

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL166118

Name: LONG LAKE PROT & REHAB DIST: Long Lake Alum Monitoring

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 2/15/2018

End Date: 12/31/2020

Purpose: The Long Lake P&R District is sponsoring an alum treatment monitoring project for Long Lake.

The final deliverables include all data collected and a final report.

Specific project tasks include: 1) In-Lake water quality monitoring; 2) Collection of sediment cores; 3) Lab analyses of sediments to determine phosphorus release and alum-phosphorus binding effectiveness.

Special Conditions: Water quality monitoring data shall be entered into SWIMS.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. Data, records, and reports, including GIS-based maps, and digital images, must be submitted to the Department in a format specified by the regional Lake Coordinator.

Objective:

Comments: Grantee is LONG LAKE PROT & REHAB DIST

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
------	------	--------	------------	----------	--------------	----------

Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

Actions

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	<p>The Long Lake P&R District is sponsoring an alum treatment monitoring project for Long Lake.</p> <p>The final deliverables include all data collected and a final report.</p> <p>Specific project tasks include: 1) In-Lake water quality monitoring; 2) Collection of sediment cores; 3) Lab analyses of sediments to determine phosphorus release and alum-phosphorus binding effectiveness.</p>	2/15/2018	12/31/2020	COMPLETE

Wisconsin Department of Natural Resources SWIMS Project Summary

Monitoring Stations

Station ID	Name	Comments
------------	------	----------

Assessment Units

WBIC	Segment	Local Name	Official Name
2478200	1	Long Lake T34n R17w S06	Long Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

Forms

Form Code	Form Name
-----------	-----------

Methods

Method Code	Method Description
-------------	--------------------

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
------------	--------	----------	------------	--------------

Documents

Title	Description	Author	Published	Comments
Long Lake Water Chemistry Data [excel]	CHLOROPHYLL A, FLUORESCENCE (WELSCHMAYER 1994) (99717), PHOSPHATE ORTHO AS PO4 (660), and PHOSPHORUS TOTAL (665) data		1/1/2019	
Long Lake, Wisconsin - Limnological response to alum treatment: 2019 interim report	Shallow Long Lake (273 ac surface area) has exhibited excessive summer cyanobacterial blooms and poor water quality (WQ) conditions (high phosphorus and chlorophyll concentrations and low water clarity) linked to internal phosphorus (P) recycling from sediments (James & Clemens 2017). A total aluminum sulfate (alum) dosage of ~ 105 g/m ² split into lower concentrations and spread out over 2-3-year intervals was recommended to control internal P loading. The first alum dosage of 60 g/m ² was applied to sediments located within the 15-ft depth contour of the lake on 11-13 June 2018.	Harmony Environmental	2/3/2020	

Budget

8/28/2024

Wisconsin Department of Natural Resources SWIMS Project Summary

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding					
Organization	Source	Type	Amount	Start Date	End Date