

Cayuga County Water Quality Management Agency

2008 Year End Report

Approved by the Cayuga County Water Quality
Management Agency on 2/5/09

2008 WQMA Membership

Chair: Gary Duckett

Vice-Chair: Eileen O'Connor

Cayuga County Legislature's Environmental Advisors:

Director of Cayuga County Planning and Economic Development

Director of Cayuga County Environmental Health

Director of Cayuga County Parks and Trails

Director of Cayuga County Soil and Water Conservation District

Cayuga County Solid Waste Management Program Administrator

Cayuga County Cooperative Extension Executive Director

Stephen Lynch

Eileen O'Connor

Gary Duckett

Ron Podolak

Bruce Natale

Doug Ververs

Non-County, Local Officials

Town of Owasco

City of Auburn

Cayuga County Association of Town Supervisors

Cayuga County Association of Villages

Edward Wagner

Anthony DeCaro/

Bruce Ross

Jack O'Neil

Harry Hinman

Representatives from Waterbody Associations in Cayuga County

Cayuga Lake Watershed Network

Duck Lake Association

Lake Como Association

Owasco Watershed Lake Association

Tri-County Skaneateles Lake Pure Waters Association

Jim Young

Dale Powell

Barb Harvey

David Kukella

Bill Hecht

Acronyms and Abbreviations

CCE: Cayuga County Cornell Cooperative Extension

CLWN: Cayuga Lake Watershed Network

CNYRPDB: Central New York Regional Planning and Development Board

City: City of Auburn

Duck: Duck Lake Association

FLI: Finger Lakes Institute

FLLOWPA: Finger Lakes Lake Ontario Watershed Protection Alliance

Health: Cayuga County Department of Health and Human Services Environmental Health Division

Highway: Cayuga County Highway Department

IAGT: The Institute for the Application of Geospatial Technology at Cayuga Community College, Inc.

IO: Cayuga Lake Watershed Intermunicipal Organization

NRCS: Natural Resources Conservation Service

NYSDEC: New York State Department of Environmental Conservation

OLWIP: Owasco Lake Watershed Inspection Program

OWLA: Owasco Watershed Lake Association

Parks: Cayuga County Parks and Trails Commission

Planning: Cayuga County Department of Planning and Economic Development

SPDES: State Pollutant Discharge Elimination System

SWCD: Cayuga County Soil and Water Conservation District

SWMO: Cayuga County Solid Waste Management Office

WQMA: Cayuga County Water Quality Management Agency

WQMA Projects**1. Maintain the WQMA Website.**

- WQMA website maintained and updated monthly.

2. Provide input to the NYSDEC regarding the impending upgrade of the Groton Wastewater Treatment Plant and the development of Groton's new SPDES permit.

- WQMA, Cayuga County Board of Health, Cayuga County Environmental Engineer and Cayuga County Legislature commented separately to the NYSDEC on their concerns with the draft SPDES permit for the Groton Wastewater Treatment Plant.
- Health sent questions to the NYSDEC regarding the Engineering Design Report for the Groton Wastewater Treatment Plant.

3. Participate in the Owasco Lake Watershed Inspection Committee

- Members of the WQMA participated in the Owasco Lake Watershed Inspection Committee.

4. Continue to participate in the future work and management of the Owasco Flats and Owasco Inlet area.

- WQMA members participated on the Owasco Flats Steering Committee.

