


**Wisconsin Public Service Corporation**

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

www.wisconsinpublicservice.com

December 20, 2019

Ms. Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street NE  
Washington DC 20425

Dear Ms. Bose:

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

<u>Hydro</u>	<u>FERC Project No.</u>	<u>NATDAM No.</u>	<u>License Article</u>
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 Corporation (WPS) is 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.

2019 Purple Loosestrife Survey Results

A survey for PL was completed on August 14, 2019. Forty-eight colonies of PL were identified at the Project. Of the Forty-eight colonies, eight were small or medium colonies and were completely hand pulled and disposed of offsite. Appendix A includes the 2019 PL survey results.

In 2019, WPS released approximately 10,000 *Galerucella species* beetles in three different locations to supplement the existing beetle populations. WPS observed beetle feeding on twenty-eight of the forty-eight identified colonies.

WPS will continue monitoring for PL and releasing a minimum of 6,000 beetles annually in at least two separate locations. The next PL survey is scheduled for 2020, in conjunction with the EWM survey.

2019 Eurasian Water Milfoil Survey Results

A survey for EWM was completed on August 14, 2019. EWM was not observed during the survey or during any of the previous annual surveys. Appendix B includes the 2019 EWM survey results. The next EWM survey is scheduled for 2020.

Ms. Kimberly D. Bose  
December 20, 2019  
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 2019. ZM were not observed during any of the monthly substrate inspections. Appendix C includes the 2019 ZM monthly substrate sampling results.

A copy of this report was submitted to the Wisconsin Department of Natural Resources (WDNR), the US Fish and Wildlife Service (FWS), and the University of Wisconsin Sea Grant Institute (UW) on October 29, 2019. The WDNR and FWS did not provide any comments. Appendix D includes the 2019 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](mailto:Jessica.Roloff@WECEnergyGroup.com).

Sincerely,



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

JRR/ace

Enc: Appendix A – 2019 Purple Loosestrife Survey Results – 8 pages  
Appendix B – 2019 Eurasian Water Milfoil Survey Results – 2 pages  
Appendix C – 2019 Zebra Mussel Monthly Substrate Sampling Results – 2 pages  
Appendix D – 2019 Documentation of Consultation – 13 pages

cc: Ms. Cheryl Laatsch, WDNR  
Mr. Nicholas Utrup, USFWS  
Mr. Titus Seilheimer, UW  
Mr. John Zygaj, FERC - CRO

**APPENDIX A**

**2019 PURPLE LOOSESTRIFE SURVEY RESULTS**

## 2019 Purple Loosestrife Survey Form

Hydroelectric project: Alexander Hydroelectric Project

Beetle Release Date: July 3, 2019      Inspection date: August 14, 2019

Colony ID #	Colony Size S 0-5 M 6-50 L >50	General Plant Vigor			Total Plant Vigor 10-12 = good 7-9 = fair 4-6 = poor 0-3 = very poor	Notes	GPS Point
		Plant Height 4 = >4ft 3 = 2-4ft 2 = 1-2ft 1 = <1ft	Plant Flowering 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			
1		No Longer Able To Identify					1761
2	M 6-50	3	3	4	10	PL came back.	1758
3	L >50	4	3	4	11	Colony significant increased.	1757
4	S 0-5	3	3	4	10	Pulled all plants.	1756
5	M 6-50	3	3	3	9		1788
6	M 6-50	3	4	4	11	PL came back.	1787
7		No Longer Able To Identify					
8	M 6-50	3	2	2	7	Released 4,000 beetles.	1104
9		No Longer Able To Identify					1786
10		No Longer Able To Identify					1785
11		No Longer Able To Identify					
12		No Longer Able To Identify					
13	S 0-5	2	3	5	10	Private property.	1784
14		No Longer Able To Identify					1783
15		No Longer Able To Identify					
16		No Longer Able To Identify					1782
17		No Longer Able To Identify					

## 2019 Purple Loosestrife Survey Form

Hydroelectric project: Alexander Hydroelectric Project

Beetle Release Date: July 3, 2019      Inspection date: August 14, 2019

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		Plant Height 4 = >4ft 3 = 2-4ft 2 = 1-2ft 1 = <1ft	Plant Flowering 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			
18		No Longer Able To Identify					
19		No Longer Able To Identify					
20	S 0-5	3	3	5	11	Couldn't reach to pull.	1779
21	M 6-50	3	2	2	7		1776
22		No Longer Able To Identify					
23	S 0-5	3	2	5	10	Combined with colony 45.	1774
24		No Longer Able To Identify					1772
25	S 0-5	3	3	4	10	Pulled all plants.	1770
26		No Longer Able To Identify					
27	M 6-50	4	3	2	9	Released 4,000 beetles.	1769
28		No Longer Able To Identify					
29		No Longer Able To Identify					
30	S 0-5	3	2	4	9		1768
31		No Longer Able To Identify					
32	S 0-5	3	2	4	9	Pulled all plants.	1767
33		No Longer Able To Identify					1766
34		No Longer Able To Identify					1763

