

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** SPL-136-07  
**Name:** BIG ROUND LAKE PROTECTION AND REHAB DISTRICT: Sediment & Core Analysis Project  
**Type:** Lakes Grant  
**Subtype:** Small Scale Lake Planning  
**Status:** COMPLETE  
**Start Date:** 04/01/2007  
**End Date:** 12/31/2007  
**Purpose:** The Big Round Lake Protection and Rehabilitation District will conduct a project to analyze a sediment core from the deep area of Big Round Lake. The analysis of this sediment core may help to evaluate the history of water quality in the lake and possibly help in making the following determinations: 1) Determine impact of installation of the dam on the lake's ecosystem. 2) Determine changes in nutrients during the last 130 yrs. 3) Determine if the frequency of algal blooms has increased during the last century, and 4) Determine if the macrophyte growth has changed during the last century.

Project deliverables include a final report detailing the findings of the core analyses and a listing of any past significant water quality or lake ecosystem "changes" that are revealed from this analyses. The project results will be disseminated to the public by newsletter(s), public meeting(s), and local newspaper articles.

This scope is intended to summarize the detailed project scope provided in the application and does not supersede those application tasks/deliverables. Data, records, and reports, including GIS-based maps and digital images, must be submitted to the Department in a format specified by the regional Lake Coordinator. Grantee or consultant shall provide DNR Lake Coordinator with a draft for comment on report adequacy prior to making final payment to the consultant. DNR shall receive both paper and electronic copies of the final report along with, or prior to submission of grantee's final payment request.

**Objective:**  
**Comments:** Grantee is BIG ROUND LAKE PROTECTION AND REHAB DISTRICT  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Big Round Lake Protection &	GRANT_RECIPII	ACTIVE	04/01/2007	12/31/2007	Big Round Lake Protection & Rehabilitation Distric	

### Project Statures

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
Monitor Paleocore	One core collected from Big Round Lake with a piston core. Diatom analysis was done.	09/28/2006	09/28/2006	COMPLETE

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Action	Detailed Description	Start	End Date	Status
Grant Awarded	<p>The Big Round Lake Protection and Rehabilitation District will conduct a project to analyze a sediment core from the deep area of Big Round Lake. The analysis of this sediment core may help to evaluate the history of water quality in the lake and possibly help in making the following determinations: 1) Determine impact of installation of the dam on the lake's ecosystem. 2) Determine changes in nutrients during the last 130 yrs. 3) Determine if the frequency of algal blooms has increased during the last century, and 4) Determine if the macrophyte growth has changed during the last century.</p> <p>Project deliverables include a final report detailing the findings of the core analyses and a listing of any past significant water quality or lake ecosystem "changes" that are revealed from this analyses. The project results will be disseminated to the public by newsletter(s), public meeting(s), and local newspaper articles.</p>	04/01/2007	12/31/2007	COMPLETE
Grant Awarded	<p>The Big Round Lake Protection and Rehabilitation District will conduct a project to analyze a sediment core from the deep area of Big Round Lake. The analysis of this sediment core may help to evaluate the history of water quality in the lake and possibly help in making the following determinations: 1) Determine impact of installation of the dam on the lake's ecosystem. 2) Determine changes in nutrients during the last 130 yrs. 3) Determine if the frequency of algal blooms has increased during the last century, and 4) Determine if the macrophyte growth has changed during the last century.</p> <p>Project deliverables include a final report detailing the findings of the core analyses and a listing of any past significant water quality or lake ecosystem "changes" that are revealed from this analyses. The project results will be disseminated to the public by newsletter(s), public meeting(s), and local newspaper articles.</p>	04/01/2007		COMPLETE

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
2626900	3	Straight River	Straight River
2627400	1	Big Round Lake	Big Round Lake

### Lab Account Codes

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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
Paleoecological Study of Big Round Lake, Polk County	PUB-SS-1034 2007. Final Report. "A sediment core was collected from the lake on 28 September 2006...The core was dated by the 210Pb method and the CRS model used to estimate dates and sedimentation rate. The diatom community was analyzed to assess changes in nutrient levels and changes in the macrophyte community and geochemical elements were examined to determine the causes of changes in the water quality."	Paul J Garrison And Gina Laliberte	10/31/2007	

### Budget

Combined Budgets:  
 Combined SLOH:  
 Combined Total:

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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