

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ACEI21818  
**Name:** SPOONER LAKE DISTRICT: Spooner Lake Curly Leaf Pondweed & Knotweed Control  
**Type:** Aquatic Invasives Grant  
**Subtype:** Aquatic Invasives Control  
**Status:** ACTIVE  
**Start Date:** 04/15/2018  
**End Date:** 12/31/2021  
**Purpose:** Spooner Lake Protection & Rehabilitation District is sponsoring a project to implement their approved aquatic plant management activities. Activities include: curlyleaf pondweed control, professional and volunteer AIS monitoring, and reporting.  
  
 Final deliverables include: summaries and reports of each grant activity, as described in the application; submission of collected data, evaluation, and results; and examples of education and outreach materials.  
  
 This scope does not supersede or negate activities described in the grant application and proposal.  
**Objective:**  
**Comments:** Grantee is SPOONER LAKE DISTRICT  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Spooner Lake District,	GRANT_RECIPII	ACTIVE	04/15/2018	12/31/2019	Spooner Lake District	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
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## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	04/12/2018	04/27/2018	APPROVED
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Broad-leaved cattail (Typha latifolia)	N		
	Business Location License	N/A		
	CO - # days	11		
	CO - 15 days	Y		
	CO - Date Sent	4/27/2018		
	CO-Date_Received	4/12/2018		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemical Permit ID	6147		
	Chemicals - Approved	N/A		
	Comments	N/A		
	Common arrowhead (Sagittaria latifolia)	N		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Control - Algae	N		
	Control - Emergent water plants	N		
	Control - Floating water plants	N		
	Control - Nuisance algae	N		
	Control - PL	N		
	Control - Submerged water plants	Y		
	Coontail (Ceratophyllum demersum)	N		
	Curly-leaf pondweed (Potamogeton crispus)	N		
	Entered in SharePoint	N		
	Estimated Acres	21		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Fee	570		
	Field - # days	N		
	Field Issued By	Mark_Sundeen		
	Filamentous Algae	N		
	Improvement - swimming	N		
	Lake Surface Area			
	Large Duckweed (Spirodela polyrhiza)	N		
	Large Scale Treatment Form	N		
	Large-leaf pondweed (Potamogeton amplifolius)	N		
	Maintain navigational channel	N		
	Maintain private access - boating	N		
	Maintain private access - fishing	N		
	Muskgrasses (Chara )	N		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Mark Sundeen			
Other Plants	Algae			
PLSS_DIRECTION	W			
PLSS_RANGE	12			
PLSS_SECTION	26			
PLSS_TOWNSHIP	39			
Payment Number	WP-00012643			
Permit County	Washburn			
Permit End Year	2018			
Permit Latitude	45.4978			
Permit Longitude	-91.483470			
Permit PLSS Section	26 T39 R12W			
Permit Start Year	2018			
Permit WBIC	2685200			
Pithophora	N			
Planktonic Algae	N			
Private Pond	N			
Purple loosestrife (Lythrum salicaria)	N			
SharePoint Submittal	Y			
Softstem bulrush (Schoenoplectus tabernaemontani)	N			
Sogo pondweed (Stuckenia pectinata)	N			
TREATMENT_AREA	Spooner Lake			
Treatment Date	N			
Treatment Date	N			
Treatment Record - Received	N			
Treatment Record - Scanned	N			
Waterbody Type	LAKE			