- WQMA members commented to the Finger Lakes Land Trust on their restoration plan for the Greene Estate Property.
 - Planning received a FLOWPA Special Projects Fund Grant to conduct the “Feasibility Study and Preliminary Cost Benefit Analysis for the Owasco Inlet Channel and Owasco Flats Restoration Project.”
- 5. Continue to work on education on nutrient management and encourage development of comprehensive nutrient management plans.**
- SWCD’s Nutrient Management Specialist completed 2 new Certified Nutrient Management Plans and updated 2 existing plans.
- 6. Continue work on invasive species management.**
- CCE and Planning utilize FLOWPA grant funds to conduct invasive species education and management.
 - SWCD utilizes FLOWPA grant funds to conduct mechanical harvesting on invasive and nuisance aquatic plants.
- 7. Update the WQMA Strategy**
- Not completed.
- 8. Implement actions from watershed management plans.**
- Ongoing.
- 9. Support complimentary efforts in Cayuga County.**
- Ongoing.
- 10. Additional Work**
- Distributed copies of the updated contact list for water issues in Cayuga County to the WQMA, all the Towns and Villages in Cayuga County, and all the Code Enforcement Officers in the County.
 - WQMA members attended a meeting hosted by the Finger Lakes Institute on the NYSDEC's draft Waterbody Inventory/Priority Waterbodies List (WI/PWL). The WQMA and Health sent a comment letter on the draft WI/PWL to the NYSDEC. The WQMA also sent a comment letter to the NYSDEC for the draft TMDL listing for Owasco Lake.
 - Planning distributed the “City of Auburn and Cayuga County, NY Needs Assessment Questionnaire on Sustainable Green Planning Base Line Information” to the WQMA email list.
 - Health and Planning along with IAGT and Barry Evans from Penn State worked on the Owasco Lake Watershed Simulator Model which is a computer based simulation of loads and water quality response within the Owasco Lake Watershed.

Finger Lakes Lake Ontario Watershed Protection Alliance (FLOWPA) Funded Projects

- 1. Upgrade the Owasco Inlet Monitoring Station to USGS standards.**
- In process.

- 2. Continue monitoring of Dutch Hollow Brook and Owasco Inlet.**
 - Planning continued the monitoring of Dutch Hollow Brook and the Owasco Inlet. The monitoring stations on these tributaries monitor level and rainfall. Samples were collected during rainfall and baseflow events to analyze for total phosphorus, soluble reactive phosphorus and total suspended solids.

- 3. Continue water sampling of County Lakes with the Citizens Statewide Lake Assessment Program (CSLAP).**
 - CSLAP completed in 2008 for one site on Duck Lake and one site on Lake Como.

- 4. Continue Owasco Lake tributary nitrate and phosphorus monitoring and Duck Lake phosphorus monitoring. Continue to provide the P-Project phosphorus education program.**
 - CCE and Planning sampled Duck Lake three times over the summer after storm events and during baseflow for total phosphorus.
 - CCE sampled Owasco Lake tributaries for nitrates as well as total phosphorus three times over the summer and fall during storm events.
 - CCE developed a travel display and an educational brochure on watershed friendly lawn care.
 - CCE Eco-Talk article in The Citizen: "Lawns Need Spring Cleaning" (4/28/08).
 - Planning and CCE maintained and updated the P-Project website.

- 5. Continue to have a Cayuga County certified inspectors conduct septic system inspections as required in the Cayuga County Sanitary Code.**
 - All homes fronting Owasco Lake and Little Sodus Bay as well as all properties with septic systems in Victory, Conquest and Ledyard were required to have their septic systems inspected.
 - SWCD performed 133 dye tests in Fair Haven.
 - Database with septic system information provided to OLWIP.

- 6. Conduct streambank stabilization work on tributary/tributaries to Owasco Lake.**
 - SWCD dredged a sediment basin and stabilized a bank along Sucker Brook.

- 7. Continue to remove nuisance and invasive aquatic vegetation by mechanical harvesting.**
 - SWCD mechanically harvested aquatic vegetation from Hoopes Park Pond (40 cubic yards, ~9 lbs of phosphorus removed), Owasco Lake (540 cubic yards, ~126 lbs of phosphorus removed), Cayuga Lake (795 cubic yards, ~188 lbs of phosphorus removed), Little Sodus Bay (360 cubic yards, ~84 lbs of phosphorus removed), Otter Lake (160 cubic yards, ~37 lbs of phosphorus removed) and Lake Como (120, ~28 lbs of phosphorus removed). Total of 2,015 cubic yards and 472 pounds of phosphorus.
 - SWCD met with Bob Johnson from Cornell University to discuss aquatic weed issues in Owasco Lake.

8. Conduct education on invasive species county-wide. Also conduct hand pulling of water chestnut on Sterling Creek, Cross Lake and other waterbodies in Cayuga County as needed.

