

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** South\_TWA\_6\_2016

**Name:** Koshkonong Creek Targeted Watershed Assessment, Jefferson, Rock & Walworth Counties

**Type:** Targeted Watershed Approach

**Subtype:** Evaluation (TP SSC, Stressor, Bioassess)

**Status:** COMPLETE

**Start Date:** 03/01/2016

**End Date:** 12/24/2018

**Purpose:** This project involved the evaluation of Koshkonong Creek HUC 10 which includes 5 HUC 12 subwatersheds (070900020401-05). The study includes collecting biological, habitat, flow, and AIS data at all stations. Data for this HUC 10 is outdated.

**Objective:** Read the [Koshkonong Creek Targeted Watershed Assessment](https://dnr.wi.gov/water/TwaPlanDetail.aspx?key=126880237)  
Collect fish wadeable IBI data at 20-25 stations,  
Fish non wadeable IBI data at one location near mouth,  
Macroinvertebrates at 20 stations.  
DNI samples at 8 stations.  
Flow at all sampling locations (20-25).  
AIS forms at all locations (20-25).  
Habitat- Qual at all locations (20-25).  
Sites / stations will be determined via computer and a field recon day..

**Comments:** Sites have been temporarily selected, but due to the ditched nature of this watershed, sites will have to be cross referenced by day in the field verifying that they are wadable and able to be sampled.

**Outcome:** The study results will be summarized in short write ups on the HUC12's to summarize biology and habitat and entry of all data into proper databases. Also there will be a powerpoint presentations to Rock River Coalition and RR TMDL sector team meetings.  
Provide data for updating 303d listing if metrics are exceeded. 2018 listing cycle and a summary water quality plan..

**Study Design:** Collect the following data:  
  
Fish Wadeable IBI data at 20-25 stations  
Fish Non Wadeable IBI data at one location near mouth  
Macroinvertebrates at 20 stations  
DNI samples at 8 stations  
Flow at all sampling locations (20-25)  
AIS forms at all locations (20-25)  
Habitat- Qual at all locations (20-25)  
Sites/ Stations will be determined on computer and field recon day.

**QA Measures:** Follow all current protocols for the mentioned above data types:  
  
Fish Wadeable- Lyons methods  
Fish Non Wadeable- Lyons methods  
DNI- LaLiberte methods  
Hab- Lyons methods  
AIS- Current protocols

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
AMRHEIN, JAMES F	TEAM_MEMBER	COMPLETE	03/01/2016	12/24/2018	Wisconsin DNR	
Helmuth, Lisa D	COORDINATOR	COMPLETE	11/23/2019	12/24/2018	Wisconsin DNR	
Perdzock, Amanda R	COORDINATOR	COMPLETE	04/04/2018	12/24/2018	Wisconsin DNR	
SORGE, MICHAEL J	PROJECT_LEAD	COMPLETE	03/01/2016	12/24/2018	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
03/01/2016	MICHAEL SORGE	Proposed	

## Wisconsin Department of Natural Resources SWIMS Project Summary

Date	Reported By	Status	Comments
03/28/2018	JAMES AMRHEIN	Progress: 75-100% Complete	Data collected, bugs returned. Analyzing data. Report currently being written.
01/14/2019	JAMES AMRHEIN	Complete	
03/13/2020	Lisa Helmuth	Public Comment Period	

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor or Assess Watershed Condition		03/01/2016	12/24/2018	COMPLETE
Monitor Targeted Watershed Area (TWA)		03/01/2016	12/24/2018	COMPLETE

### Monitoring Stations

Station ID	Name	Comments
133436	Koshkonong Creek - Below Rockdale Millpond	
10010254	Koshkonong Creek - Koshkonong Creek 50m Upstream Cty Tt	
10013016	Koshkonong Creek 1/2 Mile Below Cambridge	
10022082	Koshkonong Creek At Baxter Rd	
133015	Koshkonong Creek at Bailey Rd	
10046885	Koshkonong Creek at CTH N	
133025	Koshkonong Creek at Cth A Brg	
283017	Koshkonong Creek at Cth O	
133016	Koshkonong Creek at Cth T	
133024	Koshkonong Creek at Hoopen Road (CTH C)	
10046989	Koshkonong Creek at Learning Place Drive	
10046886	Koshkonong Creek at Oak Park Road	
10010963	Mud Creek - Mud Creek At Hilcrest Rd	
10045031	Mud Creek at Evergreen Drive	
10046988	Mud Creek at STH 73	
10045008	Unnamed Trib (5036215) at CTH PQ	
10045007	Unnamed Trib (5036882) to Koshkonong Cr at Clearview Rd	
10045006	Unnamed Trib (5036882) to Koshkonong Cr at Koshkonong Rd	
10045005	Unnamed Trib (5036882) to Koshkonong Cr at STH 73	
10033604	Unnamed Trib (5036882) to Koshkonong Crk at Highland Dr.	
10045032	Unnamed Trib (810400) to Mud Crk at W. Evergreen Dr	
10045009	Unnamed Trib (810500) to Koshkonong Cr at CTH BB	
10010983	Unnamed Trib To Goose Lake At Hwy Bb	

### Assessment Units

WBIC	Segment	Local Name	Official Name
808800	1	Upper Koshkonong Creek	Koshkonong Creek
808800	2	Upper Koshkonong	Koshkonong Creek
808800	3	Lower Koshkonong Creek	Koshkonong Creek
810300	1	Mud Creek	Mud Creek
810400	1	Unnamed Trib to Mud Cr	Unnamed
810500	1	Unnamed Trib to Koshkonong Creek	Unnamed
5036215	1	Unnamed	Unnamed

## Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
5036882	1	Local Water	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WQ002	TARGETED WATERSHED ASSESSMENTS	03/26/2014	12/31/2099

### Forms

Form Code	Form Name
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### Methods

Method Code	Description
DNR-FPM 702.2 BENTHIC INVERTEBRATE SURVEY - ARTIFICIAL SUBSTRATES	Benthic Invertebrate Survey Artificial Substrates
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker
FISH SURVEY BASELINE PROTOCOLS	Fish Survey Baseline Protocols 2004
HABITAT SURVEY QUANTITATIVE PROTOCOLS	Habitat Baseline Survey Quantitative 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
HESS SAMPLER - MACROINVERTEBRATE DATA COLLECTION	Macroinvertebrate Hess Stream Sampler
HESTER_DENDY	Standardized Collection and Assessment of Macroinvertebrates in Nonwadeable Rivers of Wisconsin
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
10/13/2016	COMPLETE	20161013-13-01	10046989	Koshkonong Creek at Learning Place Drive
10/13/2016	COMPLETE	20161013-13-02	133015	Koshkonong Creek at Bailey Rd
10/13/2016	COMPLETE	20161013-13-03	133016	Koshkonong Creek at Cth T
10/13/2016	COMPLETE	20161013-13-04	10010254	Koshkonong Creek - Koshkonong Creek 50m Upstream Cty Tt
10/13/2016	COMPLETE	20161013-13-05	10022082	Koshkonong Creek At Baxter Rd
10/13/2016	COMPLETE	20161013-13-06	283017	Koshkonong Creek at Cth O
10/13/2016	COMPLETE	20161013-13-07	10013016	Koshkonong Creek 1/2 Mile Below Cambridge
10/13/2016	COMPLETE	20161013-13-08	133436	Koshkonong Creek - Below Rockdale Millpond
10/13/2016	COMPLETE	20161013-13-09	133024	Koshkonong Creek at Hoopen Road (CTH C)
10/24/2016	COMPLETE	20161024-13-01	10045005	Unnamed Trib (5036882) to Koshkonong Cr at STH 73
10/24/2016	COMPLETE	20161024-13-02	10045006	Unnamed Trib (5036882) to Koshkonong Cr at Koshkonong Rd
10/24/2016	COMPLETE	20161024-13-03	10045007	Unnamed Trib (5036882) to Koshkonong Cr at Clearview Rd
10/24/2016	COMPLETE	20161024-13-04	10045008	Unnamed Trib (5036215) at CTH PQ
10/24/2016	COMPLETE	20161024-13-05	10033604	Unnamed Trib (5036882) to Koshkonong Crk at Highland Dr.
10/24/2016	COMPLETE	20161024-13-06	10010963	Mud Creek - Mud Creek At Hilcrest Rd
10/24/2016	COMPLETE	20161024-13-07	10045032	Unnamed Trib (810400) to Mud Crk at W. Evergreen Dr
10/24/2016	COMPLETE	20161024-13-08	10046988	Mud Creek at STH 73

### Documents

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
Koshkonong Creek TWA 2016-2018 Natural Community Validation Combined	Koshkonong Creek TWA 2016-2018 Natural Community Validation Combined. James reviewed all of Mike Sorge's sites and updated all information.	James Amrhein	05/24/2018	
Koshkonong Creek Targeted Watershed Assessment: A Water Quality Plan to Restore Wisconsin Watersheds	Koshkonong Creek Targeted Watershed Assessment: A Water Quality Plan to Protect Wisconsin Watersheds, 2020. Monitored in 2015/16. EGAD #3200-2020-05	Amrhein, James and Michael Sorge	02/13/2020	
Lake Koshkonong and Koshkonong Creek Photo	Lake Koshkonong Creek Businessmens Association	Koshkonong Creek Businessmens Association	03/14/2017	
Targeted Watershed Assessment Evaluation of the Koshkonong Creek Watershed Monitoring Report (2016)	Targeted Watershed Evaluation Project: South TWA 2016, HUC 0709000204	Amrhein, James	05/01/2018	

### Budget

**Budget Description:**Koshkonong Creek TWA **Start Date:** 07/01/2016 **End Date:** 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	220	Hours	\$0.00	\$0.00	80 JA, 140 MS
LTE SAL	LTE Salary	100	Hours	\$13.00	\$1,300.00	
LTE FR	LTE Fringe				\$321.10	
LTE IND	LTE Indirect				\$262.13	
LTE TOT	LTE Total Cost				\$1,883.23	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	700	Miles	\$0.72	\$504.00	650 total miles
MEAL	Meals	30	Meals	\$4.00	\$120.00	4.00 per lunch
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$624.00	
BUG	Bug Contracts	20		\$185.00	\$3,700.00	UWSP bugs
OTHER	Other Contracts	8		\$150.00	\$1,200.00	DNI samples
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$7,407.23	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$7,407.23	
<b>Combined Budgets:</b>				\$7,407.23	
<b>Combined SLOH:</b>				\$0.00	
<b>Combined Total:</b>				\$7,407.23	

### Funding

**Wisconsin Department of Natural Resources  
SWIMS Project Summary**

<b>Organization</b>	<b>Source</b>	<b>Type</b>	<b>Amount</b>	<b>Start Date</b>	<b>End Date</b>
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