

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_14_CMP13B

Name: Eau Claire County Reservoir 303d Listing and Watershed Management

Type: Competitive Projects

Subtype: TMDL Monitoring

Status: COMPLETE

Start Date: 7/1/2013

End Date: 12/31/2014

Purpose: Lake Eau Claire (1998) and Lake Altoona (2000) were assessed to determine watershed nutrient and sediment loads, assess in lake water quality and develop a water quality response model (BATHTUB). This project will monitor these lakes to determine if current inlake conditions meet water quality standards. Lake Eau Claire will be installing a whole lake aeration system winter/spring 2013 to control a very large internal nutrient load. This project will include evaluation monitoring to evaluate the effectiveness of the aeration system. Coon Fork Lake Watershed had several BMP installed in 2003-2005 and many acres have had nutrient management plans implemented on dairy and row crop farms.

Objective: Determine if Lake Altoona and Lake Eau Claire should be included in the 303d List.
Determine if water quality goals have been achieved in Coon Fork Lake.

Comments: Continuing. Sites will be added after recon.

Outcome:

1. Project will provide water quality data needed to determine the 303D listing.
2. Evaluate if TP concentrations have been reduced in Coon Fork Lake with the implementation of BMP's on Ag Land in the Coon Fork Lake Watershed.
3. Assess in Lake Water quality conditions resulting from watershed BMP installation.
4. Conduct weekly DO\Temp monitoring at multiple locations May through September in Lake Eau Claire and prepare report.
5. Conduct continuous temperature stratification assessment at 2 sites in Lake Eau Claire and Prepare Report.
6. Conduct surface, mid depth and bottom total and dissolved phosphorus monitoring in Lake Eau Claire.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
LALIBERTE, PAUL J	SUPERVISOR	COMPLETE	7/1/2013	12/31/2014	Wisconsin DNR	
Lepsch, Jodi A	COORDINATOR	COMPLETE	7/1/2012	12/31/2012	Wisconsin DNR	
Sorge, Patrick W	COORDINATOR	ACTIVE	7/1/2013	12/31/2012	Wisconsin DNR	
TROMBLY, NEIL R	TEAM_MEMBER	ACTIVE	7/1/2012	12/31/2014	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
3/16/2012	Patrick Sorge	Proposed	
2/1/2013	Patrick Sorge	Active	
10/3/2013	Patrick Sorge	Progress: 50-75% Complete	Water quality data has been completed as scheduled in 2012 and 2013.
5/14/2014	Jodi Lepsch	Progress: 75-100% Complete	

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12/12/2014	Patrick Sorge	Progress: 75-100% Complete	Data collection is complete. Report will be available in May 2015.
12/19/2016	Jodi Lepsch	Complete	

Project Status Detail

Answer Set: DEFAULT

Question

Answer

- | | |
|--|--------------------------------|
| 1. Number of Sample Sites (Enter the station IDs if you know them). | 5 Sample sites |
| 2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project). | 3 event July 15 - September 15 |
| 3. Proposed Dates for Sample Collection | July, August, September |
| 4. List applicable databases and who will enter data? | SWIMS Jodi Lepsch |
| 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? | Yes |
| 7. Reviewer Notes: Identify questions or issues with project (use during review period) | |
| 8. Reviewer Decision: Is this project recommended for funding? | |

Actions

Action	Detailed Description	Start Date	End Date	Status
Lake Management Plan Implementation	Lake Eau Claire (1998) and Lake Altoona (2000) were assessed to determine watershed nutrient and sediment loads, assess in lake water quality and develop a water quality response model (BATHTUB). This project will monitor these lakes to determine if current inlake conditions meet water quality standards. Lake Eau Claire will be installing a whole lake aeration system winter/spring 2013 to control a very large internal nutrient load. This project will include evaluation monitoring to evaluate the effectiveness of the aeration system. Coon Fork Lake Watershed had several BMP installed in 2003-2005 and many acres have had nutrient management plans implemented on dairy and row crop farms.	7/1/2012	12/31/2014	PROPOSED
Monitor Targeted Area	This project will include evaluation monitoring to evaluate the effectiveness of the aeration system. Coon Fork Lake Watershed had several BMP installed in 2003-2005 and many acres have had nutrient management plans implemented on dairy and row crop farms.	7/1/2013	12/31/2014	COMPLETE

