

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** AEPP-380-13  
**Name:** DOUGLAS COUNTY LWCD: Implementing Douglas Co. Aquatic Invasive Species Program  
**Type:** Aquatic Invasives Grant  
**Subtype:** Aquatic Invasives Education  
**Status:** COMPLETE  
**Start Date:** 10/01/2012  
**End Date:** 12/31/2015  
**Purpose:** Douglas County Land & Water Conservation Department is sponsoring a multi-year countywide AIS project and position to implement its strategic plan. The project will fund the county AIS coordinator and a watercraft inspection coordinator.

Project deliverables include: 1) Countywide watercraft inspection summary, including all data entered into SWIMS; 2) List of posted boat landings with data entered into SWIMS; 3) CLMN and Project RED training summary; 4) Smart prevention monitoring summary, maps, and SWIMS data entry; 5) Upper St. Croix Lake yellow iris rapid response plan and control summary; 6) Purple loosestrife biocontrol program summary, including workshops, equipment support, and beetle raising results; 7) Movement for and possible creation of Illegal-to-Transport county ordinance; 8) Description of expanded monitoring efforts, including partnerships with county departments, DNR, and schools; 9) Information and education meeting and workshop summary and examples of any educational/outreach materials developed; 10) Summary and examples of press releases, newsletter articles, and other media contacts; 11) Summary of grant writing assistance and examples of related products/partnerships.

Special Conditions: The Department may provide standardized methods for AIS monitoring.

This scope is intended to summarize the detailed project scope provided in the application and does not supersede those application tasks/deliverables. Data, records, and reports, including GIS-based maps and digital images, must be submitted to the Department in a format specified by the regional Lake Coordinator.

**Objective:**

**Comments:** Grantee is DOUGLAS COUNTY LWCD

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Douglas County Land and W	GRANT_RECIP	ACTIVE	10/01/2012		Douglas County Land and Water Conservation Dept	

### Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

### Actions

Action	Detailed Description	Start	End Date	Status
Grant Awarded		10/01/2012	06/30/2015	COMPLETE
Control Invasive Species	2747300 Upper Saint Croix Lake	10/01/2012	06/30/2015	PROPOSED

  

Details:	Parameter	Value/Amount	Units	Comments
	% reduction in area infested by invasive species			
	Area infested by invasive species			

### Monitoring Stations

## Wisconsin Department of Natural Resources SWIMS Project Summary

Station ID	Name		Comments	
<b>Assessment Units</b>				
WBIC	Segment	Local Name	Official Name	
2748200	1	Rock Cut Creek	Unnamed	
<b>Lab Account Codes</b>				
Account Code	Description		Start Date	End Date
<b>Forms</b>				
Form Code	Form Name			
<b>Methods</b>				
Method Code	Description			
<b>Fieldwork Events</b>				
Start Date	Status	Field ID	Station ID	Station Name
<b>Documents</b>				
Title	Description	Author	Published	Comments
Description of Existing Wetland Resources in the St. Croix River Headwater Watershed	This project is part of a larger effort by the U.S. Army Corps of Engineers (USACE), Saint Paul District in partnership with the Wisconsin Department of Natural Resources (WIDNR) to study the Saint Croix Headwaters watershed. The purpose of this project was to map and describe the existing condition of wetland resources.	GeoSpatial Services & Saint Mary's University (Minnesota)	04/08/2012	
Headwater of the St. Croix Watershed Study Summary Results	The Headwaters of the St. Croix River includes waters of exceptional quality with 160 miles of streams and rivers, 197 lakes, and almost 38,000 acres of wetlands. The major rivers are the St. Croix and the Eau Claire. These waters and the lands draining to them the Headwaters Watershed cover nearly 335 square miles in the Northern Wisconsin Counties of Douglas and Bayfield. The Headwaters ends where the St. Croix River is impounded by the Gordon Dam. Below the dam, the St. Croix River becomes the St. Croix National Scenic Riverway.	Upper St. Croix Watershed Alliance, the Army Corps of Engineers & the Wisconsin Department of Natural Resources		
Hydraulic & Hydrologic Study Parameters for the Future Upper St. Croix Watershed Study	Upper St. Croix Lake is located roughly 10 miles upstream of the St. Croix Flowage and on the east shore of the town of Solon Springs, WI in Douglas County. Over the years, locals have expressed a concern that the high water in the Upper St. Croix Lake may be caused by backwater effects created by the operation of Gordon Dam, which is located on the downstream end of the St. Croix			

