

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

December 18, 2018

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

Dear Ms. Bose:

#### SUBJECT: Invasive Species Monitoring Plan – Purple Loosestrife, Eurasian Water Milfoil, and Zebra Mussel Report

<u>Hydro</u>	FERC Project No.	NATDAM No.	License Article
Alexander	1979	WI00748	406

In accordance with the Federal Energy Regulatory Commission (FERC) Order Approving the Invasive Species Monitoring Plans issued March 4, 2005 and the Order Amending Purple Loosestrife Control Measures in Approved Monitoring Plan issued July 9, 2009 for the Alexander Hydroelectric Project, Wisconsin Public Service (WPS) is required to provide monitoring reports of the purple loosestrife (PL), Eurasian water milfoil (EWM), and zebra mussel (ZM) surveys to FERC by December 31 each year a survey has been completed.

#### 2018 Purple Loosestrife Survey Results

A survey for PL was completed on July 18, 2018. Thirty-six colonies of PL were identified at the Project. Of the thirty-six colonies, twenty were small or medium colonies and were completely hand pulled and disposed of offsite. Appendix A includes the 2018 PL survey results.

In 2018, WPS released a sum total of approximately 10,000 *Galerucella species* beetles (beetles) in three different locations to supplement the existing beetle populations. WPS observed beetle feeding on twenty-five of the thirty-six identified colonies.

WPS will continue monitoring for PL and release a minimum sum total of 6,000 beetles annually in at least two separate locations. The next PL survey is scheduled for 2019, in conjunction with the EWM survey.

#### 2018 Eurasian Water Milfoil Survey Results

A survey for EWM was completed on July 18, 2018. EWM was not observed during the survey or during any of the previous annual surveys. Appendix B includes the 2018 EWM survey results. The next EWM survey is scheduled for 2019, in conjunction with the PL survey.

Ms. Kimberly D. Bose December 18, 2018 Page 2 of 2

Zebra Mussels

Monthly inspections of substrate samplers for the presence of ZM were conducted during the months of May through September 2018. ZM were not observed during any of the monthly substrate inspections. Appendix C includes the 2018 ZM monthly substrate sampling results.

A copy of this report was submitted to the Wisconsin Department of Natural Resources (WDNR), US Fish and Wildlife Service (FWS), and the University of Wisconsin Sea Grant Institute (UW) on October 30, 2018. The WDNR, FWS and UW did not provide any comments. Appendix D includes the 2018 documentation of consultation.

Should you have any questions relative to this material, please do not hesitate to contact Jes Roloff at (920) 433-5558 or Jessica.Roloff@WECEnergyGroup.com.

Sincerely,

- Intel B. Jestrembi

Todd P. Jastremski Asset Manager Hydro Operations We Energies 800 Industrial Park Drive Iron Mountain, MI 49801

JRR/cll

- Enc: Appendix A 2018 Purple Loosestrife Results 7 Pages
   Appendix B 2018 Eurasian Water Milfoil Survey Results 3 Pages
   Appendix C 2018 Zebra Mussel Monthly Substrate Sampling Results 2 Pages
   Appendix D 2018 Documentation of Consultation 12 Pages
- cc: Ms. Cheryl Laatsch, WDNR Mr. Nicholas Utrup, USFWS Mr. John Zygaj, FERC - CRO

