

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: NOR_05_CMP08
Name: Chetac Lake: Impacts from Heron Creek - NOR_05_08
Type: Targeted Monitoring
Subtype: Special Project
Status: COMPLETE
Start Date: 07/01/2007
End Date: 06/30/2008
Purpose: Chetac Lake will be monitored in the summer of 2007 to develop a nutrient budget through a lake management planning grant. Two related issues that are not covered by the grant are a concern and in need of additional attention. First, Heron Creek is a tributary of the lake that is known to have relatively high phosphorus concentrations and has recently been altered by the removal of a beaver dam that previously impounded a large wetland area. Since beaver dam removal, duckweed accumulates at the stream mouth and produces noxious odors upon decomposition. Heron Creek will be sampled 8 times for total phosphorus and the duckweed dynamics of the stream will be visually examined. Second, curly-leaf pondweed is significant in the lake and may contribute to internal phosphorus cycling. An estimate of curly-leaf pondweed biomass and phosphorus content is needed. Samples will be collected, dried, and weighed to determine dry weight/ m2. Two composited, dried samples will be tested for phosphorus content. Monitoring will be done by Craig Roesler with LTE assistance, and assistance from the Chetac Lake Association. Monitoring will take place during the summer of 2007.
Objective: Heron Creek negatively impacts Chetac Lake with duckweed and phosphorus. The creek behavior needs to be better understood to determine management options. Curly-leaf pondweed contributes to internal phosphorus cycling in Chetac Lake. The magnitude of this impact needs to be estimated to assess management options.
Comments: Needs methods.
Outcome: Can duckweed and phosphorus delivery by Heron Creek be controlled or managed? Is phosphorus cycling by curly-leaf pondweed significant and can it be managed?
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Roesler, Craig P	COORDINATOR	COMPLETE	07/12/2007	01/15/2020	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
01/31/2011	Craig Roesler	Complete	This project was supporting an ongoing Lake Planning Grant Study for Chetac Lake, and was modified to better mesh with that study. Only 1 Heron Creek sample was collected. Additional Heron Ck. samples were collected by the grant study consultant. Curly leaf pondweed biomass was measured and the result was incorporated into the grant study report. A literature review of phosphorus cycling by curly leaf pondweed was also done and a final report prepared. Not sure if there is an appropriate place to enter that report since it is not specific to a waterbody.
02/01/2011	Craig Roesler	Complete	Report uploaded into SWIMS

Actions

Action	Detailed Description	Start	End Date	Status
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Monitoring Stations

Station ID	Name	Comments
10022582	Chetac Lake Curly Leaf Pondweed Sample Site 10	

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Station ID	Name	Comments
10022580	Chetac Lake Curly Leaf Pondweed Sample Site 4	
10022581	Chetac Lake Curly Leaf Pondweed Sample Site 9	
583141	Heron Creek - Squaw Creek	

Assessment Units

WBIC	Segment	Local Name	Official Name
2113300	1	Lake Chetac	Lake Chetac
2115000	1	Squaw Creek	Heron Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
WT089	SPECIAL PROJECTS	07/01/2007	06/30/2008

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
09/06/2007 14:30	COMPLETE	HE-1	583141	Heron Creek - Squaw Creek

Documents

Title	Description	Author	Published	Comments
A Review of Curly Leaf Pondweed as a Lake Phosphorus Source		Craig Roesler	03/01/2009	
CHETAC LAKE	SPECIAL PROJECT MONITORING PROPOSAL	Roesler, Craig	07/01/2007	

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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