> </u>
16 N 44 15.657	W 89 54.291	50+	cut/spray	cella feeding
17 start N 44 15.185	W 89 53.984	50+	none	
17 end N 44 15.232	W 89 53.951	50+	none	<u> </u>
18 start N 44 15.386	W 89 53.254	50+	none	cella feeding
18 end N 44 15.428	W 89 53.746	50+	none	cella feeding
19 start N 44 15.455	W 89 53.759	50+	none	cella feeding
19 end N 44 15.560	W 89 53.661	50+	none	cells feeding
20 start N 44 16.831	W 89 53.680	50+	entire island	70% damaged by cella
20 end N 44 16.836	W 89 53.703	50+	entire island	70% damaged by cella
21 N 44 17.557	W 89 53.214	6 to 50	cut/spray	
22 N 44 14.766	W 89 53.482	1 to 5	cut/spray	
23 N 44 14.995	W 89 52.922	50+	none	some cella feeding
24 N 44 14.973	W 89 52.113	1 to 5	cut/spray	
25 start N 44 13.705	W 89 53.385	50+	cut/ spray outliers	some cella feeding
25 end N 44 13.729	W 89 53.604	50+	cut/ spray outliers	some cella feeding
26 N 44 13.727	W 89 55.417	6 to 50	cut/spray	
27 N 44 13.487	W 89 54.923	50+	cut/spray	<u> </u>
28 N 44 13.146	W 89 55.562	1 to 5	cut/spray	
29 N 44 12.470	W 89 56.062	1 to 5	cut/spray	
30 N 44 10.548	W 89 54.088	1 to 5	cut/spray	
31 N 44 07.907	W 90 00.779	1 to 5	cut/spray	
32 N 44 07.962	W 90 00.708	1 to 5	cut/spray	
33 start N 44 05.574	W 89 58.113	50+	cut/ spray outliers	
33 end N 44 05.560	W 89 58.087	50+	cut/ spray outliers	
34 start N 44 05.680	W 89 58.064	50+	cut/ spray outliers	
34 end N 44 05.690	W 89 57.991	50+	cut/ spray outliers	
35 N 44 05.220	W 89 57.215	6 to 50	cut/ spray	
36 N 44 05.177	W 89 57.143	6 to 50	cut/ spray	
37 start N 44 05.165	W 89 57.141	50+	cut/spray outliers	
37 end N 44 05.153	W 89 57.136	50+	cut/spray outliers	
38 N 44 05.847	W 89 57.615	50+	cut/apray outliers	
39 N 44 05.988	W 89 58.547	50+	cut/spray outliers	
40 N 44 05.636	W 89 58.160	50+	cut/spray outliers	

Castle Rock Purple Loosestrife Survey 2007

Size	Locations identified in 2006	Locations identified in 2007
1 to 5		0
6 to 50		2 0
50+		0
Total		3 0

Petenwell Purple Loosestrife Survey 2007

Size	Locations identified in 2006	Locations Identified in 2007
1 to 5	4	12
6 to 50	10	8
50+	28	20
Total	42	40

APPENDIX B ZEBRA MUSSEL SURVEYS - 2007

ZEBRA MUSSEL INSPECTION RESULTS WRPCO HYDROELECTRIC PROJECTS

HYDRO NAME

14	Peterwell Flowage Cartle Rock Flowage
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INSPECTION TYPE: A MONTHLY INSPECTION	I INSPECTION DURING DRAWDOWN
COMMENTS/RESULTS: No Mussels at	the time
INSPECTION TYPE: AT MONTHLY INSPECTION DATE: 6/5/07	☐ INSPECTION DURING DRAWDOWN
COMMENTS/RESULTS: No Musels 3	+ this time
DATE: 7/17/07	I INSPECTION DURING DRAWDOWN
COMMENTS/RESULTS: NO MUSSELS AF	THIS TIME
INSPECTION TYPE: DEMONTHLY INSPECTION DATE: 8/16/07 COMMENTS/RESULTS: NO MUSSEL AT	I INSPECTION DURING DRAWDOWN
INSPECTION TYPE: MONTHLY INSPECTION DATE: 9/17/67	I INSPECTION DURING DRAWDOWN
COMMENTARESULTS: NO MUSSEL AT	THIS TIME
INSPECTION TYPE: ILL MONTHEY INSPECTION DATE: COMMENTS/RESULTS:	I INSPECTION DURING DRAYDOWN
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Zebra mussel inspection results wrpco hydroelectric projects

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Petenwell Flowage
Castle Rock Flowage

INSPECTION TYPE:	MONTHLY INSPECTION	☐ INSPECTION DURING DRAWDÓWN
DATE: <u>5/29/07</u> COMMENTS/RESULTS:	No Mussels	at the time
INSPECTION TYPE: 11	MONTHLY INSPECTION	I) INSPECTION DURING DRAWDOWN
COMMENTS/RESULTS:	No Mussels of	the time
INSPECTION TYPE: 0 1 DATE: 7/13/27 COMMENTS/RESULTS:	***	DISPECTION DURING DRAWDOWN
INSPECTION TYPE: [] I DATE: 8/14/07 COMMENTS/RESULTS:		of bus to
INSPECTION TYPE: []	MONTHLY INSPECTION	a this time
INSPECTION TYPE:	MONTHLY INSPECTION	☐ INSPECTION DURING DRAWDOWN
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APPENDIX C DOCUMENTATION OF SUBMITTAL - 2007



Wisconsin River Power Company
(owners of the Peterwell & Castle Rock Hydroelectric Plants)
P.O. Box 19001
Green Sey, WI 54307-6001

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

Dear Mr. Yasenak:

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.

The Petenwell and Castle Rock Projects were surveyed for purple loosestrife from July 9, 2007 through July 11, 2007. The presence of purple loosestrife was identified on the Petenwell Project, mainly on the north end. Nine colonies were also identified on the southeast end of the project and two colonies were discovered on the southwest end of the project. When small colonies and edge colonies were discovered, WRPCO sprayed and/or cut the identified colonies, where possible. No purple loosestrife colonies were identified on the Castle Rock Project.

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Mr. Tyler Yasenak September 28, 2007 Page 2 of 2

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James D. Nuthals

Environmental Consultant Telephone: (920) 433-1460

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cc: Ms. Joan Johanek, WPSC - D2

Mr. Virgil Schlorke, WRPCO



Wissensia River Power Company
(owners of the Peterwell & Castle Rock Hydroelectric Plants)
P.O. Box 18001
Green Bay, WI 54307-9001

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

Dear Mr. Watson:

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