Details: Parameter

Value/Amount

Units

Comments

Total Nitrogen

Total Phosphorus

Total Suspended Solids

Monitor or Propose 303(d) Listing	This project will include evaluation monitoring to evaluate the effectiveness of the aeration system. Coon Fork Lake Watershed had several BMP installed in 2003-2005 and many acres have had nutrient management plans implemented on dairy and row crop farms.	7/1/2013	12/31/2014	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
BMP Implementation			
Degraded Biological Community			
I & E Activities			
Permit Modification			
Report Writeup			
Total Nitrogen			
Total Phosphorus			
Total Suspended Solids			
Watershed Outreach, Planning			

Monitoring Stations

Station ID	Name	Comments
184002	Altoona Lake - Deep Hole	
183081	Coon Fork Lake - Deep Hole	
183075	Eau Claire Lake - Deep Hole	

Assessment Units

WBIC	Segment	Local Name	Official Name
1807700	1	Un Lake	Unnamed
1807800	1	Un Lake	Unnamed
1820700	2	Hoyts Creek	Peeso Creek
1821600	1	Unnamed Trib to Peeso Cr	Unnamed
1822600	1	Session Valley Creek	Session Valley Creek
1823000	2	Lindsay Creek	Lindsay Creek
1823300	2	Big Creek	Big Creek
1823600	1	Adams Creek	Adams Creek
1825900	2	Pine Creek (T25N, R8W)	Pine Creek
1889900	1	Un Lake	Unnamed
1890000	1	Un Lake	Unnamed
1890600	1	Un Lake	Unnamed
1890700	1	Un Lake	Unnamed
1890720	1	Local Water	Unnamed
2050000	3	Chippewa River	Chippewa River
2050000	4	Chippewa R At Eau Claire	Chippewa River
2050000	5	Chippewa River	Chippewa River
2119000	3	Rock Creek	Rock Creek
2119000	4	Rock Creek	Rock Creek

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2120300	2	Coon Creek	Coon Creek
2120700	1	Powell Lake	Powell Lake
2120800	3	Elk Creek	Elk Creek
2120800	4	Elk Creek	Elk Creek
2120800	5	Elk Creek	Elk Creek
2121000	1	Elk Creek Lake	Elk Creek Lake*
2122500	1	West Creek	West Creek
2122800	1	Local Water	Unnamed
2123500	1	Cooley Lake	Cooley Lake
2123600	1	Taylor Creek	Taylor Creek
2123700	1	Gravel Pit Pond	Gravel Pit Pond
2123800	1	Un Lake	Unnamed
2123900	1	Loves Creek	Loves Creek
2123900	2	Loves Creek	Loves Creek
2123900	3	Loves Creek	Loves Creek
2124000	1	Willow Creek	Willow Creek
2124300	1	Pine Creek	Pine Creek
2124400	1	Clear Creek	Clear Creek
2124500	1	Creek 12-12 (T25n, R9w)	Unnamed
2124600	1	Unnamed Trib to Loves Cr	Unnamed
2124700	1	Graham Creek	Graham Creek
2124800	1	Kelly Creek	Kelley Creek
2125100	1	Sherman Creek	Sherman Creek
2125400	1	Half Moon Lake	Halfmoon Lake
2125500	1	Little Niagara Creek	Little Niagara Creek
2125600	1	Eau Claire River	Eau Claire River
2125600	2	Eau Claire River	Eau Claire River
2125600	3	Eau Claire River	Eau Claire River
2125600	4	Eau Claire River	Eau Claire River
2125600	5	Eau Claire River	Eau Claire River
2125700	1	Otter Creek	Otter Creek
2126100	1	Un Lake	Unnamed
2126800	1	Beaver Creek	Beaver Creek
2127500	1	Kluckman Valley Creek	Kluckman Valley Creek
2128100	1	Lake Altoona	Altoona Lake

