

I. Introduction

II. Three Contexts of Lake and Watershed Planning

A. Ecological Context

1. Components of Whitefish Lake Ecosystem

- a. Palegic Area**
- b. Shorelines and Shallows**
- c. The Watershed**

2. Lake Water Quality

- a. Methods of Measuring**
- b. Status and Trends**
- c. Future Considerations**

3. Lake Ecology

- a. Nutrients, Energy and Productivity**
- b. Plankton**
- c. Macrophytes**
- d. Palegic Fishery**
- e. Riparian Fishery**
- f. Future Considerations**

4. Riparian Ecology

- a. Annuals and Perennials**
- b. Woody Plants**
- c. Wildlife**
- d. Future Considerations**

5. Watershed Ecology

- a. Forests**
- b. Barrens/Savannah**
- c. The Built Environment**
- d. Future Considerations**

B. Socioeconomic Context

1. History of Settlement in Whitefish Lake Area

- a. Tribal Period**
- b. Timber Clearing**
- c. Early Settlement**
- d. Post-war Period**

2. Patterns of Lakeshore Development

- a. Changes Over Time**
- b. Differences Around the Lake**

3. Human Activities In and Around the Lake

- a. Whitefish Lake as Respite**
- b. Whitefish Lake as Home**
- c. Whitefish Lake as Recreation**

4. Whitefish Lake and the Local Economy

- a. Tourism and Recreation**
- b. Real Estate**
- c. Forestry**

5. Political Dimensions of Land in the Whitefish Lake Area

WHITEFISH LAKE WATERSHED MANAGEMENT PLAN
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- a. Land as a Commodity**
- b. Seasonal and Year Round Residents**
- c. Paradox of the Drawbridge**

C. Institutional Context

1. Federal and State Government

- a. Pubic Trust Doctrine and Clean Water Act**
- b. US Geological Survey**
- c. The Wisconsin DNR**
- d. Wisconsin Department of Commerce**

2. County Government

- a. County and Shoreland Zoning**
- b. County Forest**
- c. County Land and Water Conservation Programs**

3. Town Government

- a. Relations in County Zoning**
- b. Local Roads**

4. Whitefish Lake Conservation Organization

- a. History**
- b. Development**
- c. Present and Future**

5. Additional Institutions

- a. WWLT**
- b. Douglas County Association of Lakes and Streams**

c. Friends of the Bird Sanctuary

d. Others

III. Strategies for Lake and Watershed Ecosystem Management

A. Golden Rule of Ecosystem Management

1. Types and Ranges of Variation

2. Resiliency

B. Understanding Diversity and Disturbances

1. Disturbance and the Pine Barrens

2. Diversity in Whitefish Lake

C. Preserving and Building Ecological Resilience

1. Pathology of Natural Resource Management

2. Embracing Natural Disturbances

D. Precautionary Principles

1. Shoreland Development

2. Invasive Species

E. Adaptive Management

1. Shallow Water Habitat

2. Fisheries

3. Watershed Forests and Vegetation

F. Management of Lake Recreation

G. Social and Political Considerations

1. Building Awareness and Understanding

2. Cooperation

H. Institutional Resilience

1. Networking and Communication

2. Assessing Policies

3. Learning and Experimenting

IV. Framework for Decisions and Action

A. Short-term Strategies (1-5 years)

B. Medium-term Strategies (6-10 years)

C. Long-term Strategies (10-100 years)