

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AIRR-109-12
Name: HORSESHOE LAKE PROPERTY ASSOC: Horseshoe Lake Rapid Response for EWM
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Early Detection and Response
Status: COMPLETE
Start Date: 07/01/2011
End Date: 12/31/2016
Purpose: The Horseshoe Lake Property Association is sponsoring a four (4) year Early Detection and Response project that will monitor and manage a pioneering population of Eurasian watermilfoil in Horseshoe Lake.

Project activities include: 1) Point-intercept survey(s) and seasonal and/or pre- and post-treatment aquatic plant monitoring following guidelines provided by the Department; 2) Chemical treatment and/or SCUBA and manual removal of Eurasian watermilfoil; 3) Information and Education Program.

Special condition: WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for point-intercept survey monitoring, pre/post treatment monitoring, and aquatic plant management plan development unless otherwise approved by the Department.

Specific deliverables for this project include annual progress and final reports of monitoring and management activities, including aquatic plant survey spreadsheets and pre/post treatment monitoring, and any educational materials developed.

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 HORSESHOE LAKE PROPERTY ASSOC
Outcome:
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Horseshoe Lake Improvement	GRANT_RECIP	ACTIVE	07/01/2011		Horseshoe Lake Improvement Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Project Deliverable	annual progress and final report	07/01/2011	12/31/2015	PROPOSED
APM Mechanical Permit Request		07/01/2011	12/31/2015	PROPOSED
Details:	Parameter	Value/Amount	Units	Comments
	Total Acres harvested			
	Total pounds of plants harvested			
Information and Education		07/01/2011	12/31/2015	PROPOSED
Aquatic Plant Monitoring or Survey		07/01/2011	12/31/2015	PROPOSED
Monitor Pre and Post Treatment		07/01/2011	12/31/2015	PROPOSED

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Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request		07/01/2011	12/31/2015	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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Action	Detailed Description	Start	End Date	Status
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			
Grant Awarded		07/01/2011	06/30/2014	IN_PROGRESS
Grant Awarded		07/01/2011	06/30/2014	IN_PROGRESS

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
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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	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
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Title	Description	Author	Published	Comments
2011 EWM Beds and Likely Habitat - Horseshoe Lake, Washburn County [Map]	Map of 2011 EWM beds and likely habitat for EWM	Endangered Resource Services, LLC	06/12/2011	
2011 Eurasian water milfoil (Myriophyllum spicatum) June Littoral Zone and Bed Mapping Surveys, August Warm Water Point Intercept Survey, and October Herbicide Assessment Swimover Survey - Horseshoe Lake	In May 2011, Eurasian water milfoil (Myriophyllum spicatum) was discovered in the lake. Because of this, the Horseshoe Lake Property Owners Association and the WDNR commissioned a June EWM bed mapping survey, an August full point intercept macrophyte survey, and an October post herbicide swimover assessment survey in preparation for developing an Aquatic Plant Management Plan for the lake. The June survey identified three EWM beds on the east side of the lake totaling 0.53 acre. The August survey found macrophytes at 254 of the 387 total survey points.	Matthew S. Berg, Endangered Resource Services, LLC	10/08/2011	
2011 PI Survey Data - Horseshoe Lake, Washburn County [Excel File]	PI survey data from Horseshoe Lake.	Matthew S. Berg, Mitchel L. Berg, Noah M. Berg	08/03/2011	
2012 Eurasian water milfoil (Myriophyllum spicatum) June Littoral Zone and Bed Mapping Surveys, and September Littoral Zone Survey and Herbicide Assessment Dive Survey - Horseshoe Lake		Matthew S. Berg, Endangered Resource Services, LLC	09/01/2012	
Horseshoe Lake EWM [Photo 10]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 11]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 1]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 2]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 3]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 4]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 5]	Photo of Horseshoe Lake taken sometime between July and August of	Matthew S. Berg	01/01/2011	

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Title	Description	Author	Published	Comments
Horseshoe Lake EWM [Photo 6]	2011. Grant project revolved around the management of a pioneering EWM population. Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 7]	2011. Grant project revolved around the management of a pioneering EWM population. Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 8]	2011. Grant project revolved around the management of a pioneering EWM population. Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	
Horseshoe Lake EWM [Photo 9]	2011. Grant project revolved around the management of a pioneering EWM population. Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	01/01/2011	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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