

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: 10/01/2011
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 Dist	GRANT_RECIP	ACTIVE	10/01/2011		Bone Lake Management District	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
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Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request		10/01/2011	12/31/2014	PROPOSED
Details:	Parameter	Value/Amount	Units	Comments
	24D Granular, # Acres			
	24D Granular, # Pounds			
	24D Liquid, # Acres			
	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			
	DMA 4 IVM Acres			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	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			
	Polaris Gallons			
	Refuge Acres			
	Refuge Gallons			
	Reward Acres			
	Reward Gallons			

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Details: Parameter	Value/Amount	Units	Comments	
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				
Monitor Pre and Post Treatment		10/01/2011	12/31/2014	PROPOSED
Project Deliverable	Deliverables include GIS maps of areas monitored; aquatic plant and turion survey results (spreadsheets and narrative summary); and a management/treatment summary.	10/01/2011	12/31/2014	PROPOSED
Grant Awarded		10/01/2011	12/31/2013	COMPLETE
Aquatic Plant Monitoring or Survey		10/01/2011	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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Forms

Form Code	Form Name
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Methods

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Method Code	Description			
Fieldwork Events				
Start Date	Status	Field ID	Station ID	Station Name
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	07/01/2012	
Bone Lake APM Approval Letter	The approval letter for the Bone Lake APM Plan.	Alex Smith	11/20/2013	
Bone Lake CLP Treatment Analysis Final 2014	On May 28 and 29, 2014 eight beds of Potamogeton crispus (curly leaf pondweed) 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-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 2‐5 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	04/28/2014	
Bone Lake CLP Treatment Map 2015	Map of the Bone Lake treatment CLP 2015.		01/01/2015	
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)		01/01/2015	
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	Draft: Bone Lake [2628400], Polk County, Dipotassium Salt of Endothall Herbicide Concentration Monitoring	John Skogerboe	11/28/2014	

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Title	Description	Author	Published	Comments
Concentration Monitoring Summary, 2014	Summary, 2014			
Herbicide Treatment of Potamogeton crispus Analysis, 2013. [Bone Lake, WBIC 2628100]	2013 CLP treatment Bone Lake	Ecological Integrity Servie, LLC	12/01/2013	
Herbicide Treatment of Potamogeton crispus Analysis, 2014. [Bone Lake, WBIC 2628100]	2014 CLP treatment Bone Lake	Ecological Integrity Servie, LLC	12/01/2014	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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