

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** LPL-1117-07  
**Name:** POLK COUNTY LWRD: Horse Lake Phase 1, Water Quality & Biological Assessment  
**Type:** Lakes Grant  
**Subtype:** Large Scale Lake Planning  
**Status:** COMPLETE  
**Start Date:** 10/01/2006  
**End Date:** 12/31/2009  
**Purpose:** The Polk County Land and Water Resources Department is integrating Horse Lake into a continuing comprehensive study of Lotus Lake. Phases 1 and 2 for Horse Lake coordinate with similar projects for Lotus Lake (LPL-1113/1114-07). These phases utilize various public education elements, including results-sharing, newsletter mailings, presentations, and report publication and will provide management recommendations.

Phase 1 project activities include: water quality monitoring (mid-lake, inflow, outflow, and turnover); tributary flow monitoring; groundwater monitoring; algal community assessment and toxin analyses; zooplankton community assessment; macrophyte mapping; macroinvertebrate assessment; and coarse woody habitat inventory.

Phase 2 project activities include: paleolimnological core collection and full-core analysis. Land use history will be compared with trophic reconstructions inferred from the sediment core to determine the impact and timing of watershed disturbances on water quality. This information will assist with determination of stable ecosystem state and development of water quality goals.

The final deliverables for this project will be a compilation of results from the various studies and a comprehensive report with management recommendations.

This scope is intended to summarize the detailed scope provided in the grant application and does not supersede grant application specifics. 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.

**Objective:**

**Comments:** Grantee is POLK COUNTY LWRD

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Polk County,	GRANT_RECIPII	ACTIVE	10/01/2006	12/31/2009	Polk County	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
Monitor Water Quality or Sediment		10/01/2006	12/31/2009	PROPOSED

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Action	Detailed Description	Start	End Date	Status
Grant Awarded	<p>The Polk County Land and Water Resources Department is integrating Horse Lake into a continuing comprehensive study of Lotus Lake. Phases 1 and 2 for Horse Lake coordinate with similar projects for Lotus Lake (LPL-1113/1114-07). These phases utilize various public education elements, including results-sharing, newsletter mailings, presentations, and report publication and will provide management recommendations.</p> <p>Phase 1 project activities include: water quality monitoring (mid-lake, inflow, outflow, and turnover); tributary flow monitoring; groundwater monitoring; algal community assessment and toxin analyses; zooplankton community assessment; macrophyte mapping; macroinvertebrate assessment; and coarse woody habitat inventory.</p> <p>Phase 2 project activities include: paleolimnological core collection and full-core analysis. Land use history will be compared with trophic reconstructions inferred from the sediment core to determine the impact and timing of watershed disturbances on water quality. This information will assist with determination of stable ecosystem state and development of water quality goals.</p> <p>The final deliverables for this project will be a compilation of results from the various studies and a comprehensive report with management recommendations.</p> <p>This scope is intended to summarize the detailed scope provided in the grant application and does not supersede grant application specifics. 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.</p>	10/01/2006	12/31/2009	COMPLETE
Develop/Distribute Newsletter		10/01/2006	12/31/2009	PROPOSED

### Monitoring Stations

Station ID	Name	Comments
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### Assessment Units

WBIC	Segment	Local Name	Official Name
2616200	1	Horse Lake	Horse Lake

### Lab Account Codes

Account Code	Description	Start Date	End Date
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## Wisconsin Department of Natural Resources SWIMS Project Summary

### 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
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### Budget

Combined Budgets:

Combined SLOH:

Combined Total:

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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