**APPENDIX A** 

**2018 PURPLE LOOSESTRIFE SURVEY RESULTS** 

Hydroelectric project: <u>Alexander Hydroelectric Project</u>

Beetle Release Date: June 26, 2018

Inspection date: July 18, 2018

			General Plant Vigo	or			
<u>Colony ID #</u>	<u>Colony Size</u> S 0-5 M 6-50 L >50	<u>Plant Height</u> 4 = >4ft 3 = 2-4ft 2 = 1-2ft 1 = <1ft	<u>Plant Flowering</u> 4 = 100% of plants 3 = 51-99% of plants 2 = 26-50% of plants 1 = <25% of plants	Beetle Feeding 5 = 0% feeding 4 = 1 - 25% feeding 3 = 26-50% feeding 2 = 51-75% feeding 1 = >76% feeding	<u>Total Plant Vigor</u> 10-12 = good 7-9 = fair 4-6 = poor 0-3 = very poor	Notes	<u>GPS Point</u>
1	M 6-50	3	3	2	8	Pulled all plants.	1761
2				r Able To Identify			1758
2			NO LONGE	Able to identify			1750
3	S 0-5	3	1	4	8		1757
4	S 0-5	3	3	4	10	Pulled all plants.	1756
5	M 6-50	3	3	3	9	Released 4,000 beetles.	1788
6			No Longe	r Able To Identify			1787
7			No Longe	r Able To Identify			
8	M 6-50	3	2	2	7	Released 2,000 beetles.	1104
9	S 0-5	3	2	3	8		1786
10	S 0-5	3	3	5	11	2 plants had bags over top of them, beetle raising?	1785
11			No Longe	r Able To Identify			
			<u></u>				
12			No Longe	r Able To Identify			
13	S 0-5	4	3	3	10	Pulled all plants.	1784
14	No Longer Able To Identify						
15	No Longer Able To Identify						
16	No Longer Able To Identify						1782
							1.02
17	No Longer Able To Identify						

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			General Plant Vig				
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18			No Longe	r Able To Identify	-		
19				r Able To Identify			
20	S 0-5	3	3	4	10	Pulled all plants.	1779
21	M 6-50	4	2	2	8		1776
22				r Able To Identify	5	1	1770
			NO LONGE				
23	M 6-50	4	2	2	8		1774
24			No Longe	r Able To Identify	[		1772
25	S 0-5	3	1	4	8	Pulled all plants.	1770
26			No Longe	r Able To Identify	ſ	1	
27	M 6-50	3	3	4	10		1769
28			No Longe	r Able To Identify			
29			No Longe	r Able To Identify			
30	S 0-5	3	2	4	9		1768
31	No Longer Able To Identify						
	C 0 F	2			2		4767
32	S 0-5	3	2	4	9	Pulled all plants.	1767
33	S 0-5	4	2	5	11	Pulled all plants.	1766
34	M 6-50	2	2	3	7	Pulled all plants.	1763