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Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	04/12/2018	04/27/2018	APPROVED
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Broad-leaved cattail (Typha latifolia)	N		
	Business Location License	N/A		
	CO - # days	11		
	CO - 15 days	Y		
	CO - Date Sent	4/27/2018		
	CO-Date_Received	4/12/2018		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemical Permit ID	6146		
	Chemicals - Approved	N/A		
	Comments	N/A		
	Common arrowhead (Sagittaria latifolia)	N		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Control - Algae	N		
	Control - Emergent water plants	N		
	Control - Floating water plants	N		
	Control - Nuisance algae	N		
	Control - PL	N		
	Control - Submerged water plants	Y		
	Coontail (Ceratophyllum demersum)	N		
	Curly-leaf pondweed (Potamogeton crispus)	N		
	Entered in SharePoint	N		
	Estimated Acres	28		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Fee	720		
	Field - # days	N		
	Field Issued By	Mark_Sundeen		
	Filamentous Algae	N		
	Improvement - swimming	N		
	Lake Surface Area			
	Large Duckweed (Spirodela polyrhiza)	N		
	Large Scale Treatment Form	N		
	Large-leaf pondweed (Potamogeton amplifolius)	N		
	Maintain navigational channel	N		
	Maintain private access - boating	N		
	Maintain private access - fishing	N		
	Muskgrasses (Chara )	N		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Mark Sundeen			
Other Plants	Curly-leaf pondweed			
PLSS_DIRECTION	W			
PLSS_RANGE	12			
PLSS_SECTION	26			
PLSS_TOWNSHIP	39			
Payment Number	WP-00012644			
Permit County	Washburn			
Permit End Year	2018			
Permit Latitude	45.4978			
Permit Longitude	-91.483470			
Permit PLSS Section	26 T39 R12W			
Permit Start Year	2018			
Permit WBIC	2685200			
Pithophora	N			
Planktonic Algae	N			
Private Pond	N			
Purple loosestrife (Lythrum salicaria)	N			
SharePoint Submittal	Y			
Softstem bulrush (Schoenoplectus tabernaemontani)	N			
Sogo pondweed (Stuckenia pectinata)	N			
TREATMENT_AREA	Spooner Lake			
Treatment Date	N			
Treatment Date	N			
Treatment Record - Received	N			
Treatment Record - Scanned	N			
Waterbody Type	LAKE			
Grant Awarded	Grant ACEI21818 awarded	04/15/2018	12/31/2019	COMPLETE

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

<b>Action</b>	<b>Detailed Description</b>	<b>Start</b>	<b>End Date</b>	<b>Status</b>
APM Chemical Permit Request	Chemical permit details	06/11/2019	06/11/2019	APPROVED
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	APM Plan	Y		
	Algae	N		
	Algimycin PWF Algaecide / Cyanobactericide	N		
	Alternative - Drawdown	N		
	Alternative - Dredging	N		
	Alternative - Manual Removal	N		
	Alternative - Mechanical Harvesting	N		
	Alternative - Nutrient Controls	N		
	Alternative - Other	N		
	Alternative - Sediment Screens	N		
	Alternative - Why Not Drawdown	Not Applicable		
	Alternative - Why Not Dredging	Not Applicable		
	Alternative - Why Not Manual Mechanical	Too large of an area		
	Alternative - Why Not Nutrient Control	Not a control option for immed		
	Alternative - Why Not Other Sediment Screens	Not Applicable		
	Alternative - Why Not Aqua Star	Not Applicable		
	Alternative - Why Not AquaPro Herbicide	Not Applicable		
	Alternative - Why Not AquaShade Aquatic Plant Growth Control	Not Applicable		
	Alternative - Why Not AquaStrike	Not Applicable		
	Alternative - Why Not Aquaneat Aquatic Herbicide	Not Applicable		
	Alternative - Why Not Aquashadow Black Pond Colorant	Not Applicable		
	Alternative - Why Not Aquathol K Aquatic Herbicide	Not Applicable		
	Alternative - Why Not Aquathol Super K Granular Aquatic Herbicide	Not Applicable		
	Alternative - Why Not Avast! SC Aquatic Herbicide	Not Applicable		
	Business Location License	93-006836-006558		
	CO - # days	0		
	CO - Date Sent	06/11/2019		
	CONTROL_INVASIVES	N		
	CONTROL_OTHER	Y		
	Captain Liquid Copper Algaecide	N		
	Captain XTR Liquid Copper Algaecide	N		
	Category 5 Certification Number	143379-CA		
	Chemical Permit ID	0		
	Chemicals - Approved	Dibrox, Mizzen and Aquathol K		
	Chemicals Permitted Previous Year	All		
	Chinook	N		
	Clearcast (general)	N		

