

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** NER\_02\_CMP14

**Name:** Shawano Lake Tributary Assessment for 303(d) Identification - Year 2 - NER\_02\_CMP14

**Type:** Competitive Projects

**Subtype:** Impaired Water Assessment

**Status:** COMPLETE

**Start Date:** 1/1/2014

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

**Purpose:** In 2013 NER region monitored and sampled 8 stream segments and 1 lake site for impaired waters considerations. 6 of the 8 stream segments indicated impaired biological communities which are identified for additional impaired waters monitoring in 2014 of the biological communities. In addition 6 monthly TP samples will be collected to identify the suspected pollutant as TP in all 8 stream sample locations. The lake sampling site on Mud Lake will again be sampled at spring turnover, June, July, August, and September for TSI criteria.

NER proposes to monitor 6 streams and 1 lake which are tributaries to Shawano Lake during the 2013 project cycle for impaired waters identification. Historic water quality data from the UWSP- Center for Watershed Science and Education in their Shawano Lake Watershed Assessment (2008) indicates that Total Phosphorous samples have exceeded the listing threshold in these streams. The 6 streams will be monitored for biological impairments by conducting fish and qualitative habitat surveys, collecting macroinvertebrate samples, and continuous water temperatures. Chemistry samples will be taken on Mud Lake for Chlorophyll a and total phosphorous. Flow and basic Water quality parameters will also be collected during each field visit. It is anticipated that this will be a 2-year project so that 2012 WisCALM Guidance can be followed for TP listing with biological impairments. The 6 monthly TP samples will be proposed on those stream segments in 2014 that show biological impairments from 2013 monitoring to fill remaining data gaps. The second year will also include the remainder of growing season lake monitoring for TP and Chl a.

**Objective:** This project will seek to identify likely 303(d) waters to be included on future impaired waters listings. Recent water quality data within the last 10yrs from UWSP and WDNR sampling efforts indicated that the tributaries of Loon Creek (WBIC 323600), Duchess Creek (WBIC 325000), Pickerel Creek (WBIC 325800), Unnamed Creek #1 (WBIC 325000), Unnamed Creek #2 (WBIC 323500), and Murray Creek (WBIC 323000) have had sample concentrations of TP that exceed the listing threshold of 0.075 mg/l as indicated in 2012 WisCALM. Mud Lake (WBIC 326000) is a drainage lake that outlets to Shawano Lake through Pickerel Creek and receives water from White Clay Lake which is on the proposed 2012 303(d) list for TP. Only minimal old macroinvertebrate data exist and sufficient biological data are lacking to make impairment assessments of the waterways. The biological data will be used to make a decision on future listings for the impaired waters list. The chemistry data on Mud Lake will be used to determine the condition of Mud Lake for consideration on future impaired waters listings.

**Comments:** This is a continuing project from NER\_07\_CMP13B

**Outcome:** WisCALM 2012 guidance will be used to assess 6 streams and 1 lake for Fish and Aquatic Life impairments. A total of 8 stream sites will be sampled for Fish, qualitative habitat, continuous temperature, and bugs in 2014. TP concentrations sampled in these waterways have exceeded the listing threshold but no current biological data exist to corroborate the FAL use impairment. Only one of the 6 sites currently has an adequate subset of TP samples that exceed the listing threshold. Following biological data collection and analysis in 2013 additional TP collection may be proposed on streams with poor M-IBI or F-IBI ratings in 2014. 1 Deep Hole site will be sampled on Mud Lake. Mud Lake receives water from White Clay Lake which is on the 2012 impaired waters list for TP. Chemistry monitoring for 2 years of TP and Chl a will be proposed to meet the 2012 WisCALM listing guidance for TP and Chl a. 8 Field visits are proposed in 2013 with this project. 1 for temp logger deployment, 3 for Fish and Habitat, 3 for Lake Chemistry sampling, and 1 for temp logger retrieval and bug sample collection. All data collected will be entered into SWIMS and be used for making listing recommendations.

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Hudak, Andrew J	COORDINATOR	COMPLETE	1/1/2014	12/31/2014	Wisconsin DNR	
McLennan, Robin	SUPERVISOR	COMPLETE	1/1/2014	12/31/2014	Wisconsin DNR	

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Nordin, Brenda L	TEAM_MEMBER	COMPLETE	11/7/2016		Wisconsin DNR	
Nordin, Brenda L	COORDINATOR	COMPLETE	1/1/2014	12/31/2014	Wisconsin DNR	
Vermillion, Karen	DATA_ENTRY	ACTIVE	10/10/2014		Wisconsin Department of Natural Resources - NER	

### Project Statuses

Date	Reported By	Status	Comments
12/4/2013	Andrew Hudak	Proposed	
7/2/2014	Andrew Hudak	Progress: 25-50% Complete	Revisiting of sites with fish surveys have been completed on 6 of 8 sites and the first two sets of monthly TP samples have been collected. Fish sites will be completed by fall. Bugs will be collected in fall.
8/4/2014	Brenda Nordin	Progress: 50-75% Complete	The project is 75% complete. We still have 2 more sampling events. The report will be done in December.
12/1/2014	Andrew Hudak	Progress: 75-100% Complete	Sampling has been completed- Data will be entered by the end of the year, report shall be drafted and will be finalized once bug data is received.
12/1/2015	Andrew Hudak	Complete	Final report from 3 years of monitoring has been completed
12/8/2016	Brenda Nordin	Complete	

### Project Status Detail

**Answer Set: DEFAULT**

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	6 Stream Sites, 1 Lake Site
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	6- Stream Water Chemistry( Maybe covered by Volunteers), 5- Biological sampling, 5 - Lake monitoring
3. Proposed Dates for Sample Collection	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
4. List applicable databases and who will enter data?	Streams info will be uploaded into SWIMS and Fish database by Hudak and Lake info will be uploaded into SWIMS by Nordin or Hudak. Sampling at streams will be collected and entered into SWIMS by volunteers
5. Did you receive competitive projects funding in the previous year?	Yes
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	Report drafted but will finalize following data collection and analysis in 2014.
7. Reviewer Notes: Identify questions or issues with project (use during review period)	
8. Reviewer Decision: Is this project recommended for funding?	

