

Wisconsin Department of Natural Resources

SWIMS Project Summary

General Project Information

Project ID: AEPP55218

Name: RED CEDAR LAKES ASSOCIATION: 2018-19 Red Cedar Lakes CLP Planning & APM Plan Update

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Education

Status: COMPLETE

Start Date: 2/15/2018

End Date: 6/30/2020

Purpose: The Red Cedar Lakes Association is sponsoring a project to conduct AIS monitoring and update the aquatic plant management plan.

Project deliverables include GIS data & maps of areas monitored, aquatic plant survey and bed mapping data and report, AIS and water quality monitoring data in SWIMS, education materials developed, dye study report, and an updated APM plan.

Specific project activities include: 1) Volunteer AIS monitoring; 2) AIS outreach & education; 3) Spring and summer whole lake point intercept plant surveys; 4) CLP bed mapping; 5) Purple loosestrife monitoring; 6) Dye study on north end of Balsam Lake; 7) APM plan update; 8) Lake and tributary water quality monitoring; 9) WAV stream monitoring.

Special Conditions: 1) Sponsor shall contact DNR immediately if a new AIS is found; 2) Water quality, WAV, and AIS monitoring personnel shall be trained and follow DNR approved protocols; 3) Water quality, WAV, and AIS monitoring data shall be entered in SWIMS; 4) Education materials shall be consistent with the Department's 2019s statewide education strategy for preventing and controlling AIS; 5) WDNR's 2019s Aquatic Plant Management in Wisconsin guidance shall be followed for point-intercept survey monitoring and aquatic plant management plan development. The NOR Native Plant Protection Strategy shall be integrated into the APM plan.

This scope is intended to summarize the detailed project scope provided in the application and does not supersede those application tasks/deliverables. Data, records, reports, and education materials, 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 RED CEDAR LAKES ASSOCIATION

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Goodwin, Tom	COORDINATOR	ACTIVE	7/9/2019		Red Cedar Lakes Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AEPP55218 awarded	2/15/2018	6/30/2020	COMPLETE

Monitoring Stations

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Station ID	Name	Comments
663045	Balsam Lake - Deep Hole Near Birchwood WI	
033189	Hemlock Creek at Cth F	
033142	Hemlock Lake - Deep Hole	
10011413	Pigeon Creek at 28th St.	
033140	Red Cedar Lake - Deep Hole North	
10033961	Red Cedar Lake - South Basin	
10022737	Red Cedar River at 25th Ave.	
663152	Red Cedar River at Cth D At Birchwood	
033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI	

Assessment Units			
WBIC	Segment	Local Name	Official Name
2063500	11	Red Cedar River	Red Cedar River
2109600	1	Red Cedar Lake	Red Cedar Lake
2109700	1	Hemlock Creek	Hemlock Creek
2109800	1	Hemlock Lake	Hemlock Lake
2111800	1	Pigeon Creek	Pigeon Creek
2112200	1	Sucker Creek	Sucker Creek
2112800	1	Balsam Lake	Balsam Lake
5004784	1	Unnamed Trib from Birch to Balsam Lk	Unnamed

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
4/21/2018	COMPLETE	RED CEDAR RIVER AT 2	10022737	Red Cedar River at 25th Ave.
4/21/2018 9:41	COMPLETE	HEMLOCK CREEK- APRIL	033189	Hemlock Creek at Cth F
4/21/2018 10:30	COMPLETE	PIGEON CREEK-APRIL 2	10011413	Pigeon Creek at 28th St.
4/21/2018 10:50	COMPLETE	SUCKER CREEK APRIL 2	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI

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4/21/2018 11:05	COMPLETE	RCR CTY D IN BIRCHWO	663152	Red Cedar River at Cth D At Birchwood
5/13/2018 9:45	COMPLETE	663152	663152	Red Cedar River at Cth D At Birchwood
5/13/2018 10:16	COMPLETE	033188	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI
5/13/2018 10:40	COMPLETE	10011413	10011413	Pigeon Creek at 28th St.
5/13/2018 11:15	COMPLETE	033189	033189	Hemlock Creek at Cth F
5/13/2018 11:56	COMPLETE	10022737	10022737	Red Cedar River at 25th Ave.
5/14/2018 13:00	COMPLETE	NA	10033961	Red Cedar Lake - South Basin
6/18/2018 9:25	COMPLETE	663152	663152	Red Cedar River at Cth D At Birchwood
6/18/2018 9:43	COMPLETE	033188	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI
6/18/2018 11:15	COMPLETE	033189	033189	Hemlock Creek at Cth F
6/18/2018 11:47	COMPLETE	10011413	10011413	Pigeon Creek at 28th St.
6/18/2018 11:47	COMPLETE	10022737	10022737	Red Cedar River at 25th Ave.
6/19/2018 17:00	COMPLETE	RED CEDAR	10033961	Red Cedar Lake - South Basin
7/15/2018 9:17	COMPLETE	RED CEDAR AT CTH D	663152	Red Cedar River at Cth D At Birchwood
7/15/2018 11:05	COMPLETE	SUCKER CREEK	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI
7/15/2018 11:30	COMPLETE	PIGEON CREEK	10011413	Pigeon Creek at 28th St.
7/15/2018 12:03	COMPLETE	HEMLOCK CREEK	033189	Hemlock Creek at Cth F
7/15/2018 12:30	COMPLETE	RED CEDAR AT 25TH AV	10022737	Red Cedar River at 25th Ave.
7/27/2018 18:00	COMPLETE	RED CEDAR SOUTH BASI	10033961	Red Cedar Lake - South Basin
8/12/2018 9:20	COMPLETE	663152	663152	Red Cedar River at Cth D At Birchwood
8/12/2018 10:01	COMPLETE	033188	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI
8/12/2018 10:29	COMPLETE	10011413	10011413	Pigeon Creek at 28th St.
8/12/2018 10:49	COMPLETE	033189	033189	Hemlock Creek at Cth F
8/12/2018 11:01	COMPLETE	10022737	10022737	Red Cedar River at 25th Ave.
8/30/2018 8:00	COMPLETE	RED CEDAR LAKE	10033961	Red Cedar Lake - South Basin
9/16/2018 9:20	COMPLETE	INLET SEPT 2018	663152	Red Cedar River at Cth D At Birchwood
9/16/2018 9:45	COMPLETE	SUCKER CREEK SEPT 20	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI
9/16/2018 10:10	COMPLETE	PIGEON CREEK SEPT 20	10011413	Pigeon Creek at 28th St.
9/16/2018 10:30	COMPLETE	HEMLOCK CREEK SEPT 2	033189	Hemlock Creek at Cth F
9/16/2018 11:15	COMPLETE	OUTLET SEPT 2018	10022737	Red Cedar River at 25th Ave.
9/16/2018 13:00	COMPLETE	033140	033140	Red Cedar Lake - Deep Hole North
9/16/2018 13:30	COMPLETE	10033961	10033961	Red Cedar Lake - South Basin
9/16/2018 14:00	COMPLETE	HEMLOCK	033142	Hemlock Lake - Deep Hole

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9/16/2018 15:00	COMPLETE	BALSAM	663045	Balsam Lake - Deep Hole Near Birchwood WI
10/14/2018 10:10	COMPLETE	PIGEON CREEK	10011413	Pigeon Creek at 28th St.
10/14/2018 10:10	COMPLETE	RED CEDAR INLET	663152	Red Cedar River at Cth D At Birchwood
10/14/2018 10:49	COMPLETE	SUCKER CREEK	033188	Sucker Creek at Loch Lamond Blvd Near Birchwood WI
10/14/2018 11:44	COMPLETE	HEMLOCK CREEK	033189	Hemlock Creek at Cth F
10/14/2018 12:25	COMPLETE	RED CEDAR OUTLET	10022737	Red Cedar River at 25th Ave.
10/16/2018 8:00	COMPLETE	BALSAM OCT 2018	663045	Balsam Lake - Deep Hole Near Birchwood WI
10/16/2018 9:00	COMPLETE	RED CEDAR NORTH OCT	033140	Red Cedar Lake - Deep Hole North
10/16/2018 9:45	COMPLETE	RED CEDAR OCT 2018	10033961	Red Cedar Lake - South Basin
10/16/2018 10:15	COMPLETE	HEMLOCK OCTOBER 2018	033142	Hemlock Lake - Deep Hole
7/26/2019 0:30	COMPLETE		033142	Hemlock Lake - Deep Hole

