General Project Information

Project ID: West_21_CMP18

Name: 2018 Local Needs Provost Amherst Millpond

Type: Competitive Projects

Subtype: Evaluation Monitoring

Status: PROPOSED

Start Date: 2/2/2018

End Date: 2/2/2022

Purpose: Amherst Millpond

The Amherst Millpond (WBIC 268200) is an impoundment on the Tomorrow River (WBIC 270400; Class I trout stream) in the Village of Amherst, Portage County. There is a public boat landing, undeveloped parcels, and a county park on the east shoreline. Homes dominate the west shoreline. Reconstruction of the dam in 2016 required a drawdown. Repairs were completed in 2017. Prior to dam reconstruction, the Amherst Millpond was a 38 acre pond with a maximum depth of 7 feet. The substrate was 20% sand and 80% muck. During the drawdown, the muck was compacted and emergent vegetation took hold in most areas of the lakebed. Once the new dam was completed and the impoundment was allowed to fill back up, the emergent vegetation remained thus channelizing the river towards the east. The substrate in this new channel is now mostly gravel. Aerial photographical evidence clearly show channelization and significant emergent vegetation growth. There is substantial interest in the Amherst Millpond and its recent transformation by the local Trout Unlimited chapter, area residents, UW-Stevens Point researchers, and DNR water quality and fisheries staff. Many partnerships have developed between interested parties during several discussions and site visits to the Millpond. Through this project, we hope to continue to foster these partnerships and encourage citizen based monitoring efforts. Several area citizens and TU members have already expressed interest in such monitoring.

Objective:

This proposed Local Needs project will allow us to monitor the recent changes on the Amherst Millpond. This project will have several components.

- 1.) The first being water quality monitoring upstream and downstream of the impoundment by citizen volunteers. This water quality data (i.e. CBM protocol) will allow us to understand how the pond is impacting the area aquatic communities, build public awareness, and enhance partnerships that will eventually work with County LWCD staff to address land use.
- 2.) We would also like to work more with a particular area resident who owns an unmanned aerial vehicle (i.e. drone) with imaging capabilities. He worked with us last fall to take photos of Amherst Millpond. We would like photos of the impoundment during the peak growing season and he has agreed to take them.
- 3.) In addition to this Local Needs project, we are also proposing a Directed Lakes project. The data acquired from both projects will help us build a comprehensive analysis of the Amherst Millpond and its recent transformation. For example, the data from the PI survey data in the Direct Lakes project will help us understand the pond's substrate. In this proposed Local Needs project, we would like to be able to map the substrate in order to demonstrate how the drawdown impacted lakebed constituents.
- 4.) The local DNR fisheries supervisor understands the significance of the Amherst Millpond transformation and has plans to conduct their own electrofishing survey. In addition, fisheries staff will be deploying temperature probes above and below the pond and in the middle of the pond. The data obtained from these DNR fisheries staff will be analyzed by water quality staff to help further our understanding of this transformation.
- 5.) This project will help to further cultivate local partnerships with locals and all other interested parties.
- 6.) Data obtained from the Direct Lakes project, this Local Needs project, and fisheries surveys will be used to write a final comprehensive report.

Comments:

Outcome:

The data from this proposed Local Needs project will be used in conjunction with the data from the related Directed Lakes project and will allow us to develop a comprehensive analysis of the recent Amherst Millpond transformation and ultimately enhance community awareness and participation in the watershed.

This project will allow us to determine the effects of the drawdown on habitat, stream hydraulics and whether or not the aforementioned has created a channelize flow o stream water cool enough for cool to cold water fish species to survive year round or only during certain months. If this water is able to support trout, we can reclassify this stream to increase environmental protection and potentially receive more trout restoration money. It will also allow the Department to learn more about water level manipulation effects beyond typical habitat responses. A report will be finalized and uploaded to SWIMS at the completion of this project.

Study Design: Surveys and sampling will be conducted according to WisCALM and other pertinent DNR monitoring protocols.

QA Measures:

People								
Name	Role	Status	Start Date	End Date	Organization	Comments		
BRILLOWSKI, CAITLIN M	COORDINATOR	ACTIVE	2/2/2018	2/2/2022	Wisconsin DNR			
HAZUGA, MARK J	COORDINATOR	ACTIVE	2/2/2018	2/2/2022	Wisconsin DNR			
Provost, Scott M	COORDINATOR	ACTIVE	2/2/2018	2/2/2022	Wisconsin DNR			

Project Statuses

Date	Reported By	Status	Comments
2/2/2018	CAITLIN BRILLOWSKI	Proposed	

Project Status Detail

Answer Set: DEFAULT

Question Answer

- 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?