Hydroelectric project: <u>Alexander Hydroelectric Project</u>

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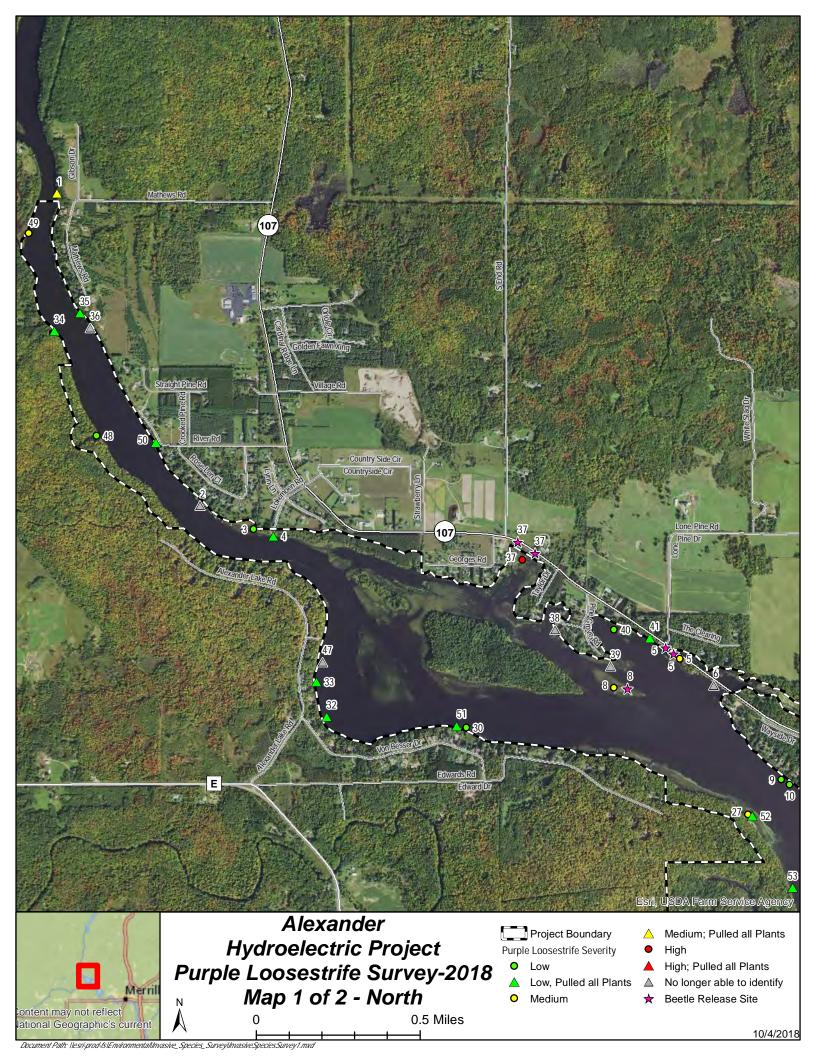
	General Plant Vigor					
<u>Colony Size</u> S 0-5 M 6-50 L >50	<u>Plant Height</u> 4 = >4ft 3 = 2-4ft 2 = 1-2ft 1 = <1ft	<u>Plant Flowering</u> 4 = 100% of plants 3 = 51-99% of plants 2 = 26-50% of plants 1 = <25% of plants	Beetle Feeding 5 = 0% feeding 4 = 1 - 25% feeding 3 = 26-50% feeding 2 = 51-75% feeding 1 = >76% feeding	<u>Total Plant Vigor</u> 10-12 = good 7-9 = fair 4-6 = poor 0-3 = very poor	Notes	<u>GPS Point</u>
S 0-5	3	3	5	11	Pulled all plants.	1760
		No Longe	r Able To Identify			1759
L >50	3	3	4	10	Released 4,000 beetles. Shallow.	1793, 1869, 1870
		No Longe	r Able To Identify			1792
			,			
		No Longe	r Able To Identify			1791
S 0-5	3	3	4	10		1790
S 0-5	3	3	4	10	Pulled all plants.	1789
		No Longe	r Able To Identify		I	1781
S 0-5	3	3	5	11	Pulled all plants.	1778
M 6-50	3	3	4	10		1775
		No Longe	r Able To Identify			1773
		No Longe	r Able To Identify			1771
		No Longe	r Able To Identify		Ι	1765
S 0-5	3	1	4	8	Shallow.	1764
M 6-50	3	2	2	7		1762
S 0-5	3	3	3	9	NEW. Pulled all plants.	1890
S 0-5	4	3	5	12	NEW. Pulled all plants.	1892
	S 0-5 M 6-50 L >50 S 0-5 S 0-5 S 0-5 M 6-50 M 6-50 S 0-5 M 6-50	Colony Size $4 = >4ft$ S 0-5 $3 = 2-4ft$ $2 = 1-2ft$ $1 = <1ft$ S 0-5       3         L >50       3         S 0-5       3         M 6-50       3         M 6-50       3         M 6-50       3         S 0-5       3         S 0-5       3	Colony Size S 0-5         Plant Height 3 = 2-4ft 2 = 1-2ft         Plant Flowering 4 = 100% of plants 3 = 51-99% of plants 2 = 26-50% of plants           S 0-5         3         3           No Longe         No Longe           L >50         3         3           S 0-5         3         3           S 0-5         3         3           No Longe         No Longe           S 0-5         3         3           S 0-5         3         3           S 0-5         3         3           No Longe         No Longe           S 0-5         3         3           M 6-50         3         3           No Longe         No Longe           No Longe         No Longe           S 0-5         3         1           M 6-50         3         2           S 0-5         3         1           M 6-50         3         2           S 0-5         3 </td <td>Plant Height S 0-5Plant Height 4 = &gt;4ft 3 = 2-4ft 1 = &lt;1ftPlant Flowering 4 = 100% of plants 3 = 51-9% of plants 2 = 26-50% of plants 1 = &lt;25% of plants 2 = 51-75% feeding 2 = 51-75% feeding 1 = &gt;76% feeding 2 = 51-75% feeding </td> <td>Plant Height S 0-5         Plant Flowering 3 = 2-4ft 2 = 1-2ft         Plant Flowering 4 = 100% of plants 3 = 51-99% of plants 2 = 26-50% feeding 2 = 51-75% feeding 1 = &gt;76% feeding 1 = &gt;76% feeding 2 = 51-75% feeding 2 = 51-75% feeding 1 = &gt;76% feeding 1 = &gt;76% feeding 2 = 51-75% feeding 1 = &gt;76% feeding 2 = 51-75% feeding 1 = &gt;76% feeding 2 = 51-75% feeding 1 = &gt;76% feeding 2 = 10-12 1 = &gt;76% feeding 1 = &gt;76% feeding 2 = 10-75% feeding 2 = 10-75% feeding 2 = 10-75% feeding 2 = 10-75% feeding 1 = &gt;76% feeding 2 = 10-75% feeding 2 = 10-75% feeding 1 = &gt;76% feed</td> <td>Plant Height 4 = 341t 3 = 2.4ftPlant Flowering 4 = 100% of plants 3 = 51.99% of plants 3 = 26.50% feeding 3 = 26.50% feeding 1 = -275% feeding 2 = -275% feeding</td>	Plant Height S 0-5Plant Height 4 = >4ft 3 = 2-4ft 1 = <1ftPlant Flowering 4 = 100% of plants 3 = 51-9% of plants 2 = 26-50% of plants 1 = <25% of plants 2 = 51-75% feeding 2 = 51-75% feeding 1 = >76% feeding 2 = 51-75% feeding 	Plant Height S 0-5         Plant Flowering 3 = 2-4ft 2 = 1-2ft         Plant Flowering 4 = 100% of plants 3 = 51-99% of plants 2 = 26-50% feeding 2 = 51-75% feeding 1 = >76% feeding 1 = >76% feeding 2 = 51-75% feeding 2 = 51-75% feeding 1 = >76% feeding 1 = >76% feeding 2 = 51-75% feeding 1 = >76% feeding 2 = 51-75% feeding 1 = >76% feeding 2 = 51-75% feeding 1 = >76% feeding 2 = 10-12 1 = >76% feeding 1 = >76% feeding 2 = 10-75% feeding 2 = 10-75% feeding 2 = 10-75% feeding 2 = 10-75% feeding 1 = >76% feeding 2 = 10-75% feeding 2 = 10-75% feeding 1 = >76% feed	Plant Height 4 = 341t 3 = 2.4ftPlant Flowering 4 = 100% of plants 3 = 51.99% of plants 3 = 26.50% feeding 3 = 26.50% feeding 1 = -275% feeding 2 = -275% feeding