### Actions

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Action	Detailed Description	Start Date	End Date	Status
Monitor or Propose 303(d) Listing	In 2013 NER region monitored and sampled 8 stream segments and 1 lake site for impaired waters considerations. 6 of the 8 stream segments indicated impaired biological communities which are identified for additional impaired waters monitoring in 2014 of the biological communities. In addition 6 monthly TP samples will be collected to identify the suspected pollutant as TP in all 8 stream sample locations. The lake sampling site on Mud Lake will again be sampled at spring turnover, June, July, August, and September for TSI criteria. NER proposes to monitor 6 streams and 1 lake which are tributaries to Shawano Lake during the 2013 project cycle for impaired waters identification. Historic water quality data from the UWSP- Center for Watershed Science and Education in their Shawano Lake Watershed Assessment (2008) indicates that Total Phosphorous samples have exceeded the listing threshold in these streams. The 6 streams will be monitored for biological impairments by conducting fish and qualitative habitat surveys, collecting macroinvertebrate samples, and continuous water temperatures. Chemistry samples will be taken on Mud Lake for Chlorophyll a and total phosphorous. Flow and basic Water quality parameters will also be collected during each field visit. It is anticipated that this will be a 2-year project so that 2012 WisCALM Guidance can be followed for TP listing with biological impairments. The 6 monthly TP samples will be proposed on those stream segments in 2014 that show biological impairments from 2013 monitoring to fill remaining data gaps. The second year will also include the remainder of growing season lake monitoring for TP and Chl a.	1/1/2014	12/31/2014	COMPLETE

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

### Monitoring Stations

Station ID	Name	Comments
593132	Duchess Creek at Cth H	
10041299	Look Creek 350m DS CTH HH	
10039273	Mud Lake- Deep Hole	
10041298	Murray Creek 110m DS STH 22	
593131	Pickerel Creek at James St Cecil	

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10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road	
10039278	Unnamed Trib to Mud Lake at Hwy E	
10039277	Unnamed Trib to Shawano Lake at Meadow Road	
10039276	Unnamed Trib to Shawano Lake at Shady Lane	

### Assessment Units

WBIC	Segment	Local Name	Official Name
181500	1	Baker Lake	Baker Lake
182000	1	Beaulieu Lake	Beaulieu Lake
184700	1	Long Lake	Deer Spring Lake
184900	1	Dollar Lake	Dollar Lake
187400	1	Hennig Lake	Hennig Lake
189400	1	Kolpack Lake	Kolpack Lake
189500	1	Koon Lake	Koonz Lake
191600	1	Lost Lake	Lost Lake
192900	1	Mission Lake	Mission Lake
210500	1	Unamed	Unnamed
211300	1	Un Lake	Unnamed
211400	1	Un Lake	Unnamed
211500	1	Un Lake	Unnamed
211600	1	Un Lake	Unnamed
211700	1	Un Lake	Unnamed
211800	1	Un Lake	Unnamed
211900	1	Un Lake	Unnamed
212500	1	Un Lake	Unnamed
212700	1	Un Lake	Unnamed
212800	1	Un Lake	Unnamed
212900	1	Un Lake	Unnamed
213000	1	Un Lake	Unnamed
213100	1	Un Lake	Unnamed
213400	1	Un Lake	Unnamed
213500	1	Un Lake	Unnamed
213600	1	Un Lake	Unnamed
213700	1	Un Lake	Unnamed
213800	1	Un Lake	Unnamed

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213900	1	Un Lake	Unnamed
214000	1	Un Lake	Unnamed
214200	1	Un Lake	Unnamed
214300	1	Un Lake	Unnamed
215300	1	Unamed	Unnamed
215400	1	Unamed	Unnamed
215500	1	Un Lake	Unnamed
215600	1	Un Lake	Unnamed
215700	1	Un Lake	Unnamed
215800	1	Un Lake	Unnamed
215900	1	Un Lake	Unnamed
216000	1	Un Lake	Unnamed
216100	1	Un Lake	Unnamed
216200	1	Un Lake	Unnamed
216300	1	Un Lake	Unnamed
216400	1	Un Lake	Unnamed
216500	1	Un Lake	Unnamed
216600	1	Un Lake	Unnamed
216700	1	Un Lake	Unnamed
216800	1	Un Lake	Unnamed
216900	1	Un Lake	Unnamed
217000	1	Un Lake	Unnamed
217100	1	Unamed	Unnamed
219200	1	Un Lake	Unnamed
219300	1	Un Lake	Unnamed
238700	1	Un Spring	Un Spring
238900	1	Un Spring	Un Spring
239000	1	Un Spring	Un Spring
239100	1	Un Spring	Un Spring
239200	1	Un Spring	Un Spring
240800	1	White Lake	White Lake
240900	1	Wilson Lake	Wilson Lake
241300	4	Wolf River-Main Stem	Wolf River
241300	5	Wolf River-Main Stem	Wolf River
241300	6	Wolf River-Main Stem	Wolf River

