

Northrup Creek/Long Pond Watershed Plan

It is anticipated that the Northrup Creek/Long Pond Watershed Plan will be completed in the summer of 2002. The following is the draft table of contents for the plan.

Table of Contents

Draft - January 22, 2002

I. Introduction:

- A. Watershed Plan Purpose
- B. Background
 - 1. Greece Ponds Findings Document Summary
 - 2. Citizen Concerns
 - 3. Government Concerns
- C. Plan Development Participants/Contributors

II. The Northrup Creek/Long Pond Watershed

- A. Watershed Delineation
- B. Land Use
 - 1. Land Use Map
 - 2. Description of Major Land Uses and Locations, Trends of New Development

III. Water Quality Infrastructure

- A. Point Source Wastewater Management in the Watershed
 - 1. Areas Served by Sanitary sewers
 - 2. Point Source Wastewater Discharges Description
- B. On-Site Wastewater Management,
 - 1. Areas Served by On-Site Wastewater Facilities
 - 2. Residential Individual Sewage Disposal Facility Complaints and Repairs, Sand Filters, and Home Treatment Plants
- C. Stormwater Runoff Management

IV. Public Consultation

V. Water Quality Problems, Pollutants, Sources and Ongoing Activities

- A. Long Pond
 - 1. Eutrophication
- B. Sources of Phosphorus to Long Pond
 - 1. Agricultural Stormwater Runoff
 - 2. Erie Canal Discharge Data
 - 3. On-Site Septic System Failures
 - 4. Recycling of Nutrients from Bottom Sediments
 - 5. Institutional Facilities with Direct Wastewater Discharges
 - 6. Phosphorus Removal at Spencerport Wastewater Treatment Facility
 - 7. Urban Stormwater Runoff
 - 8. Sources of Phosphorus by % Contribution

- C. Foaming Problem in Long Pond
 - 1. Surfactants
 - 2. Possible Causes
 - 3. Conclusions
- D. Concerns Regarding Skin Irritation associated with Long Pond
 - 1. Background
 - 2. Prevention and Remediation
- E. Northrup Creek Problems, Pollutants, and Sources
 - 1. Erosion and Sedimentation
 - 2. Causes of Erosion
- F. Additional Water Quality Monitoring Needs
- G. Ongoing Water Quality Related Activities in the Watershed
 - 1. Intermunicipal Agreement
 - 2. Sewer Feasibility Study
 - 3. Flynn Road Landfill

VI. Water Quality Goals and Objectives for Long Pond and Northrup Creek

VII. Possible New Remedial Actions

- A. Implement Impervious Surface Reduction Demonstration Project
- B. Conduct Educational Outreach Using Workshops and Road Signs
- C. Measure Suspended Solids and Phosphorus Upstream and Downstream of the Erie Canal Discharge to Northrup Creek
- D. Measure Sediment and Oxygen Demand Upstream and Downstream of the Spencerport Wastewater Treatment Plant
- E. Conduct More Cross Connection Analysis to Identify Illegal Discharges of Wastewater to Storm Drains
- F. Convert Existing Flood Control Basins to Stormwater Wetlands that Protect Water Quality
- G. Implement Alternative Methods for Discharging Canal Water to Northrup Creek in order to Minimize Siltation and Nutrient Loadings
 - 1. Install a Siphon for Discharging Water from the Erie Canal to Northrup Creek
 - 2. Implement Effort to Reduce the Discharge of Pollutants to the Erie Canal
- H. Establish Stormwater Wetland System to Treat Canal Discharge and/or Stormwater Runoff from the Village of Spencerport at the Lockwood Estates Subdivision
 - 1. On-Line Stormwater Pond/Wetland System at Lockwood Estates
 - 2. Off-Line Stormwater Pond/Wetland System at Lockwood Estates
 - 3. Determine the Feasibility of Directing Effluent from Spencerport Wastewater Treatment Plant to a Created Wetland
- I. Avoid Back Filling the Erie Canal from the Genesee River
- J. Promote Agricultural Best Management Practices
- K. Develop Spencerport West Branch Stormwater Management Pond
- L. Construct On-Stream Rock Check Dams on the West Branch of Northrup Creek

VIII. Recommendations