General Project Information

Project ID: Name: Type: Subtype: Status: Start Date: End Date: Purpose:	NOR_13_CMP15 Additional Assessment and Planning for St. Croix Headwaters Lakes Proposed for 2014 Impaired Waters List - NOR_13 Competitive Projects Impaired Water Assessment PROPOSED 12/01/2013 12/31/2015 This project will CONTINUE to build on substantial monitoring and planning efforts in the St. Croix Headwaters Watershed in Douglas and Bayfield Counties. Regional and research staff will work together and with local partners to further understand and assess the following lakes that exceed or may exceed TP thresholds: Upper, Middle, and Lower Eau Claire, George, and Pickerel. The results will be shared with the local community and watershed stakeholders for integration into action and implementation plans.
Objective:	2015 UPDATE: this project does not seek new or additional funds but rather carries over unspent balances from the previously-funded project. The project will confirm whether the five lakes should be listed as impaired waters in 2014 and beyond. Specifically, we plan to collect paleolimnological information that will help us understand if the lakes are anthropogenically impaired and do a historical data review, including assessing hypolimnetic oxygen changes over the data record (estimated 30 years).
	2015 UPDATE: The project will continue water quality assessment work on lakes that "may exceed" impairment thresholds and complete delisting proposals for those lakes that should no longer be listed. Top/bottom paleo cores were collected at the deep hole on the five following lakes: ~ Upper Eau Claire (2742700) 2015 UPDATE: this is a "may exceeds" lake for 2-story fishery TP and needs additional assessment work. ~ Middle Eau Claire (2742100) 2015 UPDATE: not impaired. Write justification to for removal from impaired water list. ~ Lower Eau Claire (2741600) 2015 UPDATE: not impaired. Write justification to for removal from impaired water list. ~ Lower Eau Claire (2741600) 2015 UPDATE: not impaired. Write justification to for removal from impaired water list. ~ Pickerel (2489200) 2015 UPDATE: not impaired. Write justification to NOT add to impaired list should it be suggested. ~ George (2465700) 2015 UPDATE: this is a "may exceeds" lake for 2-story fishery TP and needs additional assessment work.
Comments: Outcome:	The project also includes some outreach, planning, and capacity building in anticipation of management remedies that are focused on land use, with an emphasis on the riparian ring, since the watershed is heavily forested. 2015 UPDATE: the majority of the outreach and planning work will be completed via a 319 project. This project is proposed for continuation (formerly project ID NOR_13_CMP14). This project continues ongoing watershed monitoring, assessment, and planning work that was previously WDNR lake protection grant- and federally-funded. The project outcome is a better understanding of natural (i.e. pre-European settlement) conditions that can be shared with the local community and integrated into ongoing planning and implementation efforts.
Study Design:	Project deliverables include: paleolimnological study reports, historical data assessment report, and planning/outreach summary. Research Scientist Paul Garrison collected a sediment core were taken from near the deep area of each of the five lakes using a gravity corer. Samples from the top of the core (0-1 cm) and a section (45-47 cm) deeper in the core will be kept for analysis. It is assumed that the upper sample represents present conditions while the deeper sample is indicative of water quality conditions at least 100 years ago. An LTE will analyze the cores for diatoms, and SLOH will analyze for Pb210. Garrison will complete reports for individual lakes and share the results at broader watershed- and community-based meetings.

QA Measures:

Wisconsin Department of Natural Resources SWIMS Project Summary

People								•	
Name		Role		Start Date		Organization		Comments	
Garrison, Paul J		INVESTIGATOR		12/01/201		Wisconsin D			
HAGEN, CHERIE L		SUPERVISOR	-		3 12/31/2015				
OLSON, FLORENCE A		OTHER	-	12/01/201		Wisconsin D			
PEACHER, RACHEL D		OTHER	ACTIVE	06/01/201	4 12/31/2015	Wisconsin D		LTE technical assistance	
Foshner, Parr	nela J	PROJECT_LEAD	ACTIVE	12/01/201	4 12/01/2016	Wisconsin D	NR		
Project Sta	tuses								
Date	Reported E	,	atus	c	Comments				
01/07/2014	Pamela To	shner	Proposed						
06/11/2014	Pamela To	shner	Progress: 0-2	25% Cor					
)1/29/2015	RUTH PER	SON	Proposed		Proposed for continuation.				
01/29/2015 Pamela Toshner Progress: 50-7				Paleo core work is completed and final reports will be available spring 2015. I am requesting continuation through the 2015 calendar year to complete additional water quality assessment work on lakes (i.e. Upper Eau Claire and George) that may excee impairment thresholds and to complete de-listing (Lower and Middle Eau Claire) and don't-list (Pickerel) reports for those that are not impaired.					
Project Sta	tus Detail								
Answer Set:	DEFAULT								
Question				Answe	er				
them).	-	s (Enter the station	-		2				
field you anti	cipate for this		any trips into th						
3. Proposed Dates for Sample Collection					We haven't got this far yet.				
		es and who will ent		SWIMS	6				
5. Did you receive competitive projects funding in the previous year?									
data entry an 7. Reviewer (use during i	d reports as n Notes: Identify review period)	you complete the pro- necessary? If not, w y questions or issu nis project recomme	vhy not? es with project	g Yes					
Actions									
Action			Detailed Descr	iption		Start	End Date	Status	
Monitor or Propose 303(d) Listing Paleolimnological c File review/data ass				l cores	nt	*****	12/01/2016	COMPLETE	
Watershed Planning Communicate result for integration into a				sults to loc	cal community	*****	12/01/2016	IN_PROGRESS	

Monitor or Propose 303(d) Listing

Monitoring Stations

for integration into existing planning and

Assess data and complete reports justifying removal or addition to impaired

******* 12/31/2015

IN_PROGRESS

implementation efforts

waters list.

Wisconsin Department of Natural Resources SWIMS Project Summary

Station ID	Name	Name Comments						
Assessment	Units							
WBIC	Segment Local Name				Official N			
Lab Accoun	t Codes							
Account Code	Description				Sta	art Date	End Date	
Forms								
Form Code	Form Name							
Methods								
Method Code		Description						
Fieldwork E	vents							
Start Date	Status	Field ID		Station ID	Station Name			
Documents								
Title	Descr	ription		Author	Pu	blished	Comments	
Budget								
Budget Descr	iption: Additional Ass Headwaters L List			r St. Croix mparied Waters	Start Date: 07/	01/2015 I	End Date: 12/31/20	15
Code	Description		Quantity	Units	Unit Cost	Total Cost	t Comments	
FTE	FTE Hours		80	Hours	\$0.00	\$0.00	0	
LTE SAL	LTE Salary		120	Hours	\$13.00	\$1,560.00	Data review, field assistance, and outreach/planning	1
LTE FR	LTE Fringe					\$385.32		
LTE IND	LTE Indirect					\$314.56	6	
LTE TOT	LTE Total Cost					\$2,259.88	3	
EQUIP	Equipment		1		\$1,000.00		Rugged field table	
MILEAGE	Mileage		500	Miles	\$0.72	\$360.00	0 5 trips to watershe miles/trip)	ed (100
MEAL	Meals		5	Meals	\$9.00	\$45.00		
LODGE	Lodging					\$0.00)	
TRAVEL	Travel Total					\$405.00	C	
BUG	Bug Contracts					\$0.00	0	
OTHER	Other Contracts				\$750.00	\$0.00	Potential SLOH - c the portal to work	couldn't get
USGS	USGS Costs					\$0.00		
TOTAL	Total Cost (exclue	des SLOH)				\$3,664.88	3	
Test Code	Description			Test Group	# F	Planned	Unit Cost	Total Cost

Total SLOH Lab Costs: \$0.00

Wisconsin Department of Natural Resources SWIMS Project Summary

Combined Budgets: Combined SLOH:	\$3,664.88 \$0.00				
Funding					
Organization		Source	Туре	Amount Start Date	End Date