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241300	14	Wolf River-Main Stem	Wolf River
285600	2	Comet Creek	Comet Creek
285600	3	Comet Creek	Comet Creek
286000	1	Leitzke Creek	Leitzke Creek
286075	1	Creek 20-16 (T26n, R11e)	Unnamed
286100	1	Cleveland Creek	Cleveland Creek
288400	1	Jackson Creek	Jackson Creek
288400	2	Jackson Creek	Jackson Creek
289000	1	Creek 36-15 (T26n, R10e)	Unnamed
291900	2	Embarrass River	Embarrass River
291900	3	Embarrass River	Embarrass River
293900	3	North Branch Pigeon River	North Branch Pigeon River
294000	2	Hydes Creek	Hydes Creek
294200	1	Unnamed Stream	Unnamed
295000	1	Mehlberg Creek	Mehlberg Creek
295100	1	Unnamed Stream	Unnamed
295300	1	Unnamed Stream	Unnamed
295400	1	Kersten Lake	Kersten Lake
295500	1	Unnamed Stream	Unnamed
295600	4	South Branch Pigeon River	South Branch Pigeon River
295600	5	South Branch Pigeon River	South Branch Pigeon River
297400	2	Creek 2-1 (T25n R12e)	Unnamed
297500	1	Creek 2-1 (T25n R12e)	Unnamed
297700	1	Split Rock Creek	Split Rock Creek
297750	1	Creek 28-14 (T26n, R12e)	Unnamed
297800	1	Un Creek 27-2 (T26n-R12e-S27)	Unnamed
298100	1	Waggoner Lake	Wagner Lake
298200	1	Matteson Creek	Matteson Creek
298500	1	Big Lake	Big Lake
299000	1	Un Spring	Cloverleaf Chain
299100	1	Pine Lake (Cloverleaf Chain)	Pine Lake
299200	1	Grass Lake (Cloverleaf Chain)	Grass Lake
299300	1	Round Lake (Cloverleaf Chain)	Round Lake
299600	1	Beaver Creek	Beaver Creek
299700	1	Mill Creek	Mill Creek

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299700	2	Mill Creek	Mill Creek
299800	1	Willow Creek	Willow Creek
299800	2	Willow Creek	Willow Creek
300000	1	Spencer Creek	Spencer Creek
300100	1	Unnamed	Unnamed
300200	1	Creek 21-2 (T27n, R14e)	Unnamed
300300	1	Un Creek 2-8 (T27n-R13e-S02)	Unnamed
300400	1	Mildred Lake	Mildred Lake
300600	1	Un Lake	Unnamed
300900	1	Pella Pond	Pella Pond
301200	1	Creek 8-7 (T26n, R14e)	Unnamed
301300	1	Embarrass River-N. Branch	North Branch Embarrass River
301300	2	Embarrass River-N. Branch	North Branch Embarrass River
301300	3	Embarrass River-N. Branch	North Branch Embarrass River
301300	4	Embarrass River-N. Branch	North Branch Embarrass River
301400	1	Creek 5-10 (T26n, R14e)	Unnamed
301900	1	Creek 23-12 (T27n, R13e)	Unnamed
302000	1	Kroening Lake	Kroening Lake
302100	1	Stengel Creek	Stengel Creek
302300	1	Tilleda Pond	Tilleda Pond
302400	1	Pony Creek	Pony Creek
302700	1	Un Lake	Unnamed
302800	1	Creek 20-8 (T27n, R13e)	Unnamed
302900	1	Creek 20-7 (T27n, R13e)	Unnamed
303000	1	Un Creek 18-13 (T27n-R13e-S18)	Unnamed
303100	1	Creek 9-16 (T27n, R13e)	Unnamed
303200	1	Hennig Creek	Hennig Creek
303300	1	Creek 29-10 (T28n, R13e)	Unnamed
303325	1	Creek 29-8 (T28n, R13e)	Unnamed
303350	1	Un Spring	Un Spring
303400	1	Creek 36-15 (T28n, R12e)	Unnamed
303600	1	Bowler Pond	Bowler Pond
303700	1	Strassburg Creek	Strassburg Creek
303800	1	Creek 33-1 (T28n, R12e)	Unnamed
303900	1	Creek 23-12 (T28n, R12e)	Unnamed