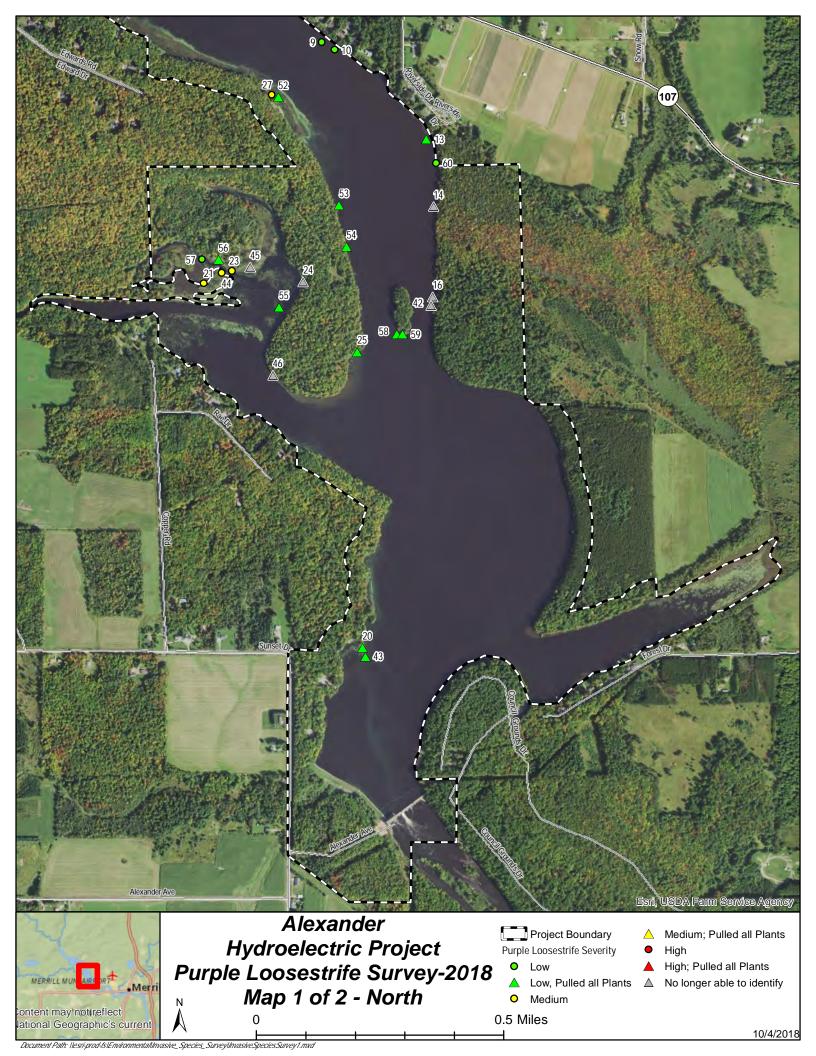
Hydroelectric project: <u>Alexander Hydroelectric Project</u>

