

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: LPL-939-04

Name: BLAKE LAKE PROTECTION & REHABILITATION DIST: Big Blake Aquatic Plant & Invertebrate Monitoring Project

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 4/1/2004

End Date: 12/31/2005

Purpose: The Blake Lake Protection and Rehabilitation District will assess and characterize the current seasonal changes in the aquatic plant community structure, littoral aquatic macroinvertebrate community structure, and shoreline land use for Blake Lake in Polk County. The current aquatic plant community will be compared with previous data. An updated aquatic plant management plan will be developed including a comprehensive management strategy focusing on the control and prevention of exotic plants and enhancing the native plant community. All aquatic plant transect data including reporting the Relative Abundance & Frequency of Occurrence and other basic statistics including the Floristic Quality Index, will be summarized and reported in table format in the final report.

Aquatic macroinvertebrate monitoring will be conducted twice in 2004 to assess possible impacts of monotypic aquatic plant beds on the density and diversity of aquatic insects. The macroinvertebrate community structure for all samples shall be broken down to Lowest Paractical Taxonomic Unit LPTU using Hilsenhoff's most current taxonomic key for each habitat type (treated vs. untreated for the following: high density crispus beds, mixed beds, and native beds). A unit independent measure of the variability of samples coming from each specific habitat type (six in all) using the coefficient of variation reported in table format shall also be provided.

The methodology for the shoreline/riparian zone survey shall be submitted to Jim Cahow, by June 15, 2004 and summarized in the project final report. Recommendations on how to decrease negative impacts from existing shoreland management will be made to the Lake District and property owners. Shoreline restoration goals will be established, impacted shoreland areas contributing nonpoint source pollution will be prioritized and exotic species will be mapped.

Objective:

Comments: Grantee is BLAKE LAKE PROTECTION & REHABILITATION DIST

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Big Blake Lake P & R District,	GRANT_RECIPIENT	ACTIVE	4/1/2004	12/31/2005	Big Blake Lake P & R District	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Project Deliverable	Final Report	4/1/2004	12/31/2005	PROPOSED
Aquatic Plant Monitoring or Survey		4/1/2004	12/31/2005	PROPOSED
Lakes Planning Grant		4/1/2004	12/31/2005	PROPOSED

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Monitor or Assess Watershed Condition		4/1/2004	12/31/2005	PROPOSED
Grant Awarded	<p>The Blake Lake Protection and Rehabilitation District will assess and characterize the current seasonal changes in the aquatic plant community structure, littoral aquatic macroinvertebrate community structure, and shoreline land use for Blake Lake in Polk County. The current aquatic plant community will be compared with previous data. An updated aquatic plant management plan will be developed including a comprehensive management strategy focusing on the control and prevention of exotic plants and enhancing the native plant community. All aquatic plant transect data including reporting the Relative Abundance & Frequency of Occurrence and other basic statistics including the Floristic Quality Index, will be summarized and reported in table format in the final report.</p> <p>Aquatic macroinvertebrate monitoring will be conducted twice in 2004 to assess possible impacts of monotypic aquatic plant beds on the density and diversity of aquatic insects. The macroinvertebrate community structure for all samples shall be broken down to Lowest Paractical Taxonomic Unit LPTU using Hilsenhoff's most current taxonomic key for each habitat type (treated vs. untreated for the following: high density crispus beds, mixed beds, and native beds). A unit independent measure of the variability of samples coming from each specific habitat type (six in all) using the coefficient of variation reported in table format shall also be provided.</p> <p>The methodology for the shoreline/riparian zone survey shall be submitted to Jim Cahow, by June 15, 2004 and summarized in the project final report. Recommendations on how to decrease negative impacts from existing shoreland management will be made to the Lake District and property owners. Shoreline restoration goals will be established, impacted shoreland areas contributing nonpoint source pollution will be prioritized and exotic species will be mapped.</p>	4/1/2004		COMPLETE
Aquatic Plant Management Plan	The Blake Lake Protection and Rehabilitation District will assess and characterize the current seasonal changes in the aquatic plant community structure, littoral aquatic macroinvertebrate community structure, and shoreline land use for Blake Lake in Polk County.	4/1/2004	12/31/2005	COMPLETE
Watershed Mapping or Assessment		4/1/2004	12/31/2005	PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

Wisconsin Department of Natural Resources
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WBIC	Segment	Local Name	Official Name
2626900	3	Straight River	Straight River
2627000	1	Big Blake Lake (Blake)	Big Blake 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	Method 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
2004 Big Blake Lake Aquatic Plant survey Technical Report and Management Plant part 1 of 2	2004 Big Blake Lake Aquatic Plant survey Technical Report and Management Plant part 1 of 2 LPL-939-04 part 1 of 2	Aquatic Engineering	12/1/2014	
2004 Big Blake Lake Aquatic Plant survey Technical Report and Management Plant part 2 of 2	2004 Big Blake Lake Aquatic Plant survey Technical Report and Management Plant part 2 of 2 LPL-939-04 part 2 of 2	Aquatic Engineering	12/1/2014	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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