- SWCD, CCE, Parks and Planning staff removed 20 garbage bags full of water chestnut from Sterling Creek and Sterling Valley Creek. This area near Sterling Nature Center has been handpulled yearly since 2005 and is now almost completely free of water chestnut.
- CCE staff and volunteers conducted a hand pulling of water chestnut in Cross Lake and removed only a couple of plants. This area is almost free of water chestnut after handpulling yearly since 2006.
- CCE has a traveling display on water chestnut and aquatic invasive species.
- Sterling Nature Center has an educational exhibit on water chestnut in the interpretive building.
- CCE Eco-Talk articles in The Citizen: "Aquatic Plants: the Good, The Bad" (5/26/08) and "Aquatic Plants Protect Habitats" (4/14/08).

9. Continue the geese management program at the Emerson Park Beaches at the north end of Owasco Lake.

- SWCD and the Owasco Lake Watershed Inspector conducted this program with the assistance of Parks security personnel.
- SWCD and the OLWIP analyzed the geese harassment program and will present the results at a future WQMA meeting.

Agriculture

1. Assist in the development and review of Comprehensive Nutrient Management Plans and Agricultural Environmental Management Plans for farms.

- SWCD held an AEM Recognition Breakfast on April 12 at CCE Offices.
- The AEM Year IV began May 7, 2008. Cayuga County SWCD is one of few districts able to participate in the Pilot Program which provided \$75,000 in funding.
- In 2008, 13 Tier I, 8 Tier II, 7 Tier III, 2 Tier III B, 7 Tier IV, and 3 Tier V were completed as part of the Agricultural Environmental Management (AEM) program
- Fessenden Farms and SWCD were honored with the 2008 New York State AEM Award for exceptional stewardship and innovative, green practices.
- SWCD held an AEM Recognition Breakfast on April 12 at CCE to recognize the environmental stewardship of the following farms: Cuddeback Farms, Elderberry Farms, Fessenden Farms, Fleming Homestead Farms, Grand View Farm, and Patterson Farms.
- SWCD held AEM pasture walks at the Newell and Schiavi Farms.
- SWCD completed its new AEM Strategic Plan.
- SWCD and OLWIP completed the AEM Owasco Lake Watershed Map.
- The OLWIP wrote Eco-Talk Articles "Farmers take AEM", 7/21/08 The Citizen and "Manure is Essential to State's Farms", 4/21/08 The Citizen.
- SWCD held an AEM Communications, Marketing and Media Workshop in October.

2. Promote and assist in the implementation of best management practices (BMPs).

- SWCD designed 2 agrichemical mixing and loading facilities for 2 wineries in the Cayuga Lake Watershed. Some other BMPs implemented include: a BMP to address a farm runoff issue, a BMP for a heavy use area and a ditch cleanout/grassed waterway.
- SWCD worked on a Firelane 3 streambank erosion issue with landowner.