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

<b>Action</b>	<b>Detailed Description</b>	<b>Start</b>	<b>End Date</b>	<b>Status</b>
<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>	
	Clearigate	N		
	Clipper Herbicide	N		
	Clipper SC Aquatic Herbicide	N		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Common/Glossy Buckthorn	N		
	Control - Algae	Y		
	Control - Emergent water plants	N		
	Control - Floating water plants	N		
	Control - Submerged water plants	Y		
	Coontail (Ceratophyllum demersum)	N		
	Curly-leaf pondweed (Potamogeton crispus)	N		
	Current	N		
	Citrine-Plus Algaecide and Herbicide	N		
	Citrine-Plus Granular Algaecide	N		
	Citrine-Ultra Algaecide / Herbicide / cyanobactericide	N		
	DMA 4 IVM Herbicide	N		
	Earthtec Algaecide / Bactericide	N		
	Element 3A Herbicide	N		
	Estimated Acres	5.50964187327824		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Fee	170		
	Field - Date Issued	07/01/2019		
	Field - Date Received	06/11/2019		
	Field Issued By	Mark_Sundeen		
	Flowering Rush	N		
	Flumioxazin 51% WDG - NonCrop	N		
	Formula F-30 Algae Control	N		
	Garlon 3A Herbicide	N		
	Green Clean (general)	N		
	Habitat (general)	N		
	Harpoon (general)	N		
	Harvester Landscape and Aquatic Herbicide	N		
	Havoc Amine	N		
	Hybrid Cattail	N		
	Hybrid Watermilfoil	N		
	Hydrothol 191 Aquatic Algicide and Herbicide	N		
	Hydrothol Granular Aquatic Algaecide and Herbicide	N		
	Improvement - swimming	N		

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<b>Action</b>	<b>Detailed Description</b>	<b>Start</b>	<b>End Date</b>	<b>Status</b>
<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>	
Japanese Knotweed	N			
K-Tea Aquatic Algaecide	N			
Komeen Aquatic Herbicide	N			
Komeen Crystal Aquatic Herbicide	N			
Lake Surface Area	6			
Large Duckweed (Spirodela polyrhiza)	N			
Maintain navigational channel	N			
Maintain private access - boating	N			
Maintain private access - fishing	N			
Method of Application	Injection			
Milestone Herbicide	N			
More than 1 Property Owner	Y			
NUISANCE_CAUSED_OTHER	N			
Naiad	N			
Narrow-Leaf Cattail	N			
Nautique Aquatic Herbicide	N			
Navigate	N			
Navitrol DPF Aquatic Herbicide	N			
Navitrol Landscape and Aquatic Herbicide	N			
Nutri-Sorb	N			
Orb-3 (general)	N			
Other Plants	Algae, coontail, elodia, narro			
Overflow Controlled	Y			
PLSS_DIRECTION	W			
PLSS_RANGE	12			
PLSS_SECTION	26			
PLSS_TOWNSHIP	39			
Payment Number	WP-00018867			
Permit County	Washburn			
Permit End Year	2019			
Permit Latitude	45.83977950			
Permit Longitude	-91.82473260			
Permit PLSS Section	2639N12W			
Permit Start Year	2019			
Permit WBIC	2685200			
Phycomycin SCP Algaecide and Oxidizer	N			
Polaris	N			
Polaris AC	N			
Pond-Klear	N			
Pondweeds	N			
Private Pond	N			
ProcellaCOR EC	N			
Purple loosestrife (Lythrum salicaria)	N			