Actions							
Action	Detailed Description	Start Date	End Date	Status			
Monitor Water Quality or Sediment	The data from this proposed Local Needs project will be used in conjunction with the data from the related Directed Lakes project and will allow us to develop a comprehensive analysis of the recent Amherst Millpond transformation and ultimately enhance community awareness and participation in the watershed.	2/2/2018	2/2/2022	PROPOSED			
Train Volunteers		2/2/2018	2/2/2022	PROPOSED			

illustrative supplement -

DRAFT

Budget

supplement - DRAFT

Wisconsin Department of Natural Resources SWIMS Project Summary

							2/2	/2018	2/2/2022	PROPOSE)
Monitoring Sta	tions										
Station ID	Nar	Name				C	Comments				
10040059	Aml	herst Millp	ond - Center								
10044193	Dov	vnstream (of Amherst Dam								
10051319	Ups	tream 201	8 Local Needs Pr	oject Amherst	Millpond						
Assessment U	nits										
WBIC	Segm	ent L	ocal Name				Offic	ial Name			
257400	4	Т	omorrow/Waupa	ica River			Waup	oaca River			
268200	1	А	mherst Millpond				Amhe	erst Millpoi	nd		
Lab Account C	odes										
Account Code	D	escriptio	n				Start Date End Date				
Forms											
Form Code		Form N	ame								
Methods											
Method Code		Method	d Description								
Fieldwork Ever	nts										
Start Date	Status		Field ID	Stat	ion ID	Statio	station Name				
7/24/2018 10:30	COMPLET	Έ	AMH-1	1004	40059	Amhe	mherst Millpond - Center				
7/24/2018 11:02	COMPLET	Έ	AMH-2	1008	51319	Upstream 2018 Local Needs Project Amherst Millpond				lillpond	
7/24/2018 11:13	COMPLET	PLETE AMH-3 10044193 Do			Dowr	ownstream of Amherst Dam					
Documents											
Title Description			Author			Published	Comme	ents			
AMherstLocal needs AMherst			al needs illustrative Scott Provost		vost						

Budget Desc	ription: FY18 Feb 2018-June 30,	2018	Start Dat	e: 2/2/2018	End Date: 6/30/2018
Code	Description	Quantity Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	10 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			\$0.00	
EQUIP	Equipment			\$0.00	
MILEAGE	Mileage	60 Miles	\$0.72	\$43.20	
MEAL	Meals	2 Meals	\$9.00	\$18.00	
LODGE	Lodging			\$0.00	
TRAVEL	Travel Total			\$61.20	
BUG	Bug Contracts			\$0.00	
OTHER	Other Contracts			\$0.00	
USGS	USGS Costs			\$0.00	
TOTAL	Total Cost (excludes SLOH)			\$437.85	

Total WSLH Lab Costs: \$0.00 **Total Budget:** \$437.85

Budget Desc	ription: FY19 July 1, 2018-June 3	0, 2019	Start Date	7/1/2018	End Date: 6/30/2019
Code	Description	Quantity Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	30 Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	60 Hours	\$13.00	\$780.00	Neede hours for sampling and data management
LTE FR	LTE Fringe			\$192.66	
LTE IND	LTE Indirect			\$157.28	
LTE TOT	LTE Total Cost			\$1,129.94	
SUPPLY	Supplies			\$0.00	
EQUIP	Equipment			\$0.00	
MILEAGE	Mileage	180 Miles	\$0.72	\$129.60	
MEAL	Meals	6 Meals	\$9.00	\$54.00	
LODGE	Lodging			\$0.00	
TRAVEL	Travel Total			\$183.60	
BUG	Bug Contracts			\$0.00	
OTHER	Other Contracts			\$0.00	
USGS	USGS Costs			\$0.00	
TOTAL	Total Cost (excludes SLOH)			\$1,313.54	

Total WSLH Lab Costs: \$0.00 **Total Budget:** \$1,313.54

Combined Budgets:\$1,751.39Combined WSLH:\$0.00Combined Total:\$1,751.39

Funding					
Organization	Source	Туре	Amount	Start Date	End Date