

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: LPL-004 (4004-01)

Name: VILLAGE OF GRESHAM: Upper Red Lake & Watershed Data Collection, Lake Monitoring

Type: Lakes Grant

Subtype: Large Scale Lake Planning

Status: COMPLETE

Start Date: 12/20/1990

End Date: 12/31/1991

Purpose: Assemble and review existing data on the lake and watershed. Define data gaps from the above and agter additional data to include: a) water quality sampling at 3 sites for all or some of the parameters in table 1 of the allpication, b) sediment sample tobe 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 through newsletter mailings, fact sheet distributions, public meetings, local newspaper articles, TV/radio spots(if possible). Project results will be repositied at: Town Halls (Herman and Red Springs), Village Hall (Gresham) and County Courthouse (Shawano).

Objective:

Comments: Grantee is VILLAGE OF GRESHAM

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Village of Gresham,	GRANT_RECIPIENT	ACTIVE	12/20/1990	12/31/1991	Village of Gresham	

Project Statuses			
Date	Reported By	Status	Comments

Actions				
Action	Detailed Description			Status
Watershed Mapping or Assessment				PROPOSED

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Grant Awarded	Assemble and review existing data on the lake and watershed. Define data gaps from the above and agter additional data to include: a) water quality sampling at 3 sites for all or some of the parameters in table 1 of the allpication, b) sediment sample tobe 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 through newsletter mailings, fact sheet distributions, public meetings, local newspaper articles, TV/radio spots(if possible). Project results will be repositied at: Town Halls (Herman and Red Springs), Village Hall (Gresham) and County Courthouse (Shawano).	12/20/1990		COMPLETE
Data analysis, report production	10100593	12/20/1990		PROPOSED
Lake Management Plan Development		12/20/1990	12/31/1991	PROPOSED
Monitor Water Quality or Sediment	10100593	12/20/1990		PROPOSED

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
329900	1	Red Lake, Upper (Gresham Pond)	Upper Red 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, Upper Red Lake, Shawano County, Wisconsin	Upper Red Lake, Shawano County, Wisconsin, is an impoundment created by construction of a hydroelectric dam on the Red River in 1880. Impoundments, compared to natural	IPS Environmental and Analytical Services	5/31/1992	

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lakes, drain relatively large watersheds, have relatively low residence times (exhibit periodic flushing), have extensive shelf areas and are continually affected by flow conditions of the parent river. The Red River drains a primarily forested watershed, and Upper Red Lake, therefore, is subject to lower potential sediment and nutrient inflow than it would be in an agricultural watershed. Upper Red Lake water quality is generally good with minimal sedimentation in the main river channel. Extensive shallow shelf areas (as related to original basin morphometry and long-term sediment deposition) are silt covered and support abundant macrophyte growth. Rain event samples suggest substantial sediment and nutrient inputs from the immediate area. Management objectives should emphasize enhancement of aesthetic and recreational potential and minimization of the comparatively high "aging" potential (relative to sediment and nutrient input) of impounded ecosystems. Common-sense riparian landowner applications and control of agricultural runoff should be implemented in areas adjacent to the lake to maintain or enhance good existing water quality. Near-term macrophyte control should be localized applications of different methods with emphasis on improvement of accessibility and fishery habitat enhancement; these procedural alternatives should be closely evaluated relative to long-term implications regarding cost-effectiveness and potential negative effects including competitive advantages of nuisance or exotic plants. Specific near-term recommendations for Upper Red Lake are:

- Riparian landowner diligence relative to septic system upkeep, yard practices and creation of buffer strips
- Identification and control of non-point sources of nutrients and sediment entering the lake, emphasis should be given to adjacent agricultural areas
- Localized application of macrophyte

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harvest alternatives to create access lanes and "edge effect" - Follow-up evaluation of macrophyte control areas with respect to cost-effectiveness (time or cost/area), time frame efficiency (duration of effect) and potential of invasion of cut areas by nuisance or exotic species

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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