## 2019 Purple Loosestrife Survey Form

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35	S 0-5	3	3	5	11	Private property.	1760
36	No Longer Able To Identify						1759
37	L >50	3	3	4	10		1793, 1869, 1870
38	No Longer Able To Identify						1792
39	M 6-50	4	3	3	10	PL came back.	1791
40	S 0-5	3	2	4	9		1790
41	S 0-5	3	2	4	9		1789
42	No Longer Able To Identify						1781
43	S 0-5	3	3	5	11	Poison ivy.	1778
44	M 6-50	3	2	2	7	Released 3,000 beetles.	1775
45	Combined with Colony #23						1773
46	No Longer Able To Identify						1771
47	No Longer Able To Identify						1765
48	S 0-5	3	1	4	8	Shallow.	1764
49	S 0-5	2	2	4	8		1762
50	No Longer Able To Identify						1890
51	No Longer Able To Identify						1892

## 2019 Purple Loosestrife Survey Form

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52	S 0-5	2	3	5	10	Pulled all plants.	1893
53	No Longer Able To Identify						1894
54	No Longer Able To Identify						1895
55	S 0-5	3	3	5	11		1896
56	No Longer Able To Identify						1898
57	M 6-50	3	3	4	10	Released 3,000 beetles.	1899
58	S 0-5	2	3	4	9	Pulled all plants.	1900
59	S 0-5	2	3	5	10	Pulled all plants.	1901
60	M 6-50	3	3	5	11		1902
61	S 0-5	3	3	5	11	NEW. Private property.	1998
62	S 0-5	3	3	5	11	NEW. Couldn't reach to pull.	1999
63	S 0-5	4	3	5	12	NEW. Couldn't reach to pull.	2000
64	S 0-5	2	3	4	9	NEW. Private property.	1
65	S 0-5	3	3	5	11	NEW. Private property.	2
66	S 0-5	3	3	5	11	NEW. Private property.	3
67	S 0-5	2	3	5	10	NEW. Couldn't reach to pull.	4
68	M 6-50	4	3	3	10	NEW.	5