- SWCD worked with a farmer in the Owasco Lake Watershed on better methods to dispose of used bedding material.
 - SWCD designed and implemented 8 Prescribed Grazing Systems (5 in Owasco Lake Watershed, 2 in Cayuga Lake Watershed, and 1 in Seneca River Watershed).
 - SWCD installed 5 Petroleum Storage Units in the Owasco Lake Watershed and 1 in the Cayuga Lake Watershed.
 - SWCD planted, using no-till practices, 210 acres of cool season grasses and 14 acres of warm season grasses.
 - SWCD completed Conservation Mowing on 28 farms.
 - SWCD installed an animal stream crossing on a farm in the Owasco Lake Watershed.
- 3. Encourage and assist farmers in participating in state and federal programs that relate to water quality and issues. Programs include PDR (purchase of development rights), Conservation Reserve Program (CRP) and the Conservation Reserve Enhancement Program (CREP), and GrazeNY.**
- Cayuga County SWCD received New York State Agricultural Nonpoint Source Abatement & Control Program Round 14 Project Grants:
 - \$247,209 to implement three manure storage facilities on two farms in the Seneca River Watershed
 - \$105,190 for a manure storage facility on a farm in the Owasco Lake Watershed
 - \$252,787 for multiple Best Management Practices (BMPs) on five farms in the Cayuga Lake Watershed
 - \$99,760 to implement rotational grazing on seventeen farms in the Cayuga and Owasco Lakes Watersheds.
 - SWCD applied for the Good Husbandry Grant for one farm in the Owasco Lake Watershed and one farm in the Cayuga Lake Watershed.
 - Planning applied for PDR funds and NYS Ag and Markets awarded PDR funds to one farm in the Town of Springport and one in the Town of Scipio.
 - SWCD conservation mowing program of CRP lands.
- 4. Assist with hazardous waste and pesticide collection days for farms as funding is available.**
- There was no separate collection day for farms this year.
- 5. Continue with the development and use of new technologies to deal with agricultural waste.**
- SWCD continues work on the Community Methane Digester.
- 6. Continue the Lake Friendly Farms program.**
- The Cayuga Lake Watershed Network awarded Long Point Winery with a Lake Friendly Farm Award.
- 7. Miscellaneous**
- Jim Young presented information on biofuels to the WQMA. He also explained how to read nutrient analyses from his farm.
 - SWCD held a zone till demonstration at the Cuddeback Farm on April 30th.

- SWCD and OLWIP formed the Owasco Lake Watershed Agricultural Advisory Committee.
- SWCD and/or OLWIP responded to 15 agricultural-related complaints and followed up on the situations

Education

1. Provide education on water, water quality, watersheds, agriculture and related issues to schools, children and adults, including use of Project WET.

- Sheila Myers, Education Coordinator of the FLI, presented on the "My Place in the Finger Lakes" program to the WQMA. This program is working to develop a multi-disciplinary curriculum for Middle and High School Students about the Finger Lakes Region.
- CCE gave water quality lessons to two 2nd grade classes.
- CCE provided information at Dickman's Va Va Bloom on zero phosphorus fertilizer, water quality and lawn care, and IPM.
- SWCD organized Conservation Field Days in June and September. CCE had three stations at Conservation Field Days. Two were on water quality and one was on agriculture and global warming. OLWIP had a watershed-related station at both events.
- Planning organized a phosphorus free product display for the Owasco Lake meeting held at Emerson Park on July 1st. OLWIP and SWCD also participated in the meeting with displays.
- CCE provided a lawn care workshop and a composting workshop at TomatoFest in September. SWCD and OLWIP had information booths at the TomatoFest as well.
- CCE developed a traveling display and an educational brochure on watershed friendly lawn care.
- CCE has a traveling display on water chestnut and aquatic invasive species
- CCE Winter 2008 Eco-Logic Newsletter article entitled "Slippery Situation."
- Health, SWCD and the Owasco Lake Watershed Inspector met with the press to raise awareness of stormwater and erosion issues during construction.
- Health mailed information on phosphorus and on the Watershed Inspector to Owasco Lake lakefront owners.
- SWCD received the Gold Award for the "New York State AEM in the Media" Contest.
- OLWIP and SWCD gave educational presentations to OWLA and the Owasco Lakefront Homeowners' Association.
- OLWIP gave 2 public presentations about the Owasco Lake Watershed and ways to protect it.

Exotic, Invasive, Introduced and Nuisance Species Management

1. Continue existing County aquatic vegetation control program utilizing FLOWPA and County funds.

- SWCD mechanically harvested aquatic vegetation from Hoopes Park Pond (40 cubic yards, ~9 lbs of phosphorus removed), Owasco Lake (540 cubic yards, ~126 lbs of phosphorus removed), Cayuga Lake (795 cubic yards, ~188 lbs of phosphorus removed), Little Sodus Bay (360 cubic yards, ~84 lbs of phosphorus removed), Otter Lake (160 cubic yards, ~37 lbs of phosphorus removed) and Lake Como (120, ~28 lbs of

phosphorus removed). Total removal of 2,015 cubic yards and 472 pounds of phosphorus.

