

# Honeoye Lake Watershed Management Plan



**Public Information Meeting  
July 24, 2007**

# Meeting Agenda

- **Role of Honeoye Lake Watershed Taskforce**
- **Role of NYS Department of State**
- **Technical Data (Chapters 1-3)**
- **Analysis of Local Laws and BMP's (Chapter 4)**
- **Recommendations (Chapter 5-6)**
- **Questions / Comments from Public**

# Honeoye Lake Watershed Taskforce (HLWTF)

- Formed in 1998
- Purpose
  - Protect and Improve the Water Quality of Honeoye Lake
- Voting Members
  - Randy Pawley, Richmond Town Supervisor
  - Bonnie Drake, Canadice Town Supervisor
  - Dan Marshall, South Bristol Town Supervisor
  - Al Favro, Bristol Town Councilman
  - Phil Faber, Naples Representative
  - Jack Starke, Honeoye Valley Association

# Techniques Used by HLWTF

- **Scientific Data Collection**
  - Compiled historical data
  - Lake and Tributary Testing
- **Education**
  - Honeoye Lake Book
  - Workshops
- **Implementation**
  - Best Management Practices
  - Model Regulations

# Watershed Management Plan (WMP)

- Goals
- What?
- History

# Goals

- **Improve water quality of Honeoye Lake**
- **Protect Honeoye Lake Watershed natural resources**
- **Protect the quality of life enjoyed by residents**
- **Improve water dependent recreational opportunities**
- **Retain and attract business, improving local economic development opportunities**

# What?

- **Characterizes lake and watershed**
- **Compilation of scientific data**
- **Identify impact of local laws & BMP's**
- **Identify threats to water quality**
- **Recommend solutions**
- **Develop prioritized action plan**

# History

- **HLWTF formed in 1998**
- **Received grant from NYS-DOS – April 2005**
- **Created initial WMP- November 2005**
- **Expanded WMP to meet State guidelines- August 2007**

# **NYS Department of State Division of Coastal Resources**

Stephanie Wojtowicz

**Chapters 1-3**

**Technical Data**

# Perceived Lake Problems



Cause - Excessive Nutrients



# Land Use and Land Cover

- **Natural community types - 82.2%**
  - **Forests 73.3%**
- **Cultural cover types - 17.8%.**
  - **Mowed Lawns 5.9%**
  - **Conifer Plantations 5.2%**
  - **Cropland 4.3%**
- **Protected Lands - 20.4%**
  - **NYSDEC Wildlife Management Area**
  - **Hollister Spencer State Park**
  - **Cumming Nature Center**
  - **FLLT's Wesley Hill Nature Preserve**
  - **FLCC Muller Field Station**
  - **Nature Conservancy Boy Scout Camp**

