### Wisconsin Department of Natural Resources SWIMS Project Summary

#### **General Project Information**

Project ID: AIRR22518

Name: CEDAR LAKE PROTECTION & REHABILITATION DIST: Cedar Lake EWM Response with DASH

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Early Detection and Response

Status: COMPLETE

**Start Date:** 7/8/2017 **End Date:** 12/31/2019

Purpose: The Cedar Lake Protection and Rehabilitation District (PRD) proposes to control Eurasian watermilfoil in Cedar Lake, St.

Croix County.

Approved activities include: Herbicide treatment, hand-pulling, pre-and post-monitoring, consultant fees, buoy placement, and

APM plan update.

Deliverables include: Pre and post monitoring data, APM permits, EWM monitoring maps, maps of hand-pulling locations,

including volume of EWM removed.

Special conditions: All monitoring and management should follow approved recommendations within the Cedar Lake Aquatic

Plant Management Plan, WDNR\2019s Aquatic Plant Management in Wisconsin guidance, and/or Citizen Lake Monitoring

Network protocols, as specified by the Department.

Objective:

Comments: Grantee is CEDAR LAKE PROTECTION & REHABILITATION DIST

Outcome:

Study Design:

**QA Measures:** 

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Cedar Lake Protection and Reha	GRANT_RECIPI ENT	ACTIVE	1/3/2019		Cedar Lake Protection and Rehabilitation District	
DUFFY, CLAUDIA M	TEAM_MEMBER	COMPLETE	8/14/2019	8/29/2020	Wisconsin DNR	
Lepsch, Jodi A	TEAM_MEMBER	ACTIVE	1/3/2020		Wisconsin DNR	
Mosel, Kyle J	TEAM_MEMBER	INACTIVE	7/3/2019	2/23/2023	WISCONSIN DNR	
SELLE, ALEXANDER J	TEAM_MEMBER	ACTIVE	7/3/2019		Wisconsin DNR	
Smith, Alex R	LAKE_BIOLOGI ST	ACTIVE	8/14/2019		Wisconsin DNR	

#### **Project Statuses**

Date	Reported By	Status	Comments

Actions					
	Action	Detailed Description	Start Date	End Date	Status
	Grant Awarded	Grant AIRR22518 awarded	7/8/2017	12/31/2019	COMPLETE

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Monitoring Stations					
Station ID	Name	Comments			
10004778	Cedar Lake - T32 R18W S34				

Assessment Units						
WBIC	Segment	Local Name	Official Name			
2615100	1	Cedar Lake	Cedar Lake			
2615200	1	Horse Creek	Horse Creek			

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		
6/29/2015 10:00	COMPLETE		10004778	Cedar Lake - T32 R18W S34		

Documents				
Title	Description	Author	Published	Comments
Evaluation of Myriophyllum spicatum (EWM) Management Using Diver Assisted Suction Harvest (DASH) - Cedar Lake, Polk/St. Croix Counties, Wisconsin	In July and August 2018, DASH (Diver Assisted Suction Harvest) was employed to reduce/control stands of Myriophyllum spicatum-Eurasian watermilfoil (EWM) in Cedar Lake. The areas that were harvested were based upon pre-harvest surveys conducted in areas that have historically been managed in the past using herbicide. Due to the lack of success with herbicide (2,4-D and Diquat/Endothallwere used on different occasions with limited reduction), herbicide use was ceased for 2018.	Ecological Integrity Service, LLC	9/1/2018	

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Herbicide Treatment	On June 6, 2019 the herbicide	Ecological Integrity	8/1/2019
Analysis Targeting	ProcellaCOR (Florpyrauxifen-benzyl )	Service	
Myriophyllum spicatum	was utilized to reduce Myriophyllum		
(Eurasian watermilfoil) -	spicatum (EWM) in two beds totaling		
Cedar Lake, St. Croix County,	12.2 acres. The frequency of occurrence		
WI	(FOO) had a significant reduction		
	(p<0.0001 from chi square analysis)		
	with an FOO of 59.5% within the		
	treatment bed before treatment to 0%		
	after treatment. There was one		
	significant reduction in native species		
	(Potamogeton pusillus) and three		
	significant increases in native species		
	(based upon chi square analysis before		
	and after treatment).		

### **Wisconsin Department of Natural Resources SWIMS Project Summary**

Myriophyllum spicatum‐Eurasian watermilfoil Management Analysis (herbicide, DASH, hand pull) - Cedar Lake, St. Croix County Wisconsin

An herbi Aquastri endotha 2.6&#82 (Myriopl 2017 on Wiscons July 11 r occurrer a density This was Septeml was 48.7 There wa reductio chi&#82 significa species chi&#82 2016 and Hand pu suction approxii EWM. Fo with dive lbs. Ther (51.4% t DASH si analysis. reduced DASH us historica and dive frequenc 18.8%, b (p=0.06)a larger, long‐term sample grid was completed in September 2017 with

a EWM FOO of 7.03%.

3111113 1 10	jeot Garrinary		
bicide application of rike® (mixture of diquat and hall) was conducted in a 8208; acre bed of EWM orbyllum spicatum) on May 9, in Cedar Lake, St. Croix County hasin. A post treatment survey on resulted in a frequency of ence (FOO) of EWM of 46.2% and fity of 0.64 (scale of 0‐3). As a slight decrease from a haber 2016 survey where the FOO .7% and a mean density of 0.72. It was no statistically significant on in EWM based upon a 8208; square analysis. There was a ant reduction of five native is based upon a 8208; square analysis between and 2017 post treatment surveys. For building efforts using diver assisted in harvest (DASH) removed imately 5000 lbs. (wet weight) of follow‐ up hand pulling	Ecological Integrity Service, LLC	1/1/2017	
imately 5000 lbs. (wet weight) of			
ere was a frequency reduction to 24.3%) in EWM within the			
sites based upon a chisquare s. The mean density was also d. A survey before and after			
using a sample grid around all cal EWM control areas (treatment			
ver removed) also showed a ncy reduction from 30.8% to but was not quite significant			
6). A baseline EWM evaluation on r, long‐term sample grid			

### **Budget**

**Combined Budgets: Combined WSLH:** 

**Combined Total:** \$0.00

Funding					
Organization	Source	Туре	Amount	Start Date	<b>End Date</b>