Documents

Title	Description	Author	Published	Comments
2018 Curlyleaf Pondweed Delineation Survey	We conducted a late-spring delineation survey to locate and map areas of curlyleaf pondweed (CLP) throughout the Red Cedar Chain of Lakes around the time of peak CLP abundance. Results from this survey will help to evaluate the effectiveness of past CLP control strategies and guide management decisions over the coming years.	James A. Johnson - Aquatic Ecologist, Freshwater Scientific Services, LLC	6/1/2018	
2018 Red Cedar Lakes PI Survey Data	Data from the PI surveys on the Red Cedar Lakes chain: Balsam, Hemlock, Mud, and Red Cedar Lakes between August 28,2018-September, 7, 2018.	James A. Johnson	9/7/2018	
Aquatic Plant Community of the Red Cedar Lakes: 2018	These surveys were designed to map the extent of curlyleaf pondweed beds and provide detailed, statistical assessments of the aquatic plant communities in Red Cedar Lake, Hemlock Lake, Balsam Lake, and Mud Lake (collectively referred to as the "Red Cedar Lakes" hereafter). The information gained from these assessments provides a baseline for evaluating any changes in the plant community over the coming years, and will help to guide responsible vegetation management planning.	James A. Johnson - Aquatic Ecologist, Freshwater Scientific Services, LLC	2/8/2019	

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Balsam Lake, Washburn County 2018 Rhodamine Dye Study Report	As a part of the 2018-19 AEPP grant that was submitted a plan for a Rhodamine Dye Study was developed by LEAPS. Calculations were completed that determined that 6.93 lbs of liquid Rhodamine dye would be needed to mimic a comparable chemical treatment application on a 7.6 acre bed of CLP identified in the north end of Balsam Lake in the spring of 2018 (Figure 6, Table 5).	Lake Education and Planning Services	1/1/2019	
Dye Study Results - Balsam Lake, Washburn County [Excel]	Data and graphs from the 2018 dye study results	Dave Blumer	11/19/2018	
Dye Study Results - Balsam Lake, Washburn County [Photo]	Image of the dye study results on Balsam Lake until 72 hours after treatment.	Dave Blumer, LEAPS	6/7/2018	
Red Cedar Lakes - Barron County - 2018 AEPP Project Implementation Summary Report	This report discusses aquatic plant management activities completed by the Red Cedar Lakes Association (RCLA) and Lake Education and Planning Services (LEAPS) during the 2018 season associated with the AIS Education, Prevention, and Planning (AEPP) project awarded in early 2018. This project covers waters in four different lakes: Balsam, Mud, Red Cedar, and Hemlock.	Dave Blumer	2/6/2019	
Red Cedar Lakes APM Approval Letter	Approval letter for Red Cedar Lakes APM plan.	Alex Smith	3/3/2020	
Red Cedar Lakes, Barron and Washburn County, 2020-2024 Aquatic Plant Management Plan	The Red Cedar Lakes are located in northwestern Barron County and southeastern Washburn County, northwest Wisconsin in the headwaters region of the Red Cedar River. The Red Cedar Lakes consist of three main stem lakes (Balsam, Red Cedar, and Hemlock) on the Red Cedar River, and Mud Lake, a small spring-fed lake flowing into Balsam Lake. The lakes cover more than 2,600 acres and have nearly 39 miles of shoreline. Bass Lake is a small (19-acre) seepage lake adjacent to the northeast shore of Red Cedar Lake. Bass Lake is listed as being 39-feet deep with an average depth of 13-feet. It primarily consists of a warm water fishery with largemouth bass, northern pike, and panfish.	Dave Blumer	10/1/2019	

Budget

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Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding					
Organization	Source	Type	Amount	Start Date	End Date