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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>	
Reed Canary Grass	N			
Reed Manna Grass	N			
Refuge Herbicide	N			
Renovate 3	N			
Renovate LZR Aquatic Herbicide	N			
Renovate LZR Max Aquatic Herbicide	N			
Renovate Max G Aquatic Herbicide	N			
Renovate OTF Aquatic Herbicide	N			
Restricted Use License	143379-CA			
Reward Landscape and Aquatic Herbicide	N			
Rodeo Herbicide	N			
Roundup Custom for Aquatic & Terrestrial Use	N			
SCI-62 Algicide / Bactericide	N			
SP_Document_ID	YTHQS767HR6T-42-541585			
Sculpin G Aquatic Herbicide	N			
SeClear (general)	N			
SeClear G Algaecide and Water Quality Enhancer	N			
Sensitive Area	N			
SharePoint_Number	AP-IP-NO-2019-66-X06-11T10-42-			
Shoreklear-Plus Aquatic Herbicide	N			
Shredder Amine 4	N			
Sonar A.S.	N			
Sonar Genesis Aquatic Herbicide	N			
Sonar H4C Aquatic Herbicide	N			
Sonar PR Precision Release	N			
Sonar Q Aquatic Herbicide	N			
Sonar RTU Aquatic Weed Herbicide	N			
Sonar SRP Aquatic Herbicide	N			
SonarOne Aquatic Herbicide	N			
Starry Stonewort	N			
Stingray Aquatic Herbicide	N			
Surface Water Discharge	N			
Symmetry NXG	N			
TREATMENT_AREA	Spooner			
Touchdown Pro	N			
Treatment Area Greater Than 5%	N			
Tribune Herbicide	N			
WPDES Coverage	N			
Waterbody Type	Lake			
Waterbody have Public Access	Y			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Weedar 64 Broadleaf Herbicide	N			
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N			
Wind Direction	143379-CA			
Yellow Floating Heart	N			
Yellow Iris	N			

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
2685200	1	Spooner Lake	Spooner Lake
2685400	1	Little Spooner Lake	Little Spooner Lake
2685500	1	Crystal Brook	Crystal Brook

### 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
Herbicide Treatment Analysis-Potamogeton crispus, Spooner Lake Washburn County WI 2017	On May 8 and 10, 2017 an herbicide treatment with endothal on five Potamogeton crispus-Curly leaf pondweed (CLP) beds occurred totaling 21.34 acres. A pretreatment survey and post treatment survey revealed a statistically significant reduction in the CLP after treatment (comparing the 2017 pretreatment CLP frequency to the 2017 post treatment CLP frequency) from 70.4% to 12.0% frequency of occurrence. The 2017 post treatment CLP frequency of occurrence was higher than the 2016 post treatment CLP frequency, from 4.6% in 2016 to 17.6% in 2017. The pretreatment survey from 2016 compared to the pretreatment survey from 2017 showed a small increase from 48.1% in 2016 to 54.0% in 2017.	Ecological Integrity Service, LLC	01/01/2017	

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Title	Description	Author	Published	Comments
	There was one native plant species with a significant reduction and one native species with a significant increase. The 2017 turion analysis resulted in an increase in turion density from 2016 (38.1 turions/m <sup>2</sup> ) to 2017 (71.2 turions/m <sup>2</sup> ). A whole lake meander survey was conducted for CLP and a new bed of CLP was located in the main lake basin. Other CLP locations from 2016 were not present in 2017.			
Spooner Lake 2018 Potential CLP Beds	CLP plant map 2018.		01/01/2018	
Spooner Lake Curly Leaf Pondweed and Knotweed Control Application Checklist	Surface Water Grant Application Checklist. Form 8700-284C (R 9/16)	Spooner Lake Protection and Rehabilitation District	02/13/2018	
Spooner Lake Public Access Map	Map of public access.		01/01/2018	

### Budget

**Combined Budgets:**  
**Combined SLOH:**  
**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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