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52	S 0-5	2	3	5	10	NEW. Pulled all plants.	1893
53	S 0-5	4	4	5	13	NEW. Pulled all plants.	1894
54	S 0-5	3	2	4	9	NEW. Pulled all plants.	1895
55	S 0-5	3	3	5	11	NEW. Pulled all plants.	1896
56	S 0-5	3	3	4	10	NEW. Pulled all plants.	1898
57	S 0-5	3	3	4	10	NEW.	1899
58	S 0-5	2	3	5	10	NEW. Pulled all plants.	1900
59	S 0-5	3	3	5	11	NEW. Pulled all plants.	1901
60	S 0-5	2	3	5	10	NEW.	1902





**APPENDIX B** 

**2018 EURASIAN WATER MILFOIL SURVEY RESULTS** 

# 2018 Eurasian Water Milfoil Survey Form

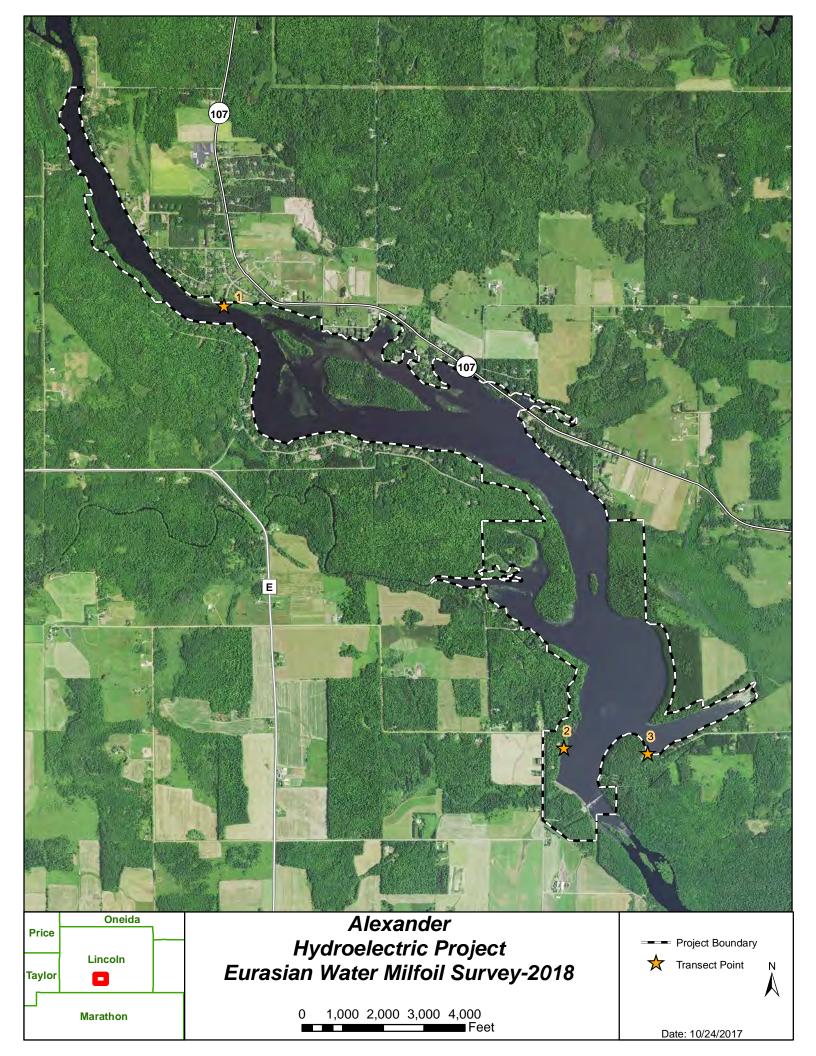
### Hydroelectric project: Alexander Hydroelectric Project

