

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: LPL-913-04

Name: DESAIR LAKE RESTORATION, INC.: Lake Desair In-Lake Study

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 10/1/2003

End Date: 6/30/2006

Purpose: Desair Lake Restoration Inc. will conduct a series of analyses to assess the significance of internal nutrient loading relative to external loading to assist in evaluating future lake management alternatives for Desair Lake in Barron County.

The USGS will delineate the lake watershed, conduct in-lake, tributary and groundwater water quality monitoring and collect lake stage data. Cedar Corporation will map and characterize watershed landuse including sensitive and habitat areas and the location of recently installed best management practices and conduct a sociological survey of recreational uses and the public's understanding of lake issues.

Specific deliverables for this grant project include: 1) A water quality data summary report from the USGS provided to the Lake District including a comparison between herbicide and nonherbicide treatment years. 2) USGS will publish water quality data in their annual reports. 3) A report summarizing all project results including the watershed evaluation and sociological survey.

The project results will be disseminated to the public by newsletter(s), public meeting(s), and local newspaper articles.

Objective:

Comments: Grantee is DESAIR LAKE RESTORATION, INC.

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Desair Lake Restoration, Inc.,	GRANT_RECIPIENT	ACTIVE	10/1/2003	6/30/2006	Desair Lake Restoration, Inc.	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Watershed Mapping or Assessment		10/1/2003	6/30/2006	PROPOSED
Social Survey of Residents or Users		10/1/2003	6/30/2006	PROPOSED

Wisconsin Department of Natural Resources
SWIMS Project Summary

Grant Awarded	<p>Desair Lake Restoration Inc. will conduct a series of analyses to assess the significance of internal nutrient loading relative to external loading to assist in evaluating future lake management alternatives for Desair Lake in Barron County.</p> <p>The USGS will delineate the lake watershed, conduct in-lake, tributary and groundwater water quality monitoring and collect lake stage data. Cedar Corporation will map and characterize watershed landuse including sensitive and habitat areas and the location of recently installed best management practices and conduct a sociological survey of recreational uses and the public's understanding of lake issues.</p>	10/1/2003		COMPLETE
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Monitoring Stations

Station ID	Name	Comments
10037798	Desair Lake Piezometer No 1	
10039835	Desair Lake Piezometer No 2	
10037797	Desair Lake Piezometer No 4	
10035005	E Trib to Lake Desair (USGS 053674033)	
033159	Lake Desair at Deepest Point	
10035003	NW Tributary to Desair Lake (USGS 053674031)	
10035004	SW Tributary to Lake Desair	

Assessment Units

WBIC	Segment	Local Name	Official Name
2104500	1	Lake Desair	Lake Desair
5005371	1	West Tributary to Desair Lake	Unnamed
5005557	1	South Trib to Lake Desair	Unnamed

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	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
8/17/2004 9:30	COMPLETE	B-D	033159	Lake Desair at Deepest Point
8/17/2004 9:30	COMPLETE	TOP-D	033159	Lake Desair at Deepest Point

