

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ACEI-134-13

**Name:** LONG LAKE PROT & REHAB DIST: Long Lake Curly Leaf Pond Weed Control - 2 Year Project

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Control

**Status:** COMPLETE

**Start Date:** 4/1/2013

**End Date:** 12/31/2016

**Purpose:** Long Lake P&R District is sponsoring a 2-yr project to implement approved activities from the Long Lake Aquatic Plant Management Plan.

Project deliverables include GIS data & maps of areas monitored, aquatic plant & turion monitoring results, examples of AIS education & outreach, AIS monitoring & watercraft inspection data in SWIMS, management/treatment summaries.

Specific project activities include: 1) Curly-leaf pondweed chemical & manual control; 2) Pre-post treatment aquatic plant monitoring; 3) Turion monitoring; 4) Planting native aquatic plants; 5) Watercraft inspections; 6) AIS education & monitoring.

Special Conditions: 1) WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for aquatic plant monitoring; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) AIS monitoring and watercraft inspection personnel shall be trained and follow DNR approved protocols.

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 Lakes Biologist.

**Objective:**

**Comments:** Grantee is LONG LAKE PROT & REHAB DIST

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Long Lake P & R District,	GRANT_RECIPIENT	ACTIVE	6/13/2013		Long Lake P & R District	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start Date	End Date	Status
APM Chemical Permit Request		4/1/2013	6/30/2015	PROPOSED

Details: Parameter	Value/Amount	Units	Comments
24D Granular, # Acres			
24D Granular, # Pounds			
24D Liquid, # Acres			

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
24D Liquid, # Pounds			
Acres Treated - 1997 to 2003			
Amount of Chemicals used - 1997 to 2003			
Aqua-Pro Acres			
Aqua-Pro Gallons			
Aquacide, # Pounds			
Aquaneat Acres			
Aquaneat Gallons			
Aquashade Acres			
Aquashade Pounds			
Aquastar Acres			
Aquastar Gallons			
Aquathol Acres			
Aquathol Gallons			
Aquathol K Acres			
Aquathol K Gallons			
Aquathol, # Pounds			
Avast Acres			
Avast Gallons			
Chemicals Used - 1997 to 2003			
Clearcast Acres			
Clearcast Gallons			
Clearigate Acres			
Clearigate Gallons			
Comments			
Contains Herbicide totals			
Copper Acres			
Copper Liquid, # Acres			
Copper Liquid, # Gallons			
Copper Pounds			
Citrine Acres			
Citrine Liquid Acres			
Citrine Liquid Gallons			
Citrine Plus Acres			
Citrine Plus Liquid Acres			
Citrine Plus Liquid Gallons			
Citrine Plus Pounds			
Citrine Pounds			
Citrine Ultra Acres			
Citrine Ultra Gallons			

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Details: Parameter	Value/Amount	Units	Comments
DMA 4 IVM Acres			
DMA 4 IVM Gallons			
Did Treatments Occur			
Diquat Acres			
Diquat Gallons			
Diquat Liquid Acres			
Diquat Pounds			
Endotholl Acres			
Endotholl Liquid Acres			
Endotholl Liquid Gallons			
Endotholl Pounds			
Fee			
Floridone Acres			
Floridone Gallons			
Glyphosate Acres			
Glyphosate Gallons			
Glyphosate Liquid Acres			
Glyphosate Pounds			
Green Clean Acres			
Green Clean Gallons			
H2O2 Acres			
H2O2 Pounds			
Habitat Acres			
Habitat Gallons			
Harvester Acres			
Harvester Gallons			
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?			
Hydrothol Acres			
Hydrothol Gallons			
Imazapyr Acres			
Imazapyr Gallons			
Nautique Acres			
Nautique Gallons			
Navigate Acres			
Navigate, # Pounds			
Onsite Supervision Present?			
Permit #			
Phycomycin Acres			
Phycomycin Pounds			
Polaris Acres			

