

Wisconsin Department of Natural Resources SWIMS Project Summary

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: 02/02/2018
End Date: 02/02/2022
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 of 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

Wisconsin Department of Natural Resources SWIMS Project Summary

Name	Role	Status	Start Date	End Date	Organization	Comments
BRILLOWSKI, CAITLIN M	COORDINATOR	ACTIVE	02/02/2018	02/02/2022	Wisconsin DNR	
HAZUGA, MARK J	COORDINATOR	ACTIVE	02/02/2018	02/02/2022	Wisconsin DNR	
Provost, Scott M	COORDINATOR	ACTIVE	02/02/2018	02/02/2022		

Project Statuses

Date	Reported By	Status	Comments
02/02/2018	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	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.	02/02/2018	02/02/2022	PROPOSED
Train Volunteers		02/02/2018	02/02/2022	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10040059	Amherst Millpond - Center	
10044193	Downstream of Amherst Dam	
10051319	Upstream 2018 Local Needs Project Amherst Millpond	

Assessment Units

WBIC	Segment	Local Name	Official Name
257400	4	Tomorrow/Waupaca River	Waupaca River
268200	1	Amherst Millpond	Amherst Millpond

Lab Account Codes

Wisconsin Department of Natural Resources SWIMS Project Summary

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
07/24/2018 10:30	COMPLETE	AMH-1	10040059	Amherst Millpond - Center
07/24/2018 11:02	COMPLETE	AMH-2	10051319	Upstream 2018 Local Needs Project Amherst Millpond
07/24/2018 11:13	COMPLETE	AMH-3	10044193	Downstream of Amherst Dam

Documents

Title	Description	Author	Published	Comments
AMherstLocal needs illustrative supplement - DRAFT	AMherstLocal needs illustrative supplement - DRAFT	Scott Provost		

Budget

Budget Description: FY18 Feb 2018-June 30, 2018	Start Date: 02/02/2018	End Date: 06/30/2018
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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	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
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Total SLOH Lab Costs: \$0.00

Total Budget: \$437.85

Budget Description: FY19 July 1, 2018-June 30, 2019	Start Date: 07/01/2018	End Date: 06/30/2019
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	30	Hours	\$0.00	\$0.00	

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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
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	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
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Total SLOH Lab Costs: \$0.00
Total Budget: \$1,313.54

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

Funding

Organization	Source	Type	Amount	Start Date	End Date
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