

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: LPL-005 (4005-01)

Name: CITY OF WEYAUWEGA: Weyauwega Lake Water Quality Sampling, Data Collection

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 12/20/1990

End Date: 6/30/1993

Purpose: Assemble and review existing data on the lake and watershed to define data gaps. Additional data gathering to include: a) water quality in 2 sites to include all or some of parameters in table 1 of application, b) 3 different storm sewers sampled twice and analyzed for suspended solids, total-P, ammonia N, NO3-NO2, BOD5, c) one sediment sample to be analyzed for % organics, total solids, total-P, ammonia N, Kjeldahl N. Develop and implement public involvement program. Prepare land use map for lake and watershed. Identify and evaluate existing ordinances related to non-point pollution control. Develop draft report for public review and comment. Prepare and distribute lake management plan. Information will be disseminated to the public by newsletter mailings, fact sheet distributions, public meetings, summary report mailings and local newspaper articles. The project results will be reposted at the Weyauwega City Hall and the Waupaca County Courthouse.

Objective:

Comments:

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
City of Weyauwega,	GRANT_RECIPIENT	ACTIVE	12/20/1990	6/30/1993	City of Weyauwega	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Develop/Distribute Newsletter		12/20/1990	6/30/1993	PROPOSED
Data analysis, report production	10099634	12/20/1990		PROPOSED
Informational Meetings		12/20/1990	6/30/1993	PROPOSED
Monitor Paleocore		12/20/1990	6/30/1993	PROPOSED
Watershed Mapping or Assessment		12/20/1990	6/30/1993	PROPOSED
Monitor Water Quality or Sediment	10099634	12/20/1990		PROPOSED

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Grant Awarded	Assemble and review existing data on the lake and watershed to define data gaps. Additional data gathering to include: a) water quality in 2 sites to include all or some of parameters in table 1 of application, b) 3 different storm sewers sampled twice and analyzed for suspended solids, total-P, ammonia N, NO3-NO2, BOD5, c) one sediment sample to be analyzed for % organics, total solids, total-P, ammonia N, Kjeldahl N. Develop and implement public involvement program. Prepare land use map for lake and watershed. Identify and evaluate existing ordinances related to non-point pollution control. Develop draft report for public review and comment. Prepare and distribute lake management plan. Information will be disseminated to the public by newsletter mailings, fact sheet distributions, public meetings, summary report mailings and local newspaper articles. The project results will be deposited at the Weyauwega City Hall and the Waupaca County Courthouse.	12/20/1990		COMPLETE
Lake Management Plan Development		12/20/1990	6/30/1993	PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
257400	1	Waupaca River	Waupaca River
257700	1	Weyauwega Lake	Weyauwega 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
Lake Management Plan - Weyauwega Lake - Waupaca County, Wisconsin	Weyauwega Lake, an impoundment of the Waupaca River, is located in the City of Weyauwega, Waupaca County, Wisconsin. It drains an extensive (250 sq mi) primarily open/agricultural	IPS Environmental and Analytical Services	10/31/1992	

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watershed through several inlets, as well as paved/residential areas through stormwater discharge pipes. Water quality, according to the Trophic State Index, indicated a mesotrophic to eutrophic status (with lower than expected levels of total phosphorus); total phosphorus was very high in rain event inflows. Light penetration was such that the entire lake bottom received sunlight for plant production most of the time. Aquatic plants were widespread and very abundant; coontail and common waterweed, both potentially nuisance species, were most abundant. Nuisance aquatic plant growth makes much of the lake impassible during open water months. Sedimentation in Weyauwega Lake was estimated to be relatively high (like in many impoundments) and contributes to reduced impoundment capacity and increased plant growth. Upstream areas of dense emergent and submergent vegetation help to filter sediment during periods of relatively lower flow. Management recommendations target reduction of nutrient and sediment inflows, improved recreational and aesthetic values, and improvement of wildlife and fishery habitat:

- Water quality monitoring should be continued on a similar schedule to track trends; event and Self-Help monitoring should be continued to further assess stormwater inputs.
- Riparian land use practices, including fertilizer, sediment and runoff management, should be encouraged.
- Effective localized macrophyte harvest should be implemented to improve access and maximize edge.
- Use zones (upstream E. downstream) should be considered.
- The feasibility of stormwater discharge reduction or redirection should be assessed.
- Efforts to establish the Waupaca River Watershed as a priority watershed should continue to facilitate implementation of Best Management Practices (BMPs) throughout the watershed.
- Dredging options may be addressed, but only after a

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	watershed-wide erosion control plan is designed.			
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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