

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPT-124
Name: WAPOGASSET/BEAR TRAP LAKE IMPROVEMENT DISTRI: RES-Bear Trap Lake Alum Treatment
Type: Lakes Grant
Subtype: Lake Protection Grant
Status: COMPLETE
Start Date: 09/01/1999
End Date: 12/31/2001
Purpose: The Lake Wapogasset & Bear Trap Lake Sanitary District is proposing to conduct an aluminum sulfate (alum) application to the waters of Bear Trap Lake in Polk County. This lake management procedure has been recommended in a previous Lake Management Planning Grant project report as a method to decrease the level of late summer phosphorus concentrations in the lake due to the in-lake recycling of nutrients from the bottom sediments. The alum will be applied to the lake surface via a barge with surface application spray bars.

This grant application proposes treating two lake areas; (1) the area with water depth of 5 to 15 feet is proposed to be treated with a dosage rate of 5.1 ppm alum, and (2) the lake area with depths of greater than 15 feet to be treated at a dosage rate of 40 g. alum/ sq. m.. The Department of Natural Resources has determined that the treatment of the 5 to 15 foot depth area is ineligible for Lake Protection Grant cost sharing, because of a review panel consensus opinion that the effectiveness of alum for controlling phosphorus release from shallow, oxic lake sediments has not been well documented.

The application of alum will be restricted to a time period from July 15 to freeze up and the Lake Wapogasset & Bear Trap Lake Sanitary District must notify the Department of their treatment plans at least two days prior to application. The District must submit a report to the Department, after treatment, detailing the time of treatment, locations covered, rate of treatment, and total amount of alum applied.

Objective:

Comments: Grantee is WAPOGASSET/BEAR TRAP LAKE IMPROVEMENT DISTRI

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Wapogasset/Bear Impr Assn, GRANT_RECIP	GRANT_RECIP	ACTIVE	09/01/1999	12/31/2001	Wapogasset/Bear Impr Assn	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
ATTAINS Alternative Restoration Approach	The Lake Wapogasset & Bear Trap Lake Sanitary District is proposing to conduct an aluminum sulfate (alum) application to the waters of Bear Trap Lake in Polk County. This lake management procedure has been recommended in a previous Lake Management Planning Grant project report as a method to decrease the level of late summer phosphorus concentrations in the lake due to the in-lake recycling of nutrients from the bottom sediments.	09/01/1999	12/31/2001	COMPLETE

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Action	Detailed Description	Start	End Date	Status
Grant Awarded	<p>The Lake Wapogasset & Bear Trap Lake Sanitary District is proposing to conduct an aluminum sulfate (alum) application to the waters of Bear Trap Lake in Polk County. This lake management procedure has been recommended in a previous Lake Management Planning Grant project report as a method to decrease the level of late summer phosphorus concentrations in the lake due to the in-lake recycling of nutrients from the bottom sediments. The alum will be applied to the lake surface via a barge with surface application spray bars.</p> <p>This grant application proposes treating two lake areas; (1) the area with water depth of 5 to 15 feet is proposed to be treated with a dosage rate of 5.1 ppm alum, and (2) the lake area with depths of greater than 15 feet to be treated at a dosage rate of 40 g. alum/ sq. m.. The Department of Natural Resources has determined that the treatment of the 5 to 15 foot depth area is ineligible for Lake Protection Grant cost sharing, because of a review panel consensus opinion that the effectiveness of alum for controlling phosphorus release from shallow, oxic lake sediments has not been well documented.</p> <p>The application of alum will be restricted to a time period from July 15 to freeze up and the Lake Wapogasset & Bear Trap Lake Sanitary District must notify the Department of their treatment plans at least two days prior to application. The District must submit a report to the Department, after treatment, detailing the time of treatment, locations covered, rate of treatment, and total amount of alum applied.</p>	09/01/1999		COMPLETE
Lake Management Plan Development	10100113	09/01/1999		PROPOSED

Monitoring Stations

Station ID	Name	Comments
493122	Bear Trap Lake - Deep Hole	

Assessment Units

WBIC	Segment	Local Name	Official Name
2618100	1	Bear Trap Lake	Bear Trap Lake

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
06/15/2000 10:00	COMPLETE	BT-0-2	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:03	COMPLETE	BT-2-4	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:06	COMPLETE	BT-4-6	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:09	COMPLETE	BT-6-8	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:12	COMPLETE	BT-8-10	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:15	COMPLETE	BT-10-12	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:18	COMPLETE	BT-12-14	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:21	COMPLETE	BT-14-16	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:24	COMPLETE	BT-16-18	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:27	COMPLETE	BT-18-20	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:30	COMPLETE	BT-20-22	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:33	COMPLETE	BT-22-24	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:36	COMPLETE	BT-24-26	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:39	COMPLETE	BT-26-28	493122	Bear Trap Lake - Deep Hole
06/15/2000 10:42	COMPLETE	BT-28-30	493122	Bear Trap Lake - Deep Hole

Documents

Title	Description	Author	Published	Comments
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Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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