Wisconsin Department of Natural Resources SWIMS Project Summary

8/17/2004 9:35	COMPLETE	THERM-D	033159	Lake Desair at Deepest Point
8/17/2004 9:40	COMPLETE	HYP-D	033159	Lake Desair at Deepest Point
8/17/2004 9:45	COMPLETE	MH-D	033159	Lake Desair at Deepest Point
8/17/2004 10:45	COMPLETE	PZ-1	10037798	Desair Lake Piezometer No 1
8/17/2004 11:25	COMPLETE	PZ-2	10039835	Desair Lake Piezometer No 2
8/17/2004 12:25	COMPLETE	PZ-4	10037797	Desair Lake Piezometer No 4
3/29/2005 17:00	COMPLETE	DESAIR SW	10035004	SW Tributary to Lake Desair
3/29/2005 17:30	COMPLETE	DESAIR NW	10035003	NW Tributary to Desair Lake (USGS 053674031)
3/29/2005 18:10	COMPLETE	DESAIR E	10035005	E Trib to Lake Desair (USGS 053674033)
3/30/2005 17:00	COMPLETE	DESAIR NW	10035003	NW Tributary to Desair Lake (USGS 053674031)
3/30/2005 17:30	COMPLETE	DESAIR SW	10035004	SW Tributary to Lake Desair
3/30/2005 17:50	COMPLETE	DESAIR E	10035005	E Trib to Lake Desair (USGS 053674033)
5/20/2005 11:30	COMPLETE	D-1	10035003	NW Tributary to Desair Lake (USGS 053674031)
5/20/2005 12:40	COMPLETE	D-2	10035005	E Trib to Lake Desair (USGS 053674033)
5/20/2005 13:00	COMPLETE	D-3	10035004	SW Tributary to Lake Desair
6/8/2005 8:30	COMPLETE	SW DESAIR	10035004	SW Tributary to Lake Desair
6/8/2005 9:15	COMPLETE	DNWT	10035003	NW Tributary to Desair Lake (USGS 053674031)
6/8/2005 10:10	COMPLETE	DET	10035005	E Trib to Lake Desair (USGS 053674033)
9/22/2005 7:50	COMPLETE	SWT	10035004	SW Tributary to Lake Desair
9/22/2005 8:10	COMPLETE	NWT	10035003	NW Tributary to Desair Lake (USGS 053674031)
10/4/2005 12:40	COMPLETE	SW	10035004	SW Tributary to Lake Desair
10/4/2005 13:00	COMPLETE	NW	10035003	NW Tributary to Desair Lake (USGS 053674031)
10/4/2005 13:50	COMPLETE	ET	10035005	E Trib to Lake Desair (USGS 053674033)
10/4/2005 21:00	COMPLETE	106	10035003	NW Tributary to Desair Lake (USGS 053674031)
10/4/2005 23:00	COMPLETE	107	10035003	NW Tributary to Desair Lake (USGS 053674031)
10/5/2005 9:30	COMPLETE	DSW2	10035004	SW Tributary to Lake Desair
10/5/2005 10:25	COMPLETE	NW2	10035003	NW Tributary to Desair Lake (USGS 053674031)
10/5/2005 11:05	COMPLETE	ET2	10035005	E Trib to Lake Desair (USGS 053674033)
10/13/2005 10:00	COMPLETE	101	10035003	NW Tributary to Desair Lake (USGS 053674031)
10/13/2005 10:40	COMPLETE	102	10035003	NW Tributary to Desair Lake (USGS 053674031)

Documents

Wisconsin Department of Natural Resources
SWIMS Project Summary

Title	Description	Author	Published	Comments
Desair Lake Management Report of Activities August 2003-May 2006	The Lake Management Planning Grant, also a cost share with DLR, has completed a study you are about to read. We look to this report for recommendations. Desair Lake Restoration has plenty to do: We have constant monitoring of water quality, destructive construction on the watershed, and the watch for exotic invasive species. Farmers will work to keep the nutrients on the fields where they want them. Poorer fields for farming will continue to grow back to forest. And in this process we gather for picnics and fundraisers, to talk and plan, to walk the trails and meet on the lake in our boats. It is this joining together that adds meaning and joy to our work. When the sediment slows to near presettlement levels, we may then dream of clear water again.	Cedar Corporation	6/30/2006	
Results of Sediment Cores Taken From Lake Desair, Barron County, Wisconsin	On 8 July 2004 cores were taken from three locations in Desair Lake. In summary, the diatom community indicates that Lake Desair has undergone a large change in water quality during the last 100 years. There has been a large increase in nutrients, especially phosphorus, a decline in water color, and an increase in alkalinity. These changes are likely the result of agricultural activities in the watershed. These changes resulted in the increased delivery of phosphorus and sediment from the watershed which caused higher nutrient levels and more solids (alkalinity) in the lake.	Paul Garrison, Wisconsin DNR	1/31/2006	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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