



ORIGINAL

Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
600 North Adams Street
P.O. Box 19002
Green Bay, WI 54307-9002

December 13, 2005

Ms. Magalie R. Salas, Secretary
Federal Energy Regulatory Commission
Mail Code: DTCA, HL 21.3
888 First Street, N.E.
Washington, DC 20426

FILED
OFFICE OF THE
SECRETARY
2005 Dec 14
2005 DEC 14 P 1:55
FEDERAL ENERGY
REGULATORY COMMISSION

Dear Secretary Salas:

Exotic Species Monitoring for FERC Project No. 1979

As per the order approving the Invasive Species Monitoring Plan for the Alexander Hydroelectric Project (Project No. 1979) issued on March 4, 2005, Wisconsin Public Service Corporation (WPSC) is submitting the survey results for purple loosestrife, Eurasian watermilfoil and zebra mussels.

The purple loosestrife survey was conducted on July 18, 2005. Purple loosestrife was identified within the Alexander Hydroelectric Project. A summary of the results is included in Appendix A.

The Eurasian watermilfoil survey was conducted on July 18, 2005. Eurasian watermilfoil surveys were collected at three sampling locations within the Alexander Hydroelectric Project. The sampling locations are located near public boat landings. GPS coordinates were collected for each sampling location. No Eurasian watermilfoil was identified. A summary of results has been included in Appendix B.

Monthly inspections of substrate samplers for the presence of zebra mussels were conducted during the months of May through September. Zebra Mussels were not found during any of the monthly 2005 inspections. A summary of the results has been included in Appendix C.

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

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
Assistant Vice President - Energy Supply Operations
Telephone: (715) 355-2047

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2
Mr. Gerry Ganther, WPSC - WRPCO
Mr. Bruce Crocker, WPSC - D2

Ms. Peggy Harding, FERC - Chicago
Mr. Gil Snyder, WPSC - D2
Ms. Carlisa Linton, FERC - DC