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304000	1	Creek 23-9 (T28n, R12e)	Unnamed
304040	1	Un Spring	Un Spring
304050	1	Un Spring	Un Spring
304100	1	Un Creek 15-10 (T28n-R12e-S15)	Unnamed
304200	1	Creek 17-10 (T28n, R12e)	Unnamed
304300	1	Sportsman Creek	Unnamed
304400	1	Creek 12-14 (T28n, R11e)	Unnamed
304600	1	Sportsman Lake	Sportsman Lake
304700	1	Creek 7-6 (T28n, R12e)	Unnamed
304800	1	Creek 31-15 (T29n-R12e-S31)	Unnamed
305500	1	Caroline Pond	Caroline Pond
305600	1	Embarrass River-S. Branch	South Branch Embarrass River
305600	2	Embarrass River-S. Branch	South Branch Embarrass River
305600	3	Embarrass River-S. Branch	South Branch Embarrass River
305700	1	Creek 21-7 (T26n, R13e)	Unnamed
306000	1	Creek 13-2 (T26n, R12e)	Unnamed
306300	1	Creek 14-2 (T26n, R12e)	Unnamed
306325	1	Un Lake	Unnamed
306400	1	Un Creek 15-2 (T26n-R12e-S15)	Unnamed
306600	1	Tigerton Pond	Lower Tigerton Pond
306700	1	Tiger Creek	Tiger Creek
306700	2	Tiger Creek	Tiger Creek
306800	1	Goede Creek	Unnamed
306900	1	Creek 6-14 (T26n, R12e)	Unnamed
307000	1	Creek 36-13 (T27n, R11e)	Unnamed
307100	1	Creek 36-2 (T27n, R11e)	Unnamed
307400	1	Un Lake	Unnamed
307800	1	Steinke Creek	Steinke Creek
308000	1	Un Spring	Un Spring
308100	1	Whitcomb Creek	Beetle Creek
308200	1	Larson Creek	Larsen Creek
308500	1	Spranger Creek	Spranger Creek
309200	1	Un Creek (T27n-R11e-S20)	Unnamed
309300	1	Creek 17-6 (T27n, R11e)	Unnamed
309500	1	Railroad Creek	Railroad Creek

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309600	1	Un Spring	Un Spring
309700	1	Norrie Creek	Norrie Brook
310600	1	Mud Lake	Mud Lake
310700	1	Embarrass River-Middle Branch	Middle Br Embarrass River
310700	2	Embarrass River-Middle Branch	Middle Br Embarrass River
310700	3	Embarrass River Middle Branch	Middle Br Embarrass River
310700	4	Middle Branch Embarrass River	Middle Br Embarrass River
310800	1	Creek 9-14 (T26n, R13e)	Unnamed
310900	1	Logemanns Creek	Logemanns Creek
311000	1	Creek 32-13 (T27n, R13e)	Unnamed
311100	1	Creek 31-11 (T27n R13e)	Unnamed
311200	1	Creek 26-14 (T27n, R12e)	Simpson Creek
311300	1	Creek 28-13 (T27n, R12e)	Unnamed
311400	1	Dent Creek	Dent Creek
311500	2	Creek 22-9 (T27n, R12e)	Unnamed
311550	1	Creek 21-1 (T27n, R12e)	Unnamed
311600	1	Creek 24-4 (T27n, R11e)	Unnamed
311700	1	Creek 9-16 (T27n, R12e)	Unnamed
311800	1	Wilson Creek	Wilson Creek
311900	1	Creek 7-2 (T27n, R12e)	Unnamed
312000	1	Un Creek (T27n-R11e-S11)	Unnamed
312100	1	Un Lake	Unnamed
312300	1	Un Lake	Unnamed
312400	1	Un Lake	Unnamed
312600	1	Homme Pond	Homme Pond
312700	1	Creek 4-13 (T27n, R11e)	Unnamed
312800	1	Packard Creek	Packard Creek
312900	1	Creek 28-7 (T28n, R11e)	Unnamed
312925	1	Creek 5-2 (T28n, R11e)	Unnamed
312950	1	Creek 30-15 (T29n, R11e)	Unnamed
312950	2	Creek 30-15 (T29n, R11e)	Unnamed
313100	1	Local Water	Unnamed
313200	1	Schmidt Creek	Schmidt Creek
313400	1	Un Spring	Un Spring
313500	1	Lex Creek	Lex Creek

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313600	1	Elmhurst Creek	Elmhurst Creek
313700	1	Creek 23-9 (T29n, R11e)	Unnamed
314000	1	Creek 3-10 (T29n, R11e)	Unnamed
314700	1	Un Spring	Un Spring
316800	1	Shioc River	Shioc River
317100	2	Black Creek	Black Creek
318000	1	Herman Creek	Herman Creek
318200	1	Local Water	Unnamed
318600	1	Mink Creek	Mink Creek
318700	1	Shioc River-E. Branch	East Branch Shioc River
318900	1	Shioc River-W. Branch	West Branch Shioc River
318900	3	Shioc River-W. Branch	West Branch Shioc River
318900	4	Shioc River-W. Branch	West Branch Shioc River
319100	1	Unnamed Trib to W Br Shioc R	Unnamed
319200	1	Un Lake	Unnamed
319300	1	Slab City Creek	Slab City Creek
321000	1	Schoenick Creek	Schoenick Creek
321000	2	Schoenick Creek	Schoenick Creek
321000	3	Schoenick Creek	Schoenick Creek
321100	1	Schoenick Lake	Schoenick Lake
321200	1	Unnamed E Trib. to Schoenick Cr	Unnamed
321300	1	Long Lake	Long Lake
321400	1	Unnamed W Trib to Schoenick Cr	Unnamed
321500	1	Un Creek (T26n-R16e-S32)	Unnamed
321700	1	School Section Creek	School Section Creek
322100	1	Rose Brook	Rose Brook
322100	2	Rose Brook	Rose Brook
322300	1	Creek 2-3 (T26n, R15e)	Unnamed
322500	1	Wolf River Pond	Wolf River Pond 1139
322600	1	Shawano Lake Outlet	Shawano Lake Outlet
322800	1	Shawano Lake	Shawano Lake
323000	1	Murray Creek	Murray Creek
323500	1	Local Water	Unnamed
323600	1	Loon Creek	Loon Creek
323600	2	Loon Creek	Loon Creek