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Details: Parameter	Value/Amount	Units	Comments		
Polaris Gallons					
Refuge Acres					
Refuge Gallons					
Reward Acres					
Reward Gallons					
Reward Liquid Acres					
Reward Pounds					
Rodeo Acres					
Rodeo Gallons					
SCI-62 Acres					
SCI-62 Gallons					
Sculpin G Acres					
Sculpin G Pounds					
SeClear Acres					
SeClear Gallons					
ShoreKlear Acres					
ShoreKlear Gallons					
Sonar AS Gallons					
Sonor AS Acres					
Touchdown Pro Acres					
Touchdown Pro Gallons					
Treatment Date					
Treatment Date Series					
Tribune Acres					
Tribune Gallons					
Vectobac Acres					
Vectobac Gallons					
Grant Awarded			4/1/2013	6/30/2015	COMPLETE
Aquatic Plant Monitoring or Survey			4/1/2013	6/30/2015	PROPOSED
Information and Education			4/1/2013	6/30/2015	PROPOSED
Project Deliverable	management and treatment summaries		4/1/2013	6/30/2015	PROPOSED
Monitor Pre and Post Treatment			4/1/2013	6/30/2015	PROPOSED
APM Mechanical Permit Request			4/1/2013	6/30/2015	PROPOSED
Details: Parameter	Value/Amount	Units	Comments		
Total Acres harvested					
Total pounds of plants harvested					
Watercraft Inspections Clean Boats, Clean Waters			4/1/2013	6/30/2015	PROPOSED
Map Invasive Species	GIS maps and data of monitored areas		4/1/2013	6/30/2015	PROPOSED

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Project Deliverable	Aquatic plant and turion monitoring results	4/1/2013	6/30/2015	PROPOSED
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### Monitoring Stations

Station ID	Name	Comments
10004779	Long Lake - T34 R17W S6	

### 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
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### Forms

Form Code	Form Name
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### Methods

Method Code	Method Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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### Documents

Title	Description	Author	Published	Comments
Curly-leaf pondweed (Potamogeton crispus) Point-Intercept and Bed Mapping Surveys, and Warm-water Macrophyte Point-intercept Survey - Long Lake	Long Lake (WBIC 2478200) is a 272 acre eutrophic seepage lake located in central Polk County, WI. In 2010, the Long Lake Protection and Rehabilitation District, under the direction of Harmony Environmental, developed an Aquatic Plant Management Plan that authorized chemical treatment of the lakes Curly-leaf pondweed (Potamogeton crispus) infestation. As a prerequisite to updating this plan in 2017 and to compare how the lakes vegetation had changed since the last point-intercept surveys in 2012, the LLPRD and the Wisconsin Department of Natural Resources authorized CLP density and bed mapping surveys on June 11th, and a full point-intercept survey for all aquatic macrophytes from July 23-24, 2016.	Endangered Resource Services, LLC	7/24/2016	

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Curly-leaf pondweed (Potamogeton crispus) Pre/Post Herbicide, Bed Mapping, and Turion Surveys	Initial expectations were to treat six beds totaling 49.88 (Table 1). Following the pretreatment survey, it was decided to trim all beds inward and completely eliminate treatment in Bed 7 as these areas had little or no CLP present. This reduction of 23.28 acres represented a nearly 53% decline from initial expectations. Treatment occurred on May 28th, 2013 with Northern Aquatics (Dresser, WI) applying Aquathol K (Endothall) at a rate of 2.0-2.5 ppm (252.4 total gallons). The reported water temperatures at the time of treatment were 58.0°F which was within the recommended treatment temperature range of 50 - 60°F. Wind speeds were reported to be 0-4mph.	Endangered Resource Services, LLC	11/15/2013	
Draft: Long Lake, Polk County Endothall Concentration Monitoring Summary, 2013	On 28 May 2013, a number of areas totaling 26.6 acres were treated with a liquid formulation of endothall (Aquathol K) to control curly-leaf pondweed (Potamogeton crispus). The endothall was applied at a target concentration of 2000 ug/L (2.0 mg/L) active ingredient (ai) to treatment area 1, and 2500 ug/L ai (2.5 mg/L ai) to the remaining treatment areas. Endothall application rates are specified as active ingredient (ai) in the product label, while endothall chemical analysis is specified as acid equivalent (ae). A concentration of 2000 ug/L ai is equal to 1420 ug/L ae and 2500 ug/L ai is equal to 1774 ug/L ae	John Skogerboe	1/4/2014	
Long Lake 2013 Endothall Concentration Monitoring Summary	Summary of 2013 endothall concentration monitoring on Long Lake, Polk County	Tyler Mesalk	10/18/2023	

### Budget

**Combined Budgets:**
**Combined WSLH:**
**Combined Total:** \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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