APPENDIX A

PURPLE LOOSESTRIFE SURVEY – 2005

Purple Loosestrife Survey - 2005

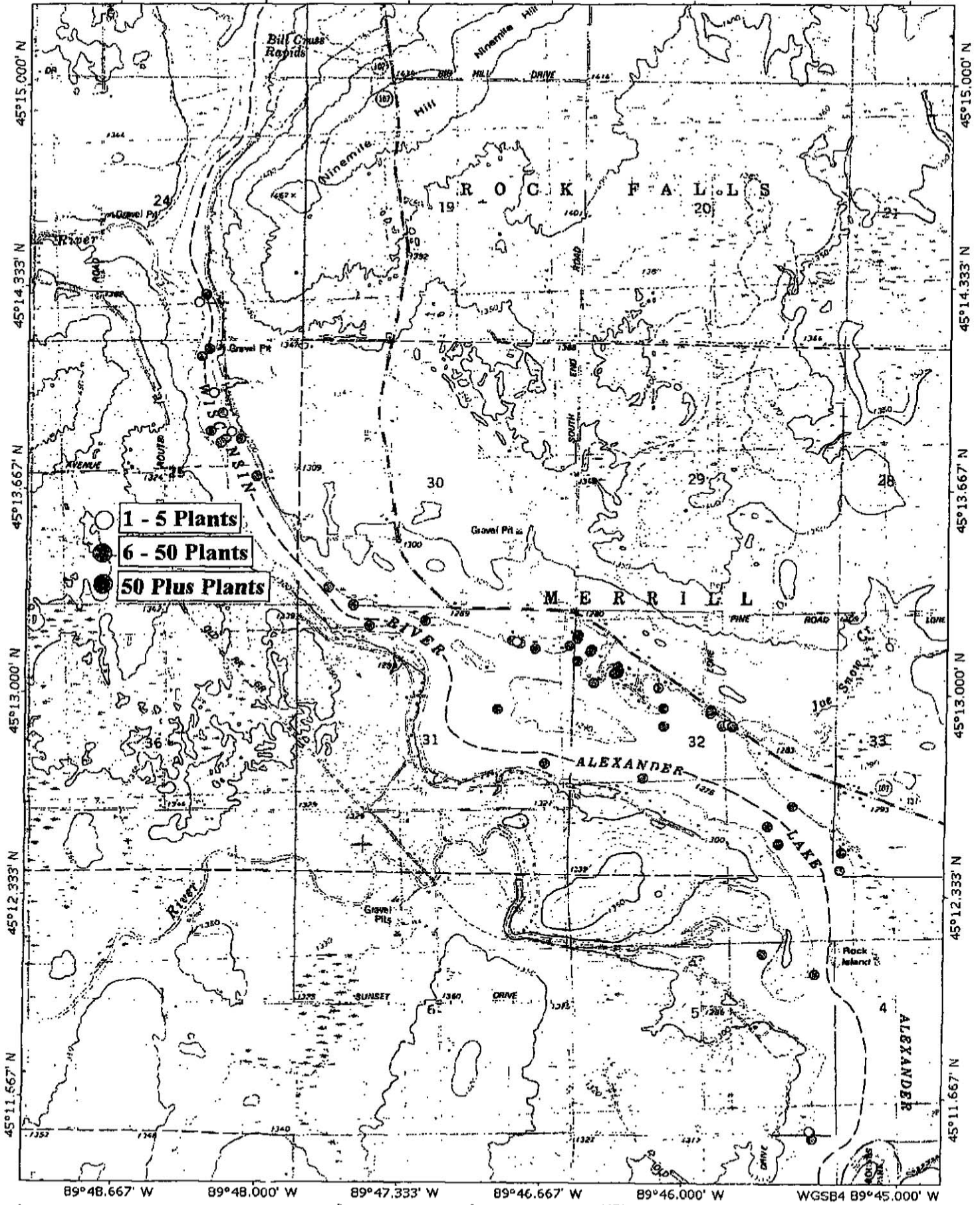
Alexander

Number	Latitude	Longitude	Amount
1	45 13.233	89 47.222	6-50 Plants
2	45 13.168	89 46.815	6-50 Plants
3	45 13.166	89 46.795	1-5 Plants
4	45 13.160	89 46.778	6-50 Plants
5	45 13.142	89 46.707	6-50 Plants
6	45 13.152	89 46.551	6-50 Plants
7	45 13.179	89 46.512	6-50 Plants
8	45 13.189	89 46.510	50+ Plants
9	45 13.141	89 46.448	6-50 Plants
10	45 13.133	89 46.452	6-50 Plants
11	45 13.101	89 46.509	50+ Plants
12	45 13.031	89 46.434	6-50 Plants
13	45 13.080	89 46.324	6-50 Plants
14	45 13.070	89 46.319	1-5 Plants
15	45 13.064	89 46.324	6-50 Plants
16	45 13.062	89 46.330	6-50 Plants
17	45 13.059	89 46.340	50+ Plants
18	45 13.933	89 46.220	50+ Plants
19	45 12.891	89 46.102	50+ Plants
20	45 12.949	89 46.107	50+ Plants
21	45 12.978	89 46.155	6-50 Plants
22	45 13.016	89 46.132	6-50 Plants
23	45 12.943	89 45.883	50+ Plants
24	45 12.933	89 45.882	6-50 Plants
25	45 12.892	89 45.828	6-50 Plants
26	45 12.897	89 45.805	1-5 Plants
27	45 12.891	89 45.782	50+ Plants
28	45 12.627	89 45.501	6-50 Plants
29	45 12.605	89 45.462	6-50 Plants
30	45 12.476	89 45.268	6-50 Plants
31	45 12.419	89 45.275	6-50 Plants
32	45 11.532	89 45.389	6-50 Plants
33	45 11.556	89 45.397	1-5 Plants
34	45 11.559	89 45.400	1-5 Plants
35	45 12.139	89 45.634	6-50 Plants
36	45 12.076	89 45.384	6-50 Plants
37	45 12.504	89 45.563	50+ Plants
38	45 12.558	89 45.615	6-50 Plants
39	45 12.720	89 46.198	6-50 Plants
40	45 12.768	89 46.658	6-50 Plants
41	45 13.217	89 47.485	6-50 Plants
42	45 13.813	89 48.184	6-50 Plants
43	45 13.851	89 48.229	6-50 Plants
44	45 14.098	89 48.272	6-50 Plants
45	45 14.277	89 48.287	1-5 Plants
46	45 14.303	89 48.257	50+ Plants
47	45 14.125	89 48.240	50+ Plants
48	45 13.980	89 48.217	1-5 Plants
49	45 13.915	89 48.176	1-5 Plants