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323700	1	Washington Lake (Mud)	Washington Lake
323800	1	Loon Lake	Loon Lake
324000	1	Lulu Lake	Lulu Lake
324900	1	Un Lake	Unnamed
325000	1	Unnamed	Unnamed
325100	1	Duchess Creek	Duchess Creek
325200	1	Unnamed	Unnamed
325300	1	Bahr Lake	Bahr Lake
325400	1	Korth Lake	Korth Lake
325600	1	Lily Lake	Lily Lake
325700	1	Spring Lake	Spring Lake
325800	1	Pickerel Creek	Pickerel Creek
326000	1	Mud Lake	Mud Lake
326100	1	Unnamed	Unnamed
326200	1	Unnamed	Unnamed
326300	1	Un Lake	Unnamed
326400	1	White Clay Lake	White Clay Lake
326600	1	Red River	Red River
326600	2	Red River	Red River
326600	5	Red River	Red River
326700	1	Kroenke Creek	Kroenke Creek
326700	2	Kroenke Creek	Kroenke Creek
327200	1	Gardner Creek	Gardner Creek
327200	2	Gardner Creek	Gardner Creek
327250	1	Creek 36-8 (T28n, R14e)	Unnamed
327600	1	Malone Lake	Malone Lake
327800	1	Red Lake, Lower (Weed Dam Pond)	Lower Red Lake
327900	1	Miller Creek	Miller Creek
328100	1	Moon Lake	Moon Lake
328300	1	Un Spring	Un Spring
328600	1	Island Creek	Island Creek
328600	2	Island Creek	Island Creek
328700	1	Creek 15-3 (T28n-R14e-S15)	Unnamed
328700	2	Creek 10-11	Unnamed
328800	1	Un Creek 15-3 (T28n-R14e-S10)	Unnamed

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328900	1	Island Lake (Little)	Island Lake
329000	1	Creek 6-16 (T28n, R14e)	Unnamed
329100	1	Un Lake	Unnamed
329900	1	Red Lake, Upper (Gresham Pond)	Upper Red Lake
330000	1	Creek 32-2 (T28n, R14e)	Unnamed
330000	2	Creek 32-2 (T28n, R14e)	Unnamed
330100	1	Un Creek (T28n-R14e-S32)	Unnamed
330200	1	Smith Lake	Smith Lake
330300	1	Smith Creek	Smith Creek
330500	1	Slicky Creek	Slicky Creek
330600	1	Red River-W. Branch	West Branch Red River
330600	3	West Branch Red River	West Branch Red River
330600	4	Red River-W. Branch	West Branch Red River
330700	1	Silver Creek	Silver Creek
330800	1	Gold Creek	Gold Creek
331300	1	Un Spring	Un Spring
331600	1	Cranberry Lake	Cranberry Lake
331800	1	Un Spring	Un Spring
332000	1	Un Spring	Un Spring
332200	1	Creek 24-9 (T29n, R12e)	Unnamed
332300	1	West Branch Red River	West Branch Red River -Un Channel
332400	1	Mattoon Creek	Mattoon Creek
332900	1	Mondl Creek	Mondl Creek
333000	2	Creek 1-4 (T29n, R11e)	Unnamed
333100	1	Mondl Spring	Mondl Spring
333300	1	Un Creek 6-16 (T29n-R12e-S06)	Unnamed
333300	2	Creek 6-16	Unnamed
334800	1	Creek 3-16 (T28n, R13e)	Unnamed
334900	1	Tousey Creek	Tousey Creek
339000	1	Alcohol Creek	Alcohol Creek
341900	2	Wolf River-W. Branch	West Branch Wolf River
344900	1	Volland Creek	Volland Creek
345000	1	Mud Lake	Mud Lake
345100	1	Big Lake	Big Lake
345200	1	Allender Creek	Allender Creek

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411500	2	Potter Creek	Potter Creek
411600	1	West Branch Suamico River	West Branch Suamico River
411800	1	Little Suamico River	Little Suamico River
412100	1	Unnamed Stream	Unnamed
412400	1	Un Lake	Unnamed
412500	1	Un Lake	Unnamed
412900	1	Pensaukee River	Pensaukee River
414000	1	North Branch Pensaukee River	North Branch Pensaukee River
414800	1	Unnamed Trib to N Br Pensaukee River	Unnamed
414900	1	Mud Lake	Mud Lake
415000	1	Pensaukee Lakes	Pensaukee Lakes
415200	1	Un Spring	Un Spring
415500	1	Local Water	Unnamed
415600	1	Local Water	Unnamed
415900	1	Local Water	Unnamed
416000	1	Unnamed Trib to the Pensaukee River	Unnamed
416600	1	Local Water	Unnamed
417000	1	Pautz Lake	Pautz Lake
440200	6	Oconto River	Oconto River
451200	1	Unnamed Stream	Unnamed
451700	1	Unnamed Stream	Unnamed
451900	1	Unnamed Stream	Unnamed
452100	1	Unnamed Stream	Unnamed
452200	1	Unnamed Stream	Unnamed
452300	1	Unnamed Stream	Unnamed
452600	1	Unnamed Stream	Unnamed
1408500	2	Aniwa Creek	Aniwa Creek
1408800	1	Pleasant Lake	Pleasant Lake
3000102	1	Unnamed Trib to N Br Pigeon River	Unnamed
3000222	1	Unnamed Creek T27n R12e S28	Unnamed
3000280	1	Creek 7-2 (T29n, R12e)	Unnamed
3000282	1	Creek 5-4 (T26n, R11e)	Unnamed
3000283	1	Creek 28-9 (T26n R12e)	Unnamed
3000284	1	Creek 2-1 (T26n, R12e)	Unnamed
3000285	1	Creek 15-3 (2002 Version)	Unnamed