### Inspection date: July 18, 2018

Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin
1A	0	-	-	-	45.22123
1B	0	0	-	-	-89.79001
1C	0	0	-	-	
2A	0	-	-	-	45.19135
2B	0	0	-	-	-89.75769
2C	0	0	0	-	
3A	0	-	-	-	45.19097
3B	0	0	-	-	-89.7497
3C	0	0	-	-	0011 101
00	0	0			
				1	
				1	
1					

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



**APPENDIX C** 

2018 ZEBRA MUSSEL MONTLHY SUBSTRATE SAMPLING RESULTS

## ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

ΗY	DRO NAME						
	Grandfather Falls Wausau	□ <b>X</b>	Merrill Alexande	er		Tomahawk Jersey	<ul><li>Otter Rapids</li><li>Hat Rapids</li></ul>
DA'	TE: <u>5-29-1</u> MMENTS/RESULT	8		NSPECTION M.K.		□ INSPECTION DU	JRING DRAWDOWN
				<b>* *</b> •			
	<b>SPECTION TYPE:</b> TE: <b>6 - 7 - 18</b>		MONTHLY IN	ISPECTION		□ INSPECTION DU	JRING DRAWDOWN
1	MMENTS/RESULT	S:	OK	m.K.		La supran averas - A	
1	<b>SPECTION TYPE:</b> TE: <b>7-22-18</b>		MONTHLY IN	ISPECTION		□ INSPECTION DU	JRING DRAWDOWN
1	MMENTS/RESULT	S:	OK	m.K.		100/17 TAX - 100	
	<b>PECTION TYPE:</b> TE: <b>8 - 8 - 18</b>	M. J	MONTHLY IN	SPECTION		□ INSPECTION DU	JRING DRAWDOWN
	MMENTS/RESULT	S:	OK	m.K.			
	PECTION TYPE: TE: <b>9-20-18</b>		MONTHLY IN	SPECTION		□ INSPECTION DU	JRING DRAWDOWN
CO	MMENTS/RESULT	S:	OK	m.1	<u> </u>		
DA'	<b>PECTION TYPE:</b> TE: MMENTS/RESULT		MONTHLY IN -	SPECTION		□ INSPECTION DU	JRING DRAWDOWN
		0,					
DA'	PECTION TYPE: TE: MMENTS/RESULT		MONTHLY IN -	ISPECTION		□ INSPECTION DU	JRING DRAWDOWN
INS	PECTION TYPE:		AONTHLY IN	ISPECTION		□ INSPECTION DI	JRING DRAWDOWN
DA							
		~.		,,,			
DA'	PECTION TYPE: TE:		MONTHLY IN -	SPECTION		□ INSPECTION DU	JRING DRAWDOWN
L			144444				
DA'	PECTION TYPE: TE: MMENTS/RESULT		/ONTHLY IN	ISPECTION		□ INSPECTION DU	JRING DRAWDOWN

**APPENDIX D** 

**2018 DOCUMENTATION OF CONSULTATION** 



#### Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

October 30, 2018

Ms. Cheryl Laatsch Wisconsin Department of Natural Resources PO Box 7921 Madison, WI 53707-7921

Dear Ms. Laatsch:

# SUBJECT: Invasive Species Monitoring Plan – Purple Loosestrife, Eurasian Water Milfoil, and Zebra Mussel Report

<u>Hydro</u>	FERC Project No.	NATDAM No.	License Article
Alexander	1979	WI00748	406

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A survey for PL was completed on July 18, 2018. Thirty-six colonies of PL were identified at the Project. Of the thirty-six colonies, twenty were small or medium colonies and were completely hand pulled and disposed of offsite. Appendix A includes the 2018 PL survey results.

