

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** NER\_11\_CMP14

**Name:** Schoenick Creek Watershed 303(d) Identification and Long Lake Interaction Study - NER\_11\_CMP14

**Type:** Competitive Projects

**Subtype:** Impaired Water Assessment

**Status:** ACTIVE

**Start Date:** 01/01/2014

**End Date:** 12/31/2014

**Purpose:** East District water resources biologists are proposing to conduct water quality monitoring on select tributary streams to Long Lake and in the main basin of Long Lake to address water quality concerns in the watershed. Biological stream assessments will occur during June, July, and August and water chemistry samples will be collected in May-October to assess conditions in the stream for future listing on the 303d list of impaired waters. Water Quality samples will also be collected in Long Lake and the outlet to assess water quality impairments within the lake and how the lake interacts with inflow and outflow water quality of Schoenick Creek.

**Objective:** Long Lake is recommended for listing on the 303(d) list of impaired water in 2014. The Long Lake Association is concerned that water quality impairments are mainly caused from inflow from Schoenick Creek and other sources upstream in the watershed. Schoenick Creek is located in Shawano County upstream of Long Lake. Water Quality was evaluated in the Schoenick Creek watershed in 2004 and elevated levels of total phosphorous were identified in all streams within the small-sub watershed. No biological data have been collected on these streams however Total Phosphorous levels exceed listing concentrations established in 2012 WisCalm but lack an adequate set of monthly TP samples. Up to 8 sample locations are proposed for collection of biological data and up to 6 sites for water chemistry to collect data for listing under the WisCalm guidance.

Controversy regarding the inflow from Schoenick Creek has dated back into the 1970's. At some point a violation occurred that altered the exact location and flow of Schoenick Creek into the lake and residents are seeking to petition the Department for a Chapter 30 permit to route the stream out of the lake. The biologists seek to demonstrate and understand water quality interactions between Schoenick Creek and Long Lake without having the necessary information to complete a full nutrient budget of the lake and watershed. The collection of TP, TSS and VTSS along with higher frequency flow data will help to understand the interaction between the stream and lake systems. It is also anticipated that select fly over aerial photography will assist in determining the extent to which Schoenick Creek flow disperses throughout the lake during spring and summer runoff events.

**Comments:** New

**Outcome:** 8 sample sites will be selected to measure continuous temperature, fish, quantitative habitat, and bugs. 6 sites will be selected for monthly total phosphorous sampling between May-October. Lake water quality sampling will occur at spring turnover, May, June, July, and August, September and October. The stream flow dispersion fly over will occur once in spring and once in a summer runoff event. All data will be entered into the fish and habitat database and SWIMS by Hudak or Nordin. A final report will be completed after the second year of biological data collection and analysis. It is anticipated that a second year of biological confirmation sampling and any additional supporting water quality samples will be proposed for the field season of 2015.

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Hudak, Andrew J	COORDINATOR	COMPLETE	01/01/2014	12/31/2014	Wisconsin DNR	
McLennan, Robin	SUPERVISOR	ACTIVE	01/01/2014	12/31/2014	Wisconsin DNR	
Nordin, Brenda L	COORDINATOR	COMPLETE	01/01/2014	12/31/2014	Wisconsin DNR	

### Project Statuses

Date	Reported By	Status	Comments
12/16/2013	Andrew Hudak	Proposed	
07/02/2014	Andrew Hudak	Progress: 0-25% Complete	Fish and Habitat surveys have been started and the first two monthly sets of water chemistry samples have been collected.

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Date	Reported By	Status	Comments
08/04/2014	Brenda Nordin	Progress: 50-75% Complete	Pesticide samples has also been added by the WDATCP. The project is 75% complete. We still have 2 more sampling events. The report will be done in December.
12/01/2014	Andrew Hudak	Progress: 75-100% Complete	Sampling complete, data will be entered by the end of the year, drafting final report and waiting for bug data.

### Project Status Detail

Answer Set: DEFAULT

#### Question

1. Number of Sample Sites (Enter the station IDs if you know them).
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).
3. Proposed Dates for Sample Collection
4. List applicable databases and who will enter data?
5. Did you receive competitive projects funding in the previous year?
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?
7. Reviewer Notes: Identify questions or issues with project (use during review period)
8. Reviewer Decision: Is this project recommended for funding?

#### Answer

Up to 8 stream biological stream sampling sites and 6 chemistry stream sampling sites. 1 Lake sampling site.  
 5 trips for temp logger deployment, fish and habitat, and bug collection. Up to 6 trips for water quality sampling unless the citizen lake volunteer collects the monthly TP samples.  
 Temp loggers will be deployed in April and removed in October. Fish and Habitat will be collected in May-July. Lake samples will be taken July, August, September. TP samples at stream site will occur Mat-October  
 Data will be entered by Hudak and Nordin  
 Yes  
 Reports drafted but will finalize once the macroinvert results are received and final analysis is complete.