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3000286	1	Creek 1-2 (T26n, R13e)	Unnamed
3000388	1	Creek 5-2 (T26n, R13e)	Unnamed
3000397	1	Creek 10-16 (T29n, R11e)	Unnamed
3000557	1	Unnamed Stream	Unnamed
3000558	1	Local Water	Unnamed
3000574	1	Unnamed Stream	Unnamed
3000582	1	Unnamed Stream	Unnamed
3000592	1	Unnamed Stream	Unnamed
3000597	1	Unnamed Stream	Unnamed
3000599	1	Unnamed Trib to the Pensaukee River	Unnamed
3000601	1	Unnamed Trib	Unnamed
5011352	1	EFFLUENT DITCH	Unnamed
5012028	1	Unnamed	Unnamed
5012120	1	Unnamed Stream	Unnamed
5012229	1	Unnamed Stream	Unnamed
5012367	1	Unnamed Stream	Unnamed
5012423	1	Unnamed Stream	Unnamed
5012445	1	Unnamed	Unnamed
5012492	1	Unnamed Stream	Unnamed
5012499	1	Unnamed Stream	Unnamed
5012501	1	Unnamed Stream	Unnamed
5012502	1	Unnamed Stream	Unnamed
5012829	1	Unnamed Trib to Wolf River	Unnamed
5013017	1	Unnamed	Unnamed
5013102	1	Unnamed	Unnamed
5013167	1	Unnamed	Unnamed
5013306	1	Unnamed	Unnamed
5013585	1	Unnamed Trib	Pensaukee River, Unnamed
5014152	1	Unnamed Trib to Schoenick Creek	Unnamed
5014156	1	Unnamed Stream	Unnamed
5014355	1	Unnamed Stream	Unnamed
5014448	1	Unnamed Stream	Unnamed
5014493	1	Unnamed Stream	Unnamed
5014494	1	Unnamed Stream	Unnamed
5014586	1	Unnamed Stream	Unnamed

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5014692	1	Unnamed Stream	Unnamed
5014743	1	Unnamed Stream	Unnamed
5014776	1	Unnamed Stream	Unnamed
5014810	1	Unnamed Stream	Unnamed
5014963	1	Unnamed Stream	Unnamed
5014996	1	Unnamed Stream	Unnamed
5015004	1	Local Water	Unnamed
5015007	1	Unnamed Stream	Unnamed
5015051	1	Unnamed Stream	Unnamed
5015106	1	Unnamed Stream	Unnamed
5015170	1	Unnamed Stream	Unnamed
5015185	1	Unnamed Stream	Unnamed
5015290	1	Unnamed Stream	Unnamed
5015298	1	Unnamed Stream	Unnamed
5015298	2	Unnamed Stream	Unnamed
5015349	1	Unnamed Stream	Unnamed
5015386	1	Unnamed Stream	Unnamed
5015418	1	Unnamed Stream	Unnamed
5015489	1	Unnamed Stream	Unnamed
5015656	1	Unnamed Stream	Unnamed
5015748	1	Unnamed Stream	Unnamed
5015792	1	Unnamed Stream	Unnamed
5015832	1	Unnamed Stream	Unnamed
5016214	1	Unnamed Stream	Unnamed
5534677	1	Local Water	Unnamed
5535277	1	Birnamwood Pond	Unnamed
5535316	1	Local Water	Unnamed
5535360	1	Local Water	Unnamed
5535682	1	Local Water	Unnamed
5535908	1	Unamed	Unnamed
5536344	1	Local Water	Unnamed
5536889	1	Local Water	Unnamed
5536917	1	Local Water	Unnamed
5536984	1	Local Water	Unnamed
5537022	1	Local Water	Unnamed

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5537072	1	Local Water	Unnamed
5537116	1	Local Water	Unnamed
5537241	1	Local Water	Unnamed
5537575	1	Local Water	Unnamed
5537807	1	Local Water	Unnamed
5537923	1	Local Water	Unnamed
5537954	1	Local Water	Unnamed
5537958	1	Local Water	Unnamed
5538019	1	Local Water	Unnamed
5538459	1	Local Water	Unnamed
5538875	1	Local Water	Unnamed
5539045	1	Local Water	Unnamed
5539444	1	Unnamed Lake	Unnamed
5539584	1	Local Water	Unnamed
5539735	1	Local Water	Unnamed
5539754	1	Local Water	Unnamed
5540344	1	Local Water	Unnamed
5540354	1	Local Water	Unnamed
5540410	1	Local Water	Unnamed
5540458	1	Local Water	Unnamed
5540691	1	Local Water	Unnamed
5540714	1	Local Water	Unnamed
5540776	1	Local Water	Unnamed
5540852	1	Local Water	Unnamed
5541275	1	Local Water	Unnamed
5541659	1	Local Water	Unnamed
5542965	1	Local Water	Unnamed
5543867	1	Local Water	Unnamed
5543969	1	Local Water	Unnamed
7215131	1	Creek 31-14 T29n R12e	Unnamed

### Lab Account Codes

Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	5/3/2011	12/31/2014

### Forms

## Wisconsin Department of Natural Resources SWIMS Project Summary

Form Code	Form Name
AIS_EDD_2013	AIS Early Detection Monitoring Form (R 06/2013)
VOL_RIVER	Citizen-Based Stream Monitoring
CONTINUOUS	Continuous Data Upload
STREAM_MON	Stream Monitoring (Temp, DO, Trans, Flow)
WADEABLE_MACRO_FIELD	Wadeable Macroinvertebrate Field & Habitat Data