50	45 13.849	89 48.134	1-5 Plants
51	45 13.825	89 48.094	6-50 Plants
52	45 13.706	89 48.015	6-50 Plants
53	45 13.340	89 47.680	6-50 Plants
54	45 13.282	89 47.557	50+ Plants

Alexander Purple Loosestrife Survey - 2005

89°48.667' W 89°48.000' W 89°47.333' W 89°46.667' W 89°46.000' W WGS84 89°45.000' W



TN
MN
2°

0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

APPENDIX B

Eurasian watermilfoil survey – 2005

Eurasian Milfoil Surveys - 2005

Alexander

Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin
1A	0	0	0	N/A	45 13.266
1B	0	0	0	N/A	89 47.399
1C	0	0	0	N/A	
2A	0	0	0	N/A	45 11.460
2B	0	0	0	N/A	89 44.957
2C	0	0	0	N/A	
3A	0	0	0	N/A	45 11.401
3B	0	0	0	N/A	89 45.488
3C	0	0	0	N/A	

N/A: Not Applicable

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

Note: All transects are 40 feet in length and proceed in an easterly direction from their origin.

Alexander Eurasian Water Milfoil Survey - 2005

89°48.000' W

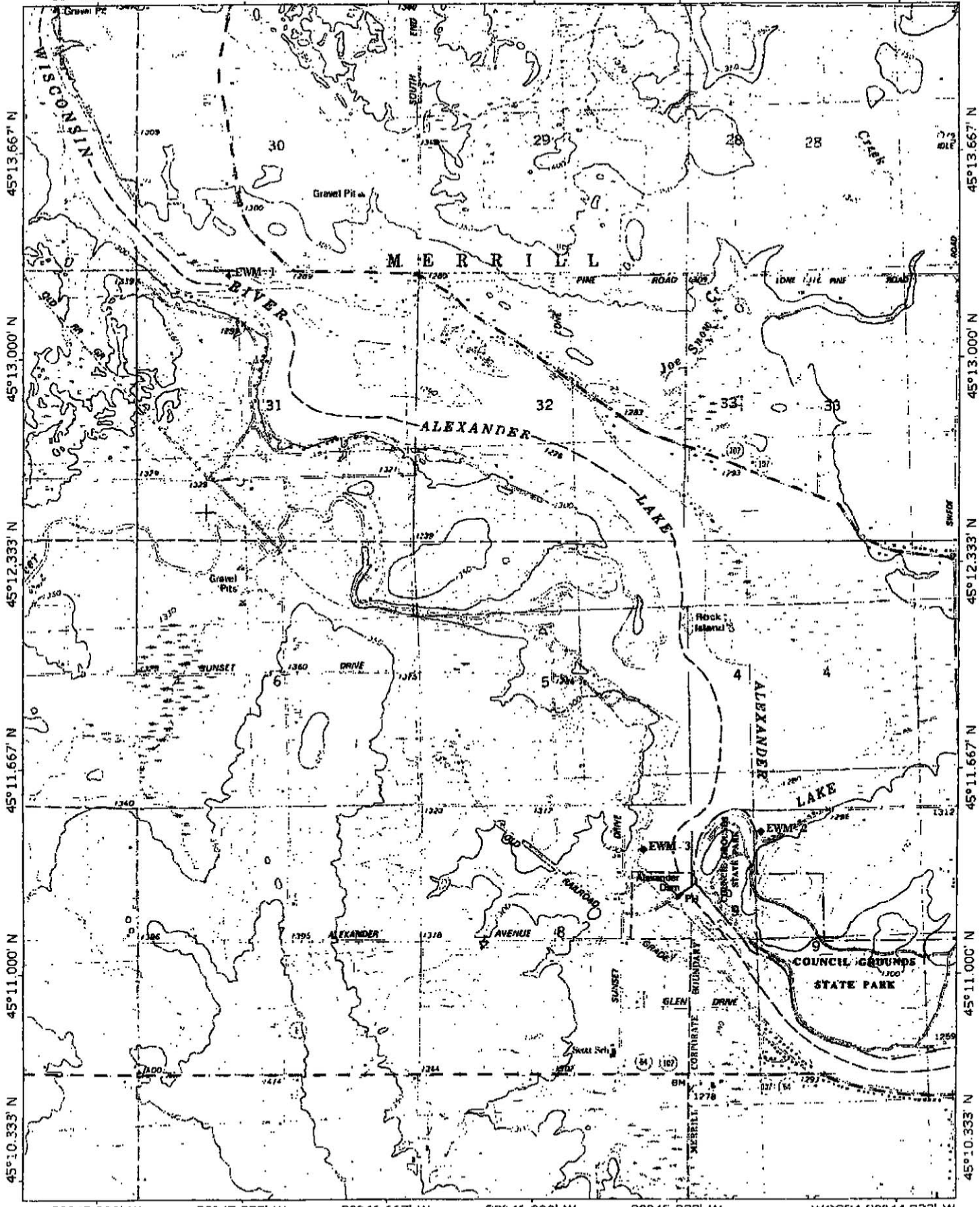
89°47.333' W

89°46.667' W

89°46.000' W

89°45.333' W

WGS84 89°44.333' W



TN
MN
2"



Map created with TOPO! © 2003 National Geographic (www.nationalgeographic.com/topo)

APPENDIX C

Zebra Mussel Survey – 2005

ZEBRA MUSSEL INSPECTION RESULTS
ALEXANDER HYDROELECTRIC PROJECTS

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 5/2005
COMMENTS/RESULTS: None

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 6/2005
COMMENTS/RESULTS: None

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 7/2005
COMMENTS/RESULTS: None

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 8/2005
COMMENTS/RESULTS: None

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 9/2005
COMMENTS/RESULTS: None

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

ZEBRA MUSSEL INSPECTION RESULTS
ALEXANDER HYDROELECTRIC PROJECTS

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 5/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 6/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 7/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 8/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 9/2005 *None*
COMMENTS/RESULTS:

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

ZEBRA MUSSEL INSPECTION RESULTS
ALEXANDER HYDROELECTRIC PROJECTS