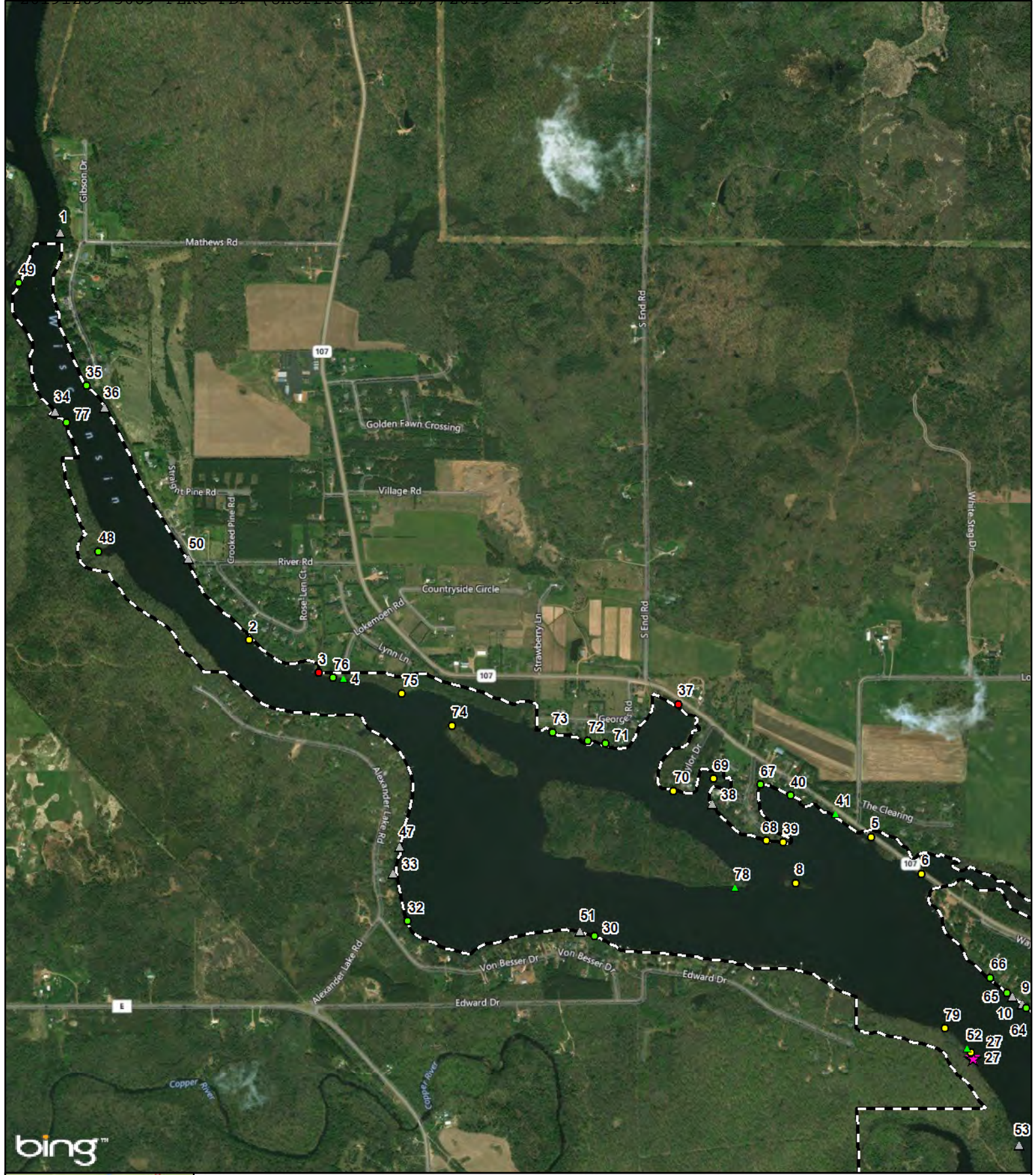
## 2019 Purple Loosestrife Survey Form

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69	M 6-50	3	2	4	9	NEW. Private property, considering the whole bay as one colony.	6
70	M 6-50	2	2	4	8	NEW. Private property.	7
71	S 0-5	3	3	5	11	NEW. Private property.	8
72	S 0-5	3	2	5	10	NEW. Private property.	9
73	S 0-5	3	2	5	10	NEW.	10
74	M 6-50	3	2	4	9	NEW.	11
75	M 6-50	3	2	5	10	NEW.	12
76	S 0-5	4	3	4	11	NEW. Pulled all plants.	13
77	S 0-5	4	3	5	12	NEW. Couldn't reach to pull.	15
78	S 0-5	2	2	4	8	NEW. Pulled all plants.	17
79	M 6-50	3	2	4	9	NEW.	18