### Methods

Method Code	Method Description
AQ_PLANT_2010	Baseline Aquatic Plants Monitoring 2010
CBSM_FIELD_METHODS_STREAM_CHEMISTRY	CBSM Field Methods for Stream Monitoring 2010
ELECTROFISHING: BACKPACK SHOCKER	Electrofishing: Backpack Shocker
ELECTROFISHING: STREAM SHOCKER	Electrofishing: Stream Shocker
HABITAT SURVEY BASELINE PROTOCOLS	Habitat Baseline Survey Quantitative 2004
MACROINVERTEBRATE BASELINE PROTOCOLS	Macroinvertebrate Baseline D-frame Kick Net 2004
DNR-FPM-SONDES2006	Multi-Parameter Continuous Meter (Sondes) Guidelines 2006
WAV STREAM MONITORING PROTOCOLS	Water Action Volunteers (WAV) Stream Monitoring Protocols 2009
GRAB SAMPLE	Water Grab Sample Guidelines and Procedures 2005

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
5/13/2014 8:30	COMPLETE	NA	10041298	Murray Creek 110m DS STH 22
5/13/2014 8:37	COMPLETE	NA	10039276	Unnamed Trib to Shawano Lake at Shady Lane
5/13/2014 8:57	COMPLETE	NA	10039277	Unnamed Trib to Shawano Lake at Meadow Road
5/13/2014 9:10	COMPLETE	NA	10039278	Unnamed Trib to Mud Lake at Hwy E
5/13/2014 9:22	COMPLETE	NA	10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
5/13/2014 9:40	COMPLETE	NA	593131	Pickerel Creek at James St Cecil
6/10/2014 7:24	COMPLETE	NA	593131	Pickerel Creek at James St Cecil
6/10/2014 7:36	COMPLETE	NA	10039278	Unnamed Trib to Mud Lake at Hwy E
6/10/2014 7:49	COMPLETE	NA	10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
6/10/2014 8:07	COMPLETE	NA	10039277	Unnamed Trib to Shawano Lake at Meadow Road
6/10/2014 8:19	COMPLETE	NA	10039276	Unnamed Trib to Shawano Lake at Shady Lane
6/10/2014 8:30	COMPLETE	NA	10041298	Murray Creek 110m DS STH 22

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## Wisconsin Department of Natural Resources SWIMS Project Summary

7/8/2014 8:18	COMPLETE	NA	593131	Pickereel Creek at James St Cecil
7/8/2014 8:36	COMPLETE	NA	10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
7/8/2014 9:00	COMPLETE	NA	10039278	Unnamed Trib to Mud Lake at Hwy E
7/8/2014 9:33	COMPLETE	NA	10039277	Unnamed Trib to Shawano Lake at Meadow Road
7/8/2014 9:45	COMPLETE	NA	10039276	Unnamed Trib to Shawano Lake at Shady Lane
7/8/2014 9:56	COMPLETE	NA	10041298	Murray Creek 110m DS STH 22
7/25/2014	COMPLETE		10039273	Mud Lake- Deep Hole
8/5/2014 7:35	COMPLETE	99225095	593131	Pickereel Creek at James St Cecil
8/5/2014 7:55	COMPLETE	99225123	10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
8/5/2014 8:30	COMPLETE	99225127	10039278	Unnamed Trib to Mud Lake at Hwy E
8/5/2014 9:05	COMPLETE	99225131	10039277	Unnamed Trib to Shawano Lake at Meadow Road
8/5/2014 9:25	COMPLETE	99225135	10039276	Unnamed Trib to Shawano Lake at Shady Lane
8/5/2014 9:40	COMPLETE	99225115	10041298	Murray Creek 110m DS STH 22
9/11/2014	COMPLETE		10039278	Unnamed Trib to Mud Lake at Hwy E
9/11/2014	COMPLETE		10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
9/11/2014	COMPLETE		10039277	Unnamed Trib to Shawano Lake at Meadow Road
9/11/2014	COMPLETE		10039276	Unnamed Trib to Shawano Lake at Shady Lane
9/11/2014	COMPLETE		10041298	Murray Creek 110m DS STH 22
9/11/2014	COMPLETE		593131	Pickereel Creek at James St Cecil
9/16/2014 7:26	COMPLETE	NA	593131	Pickereel Creek at James St Cecil
9/16/2014 7:45	COMPLETE	NA	10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
9/16/2014 8:10	COMPLETE	NA	10039278	Unnamed Trib to Mud Lake at Hwy E
9/16/2014 8:30	COMPLETE	NA	10039277	Unnamed Trib to Shawano Lake at Meadow Road
9/16/2014 8:45	COMPLETE	NA	10039276	Unnamed Trib to Shawano Lake at Shady Lane
9/16/2014 9:00	COMPLETE	NA	10041298	Murray Creek 110m DS STH 22
10/16/2014 8:15	COMPLETE	NA	593131	Pickereel Creek at James St Cecil
10/16/2014 8:35	COMPLETE	NA	10016025	Trib To White Clay Lake - 50 Ft Downstream From Lodge Road
10/16/2014 9:00	COMPLETE	NA	10039278	Unnamed Trib to Mud Lake at Hwy E
10/16/2014 9:30	COMPLETE	NA	10039277	Unnamed Trib to Shawano Lake at Meadow Road
10/16/2014 9:40	COMPLETE	NA	10039276	Unnamed Trib to Shawano Lake at Shady Lane
10/16/2014 9:50	COMPLETE	NA	10041298	Murray Creek 110m DS STH 22

