



# **GRESHAM MUNICIPAL UTILITIES**

1126 Main St. • P.O. Box 50  
Gresham, WI 54128  
(715) 787-3244 • Fax (715) 787-1313



December 04, 2019

FERC Project No. 2464

FERC Project No. 2484

E-File

Ms. Kimberly D. Bose, Secretary  
The Federal Energy Regulatory Commission  
ATTN: OEP/DHAC  
888 First Street NE  
Washington, DC 20426

Dear Secretary Bose:

Article 406 Weed Dam Hydroelectric Project (P-2464) and Article 404 Upper Red Lake Hydroelectric Project (P-2484) 2019 Invasive Species Monitoring Report

Article 406 of the Order Issuing subsequent License for the Weed Dam Hydroelectric Project (FERC Project No. 2464) dated February 7, 2017; Article 404 of the Order issuing subsequent license for the Upper Red Lake Hydroelectric Project dated February 7, 2017; and the Order approving Invasive Species Monitoring and Control Plan dated March 22, 2018, Gresham Municipal Utilities (GMU) is required to monitor for invasive species and file a notification with the Wisconsin Department of Natural Resources (WDNR) and the Federal Energy Regulatory Commission (Commission) with the date monitoring was completed.

Monitoring for rapid response invasive species was completed on July 11, 2019. A list of rapid response species is included in Appendix 1. Monitoring was completed by GMU staff familiar with the visual characteristics of the rapid response species. Monitoring was completed at the following four locations:

- South Side Boat Landing
- Riverside Park Boat Landing
- Geider Road Boat Landing
- Red River Walk-In Site

At each of the monitoring locations, rake sampling along 200 feet of shoreline within 100 feet of the shoreline was completed. Each area was searched for 30 minutes and involved overturning rocks in shallow water to attempt to identify invasive macro-invertebrates. No rapid response species were identified during the surveys.

GMU also monitored for rapid response invasive species including mollusks, crustaceans, macro-invertebrates, and fish throughout the year when cleaning debris from trashracks. No new rapid response invasive species were identified in trashrack debris.<sup>1</sup>

In order to collect water samples to test for the presence of zebra mussel veligers and spiny water fleas, GMU needs to receive training in the appropriate sampling protocols. Since GMU was not trained prior to completing the 2019 sampling, no water samples were taken during the year. GMU is currently coordinating with the Aquatic Invasive Species Coordinator for Shawano and Menominee Counties to receive the required training and use equipment to collect the samples. GMU will begin collecting water samples during the 2020 monitoring season. Water samples collected will be sent to the WDNR for testing to determine whether zebra mussel veligers or spiny water fleas are present.

GMU contributed \$3,000 to the Red Lakes Protection and Rehabilitation District to help fund their ongoing efforts to monitor and control invasive species on the Upper Red Lake Dam Reservoir and the Weed Dam Reservoir. Documentation of payment is located in Appendix 2.

Should you have any questions, please do not hesitate to contact me at 715-787-3994 or Darrin Johnson at 608-433-0313.

Sincerely,

A handwritten signature in black ink that reads "Brian Carroll". The signature is written in a cursive style with a large initial "B".

Brian Carroll  
Operations Manager

CC: Cheryl Laatsch, WDNR FERC Coordinator

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<sup>1</sup> The Chinese mystery snail has been verified to occur within the Upper Red Lake Dam Reservoir since 2008 and within the Weed Dam Reservoir since 2012. Curly leaf pondweed was verified to occur within the Upper Red Lake Reservoir since 2006 and within the Weed Dam Reservoir since 2012.

## **APPENDIX 1**

### **Rapid Response Invasive Species**

## Selected Regulated Aquatic Invasive Species in WI



Floating water hyacinth  
(*Eichhornia crassipes*)



Starry stonewort  
(*Nitellopsis obtusa*)



Hydrilla  
(*Hydrilla verticillata*)



Anchored water hyacinth  
(*Eichhornia azurea*)



Water lettuce  
(*Pistia stratiotes*)



Faucet snail  
(*Bithynia tentaculata*)



European frog-bit  
(*Hydrocharis morsus-ranae*)



Brittle naiad  
(*Najas minor*)



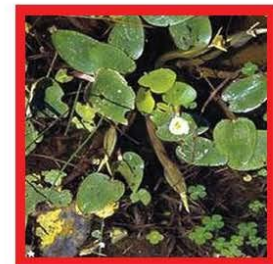
New Zealand mud snail  
(*Potamopyrgus antipodarum*)



Spiny water flea  
(*Bythotrephes cederstroemi*)



Malaysian trumpet snail  
(*Melanoides tuberculata*)



Duck lettuce  
(*Ottelia alismoides*)



Java waterdropwort  
(*Oenanthe javanica*)



Quagga mussel  
(*Dreissena rostriformis*)



Yellow floating heart  
(*Nymphoides peltata*)



Brazilian waterweed  
(*Egeria densa*)

Report any prohibited species as soon as possible by emailing: [Invasive.Species@wi.gov](mailto:Invasive.Species@wi.gov).  
This publication does not list all the regulated species. For the full list of Prohibited or Restricted species please visit:  
[www.dnr.wi.gov](http://www.dnr.wi.gov) keyword: **invasives**



Asian clam  
(*Corbicula fluminea*)



Floating marsh pennywort  
(*Hydrocotyle ranunculoides*)



Didymo  
(*Didymosphenia geminata*)



Giant salvinia  
(*Salvinia molesta*)



Red swamp crayfish  
(*Procambarus clarkii*)



Water spinach  
(*Ipomoea aquatica*)



Killer algae  
(*Caulerpa taxifolia*)



Asian marshweed  
(*Limnophila sessiliflora*)



Indian swampweed  
(*Myriophyllum polypersma*)



Aquatic forget-me-not  
(*Myriophyllum scorpioides*)



Spiny naiad  
(*Najas marina*)



Curly-leaf pondweed  
(*Potamogeton crispus*)



Zebra mussel  
(*Dreissena polymorpha*)



Rusty crayfish  
(*Orconectes rusticus*)



Chinese mystery snail  
(*Cipangopaludina chinensis*)



Yellow Iris  
(*Iris pseudacorus*)

**Prohibited Species**

**Restricted Species**

[www.dnr.wi.gov](http://www.dnr.wi.gov) keyword: **invasives**



Bureau of Science Services  
Wisconsin Department of Natural Resources  
P.O. Box 7921  
Madison, WI 53707-7921

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## **APPENDIX 2**

### **Documentation of Payment to Red Lakes Protection and Rehabilitation District**

**VILLAGE OF GRESHAM  
GRESHAM MUNICIPAL UTILITY**

049733

Payee: THE RED LAKES ASSOCIATION

CHECK NO: 49733  
Check Issue Date: 06/12/2019  
Check Amount: \$3,000.00

VENDOR NO: 6676

<u>INV DATE</u>	<u>INVOICE NO</u>	<u>INVOICE DESCRIPTION</u>	<u>GL ACCT NO</u>	<u>NET AMOUNT</u>
06/01/2019	2421	ANNUAL LICENSE FEE - 2019	600-53-5300-000	\$3,000.00

TOTAL AMOUNT \$3,000.00

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