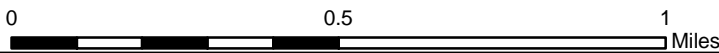




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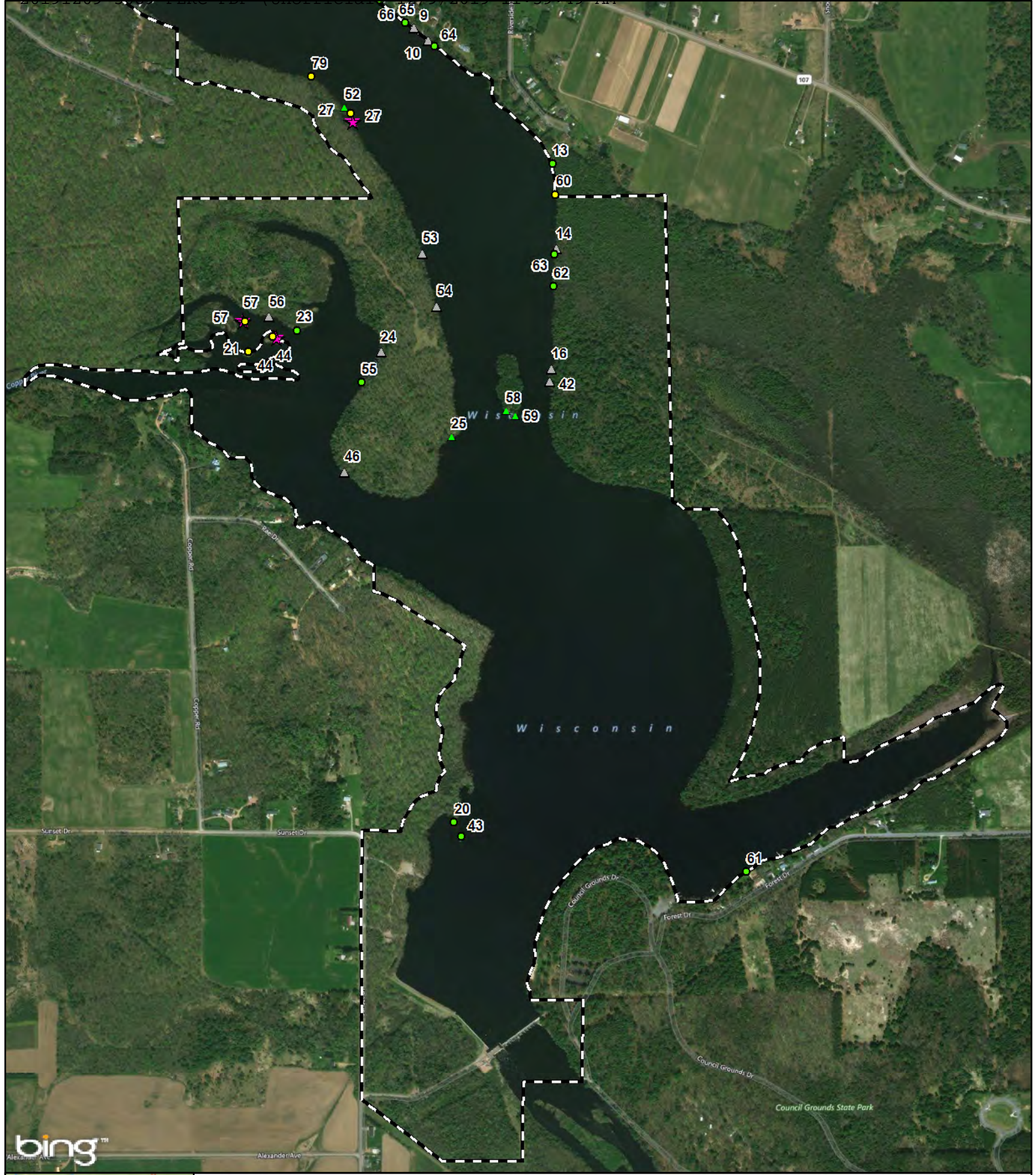
## North Alexander Hydroelectric Project Purple Loosestrife Survey 2019

- Project Boundary
- Medium
- Large
- Small
- Small/Pulled
- No Longer Able To Identify
- Beetle Release Site



10/8/2019





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**South Alexander  
Hydroelectric Project  
Purple Loosestrife Survey  
2019**

- Project Boundary
- Medium
- No Longer Able To Identify
- Small
- Beetle Release Site
- Small/Pulled



**APPENDIX B**

**2019 EURASIAN WATER MILFOIL SURVEY RESULTS**



**APPENDIX C**

**2019 ZEBRA MUSSEL MONTHLY SUBSTRATE SAMPLING RESULTS**

## ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

**HYDRO NAME**

- |  |   |                                   |                                       |
|--|---|-----------------------------------|---------------------------------------|
| <input type="checkbox"/> Grandfather Falls | <input type="checkbox"/> Merrill              | <input type="checkbox"/> Tomahawk | <input type="checkbox"/> Otter Rapids |
| <input type="checkbox"/> Wausau            | <input checked="" type="checkbox"/> Alexander | <input type="checkbox"/> Jersey   | <input type="checkbox"/> Hat Rapids   |

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>5-29-19</u>	
COMMENTS/RESULTS: <u>clean</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>6-25-19</u>	
COMMENTS/RESULTS: <u>clean</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>7-24-19</u>	
COMMENTS/RESULTS: <u>clean</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>8-26-19</u>	
COMMENTS/RESULTS: <u>CLEAR</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>9-24-19</u>	
COMMENTS/RESULTS: <u>clean</u>	

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

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

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

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

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

**APPENDIX D**

**2019 DOCUMENTATION OF CONSULTATION**





Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

October 29, 2019

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>	<u>FERC Project No.</u>	<u>NATDAM No.</u>	<u>License Article</u>
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 Corporation (WPS) is to provide monitoring reports of the purple loosestrife (PL), Eurasian water milfoil (EWM), and zebra mussel (ZM) surveys to the Wisconsin Department of Natural Resources (WDNR) and U.S. Fish & Wildlife Service (FWS) by October 31, each year a survey has been completed.