### Documents

## Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
2014 Total Phosphorus Monitoring Report - Murray Creek 110m DS STH 22	Many of Wisconsin's water quality standards require multiple visits to make an assessment decision. Every year, several stream sites are monitored and the field data collected during each visit are used to flag problem waters. In the next year, follow up monitoring is carried out on the flagged waters where the data suggest there is an impairment, but there are insufficient data to make that determination based on the State's minimum data requirements. In 2015, stream monitors assisted in the monitoring process by collecting water samples to be analyzed for total phosphorus at the Wisconsin State Lab of Hygiene.	Hudak, Andrew	12/1/2015	
2014 Total Phosphorus Monitoring Report - Pickereel Creek at James St, Cecil	Historic water quality data, used as part of the Shawano Lake Watershed Assessment (UW Stevens Point - Center for Watershed Science and Education 2008), indicate that total phosphorus levels exceeded the impaired listing threshold in several of the tributaries to Shawano Lake. DNR staff and WAV volunteers began collecting total phosphorus data for these streams in 2013 and have continued in 2014 to fill any remaining data gaps.	Lindsey Albright	2/4/2015	
2014 Total Phosphorus Monitoring Report - Trib To White Clay Lake - 50 Ft Downstream From Lodge Rd	Historic water quality data, used as part of the Shawano Lake Watershed Assessment (UW Stevens Point - Center for Watershed Science and Education 2008), indicate that total phosphorus levels exceeded the impaired listing threshold in several of the tributaries to Shawano Lake. DNR staff and WAV volunteers began collecting total phosphorus data for these streams in 2013 and have continued in 2014 to fill any remaining data gaps.	Lindsey Albright	2/3/2015	

## Wisconsin Department of Natural Resources SWIMS Project Summary

2014 Total Phosphorus Monitoring Report - Unnamed Trib to Mud Lake @ Hwy E	Historic water quality data, used as part of the Shawano Lake Watershed Assessment (UW Stevens Point - Center for Watershed Science and Education 2008), indicate that total phosphorous levels exceeded the impaired listing threshold in several of the tributaries to Shawano Lake. DNR staff and WAV volunteers began collecting total phosphorus data for these streams in 2013 and have continued in 2014 to fill any remaining data gaps.	Lindsey Albright	2/4/2015	
2014 Total Phosphorus Monitoring Report - Unnamed Trib to Shawano Lake @ Meadow Road	Historic water quality data, used as part of the Shawano Lake Watershed Assessment (UW Stevens Point - Center for Watershed Science and Education 2008), indicate that total phosphorous levels exceeded the impaired listing threshold in several of the tributaries to Shawano Lake. DNR staff and WAV volunteers began collecting total phosphorus data for these streams in 2013 and have continued in 2014 to fill any remaining data gaps.	Lindsey Albright	2/4/2015	
2014 Total Phosphorus Monitoring Report - Unnamed Trib to Shawano Lake @ Shady Lane	Historic water quality data, used as part of the Shawano Lake Watershed Assessment (UW Stevens Point - Center for Watershed Science and Education 2008), indicate that total phosphorous levels exceeded the impaired listing threshold in several of the tributaries to Shawano Lake. DNR staff and WAV volunteers began collecting total phosphorus data for these streams in 2013 and have continued in 2014 to fill any remaining data gaps.	Lindsey Albright	2/4/2015	
NER_02_CMP14 status 10132016	NER_02_CMP14 status 10 13 2016	SWIMS Reports	10/13/2016	
Shawano Lake Assessment		Brenda Nordin	12/8/2016	
Shawano Lake Tributary Assessment- Final Report		Andrew Hudak	12/1/2015	
Shawano Lake Watershed Assessment		Brenda Nordin	3/1/2016	

### Budget

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

Budget Description: January-June

Start Date: 1/1/2014

End Date: 6/30/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	70	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	30	Hours	\$13.00	\$390.00	
LTE FR	LTE Fringe				\$96.33	
LTE IND	LTE Indirect				\$78.64	
LTE TOT	LTE Total Cost				\$564.97	
SUPPLY	Supplies	3		\$25.00	\$75.00	Shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	320	Miles	\$0.72	\$230.40	
MEAL	Meals	10	Meals	\$10.00	\$100.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$330.40	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$970.37	

**Total WSLH Lab Costs:** \$0.00

**Total Budget:** \$970.37

## Wisconsin Department of Natural Resources SWIMS Project Summary

Budget Description: July-December

Start Date: 7/1/2014

End Date: 12/31/2014

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	70	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	40	Hours	\$13.00	\$520.00	
LTE FR	LTE Fringe				\$128.44	
LTE IND	LTE Indirect				\$104.85	
LTE TOT	LTE Total Cost				\$753.29	
SUPPLY	Supplies	7		\$25.00	\$175.00	Shipping
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	320	Miles	\$0.72	\$230.40	
MEAL	Meals	10	Meals	\$10.00	\$100.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$330.40	
BUG	Bug Contracts	6		\$180.00	\$1,080.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
<b>TOTAL</b>	<b>Total Cost (excludes SLOH)</b>				<b>\$2,338.69</b>	

**Total WSLH Lab Costs:** \$0.00

**Total Budget:** \$2,338.69

**Combined Budgets:** \$3,309.06

**Combined WSLH:** \$0.00

**Combined Total:** \$3,309.06

Funding					
Organization	Source	Type	Amount	Start Date	End Date