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2128200	1	Fivemile Creek	Fivemile Creek
2128500	1	Sixmile Creek	Sixmile Creek
2128600	1	Ninemile Creek South	Ninemile Creek -South
2128700	1	Sevenmile Creek	Sevenmile Creek
2128900	1	Ninemile Creek North	Ninemile Creek -North
2128900	2	Ninemile Creek (North)	Ninemile Creek -North
2129300	1	Deinhammer Creek	Deinhammer Creek
2129400	1	Beaver Creek	Beaver Creek
2129400	3	Beaver Creek	Beaver Creek
2129500	1	Creek 16-12 (T27n, R7w)	Unnamed
2129600	1	Pine Creek (T27N, R7W)	Pine Creek
2129650	1	Creek 15-2 (T27n, R7w)	Unnamed
2129900	1	Fall Creek	Fall Creek
2129900	2	Fall Creek	Fall Creek
2130100	1	Fall Creek Pond	Fall Creek Pond
2130200	1	Rush Creek	Rush Creek
2130200	2	Rush Creek	Rush Creek
2130300	1	Bears Grass Creek	Bears Grass Creek
2130300	3	Bears Grass Creek	Bears Grass Creek
2130500	1	Sand Creek	Sand Creek
2130600	1	Bridge Creek	Bridge Creek
2130600	2	Bridge Creek	Bridge Creek
2130600	3	Bridge Creek	Bridge Creek
2130700	1	Browns Creek	Browns Creek
2130800	1	Un Lake	Unnamed
2131000	1	Dells Millpond (Rodell)	Dells Millpond (Rodell)
2131100	1	Thompson Valley Creek	Thompson Valley Creek
2131100	2	Thompson Valley Creek	Thompson Valley Creek
2131300	1	First Trestle Creek	First Trestle Creek
2131300	2	First Trestle Creek	First Trestle Creek
2131400	1	Diamond Valley Creek	Diamond Valley Creek
2131400	2	Diamond Valley Creek	Diamond Valley Creek
2131750	1	Unnamed Impoundment	Unnamed
2131900	1	Hay Creek (T25N R6W)	Hay Creek
2132700	1	Travis Creek	Travis Creek

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2133200	1	Eau Claire Lake	Eau Claire Lake
2133300	2	Hay Creek	Hay Creek
2133300	3	Hay Creek	Hay Creek
2133400	1	Unnamed Creek 27-8 (T27N, R6W)	Cold Creek
2133500	1	Darrow Creek	Darrow Creek
2133700	1	Unnamed Pond (T27n R6w S2-2)	Unnamed
2134200	1	Muskrat Creek	Muskrat Creek
2134200	2	Muskrat Creek	Muskrat Creek
2134200	3	Muskrat Creek	Muskrat Creek
2134400	1	Unnamed Trib to Muskrat Cr	Unnamed
2134400	2	Unnamed Trib to Muskrat Cr	Unnamed
2134800	1	Hathway Creek	Hathway Creek
2134900	1	Whippoorwill Creek	Whippoorwill Creek
2135000	1	Coon Gut Creek	Coon Gut Creek
2135100	1	Coon Fork Creek	Coon Fk Creek
2135200	1	Pea Creek	Pea Creek
2135600	1	Coon Fork Flowage	Coon Fork Flowage
2135700	1	Black Creek	Black Creek
2135800	1	Travis Creek	Unnamed
2135900	1	Schoolhouse Creek	Schoolhouse Creek
2135900	2	Schoolhouse Creek	Schoolhouse Creek
2136000	1	McGaver Creek	McGaver Creek
2136200	1	Fairchild Pond	Fairchild Pond
2136600	1	Unnamed Creek	Unnamed
2136700	1	Local Water	Unnamed
2137000	1	South Fork Eau Claire River	South Fork Eau Claire River
2137100	1	Horse Creek	Horse Creek
2137100	2	Horse Creek	Horse Creek
2145400	1	North Fork Eau Claire	North Fork Eau Claire River
2145400	4	North Fork Eau Claire	North Fork Eau Claire River
2145500	1	Beeman Creek	Beeman Creek
2145600	1	Shambaugh Creek	Shambaugh Creek
2145700	1	Local Water	Unnamed
2145900	1	Loper Creek	Loper Creek
2146000	1	Wolf River	Wolf River