In 2018, WPS released approximately 10,000 *Galerucella species* beetles in three different locations to supplement the existing beetle populations. WPS observed beetle feeding on twenty-five of the thirty-six identified colonies.

WPS will continue monitoring for PL and releasing a minimum of 6,000 beetles annually in at least two separate locations as outlined in the Invasive Species Monitoring Plan. The next PL survey is scheduled for 2019, in conjunction with the EWM survey.

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#### Zebra Mussels

Monthly inspections of substrate samplers for the presence of ZM were conducted during the months of May through September 2018. ZM were not observed during any of the monthly substrate inspections. Appendix C includes the 2018 ZM monthly substrate sampling results.

Ms. Cheryl Laatsch October 30, 2018 Page 2 of 2

Please provide any comments you may have regarding this report within 30 days. Should you have any questions relative to this material, please do not hesitate to contact me at (920) 433-5558 or Jessica.Roloff@WECEnergyGroup.com.

Sincerely,

Jessica R. Roloff)

Jes Roloff Environmental Consultant Wisconsin Public Service 700 North Adams Street Green Bay, WI 54301

Enc: Appendix A – 2018 Purple Loosestrife Survey Results Appendix B – 2018 Eurasian Water Milfoil Survey Results Appendix C – 2018 Zebra Mussel Monthly Substrate Sampling Results IN THE INTEREST OF PAPERWORK REDUCTION, REDUNDANT MATERIALS ARE NOT INCLUDED

NO COMMENTS RECEIVED BY THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES



#### Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

October 30, 2018

Mr. Nicholas Utrup U.S. Fish & Wildlife Service Department of the Interior 4101 American BLVD E Bloomington, MN 55425

Dear Mr. Utrup:

# SUBJECT: Invasive Species Monitoring Plan – Purple Loosestrife, Eurasian Water Milfoil, and Zebra Mussel Report

<u>Hydro</u>	FERC Project No.	NATDAM No.	License Article
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Mr. Nicholas Utrup October 30, 2018 Page 2 of 2

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Sincerely,

Jessica R. Roloff)

Jes Roloff Environmental Consultant Wisconsin Public Service 700 North Adams Street Green Bay, WI 54301

Enc: Appendix A – 2018 Purple Loosestrife Survey Results Appendix B – 2018 Eurasian Water Milfoil Survey Results Appendix C – 2018 Zebra Mussel Monthly Substrate Sampling Results IN THE INTEREST OF PAPERWORK REDUCTION, REDUNDANT MATERIALS ARE NOT INCLUDED

## NO COMMENTS RECEIVED BY THE US FISH AND WILDLIFE SERVICE



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

October 30, 2018

Titus S. Seilheimer UW-Manitowoc 705 Viebahn St. Manitowoc, WI 54220

Mr. Seilheimer:

#### SUBJECT: Invasive Species Monitoring Plan – Zebra Mussel Report

<u>Hydro</u>	FERC Project No.	NATDAM No.	License Article
Alexander	1979	WI00748	406

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Monthly inspections of substrate samplers for the presence of ZM were conducted during the months of May through September 2018. ZM were not observed during any of the monthly substrate inspections. Appendix A includes the 2018 ZM monthly substrate sampling results.

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Sincerely,

Jessica R. Roloff

Jes Roloff Environmental Consultant Wisconsin Public Service 700 North Adams Street Green Bay, WI 54301

#### Enc: Appendix A – 2018 Zebra Mussel Monthly Substrate Sampling Results

IN THE INTEREST OF PAPERWORK REDUCTION, REDUNDANT MATERIALS ARE NOT INCLUDED

NO COMMENTS RECEIVED BY THE UNIVERSITY OF WISCONSIN SEA GRANT