- SWCD met with Bob Johnson from Cornell University to discuss weed issues in Owasco Lake.
 - SWCD, CCE, Parks and Planning staff removed 20 garbage bags full of water chestnut from Sterling Creek and Sterling Valley Creek. This area near Sterling Nature Center has been handpulled yearly since 2005 and is now almost completely free of water chestnut.
 - CCE staff and volunteers conducted a hand pulling of water chestnut in Cross Lake and removed only a couple of plants. This area is almost free of water chestnut after handpulling yearly since 2006.
- 2. Continue aquatic weed control program in Duck Lake including herbicide applications and use of harvester.**
 - The Duck Lake Association applied aquatic weed control on 49 acres in Duck Lake to control water milfoil.
 - 3. Monitor and attempt control of exotic, introduced and invasive species before they become established. Includes maintaining the Weeds Watch Out Program website.**
 - “Learn to Identify and Control Invasive Water Weeds” program held by CCE at the Sterling Nature Center in June.
 - CCE held a volunteer Adopt-A-Shoreline training session in July.
 - CCE has a traveling display on water chestnut and aquatic invasive species
 - CCE Eco-Talk articles in The Citizen: “Aquatic Plants: the Good, the Bad” (5/26/08) and “Aquatic Plants Protect Habitats” (7/14/08).
 - Lake Como Association installed a boat wash station near the Lake Como Inn.
 - Sterling Nature Center has an educational exhibit on water chestnut in the interpretive building.
 - 4. Provide educational materials about treatment methods for dealing with zebra mussels in intake pipes.**
 - Health will provide educational materials at the request of landowners about how to put in intake pipes and treatment methods for dealing with zebra mussels in intake pipes.
 - 5. Continue to participate on CNY Water Chestnut Task Force and Finger Lakes Partnership for Regional Invasive Species Management (PRISM).**
 - CCE participates in a multifaceted water chestnut control program with Onondaga, Madison and Oswego Counties.
 - CCE, Planning and FLI participated in the development of the Finger Lakes PRISM.

Fish and Wildlife Management

- 1. Participate in the Southeast Lake Ontario Watershed Action Plan working group.**
 - No meetings in 2008.

Forestry

1. Provide forestry information and technical services for landowners.

- CCE educator assists in coordinating Cayuga County Master Forest Owner Volunteer landowner visits and keeps volunteers current with on-going forestry information.
- CCE Eco-Talk article in The Citizen: "New Ways to Learn Forestry" (8/25/08).
- SWCD held its annual Tree and Shrub Sale in April.

2. Provide the Trade-a-Tree program

- Trade-a-Tree program where SWCD allows residents to bring their Christmas trees to the Natural Resource Center to be chipped into mulch, which is used in public works projects and is available to the public. In return, residents receive a voucher for an American Beech Tree transplant. Event is funded by Planning and promoted by CCE.

Hazardous Materials

1. Provide opportunities to reduce hazardous material in the County including household hazardous waste, tire, electronics and propane tank collections.

- The SWMO, Planning, CCE and SWCD provide opportunities to reduce hazardous material in the County:
 - Earth Week Event held on 5/17/08. Event had over 430 vehicles and recycled 33,374 pounds of electronics, 1200 feet of fluorescent bulbs, and 117 freon appliances.
 - Tire Event held on June 21. Recycled ~4800 tires and ~40 pounds of lead balancing weights.
 - Household Hazardous Waste Collection event in October was the second largest fall event with 506 cars.
 - America Recycles Day was hosted by the City of Auburn and held on November 15th. Event had over 211 cars and recycled about 20,000 pounds of electronics.
- The SWMO received a \$50,000 2008 HHW Grant. Their HHW Work Plan was approved by NYSDEC.
- SWMO assisted several towns to arrange direct shipments of tires to Nucor.
- SWMO coordinated a recycling event for obsolete electronics from downtown County agencies and filled a box van on 9/25.
- CCE and Planning participate in the RecycleFirst cellular phone recycling program and printer cartridge recycling program. RecycleFirst provides free recycling plus CCE gets a small deposit for solid waste and watershed protection. The cartridge recycling collection boxes are located in 32 locations in the County and postage paid envelopes for recycling have been provided.
- SWCD installed three secondary fuel containments in the Owasco Lake Watershed and one in the Cayuga Lake Watershed. One secondary fuel containment was also installed on a farm in the Owasco Lake Watershed in October.