# Streams and Subwatersheds

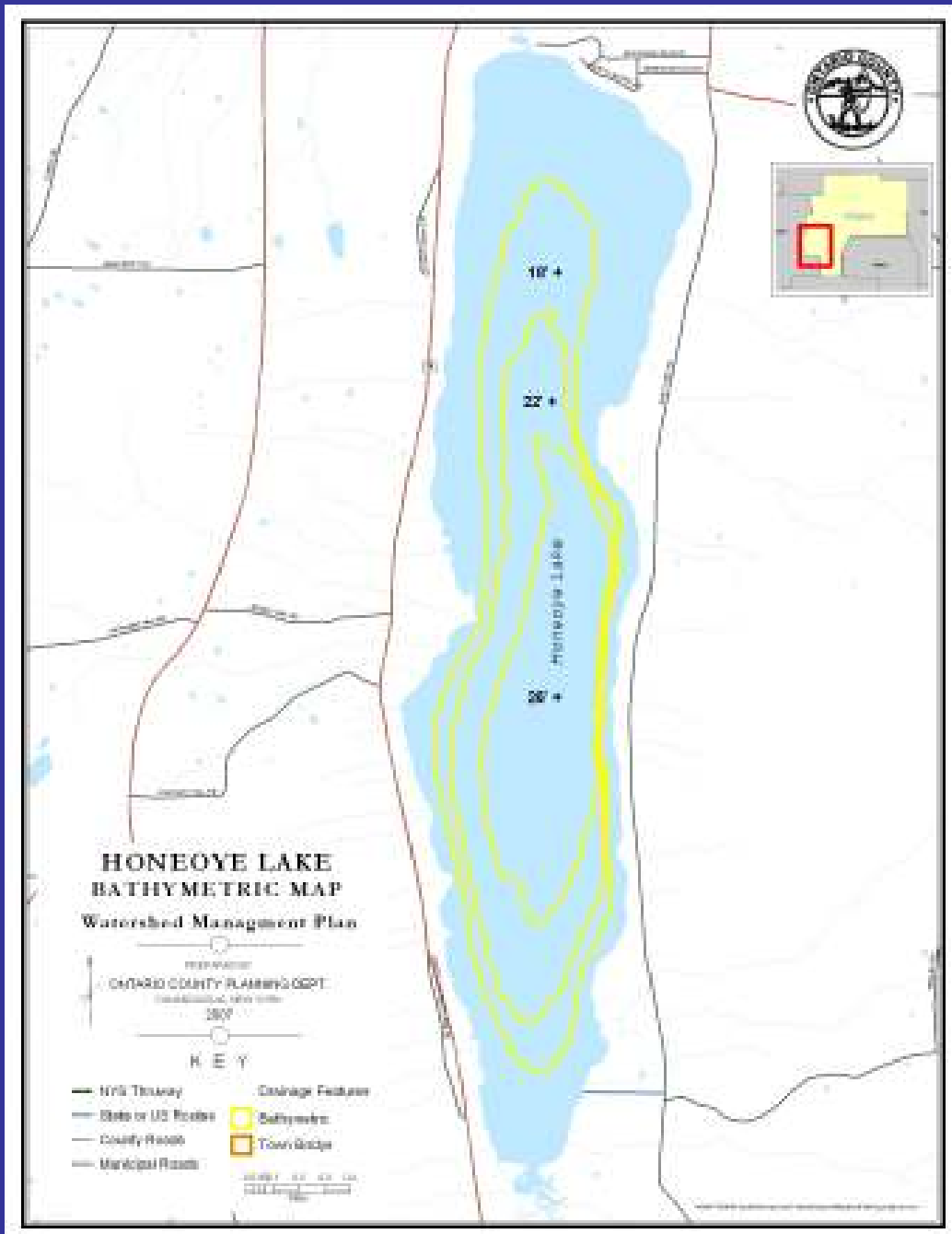
- **Total of 35 intermittent and perennial streams**
  - **4 Major tributaries (67.6%)**
    - Honeoye Inlet (43.6%)
    - Briggs Gully (12.8%)
    - Bray Gully (4.7%)
    - Affolter Gully (6.5%)
    - Times Union Creek (2.7%)
  - **Minor tributaries and DD (22.2%)**
  - **Direct Precipitation on Lake (7.4%)**

# Human Characteristics

- **2000 Census -2772**
  - 1 person/ 11 acres
- **Summer Population -4500**
- **650 homes on 10.6 miles of shoreline**
  - 86 ft. shoreline / property
- **1000 homes with lake access**
- **1100 resident power boats**

# Lakefront Real Estate

- **\$132 million**
  - Richmond \$ 86.6 million
  - Canadice \$ 44.7
- **43% of Richmond Total Residential Assessment**
- **41% of Canadice Total Residential Assessment**



# Honeoye Lake

# Lake Characteristics

- Shoreline in towns of Richmond and Canadice
- Lake Statistics
  - Area -1805 acres
  - Length - 4.1 miles
  - Average width - 0.7 miles
  - Maximum depth - 30.2 feet
  - Mean level 803.5 feet above sea level
- Most eutrophic (biologically productive) of the Finger Lakes
- Healthy warm water fishery

# Sources of Erosion



# Sources of Nutrient Loading

External Loading Sources	kg TP / year	Total Yearly %	Peak Summer %
Watershed Loading	2,546.7		
Other (Septic, Atmosphere, Water Fowl, etc.)	694.8		
<b>Total External Load</b>	<b>3,241.5</b>	<b>60</b>	<b>10</b>
<b>Internal Loading Sources</b>			
Anoxic Sediment	1,652.0		
Other (Oxic sediment, Decomposition)	520.3		
<b>Total Internal Load</b>	<b>2,172.3</b>	<b>40</b>	<b>90</b>
<b>Total Load</b>	<b>5,413.8</b>	<b>100</b>	<b>100</b>

# Assessments of Local Laws and Practices

- Local Laws Assessment Overview
- Assessment Categories
- Specific Recommendations

