

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** SCR\_06\_CMP13  
**Name:** Rush Creek 303d Evaluation Continuation  
**Type:** TMDL/303d Projects  
**Subtype:** Monitor Listed Waters  
**Status:** COMPLETE  
**Start Date:** 05/01/2012  
**End Date:** 02/01/2013  
**Purpose:** This is year two continuation of a previous Project ID: SCR\_05\_CMP12 for additional monitoring of Rush Creek (WBIC: 1240100) in Iowa County, which is a listed 303d water. Jean Unmuth and interns will collect macroinvertebrates at two sites, and monitor water temperature.  
**Objective:** This will ensure multiple lines of data exist before a decision to delist the stream can be made to remove Rush Creek (WBIC 1240100) from the 303d list. Additional macroinvertebrate samples will be collected at SWIMS stations 10022678 Rush Creek Road, and 10022679 Lower Wyoming Road, and water temperature data will be collected at Lower Wyoming Road.  
**Comments:** This is a continuing project (This is year two continuation of a previous Project ID: SCR\_05\_CMP12.)  
**Outcome:** Evaluation of this water for impairment listings. 1. Number of sample sites associated with the project = 2. Number of sampling events associated with the project = 13. Estimated date when sample collection will be complete = November 2012. Estimated date when all data will be entered into appropriate database = upon receipt of macroinvertebrates from UWSP. Estimated date when final report will be complete = March 2013  
**Study Design:** Fish were monitored in June 2010, using a towboat electroshocker in Rush Creek at three sites: Weaver Rd., Lower Wyoming Rd. St. 2, and Rush Creek Rd. St. 1. In addition to the latter sites, in 2007 DNR Fish Management monitored two other sites, at locations along Upper Wyoming Road (Table 1, Figure 1). Fish indices of biotic integrity (FIBI) were analyzed and scores for cold water were used at the uppermost site at Weaver Road, because the dominant fish were cold water species and the natural community designation is cold mainstem. For the remainder of the sites downstream, the cool-cold transition FIBI was used because the dominant fish captured were transitional eurythermal species, and the natural community designation was cool-cold transition mainstem. Quantitative habitat was collected at three sites in June 2011; Weaver Road, Lower Wyoming Road St. 2, and Rush Creek Road St. 1. Habitat ratings and scores were calculated and evaluated. Macroinvertebrates were collected using a kick net in fall of 2011, from the same sites where habitat was collected sites.

Water chemistry was collected from only the Lower Wyoming Road St. 2 site between June and October. Samples were submitted to the state lab of hygiene for analysis. Water chemistry parameters collected monthly from June through October were total phosphorus and total suspended solids. Parameters collected just once in July include ammonia-nitrogen, nitrate-nitrite, kjeldahl-nitrogen, and orthophosphate. During monthly water chemistry collections, a YSI 566 meter and transparency tube were used to collect instantaneous water temperature, dissolved and saturated oxygen, pH, specific conductivity, and water transparency. Water temperature and dissolved oxygen was also collected during habitat evaluation at Weaver Rd, Lower Wyoming Rd. St. 2, and Rush Creek Rd. St. 1.

### QA Measures:

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Miller, Marcus	TEAM_MEMBER	ACTIVE	05/01/2012	08/31/2012		
UNMUTH, JEAN M	COORDINATOR	COMPLETE	05/01/2012	02/01/2013	Wisconsin DNR	
Wolf, Russel	TEAM_MEMBER	ACTIVE	05/01/2012	09/28/2012		

### Project Statuses

Date	Reported By	Status	Comments
03/19/2012	MOLLI MACDONALD	Proposed	
01/25/2013	JEAN UNMUTH	Progress: 75-100% Complete	All data has been entered into SWIMS except temperature data and Macroinvertebrate results from UWSP. Preliminary report written, but final report not completed.
09/17/2013	JEAN UNMUTH	Progress: 75-100% Complete	Macroinvertebrate data received May 2013, temperature data needs to be loaded into swims, and final report must be written. Project is off schedule. Estimated date for final report is Dec. 2013.
04/07/2014	JEAN UNMUTH	Complete	See Final Report (also under project SCR_05_CMP12).

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### Actions

Action	Detailed Description	Start	End Date	Status
Monitor or Propose 303(d) Listing	This is year two continuation of a previous Project ID: SCR_05_CMP12 for additional monitoring of Rush Creek (WBIC: 1240100) in Iowa County, which is a listed 303d water.	05/01/2012	02/01/2013	PROPOSED
Monitor Targeted Area	This is year two continuation of a previous Project ID: SCR_05_CMP12 for additional monitoring of Rush Creek (WBIC: 1240100) in Iowa County, which is a listed 303d water.	05/01/2012	02/01/2013	COMPLETE

  

Details:	Parameter	Value/Amount	Units	Comments
	Total Nitrogen			
	Total Phosphorus			
	Total Suspended Solids			

### Monitoring Stations

Station ID	Name	Comments
10022678	Rush Cr Station 1 50m Upstream Of Rush Cr Rd	
10022679	Rush Cr Station 2 50m Upstream From Lower Wyoming Bridge	

### Assessment Units

WBIC	Segment	Local Name	Official Name
1240100	1	Rush Creek	Rush Creek

### Lab Account Codes

Account Code	Description	Start Date	End Date
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### Forms

Form Code	Form Name
CONTINUOUS	Continuous Data Upload

### Methods

Method Code	Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
11/02/2012 08:00	COMPLETE	20121102-25-02	10022678	Rush Cr Station 1 50m Upstream Of Rush Cr Rd
11/02/2012 09:00	COMPLETE	20121102-25-01	10022679	Rush Cr Station 2 50m Upstream From Lower Wyoming Bridge

### Documents

Title	Description	Author	Published	Comments
2011 Fish IBI Data Summary	Rush Creek Fish IBI Graphs & Data	Jean M. Unmuth	02/15/2012	
2011 Rush Creek Report	Rush Creek Impaired waters evaluation report	Jean M. Unmuth	02/15/2012	
2011 Study Sites SWIMS Stations Map		Jean M. Unmuth	02/15/2012	
2011 Water Quality Data	Rush Creek 2011 Water Chemistry Data and Graphs	Jean M. Unmuth	02/15/2012	
2012 Rush Creek Report	Final Report includes data from 2010-2012	Jean Unmuth	04/07/2014	

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Title	Description	Author	Published	Comments
2014 Impaired Waters Documentation Sheet [Rush Creek, WBIC 1240100, AU 13342]	Documentation for 303(d) listing changes.	Jean Unmuth	04/07/2014	

### Budget

**Budget Description:** Budget for Continuation of Rush Creek 303d Evaluation    **Start Date:** 05/01/2012    **End Date:** 03/01/2013

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	20	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	4	Hours	\$0.00	\$0.00	Two UW-P interns
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	60	Miles	\$0.72	\$43.20	Two trips
MEAL	Meals	0	Meals	\$9.00	\$0.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$43.20	
BUG	Bug Contracts	2		\$165.00	\$330.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$373.20</b>	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$373.20	
<b>Combined Budgets:</b>				\$373.20	
<b>Combined SLOH:</b>				\$0.00	
<b>Combined Total:</b>				\$373.20	

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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