### Actions

Action	Detailed Description	Start	End Date	Status
Monitor to Evaluate Projects	East District water resources biologists are proposing to conduct water quality monitoring on select tributary streams to Long Lake and in the main basin of Long Lake to address water quality concerns in the watershed. Biological stream assessments will occur during, June, July, and August and water chemistry samples will be collected in May-October to assess conditions in the stream for future listing on the 303d list of impaired waters. Water Quality samples will also be collected in Long Lake and the outlet to assess water quality impairments within the lake and how the lake interacts with inflow and outflow water quality of Schoenick Creek.	*****	12/31/2014	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
593003	Long Lake - Deep Hole	
10042142	Schoenick Creek 100m ds Long Lake Confluence	
10042141	Schoenick Creek 175m US Long Lake Confluence	

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Station ID	Name	Comments
10042143	Schoenick Creek 200m ds St. John's Church Rd	
10042835	Schoenick Creek 50m us CTH CC	
10014772	Schoenike Creek at Cloverleaf Lake Rd.	
10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd	
10042924	Unnamed Trib to Schoenick Creek 170m ds Belle Plain Ave	
10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.	

### Assessment Units

WBIC	Segment	Local Name	Official Name
321000	1	Schoenick Creek	Schoenick Creek
321000	2	Schoenick Creek	Schoenick Creek
321000	3	Schoenick Creek	Schoenick Creek
321200	1	Unnamed E Trib. to Schoenick Cr	Unnamed
321300	1	Long Lake	Long Lake
321400	1	Unnamed W Trib to Schoenick Cr	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	05/03/2011	12/31/2014

### Forms

Form Code	Form Name
INORGANIC	Inorganic Lab - Field Data
SECCHI_TEMPDO_PLI	Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity

### Methods

Method Code	Description
CLMN INTEGRATED SAMPLE	Citizen Lake Monitoring - 6 ft integrated sampler

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
05/01/2014	COMPLETE		10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
05/01/2014	COMPLETE		10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
05/01/2014	COMPLETE		10014772	Schoenike Creek at Cloverleaf Lake Rd.
05/01/2014	COMPLETE		10042143	Schoenick Creek 200m ds St. John's Church Rd
05/12/2014 14:30	COMPLETE	SC-DS	10042142	Schoenick Creek 100m ds Long Lake Confluence
05/13/2014 11:45	COMPLETE	SC-SJ	10042143	Schoenick Creek 200m ds St. John's Church Rd
05/13/2014 11:55	COMPLETE	UNT-SLR	10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
05/13/2014 12:05	COMPLETE	UNT-GLR	10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
05/13/2014 12:45	COMPLETE	LONG LAKE	593003	Long Lake - Deep Hole
05/13/2014 14:00	COMPLETE	SC-US	10042141	Schoenick Creek 175m US Long Lake Confluence
05/13/2014 15:30	COMPLETE	SC-CLR	10014772	Schoenike Creek at Cloverleaf Lake Rd.
06/23/2014 10:15	COMPLETE	UNT-GLR2	10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.

