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November 30, 2007

Ms. Louise Clemency U.S. Fish and Wildlife Service 2661 Scott Tower Drive New Franken, WI 54229-9565 Mr. Andy Morton Wisconsin Department of Natural Resources 1500 N Johns Street Dodgeville WI 53533-2116

SUBJECT:Prairie du Sac Hydroelectric Project2007 Purple Loosestrife Control Monitoring

Dear Janet and Andy:

In accordance with License Article 410 (Nuisance Plant Control Plan) as approved by the Federal Energy Regulatory Commission, we are pleased to provide you with the results of the 2007 purple loosestrife control monitoring effort on behalf of Wisconsin Power & Light Company (WP&L). After the third of the three annual monitoring surveys was completed in 2005 the status of this species was well documented within the project boundary. During our 2006 annual agency consultation meeting it was decided that WP&L would initiate a pilot project to test the effectiveness of releasing *Galerucella camariensis* beetles on several of the loosestrife infested project islands. The enclosed report summarizes the monitoring results following the first year of implementation. Please review the enclosed report and provide us with comments within 30 days. If we do not receive a response from you we will assume you have no comments. Otherwise, we can discuss the monitoring results at our annual meeting regarding Article 408 and determine the appropriate next step.

Please contact me if you have questions or require additional information regarding this submittal.

Regards, Natural Resources Consulting, Inc.

William Poole

William R. Poole Principal Scientist

Enclosure

Cc. Mildred Godoy-Daniels -Deb Frosch - Alliant Energy Alliant Energy

PURPLE LOOSESTRIFE CONTROL MEASURES MONITORING PRAIRIE DU SAC HYDROELECTRIC PROJECT FERC Project No. 11162

PRAIRIE DU SAC, WISCONSIN

August 21, 2007



NRC Project # 07-015-01



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PURPLE LOOSESTRIFE CONTROLMEASURES MONITORING

PRAIRIE DU SAC HYDROELECTRIC PROJECT FERC Project No. 11162

PRAIRIE DU SAC, WISCONSIN

August 21, 2007

Prepared For:

Ms. Mildred Godoy-Daniels Wisconsin Power & Light Company S9270A Dam Road Prairie du Sac, WI 53578-9712

Prepared By:

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NRC Project # 07-015-01

William Poole

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Regulatory and Scientific Expertise - Wetlands, Soils, Ecology, Restoration

Prairie du Sac Hydroelectric Project WP&L August 21, 2007 Purple Loosestrife Control Monitoring Columbia & Sauk Counties, Wisconsin NRC Project # 07-015-01

INTRODUCTION AND OBJECTIVES

In accordance with Article 410 of the Federal Energy Regulatory Commission (FERC) Order Issuing Original License (June 27, 2002) for the Prairie du Sac Hydroelectric Project, FERC Project No. 11162-002, Wisconsin Power and Light Company (WP&L) was required to develop and implement a purple loosestrife (*Lythrum salicaria*) monitoring plan. The purpose of the monitoring plan was to assist the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish and Wildlife Service (FWS) in controlling the spread of this nuisance plant species. Results from annual loosestrife population monitoring surveys conducted during 2002-2005 documented a dense population located on a series of islands located at the upper reaches of the project impoundment.

During the 2006 annual agency consultation meeting it was decided that WP&L would initiate a pilot project to test the effectiveness of implementing biological control measures to combat the persistent loosestrife population. During the summer of 2006, a WP&L representative propagated and released *Galerucella camariensis* beetles, a loosestrife-eating insect, on several of the subject islands. During the release procedure existing *Galerucella camariensis* beetles were observed to be present on some of the loosestrife plants.

Natural Resources Consulting, Inc. (NRC) conducted a purple loosestrife monitoring survey on July 22, 2007 to assess and document the effectiveness of the beetle introduction into the subject loosestrife population.

SURVEY METHODS

The survey was conducted by canoe and involved slowly paddling along the subject island shorelines. The survey was conducted by a qualified botanist familiar with the ecology and identification of purple loosestrife. Current conditions of the subject loosestrife populations were recorded from strategic vantage points using a digital camera. The photographs and a photograph location map are attached.

RESULTS

The survey was conducted on July 22, 2007 while purple loosestrife within the general geographic area was in full bloom. This species was observed to be relatively absent within the study area in comparison to survey records from 2005. Only sporadic individual loosestrife plants were observed and, for the most part, these plants exhibited signs of insect-induced stress and did not develop flowers. Other vegetation on these islands appeared to be healthy.