# Local Laws Assessment Overview

- **General land use regulation inventory**
  - **Three primary building blocks of land use control in New York State**
    - **comprehensive plan**
    - **zoning**
    - **subdivision regulation**

# Basic Land Use Law Inventory

Town of...	County	Comp. Plan?	Date	Zoning?	Date	Sub-division?	Date
<i>Bristol</i>	Ontario	No*	--	Yes	<b>2000</b>	Yes	<b>2000</b>
<i>Canadice</i>	Ontario	Yes	<b>1999</b>	No**	<b>1998</b>	Yes	<b>1999</b>
<i>Naples</i>	Ontario	Yes	<b>2002</b>	Yes	<b>1997</b>	Yes	<b>1992</b>
<i>Richmond</i>	Ontario	Yes	<b>2004</b>	Yes	<b>2006</b>	Yes	<b>2000</b>
<i>South Bristol</i>	Ontario	Yes	<b>2000</b>	Yes	<b>2003</b>	Yes	<b>1994</b>
<i>Springwater</i>	Livingston	No	--	No	--	No	--
<i>Average Age of Document (in years since 2007)</i>			<b>5.75</b>		<b>6.2</b>		<b>10</b>

\*Bristol Comprehensive Plan was adopted in mid-2007 and was not part of this analysis

\*\*Site Plan Review in place

# Assessment Categories

- Development
- Forestry and Agriculture
- Waterways and Wetlands
- Marinas
- Highways
- On-site Wastewater Systems

# Development

- **Phase II Stormwater compliance and/or consistency**
- **General training for local officials**

# Forestry and Agriculture

- **Assessment of local municipal laws will rarely identify local ordinances pertaining to ag. Activities**
- **AEM program should be encouraged**
- **Local Timber Harvesting Law within the Town of Bristol**

# Waterways and Wetlands

- Mandatory **setbacks** from streambanks and shorelines
- Recognition of the NYS Wetlands Preservation Act
- Identification and mapping of wetlands and other sensitive areas **LESS THAN** 12.4 acres
- EPOD as a useful tool to achieve these goals

# Marinas

- Target: Vessel pump-outs and invasive species
- Best Management Practices may be the appropriate approach, as opposed to local legislation
- Possible legislation may include standards applied to dock construction, steep-slope construction provisions, standards for dry-storage facilities
- Harbor Management Plan

# Highways

- Assessment included interviews with Highway Superintendents
- Practices such as ditch cleaning, right of way maintenance and winter salting methods are the most applicable to this geographic area
- Few facilities present which require serious maintenance (such as detention ponds, catch basins, etc.);
- However, road ditching is extensive and should be given strong attention

# On-Site Wastewater Treatment Systems

- Ontario County Planning Model Local Law for On-Site Individual Wastewater Treatment

# Protection and Management Recommendations

- **Habitat Protection and Management**
- **Educational and Outreach**
- **Point and Nonpoint Source Management  
and Pollution Control**

# Habitat Protection and Management

- Wetland restoration
- Riparian zone management

# Educational and Outreach

- Community outreach materials
- Homeowner stewardship programs
- School educational programs

# Point and Nonpoint Source Management and Pollution Control

- **monitoring**
- **structural and non-structural**
- **land use regulations**
  - **nutrients**
  - **onsite wastewater systems**
  - **forestry, streambank/shoreline erosion**
  - **development**
  - recreational uses
  - agriculture
  - pesticides
  - salt usage and storage
  - Spills
  - bulk storage facilities
  - Landfills
  - dumps and inactive hazardous waste sites
  - mined lands

# Implementation Strategies

- **Intergovernmental Coordination (HLWTF)**
- **Basis for Decision Making** (public option, education, science)
- **Methods Used to Implement Action Items**
- **Monitoring and Assessment**
- **Staffing**
- **Prioritized Action Plan**
- **Financing**
- **Sources of Funding**

# Methods Used to Implement Action Items

- Education and Outreach
- Land Use Regulations
- Structural Control Action
- Nonstructural Control Action

# Comments/Questions

- Take comments and questions tonight
- May submit written comments until 8-24 to HLWTF 480 N Main St. Canandaigua, NY
- HLWTF will address all comments in final version of WMP
- Honeoye Lake Watershed Management Plan available at:

[www.co.ontario.ny.us/planning/honeoye\\_lk.htm](http://www.co.ontario.ny.us/planning/honeoye_lk.htm)