2018 Purple Loosestrife Survey Results

A survey for PL was completed on August 14, 2019. Forty-eight colonies of PL were identified at the Project. Of the Forty-eight colonies, eight were small or medium colonies and were completely hand pulled and disposed of offsite. Appendix A includes the 2018 PL survey results.

In 2019, WPS released approximately 10,000 *Galerucella species* beetles in three different locations to supplement the existing beetle populations. WPS observed beetle feeding on twenty-eight of the forty-eight identified colonies.

WPS will continue monitoring for PL and releasing a minimum of 6,000 beetles annually in at least two separate locations. The next PL survey is scheduled for 2020, in conjunction with the EWM survey.

2018 Eurasian Water Milfoil Survey Results

A survey for EWM was completed on August 14, 2018. EWM was not observed during this survey or during any of the previous annual surveys. Appendix B includes the 2019 EWM survey results. The next EWM survey is scheduled for 2020.



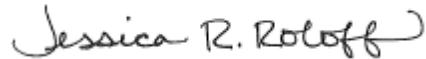
Ms. Cheryl Laatsch  
October 29, 2019  
Page 2 of 2

Zebra Mussels

Monthly inspections of substrate samplers for the presence of ZM were conducted during the months of May through September 2019. ZMs were not observed during any of the monthly substrate inspections. Appendix C includes the 2019 ZM monthly substrate sampling results.

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](mailto:Jessica.Roloff@WECEnergyGroup.com).

Sincerely,



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

Enc: Appendix A – 2019 Purple Loosestrife Results  
Appendix B – 2019 Eurasian Water Milfoil Survey Results  
Appendix C – 2019 Zebra Mussel Monthly Substrate Sampling Results

Cc: Mr. Nicholas Utrup, UWFWS

**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 29, 2019

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**

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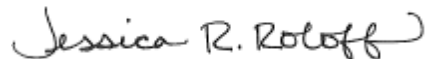
Mr. Nicholas Utrup  
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Sincerely,



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

Enc: Appendix A – 2019 Purple Loosestrife Results  
Appendix B – 2019 Eurasian Water Milfoil Survey Results  
Appendix C – 2019 Zebra Mussel Monthly Substrate Sampling Results

Cc: Ms. Cheryl Laatsch, WDNR

**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](http://www.wisconsinpublicservice.com)

October 29, 2019

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

Mr. Seilheimer:

Invasive Species Monitoring Plan

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

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Sincerely,

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

Enc: Appendix A – 2019 Zebra Mussel Monthly Substrate Sampling Results



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

**COMMENTS RECEIVED BY THE UW-MANITOWOC SEA GRANT**

## Roloff, Jessica R

---

**From:** TITUS SEILHEIMER <tseilheimer@aquawisc.edu>  
**Sent:** Tuesday, October 29, 2019 12:31 PM  
**To:** Roloff, Jessica R  
**Subject:** RE: 2019 Alexander Zebra Mussel Report

\*\*\* Exercise caution: This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or in unexpected emails. \*\*\*

Thanks Jes.

Titus Seilheimer, Ph.D.  
Fisheries Specialist  
Wisconsin Sea Grant  
920-683-4697

---

**From:** Roloff, Jessica R [<mailto:jessica.roloff@wecenergygroup.com>]  
**Sent:** Tuesday, October 29, 2019 12:28 PM  
**To:** TITUS SEILHEIMER <[tseilheimer@aquawisc.edu](mailto:tseilheimer@aquawisc.edu)>  
**Subject:** 2019 Alexander Zebra Mussel Report

Mr. Seilheimer,

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 Corporation (WPS) is to provide monitoring reports of the zebra mussel (ZM) surveys to the University of Wisconsin Sea Grant by October 31, each year a survey has been completed.

Please see the attached report and 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.

Thank you,

### Jes Roloff

Environmental Consultant  
WEC Energy Group – Business Services  
office : 920-433-5558  
fax : 920-433-1176  
email: [Jessica.Roloff@WECEnergyGroup.com](mailto:Jessica.Roloff@WECEnergyGroup.com)

\*\*\*NOTE: EMAIL ADDRESS CHANGE\*\*\*

*Serving WEC Energy Group, We Energies, Wisconsin Public Service, Michigan Gas Utilities, Minnesota Energy Resources, Peoples Gas and North Shore Gas.*

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