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Start Date	Status	Field ID	Station ID	Station Name
06/23/2014 10:30	COMPLETE	SS-SJCR2	10042143	Schoenick Creek 200m ds St. John's Church Rd
06/23/2014 10:45	COMPLETE	UNT-SRLR2	10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
06/23/2014 11:00	COMPLETE		593003	Long Lake - Deep Hole
06/23/2014 11:30	COMPLETE	NA	10042141	Schoenick Creek 175m US Long Lake Confluence
06/23/2014 12:15	COMPLETE	NA	10042142	Schoenick Creek 100m ds Long Lake Confluence
06/25/2014 10:15	COMPLETE	NA	10014772	Schoenike Creek at Cloverleaf Lake Rd.
07/23/2014 10:45	COMPLETE	UNTSC-GLR	10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
07/23/2014 10:50	COMPLETE	SCCLR	10014772	Schoenike Creek at Cloverleaf Lake Rd.
07/23/2014 11:30	COMPLETE	SCDSL	10042142	Schoenick Creek 100m ds Long Lake Confluence
07/23/2014 11:30	COMPLETE		593003	Long Lake - Deep Hole
07/23/2014 11:45	COMPLETE	SCUSLL	10042141	Schoenick Creek 175m US Long Lake Confluence
07/23/2014 13:00	COMPLETE	S6SJ	10042143	Schoenick Creek 200m ds St. John's Church Rd
07/23/2014 13:30	COMPLETE	UNT-SLR	10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
08/14/2014 08:25	COMPLETE	UNT-GLR4	10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
08/14/2014 08:35	COMPLETE	SCSJ4	10042143	Schoenick Creek 200m ds St. John's Church Rd
08/14/2014 08:45	COMPLETE	UNT-SLR4	10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
08/14/2014 08:55	COMPLETE	SL-CLR4	10014772	Schoenike Creek at Cloverleaf Lake Rd.
08/14/2014 09:45	COMPLETE	SCUS4	10042141	Schoenick Creek 175m US Long Lake Confluence
08/14/2014 10:00	COMPLETE	SCDS4	10042142	Schoenick Creek 100m ds Long Lake Confluence
09/23/2014	COMPLETE		10042141	Schoenick Creek 175m US Long Lake Confluence
09/23/2014	COMPLETE		10042142	Schoenick Creek 100m ds Long Lake Confluence
09/23/2014 10:00	COMPLETE	SCSDS-5	10042142	Schoenick Creek 100m ds Long Lake Confluence
09/23/2014 10:00	COMPLETE		593003	Long Lake - Deep Hole
09/23/2014 11:00	COMPLETE	SCUS-5	10042141	Schoenick Creek 175m US Long Lake Confluence
09/23/2014 12:00	COMPLETE	SCSJ-5	10042143	Schoenick Creek 200m ds St. John's Church Rd
09/23/2014 12:10	COMPLETE	UNTSLR-5	10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
09/23/2014 12:15	COMPLETE	SCCLR-5	10014772	Schoenike Creek at Cloverleaf Lake Rd.
09/23/2014 13:30	COMPLETE	UNTGLR-5	10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
10/21/2014	COMPLETE		10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
10/21/2014	COMPLETE		10042924	Unnamed Trib to Schoenick Creek 170m ds Belle Plain Ave
10/21/2014	COMPLETE		10014772	Schoenike Creek at Cloverleaf Lake Rd.
10/21/2014	COMPLETE		10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
10/21/2014	COMPLETE		10042143	Schoenick Creek 200m ds St. John's Church Rd
10/21/2014 09:30	COMPLETE	UNTGLR-6	10016411	Unnamed Trib. - 10 Feet Below Grass Lake Road. 100 Feet Below Jim Retzlaff Farm.
10/21/2014 10:45	COMPLETE		593003	Long Lake - Deep Hole
10/21/2014 11:00	COMPLETE	SCUSLL-6	10042141	Schoenick Creek 175m US Long Lake Confluence
10/21/2014 11:15	COMPLETE	SCDSL-6	10042142	Schoenick Creek 100m ds Long Lake Confluence
10/21/2014 12:05	COMPLETE	SCSJ-6	10042143	Schoenick Creek 200m ds St. John's Church Rd
10/21/2014 12:30	COMPLETE	UNT-SLR6	10042145	UNT to Schoenick Creek 30m US Shoenrock Lake Rd
10/21/2014 13:00	COMPLETE	SCCLR-6	10014772	Schoenike Creek at Cloverleaf Lake Rd.
10/29/2014	COMPLETE		10042835	Schoenick Creek 50m us CTH CC

### Documents

Title	Description	Author	Published	Comments
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Title	Description	Author	Published	Comments
Water Quality in the Schoenick Creek Watershed and Long and Schoenick Lakes, Shawano County		Nancy Turyk, Paul McGinley, Kirk Lambrecht	06/01/2004	

**Budget**

**Budget Description:** January-June **Start Date:** 01/01/2014 **End Date:** 06/30/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	40	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	20	Hours	\$14.00	\$280.00	
LTE FR	LTE Fringe				\$69.16	
LTE IND	LTE Indirect				\$56.46	
LTE TOT	LTE Total Cost				\$405.62	
SUPPLY	Supplies	3		\$25.00	\$75.00	Shipping Costs
EQUIP	Equipment	8		\$64.00	\$512.00	Temp Loggers
MILEAGE	Mileage	400	Miles	\$0.72	\$288.00	6 round trips
MEAL	Meals	6	Meals	\$10.00	\$60.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$348.00	
BUG	Bug Contracts	0		\$0.00	\$0.00	
OTHER	Other Contracts	3		\$135.00	\$405.00	3 flights by WDNR Pilot to document sedimentation events
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$1,745.62</b>	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$1,745.62	

**Budget Description:** July-December **Start Date:** 07/01/2014 **End Date:** 12/31/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	60	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	20	Hours	\$13.00	\$260.00	
LTE FR	LTE Fringe				\$64.22	
LTE IND	LTE Indirect				\$52.43	
LTE TOT	LTE Total Cost				\$376.65	
SUPPLY	Supplies	4		\$25.00	\$100.00	Shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	700	Miles	\$0.72	\$504.00	7 Round Trips-
MEAL	Meals	10	Meals	\$10.00	\$100.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$604.00	
BUG	Bug Contracts	8		\$180.00	\$1,440.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	

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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
TOTAL	Total Cost (excludes SLOH)				\$2,520.65	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
<b>Total SLOH Lab Costs:</b>				\$0.00	
<b>Total Budget:</b>				\$2,520.65	
<b>Combined Budgets:</b>				\$4,266.27	
<b>Combined SLOH:</b>				\$0.00	
<b>Combined Total:</b>				\$4,266.27	

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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