

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ACEI-104-12

**Name:** BONE LAKE MANAGEMENT DISTRICT: Bone Lake AIS Curlyleaf Pondweed Control Project

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Control

**Status:** COMPLETE

**Start Date:** 10/1/2011

**End Date:** 12/31/2014

**Purpose:** The Bone Lake Management District is sponsoring a project to implement approved activities from the Bone Lake Aquatic Plant Management Plan. Approved activities include chemically treating curlyleaf pondweed in a limited number of high-density areas, pre/post treatment aquatic plant surveys, and turion monitoring. Deliverables include GIS maps of areas monitored; aquatic plant and turion survey results (spreadsheets and narrative summary); and a management/treatment summary.

Special Condition: WDNR\2019s pre/post treatment monitoring guideline should be followed.

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 BONE LAKE MANAGEMENT DISTRICT

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Bone Lake Management District,	GRANT_RECIPIENT	ACTIVE	10/1/2011		Bone Lake Management District	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start Date	End Date	Status
Project Deliverable	Deliverables include GIS maps of areas monitored; aquatic plant and turion survey results (spreadsheets and narrative summary); and a management/treatment summary.	10/1/2011	12/31/2014	PROPOSED
APM Chemical Permit Request		10/1/2011	12/31/2014	PROPOSED

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

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Details: Parameter	Value/Amount	Units	Comments
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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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
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			
Sonar AS Acres			
Touchdown Pro Acres			
Touchdown Pro Gallons			
Treatment Date			
Treatment Date Series			
Tribune Acres			
Tribune Gallons			
Vectobac Acres			
Vectobac Gallons			

Grant Awarded		10/1/2011	12/31/2013	COMPLETE
Aquatic Plant Monitoring or Survey		10/1/2011	12/31/2014	PROPOSED
Monitor Pre and Post Treatment		10/1/2011	12/31/2014	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
2626800	1	Fox Creek	Fox Creek
2628200	1	Prokor Creek	Prokor Creek

### Lab Account Codes

Account Code	Description	Start Date	End Date
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**Wisconsin Department of Natural Resources  
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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
Aquatic Macrophyte Survey, Point Intercept Method, Bone Lake [WBIC 2688100] Polk County, Wisconsin. July 2012.	Bone Lake PI Survey Analysis	Spooner Lake P&RD	7/1/2012	
Bone Lake APM Approval Letter	The approval letter for the Bone Lake APM Plan.	Alex Smith	11/20/2013	

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Bone Lake CLP Treatment Analysis Final 2014	On May 28 and 29, 2014 eight beds of Potamogeton crispus (curly leaf pondweed&#8208;CLP) totaling 30.43 acres were treated with endothall at a target concentration of 2 ppm. The treatment was found to be effective at reducing the CLP growth that was quantified before treatment, based upon frequency. The frequency from before treatment to after treatment declined 63.6%. Compared to the 2013 post treatment frequency, the 2014 increased slightly from 9.3% in 2013 to 11.3% in 2014. The pretreatment frequency from 2013 decreased in 2014, from 87% in 2013 to 74.6% in 2014, demonstrating a potential long&#8208;term CLP reduction. The native species analysis showed a reduction in the frequency of one species (Potamogeton robbinsii) that was significant. There was an increase in frequency in 9 native species. This supports no adverse effect of the herbicide on native species. A turion density analysis showed a reduction in the mean turion density in all beds from 2013 to 2014. Beds 2&#8208;5 showed a reduction in mean turion density for the fourth straight year. The update in non-treated CLP bed maps was not possible as the CLP never grew close to the surface to allow viewing from the surface.	Ecological Integrity Service	4/28/2014	
Bone Lake CLP Treatment Map 2015	Map of the Bone Lake treatment CLP 2015.		1/1/2015	
Bone Lake Comprehensive Mgmt Plan Approval	Comprehensive approval letter for the mgmt. plan on Bone Lake in Polk County.	Pamela Toshner	12/30/2009	
Bone Lake Treatment Map CLP 2015	Map of Bone Lake 2015 (CLP Treatment)		1/1/2015	
Draft: Bone Lake [2628100], Polk County. Endothall Concentration Monitoring Summary, 2013	Endothall Concentration monitoring summary 2013, Bone Lake, Polk County	John Skogerboe	12/17/2013	
Draft: Bone Lake [2628400], Polk County, Dipotassium Salt of Endothall Herbicide Concentration Monitoring Summary, 2014	Draft: Bone Lake [2628400], Polk County, Dipotassium Salt of Endothall Herbicide Concentration Monitoring Summary, 2014	John Skogerboe	11/28/2014	

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Herbicide Treatment of Potamogeton crispus Analysis, 2013. [Bone Lake, WBIC 2628100]	2013 CLP treatment Bone Lake	Ecological Integrity Servie, LLC	12/1/2013	
Herbicide Treatment of Potamogeton crispus Analysis, 2014. [Bone Lake, WBIC 2628100]	2014 CLP treatment Bone Lake	Ecological Integrity Servie, LLC	12/1/2014	

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:** \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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