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
Limnological & Loading Response Analysis of St. Croix Flowage -- Final Report	<p>Flowage, also in Douglas County, WI. In the past 35 years, there have been a number of studies that investigated the possible reasons for high water levels on the Upper St. Croix Lake; however, none of them conclude that the high water levels are a result of the dam's operations.</p>	William F. James	12/01/2009	
Residential Build-Out Assessment for the Upper St. Croix Watershed	<p>This report was written by Mr. William F. James, Eau Galle Aquatic Ecology Laboratory (EGAEL) of the Environmental Laboratory's, Environmental Processes and Effects Division (EPED), U.S. Army Corps of Engineers - Engineer Research and Development Center (ERDC). Funding for this project was provided by U.S. Army Corps of Engineers District, St. Paul (USACE-MVD). Mr. Elliott Stefanik, USACE-MVD, was the lead project manager. The following people are gratefully acknowledged for participating in this project: Mr. Byron Karns, Department of the Interior, National Park Service, St. Croix National Scenic Riverway, and Mr. Aaron G. Carlson, Badger Technical Services, Inc., conducted field sampling and chemical analyses. Mr. Jacob Macholl, University of Wisconsin at Stevens Point, and Mr. Joe Schuler, U.S. Geological Survey, conducted flow measurements and continuous gauging of inflows to St. Croix Flowage, Ms. Nancy Turyk, University of Wisconsin at Stevens Point, was the project coordinator and lead investigator for the water quality assessment project of the St. Croix River Headwaters. Her team at UW-SP is gratefully acknowledged for providing water quality and gauging data for tributary loading analysis.</p>	Dan McFarlane & Anna Haines	12/11/2009	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
	<p>developable land to produce maps and tables of build-out numbers in terms of the total and location of potential residential development. Finally, future land use maps were created to reflect the watershed as if it were completely built-out. The process produced theoretical growth scenarios for the watershed based on development constraints and the effect of specific zoning regulations. In total, three build-out scenarios were generated taking into account various wetland alternatives. We used a range of data sources to identify potential wetland areas as possible constraints to development in addition to other environmental and physical constraints. Results of the build-out scenarios were incorporated into a Soil Water &amp; Assessment Tool (SWAT) to quantify the potential water quality impact of allowable development in the watershed (included earlier in this report). This analysis is functional for generalized land and watershed planning, and is not meant for site specific applications such as plotting a subdivision. Areas that would be developed to provide goods and services to a larger population are not considered in this build-out analysis.</p>			
Upper St Croix USCERW Final Report 2012	<p>This report summarizes data collected for a hydrologic and water quality study of the Upper St. Croix &amp; Eau Claire Rivers Watershed (USCECRW) conducted in 2008 and 2009. This study was designed to evaluate the current conditions in the USCECRW by monitoring 10 stream sites throughout the watershed, by collecting lake overturn, groundwater, and synoptic stream samples, by modeling the hydrology and water quality of the watershed, and by analyzing the build out potential within the watershed. The study was performed cooperatively by the Upper St. Croix Watershed Alliance, Wisconsin Department of Natural Resources, UW-Stevens Point Center for Watershed Science and Education, and U.S. Army Corps of Engineers.</p>	UW Stevens Point	02/01/2011	
Watershed Study Report for the Headwaters of the St. Croix River Basin, WI 2013	<p>A watershed study was performed for the St. Croix Headwaters Watershed (SCHW), including areas upstream of Gordon Dam near Gordon, WI. The study focused on priority water resource issues identified through collaboration with the local sponsor and stakeholders. This included evaluating existing conditions for water quality; wetlands presence and</p>	Army Corps of Engineers & Wisconsin Department of Natural Resources	11/01/2013	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
	function; aquatic habitat; fish passage; aquatic invasive species and St. Croix Flowage Management. Potential for future development was also assessed, including potential impacts of development on priority water resources. Finally, recommendations were made to direct future watershed management.			

### Budget

**Combined Budgets:**  
**Combined SLOH:**  
**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------