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 5/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 6/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 7/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 8/2005 *None*
COMMENTS/RESULTS:

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
DATE: 9/2005 *None*
COMMENTS/RESULTS:

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

APPENDIX D

DOCUMENTATION OF SUBMITTAL – 2005



Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
706 North Adams Street
P.O. Box 19002
Green Bay, WI 54307-9002

September 26, 2005

Mr. Robert Martini
Wisconsin Department of Natural Resources
107 Sutliff Ave.
Rhinelander, WI 54501

Dear Mr. Martini:

FERC Project No. 1979

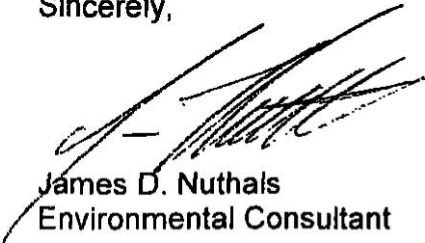
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If you have any questions, please do not hesitate to call me at (920) 433-1460.

Sincerely,



James D. Nuthals
Environmental Consultant

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2



Wisconsin Public Service Corporation
(a subsidiary of WPS Resources Corporation)
700 North Adams Street
P.O. Box 19002
Green Bay, WI 54307-9002

September 26, 2005

Ms. Janet Smith
U.S. Fish and Wildlife Service
1015 Challenger Court
Green Bay, WI 54311

Dear Ms. Smith:

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Wisconsin Public Service Corporation
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700 North Adams Street
P.O. Box 19002
Green Bay, WI 54307-9002

October 31, 2005

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

Dear Mr. Moy:

FERC Project No. 1979

As per the order approving the Invasive Species Monitoring Plan for the Alexander Hydroelectric Project (Project No. 1979) issued on March 4, 2005, Wisconsin Public Service Corporation (WPSC) is submitting the survey results for zebra mussels.

Monthly inspections of substrate samplers for the presence of zebra mussels were conducted during the months of May through September. Zebra mussels were not found during any of the monthly 2005 inspections. A summary of the results has been included in Appendix A.

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

Sincerely,

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James D. Nuthals
Environmental Consultant

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2



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