CONCLUSIONS

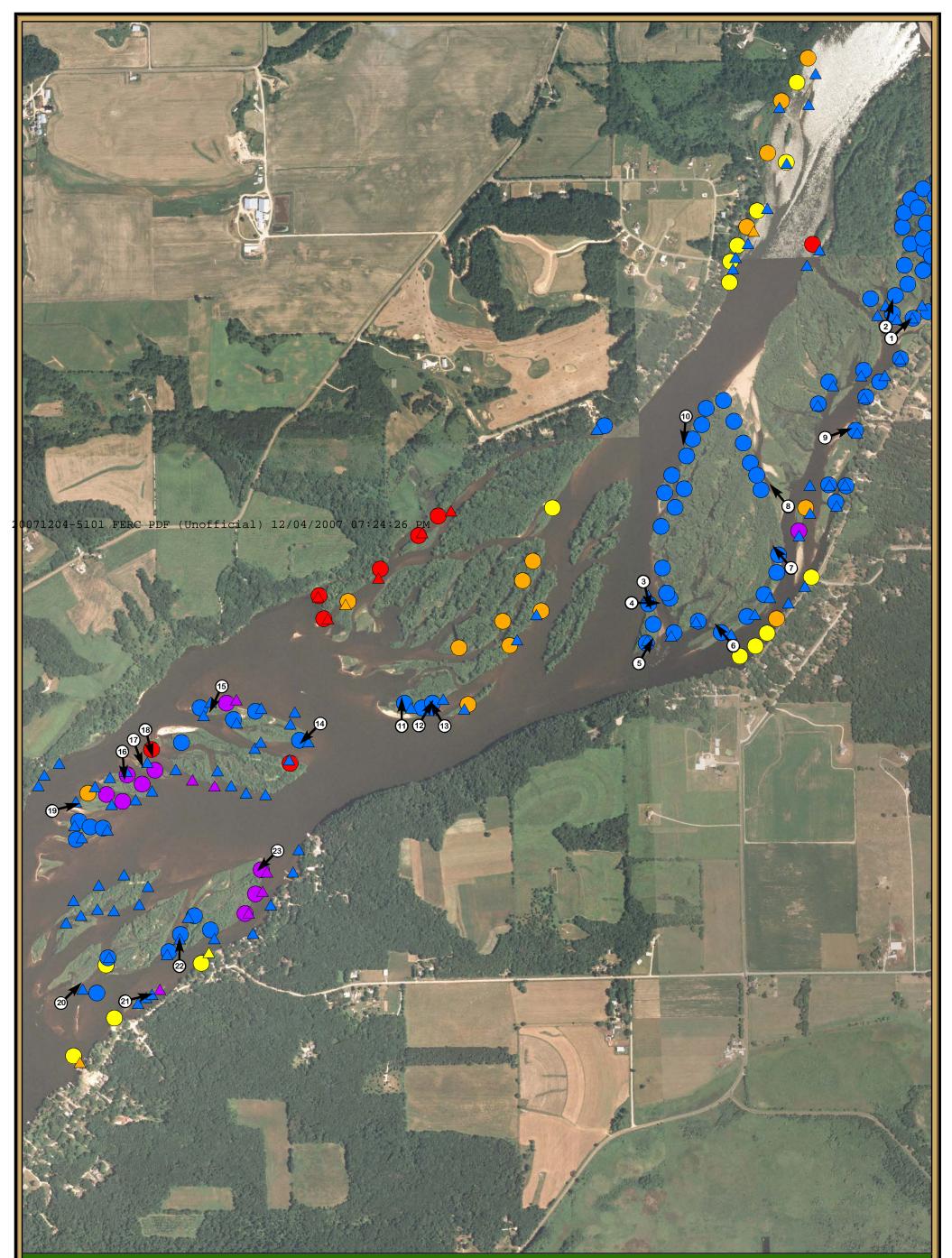
The northeastern portion of the hydroelectric project boundary (impoundment), approximately 2 miles north of Tipperary Point, historically contained the most extensive purple loosestrife infestations within the impoundment due to the shallow water conditions, low lying islands, and extensive wetlands. One year following the release of *Galerucella camariensis* beetles, and the observation of an existing *Galerucella camariensis* beetle population on the subject islands it is apparent that the purple loosestrife population has been significantly reduced in comparison to the population levels recorded during the 2002 - 2005 purple loosestrife surveys. As such, it can be concluded that the *Galerucella camariensis* beetles are effectively reducing and controlling the spread of the local loosestrife population and no further loosestrife control methods are warranted at this time.

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Prairie du Sac Hydroelectric Project WP&L August 21, 2007 Purple Loosestrife Control Monitoring Columbia & Sauk Counties, Wisconsin NRC Project # 07-015-01

PHOTOGRAPHS

Regulatory and Scientific Expertise - Wetlands, Soils, Ecology, Restoration



Purple Loosestrife Monitoring July 22, 2007

Photograph Location Key



Photo Locations 2007.mxd Map Created by S. Foster



Photograph 1



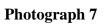




















Photograph 11

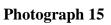




Photograph 13









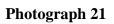








Photograph 20













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