Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-052 (4017-01)

Name: CLOVER LEAF LAKES PROTECTIVE ASSOCIATION: Round Lake Management Planning

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 4/2/1991 **End Date:** 6/30/1993

Purpose: 1) Review existing data on lake and watershed to define data gaps and assess data gathering needs. 2) Initiate public

involvement/information by workshops, public meetings, newsletters, fact sheet, and local media.3) Conduct water quality monitoring at one site as described in the application. 4) Collect and analyze one winter sample for phophorus, total Kjeldahl nitrogen, NO3-NO2, and ammonia nitrogen.5) Conduct a macrophyte survey as described in application. 6) Prepare base map of lake and watershed containing land use information including soil disturbing land uses, nonpoint pollution problems, and environmentally sensitive areas.7) Include in final lake management plan summary of data gathered, public involvement

activities, aquatic plant survey, base and land use maps, and management recommendations.

Objective:

Comments:
Outcome:

Study Design:

QA Measures:

People							
Name	Role	Status	Start Date	End Date	Organization	Comments	
Cloverleaf Lakes Protective As	GRANT_RECIPI ENT	ACTIVE	4/2/1991	6/30/1993	Cloverleaf Lakes Protective Association		

Project Statuses

I	Date	Reported By	Status	Comments

Actions					
Action	Detailed Description	Start Date	End Date	Status	
Watershed Mapping or Assessment	10100515	4/2/1991		PROPOSED	
Hold Workshops	10100515	4/2/1991		PROPOSED	

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Grant Awarded		1) Review existing data on lake and watershed to define data gaps and assess data gathering needs. 2) Initiate public involvement/information by workshops, public meetings, newsletters, fact sheet, and local media.3) Conduct water quality monitoring at one site as described in the application. 4) Collect and analyze one winter sample for phophorus, total Kjeldahl nitrogen, NO3-NO2, and ammonia nitrogen.5) Conduct a macrophyte survey as described in application. 6) Prepare base map of lake and watershed containing land use information including soil disturbing land uses, nonpoint pollution problems, and environmentally sensitive areas.7) Include in final lake management plan summary of data gathered, public involvement activities, aquatic plant survey, base and land use maps, and management recommendations.	4/2/1991		COMPLETE
Informational Meetings		10100515	4/2/1991		PROPOSED
Develop/Distribute News	sletter	10100515	4/2/1991		PROPOSED
Lake Management Plan	Development		4/2/1991	6/30/1993	PROPOSED
Data analysis, report pro	duction	10100515	4/2/1991		PROPOSED
Aquatic Plant Monitoring	or Survey		4/2/1991	6/30/1993	PROPOSED
Monitor Water Quality or	Sediment	10100515	4/2/1991		PROPOSED
Monitoring Stations					
Station ID	Name	Cor	nments		

Monitoring Stations		
Station ID	Name	Comments

Assessment Units						
WBIC	Segment	Local Name	Official Name			
299300	1	Round Lake (Cloverleaf Chain)	Round Lake			

299300	1	Round Lake (Cloverleaf Chain)	Round Lake		
Lab Account Code	es				
Account Code	Descript	ion		Start Date	End Date

Forms	
Farma	

Documents

Methods	
Method Code	Method Description

Fieldwork Events					
Start Date	Status	Field ID	Station ID	Station Name	

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Title	Description	Author	Published	Comments
Lake Management Plan - Round Lake - Shawano County, Wisconsin	Round Lake, Shawano County, is the upper, smallest and deepest (on average) lake of a three lake "chain" known as the Cloverleaf Lakes. Groundwater is a primary source of inflow to the chain. This, combined with a primarily wooded watershed for the chain, results in a relatively low potential for sediment and nutrient input. Because of its small size, somewhat restricted access, and "no wake" speed limit, this lake receives comparatively lower use than the other lakes (Grass and Pine) in the chain. Water quality was fair to good for all parameters measured; transparency, nutrients and chlorophyll ~~ indicated a mesotrophic status. The lake stratified during summer and exhibited high nutrient levels and near-anoxic conditions below the thermocline. Event samples collected on the north shore of the lake showed significantly higher (than in-lake) nutrient (and probably sediment) input to Round Lake. Macrophyte growth is restricted to a narrow littoral zone which makes up only 10% of the lake area and appears to benefit the fishery resource through forage production. A predominantly softer (muck) substrate may cause compositional differences from those macrophyte assemblages observed in Grass and Pine Lakes. Overall management objectives for Round Lake should emphasize protection and improvement/enhancement of existing good water and high aesthetic quality.	IPS Environmental Services	6/30/1992	

Budget

Combined Budgets: Combined WSLH:

Combined Total: \$0.00

Funding					
Organization	Source	Туре	Amount	Start Date	End Date