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2146100	1	Swim Creek (Swan)	Swim Creek
2147800	1	Simes Creek	Simes Creek
2149900	1	Dells Pond	Dells Pond
2149900	2	Dells Pond	Dells Pond
2152600	1	Chippewa Falls Flowage	Chippewa Falls Flowage 5555
2153300	1	South Fork Paint Creek	South Fork Paint Creek
2154000	1	Alder Creek	Alder Creek
3000037	1	Local Water	Unnamed
5012705	1	Beaver Creek	Unnamed
5012788	1	Beaver Creek	Unnamed
5012913	1	Local Water	Unnamed
5012952	1	Local Water	Unnamed
5012990	1	Local Water	Unnamed
5013053	1	Local Water	Unnamed
5013091	1	Local Water	Unnamed
5013121	1	Unnamed Creek 29-16	Unnamed
5013271	1	Local Water	Unnamed
5013524	1	Local Water	Unnamed
5013600	1	Local Water	Unnamed
5013650	1	Local Water	Unnamed
5014606	1	Unnamed Trib to Lowes Cr	Unnamed
5015040	1	Local Water	Unnamed
5015165	1	Unnamed Trib to Black Creek	Unnamed
5537331	1	Local Water	Unnamed
5537394	1	Local Water	Unnamed
5537833	1	Local Water	Unnamed
5537860	1	Local Water	Unnamed
5537967	1	Local Water	Unnamed
5537983	1	Local Water	Unnamed
5538176	1	Local Water	Unnamed
5538383	1	Local Water	Unnamed
5538520	1	Local Water	Unnamed
5538808	1	Local Water	Unnamed
5538828	1	Local Water	Unnamed
5538840	1	Local Water	Unnamed

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5538948	1	Local Water	Unnamed
5539002	1	Local Water	Unnamed
5539039	1	Local Water	Unnamed
5539069	1	Local Water	Unnamed
5539336	1	Local Water	Unnamed
5539342	1	Local Water	Unnamed
5539347	1	Local Water	Unnamed
5539381	1	Local Water	Unnamed
5539430	1	Local Water	Unnamed
5539620	1	Local Water	Unnamed
5539787	1	Local Water	Unnamed
5539920	1	Local Water	Unnamed
5540042	1	Local Water	Unnamed
5540147	1	Local Water	Unnamed
5540233	1	Local Water	Unnamed
5540259	1	Local Water	Unnamed
5540262	1	Local Water	Unnamed
5540434	1	Local Water	Unnamed
5541210	1	Local Water	Unnamed
5541323	1	Local Water	Unnamed
5541461	1	Local Water	Unnamed
5541582	1	Local Water	Unnamed
5541892	1	Local Water	Unnamed
5542097	1	Local Water	Unnamed
5542603	1	Local Water	Unnamed
5542688	1	Local Water	Unnamed
5542812	1	Local Water	Unnamed
5584482	1	Local Water	Unnamed
5584490	1	Local Water	Unnamed
5584570	1	Local Water	Unnamed
5590978	1	Local Water	Unnamed
5590996	1	Local Water	Unnamed
5590997	1	Local Water	Unnamed

Lab Account Codes

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Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	5/3/2011	6/30/2014
WT155	LAKES SPECIAL PROJECTS	5/11/2012	6/30/2013

Forms

Form Code	Form Name
SECCHI_TEMPDO_PLUS	Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity

Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
8/9/1979	COMPLETE		184002	Altoona Lake - Deep Hole
4/3/2012 10:00	COMPLETE		183081	Coon Fork Lake - Deep Hole
7/24/2012 8:45	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
7/24/2012 8:45	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
7/24/2012 9:45	COMPLETE	EC1	183075	Eau Claire Lake - Deep Hole
7/24/2012 9:45	COMPLETE	EC1	183075	Eau Claire Lake - Deep Hole
7/24/2012 11:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
7/24/2012 11:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
7/24/2012 11:00	COMPLETE		184002	Altoona Lake - Deep Hole
8/15/2012 12:30	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
8/15/2012 16:00	COMPLETE	LEC1	183075	Eau Claire Lake - Deep Hole
8/15/2012 17:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
8/15/2012 17:00	COMPLETE		184002	Altoona Lake - Deep Hole
8/16/2012 16:00	COMPLETE		183075	Eau Claire Lake - Deep Hole
9/12/2012 9:45	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
9/12/2012 10:30	COMPLETE	LEC1	183075	Eau Claire Lake - Deep Hole
9/12/2012 12:00	COMPLETE	LA1	184002	Altoona Lake - Deep Hole
9/12/2012 12:00	COMPLETE		184002	Altoona Lake - Deep Hole
5/8/2013 0:15	COMPLETE		183075	Eau Claire Lake - Deep Hole
5/8/2013 10:30	COMPLETE		183081	Coon Fork Lake - Deep Hole
5/8/2013 11:30	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
5/8/2013 12:15	COMPLETE	EC1	183075	Eau Claire Lake - Deep Hole
5/8/2013 14:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
5/8/2013 14:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole

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5/8/2013 14:00	COMPLETE		184002	Altoona Lake - Deep Hole
7/9/2013 10:45	COMPLETE	CE1	183081	Coon Fork Lake - Deep Hole
7/9/2013 10:45	COMPLETE		183081	Coon Fork Lake - Deep Hole
7/9/2013 12:30	COMPLETE	LEC1	183075	Eau Claire Lake - Deep Hole
7/9/2013 12:30	COMPLETE	LEC1	183075	Eau Claire Lake - Deep Hole
7/9/2013 12:30	COMPLETE		183075	Eau Claire Lake - Deep Hole
7/9/2013 13:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
7/9/2013 13:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
7/9/2013 13:00	COMPLETE		184002	Altoona Lake - Deep Hole
8/6/2013 10:15	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
8/6/2013 10:15	COMPLETE	CFI	183081	Coon Fork Lake - Deep Hole
8/6/2013 11:30	COMPLETE	LEC1	183075	Eau Claire Lake - Deep Hole
8/6/2013 11:30	COMPLETE	LEC1	183075	Eau Claire Lake - Deep Hole
8/6/2013 12:15	COMPLETE	ALI	184002	Altoona Lake - Deep Hole
8/6/2013 12:15	COMPLETE	ALI	184002	Altoona Lake - Deep Hole
8/6/2013 12:15	COMPLETE	ALI DUP	184002	Altoona Lake - Deep Hole
8/6/2013 12:50	COMPLETE	ALI DUP	184002	Altoona Lake - Deep Hole
9/4/2013 11:00	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
9/4/2013 11:00	COMPLETE	CF1	183081	Coon Fork Lake - Deep Hole
9/4/2013 11:00	COMPLETE		183081	Coon Fork Lake - Deep Hole
9/4/2013 12:00	COMPLETE	EC1	183075	Eau Claire Lake - Deep Hole
9/4/2013 12:00	COMPLETE	EC1	183075	Eau Claire Lake - Deep Hole
9/4/2013 12:00	COMPLETE		183075	Eau Claire Lake - Deep Hole
9/4/2013 13:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
9/4/2013 13:00	COMPLETE	AL1	184002	Altoona Lake - Deep Hole
9/4/2013 13:00	COMPLETE		184002	Altoona Lake - Deep Hole

Documents

Title	Description	Author	Published	Comments
Eau Claire County Reservoir Tier II Monitoring 303d Listing and Watershed Management Implementation Project Proposal		Sorge, Patrick	4/26/2013	

Budget

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Budget Description: St. Croix Gage Project **Start Date:** 7/1/2013 **End Date:** 12/31/2013

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	220	Hours	\$16.00	\$3,520.00	
LTE FR	LTE Fringe				\$869.44	
LTE IND	LTE Indirect				\$709.77	
LTE TOT	LTE Total Cost				\$5,099.21	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	520	Miles	\$0.72	\$374.40	
MEAL	Meals	8	Meals	\$9.00	\$72.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$446.40	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$5,545.61	Add 6 Total Iron Samples to SLOH Budget

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	9	\$24.52	\$220.68
I290ALT	COLOR, TRUE, PT-CO (SM 2120B)	INORGANIC CHEMISTRY	1	\$25.00	\$25.00
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	14	\$23.60	\$330.40
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	14	\$6.36	\$89.04

Total WSLH Lab Costs: \$665.12
Total Budget: \$6,210.73

Combined Budgets: \$5,545.61
Combined WSLH: \$665.12
Combined Total: \$6,210.73

Funding					
Organization	Source	Type	Amount	Start Date	End Date