2. Provide information and education reducing the use of hazardous materials and the proper use and disposal of household chemicals and other hazardous material.

- CCE Eco-Talk articles in The Citizen: "Recycle Outdated Electronic Devices" (5/5/08) and "Proper Waste Disposal Essential" (11/3/08).

- CCE and Planning maintain and update the Cayuga County Solid Waste Management Program Office webpage which includes information on proper use and disposal of household chemicals and other hazardous materials.
 - CCE and Planning provided information in the litter bags distributed during collection events.
- 3. Provide education on petroleum spill prevention and what to do in the event of a spill or a leak, especially in regards to boats.**
- CCE has information on this issue.
- 4. Miscellaneous:**
- **Cayuga County Environmental Audit:** Planning organized the cleaning and pulling of two underground storage tanks at Emerson Park, two at Sterling Nature Center and one at the Mental Health Center. A two year plan to remove remaining underground storage tanks was submitted to and approved by the NYSDEC.
 - **Secondary Fuel Containments:** SWCD installed four secondary fuel containments in the Owasco Lake Watershed and one in the Cayuga Lake Watershed.
 - **Wood Recycling:** SWCD's Wood Waste Recycling Program provided services for the Towns of Fleming, Owasco, and Sennett, the Cayuga County Highway Department, and the City of Auburn.

Highway Deicing

1. Provide assistance to those municipalities that need salt storage structures and contained mixing areas.

- Cayuga County Planning Department wrote a shared services grant for the Town of Sempronius and Cayuga County Highway Department for a salt shed. This was funded for \$244,969.87.

Highway Maintenance

1. Continue hydroseeding assistance programs, use of structural controls, and other methods to reduce roadbank erosion and other issues caused by highways.

- Hydroseeding was completed for the Towns of Brutus, Cato, Niles, Owasco, Sennett, Summer Hill, the City of Auburn, and the Cayuga County Highway Department. A total of 22 acres of ditches and open areas were hydroseeded and/or hand-seeded and mulched. Some of the projects included:
 - Stabilized roadbank on Cream Hollow Road for the Town of Niles.
 - Hydroseeded ditches on Town Hall Road for the Towns of Owasco and Sennett.
 - Hydroseeded ditches on Grange Hall Road for Cayuga County Highway Department.
 - Hydroseeded a 6 acre mine closure for the Town of Summer Hill.

2. Provide bi-annual verbal report to the Cayuga County Highway Superintendents Association.

- SWCD staff attended the Cayuga County Highway meetings and gave verbal reports to Highway Superintendents.

Land Use

- 1. Educate planning boards about land use issues that affect water quality such as drainage, buffer zones, stormwater runoff, PDR, etc.**
 - Planning held training on September 10th on Agricultural Districts and on October 1st on Special Permits.

- 2. Provide assistance to towns and villages to design, adopt and/or implement standards and guidelines; provide model ordinances, regulations, standards, and guidelines that protect water quality.**
 - Planning and CNYRPDB have provided assistance to following towns and villages as they have developed, are developing, or have discussed possibly developing comprehensive plans: Sterling/Fair Haven, Meridian, Locke, Niles, Scipio, Sempronius and Victory.
 - OLWIP spoke twice at the Town of Fleming Board meetings regarding zoning law changes that would further protect Owasco Lake.
 - OLWIP worked with the Town of Owasco to implement sediment and erosion control guidelines into building permits for single family homes. Other towns, including Fleming, are looking to adopt similar guidelines.

- 3. CNYRPDB & Planning, in conjunction with the IAGT and the Genesee Finger Lakes Regional Planning Council, will evaluate the impacts of future development, urban sprawl and changing land uses on municipalities within the Owasco Lake Watershed and throughout the Finger Lakes region. Technical assistance, staff support and guidance will be provided to municipalities seeking tools and techniques to effectively control the impacts of development, sprawl & changing land uses.**
 - Planning and CNYRPDB have provided assistance to following towns and villages as they have developed, are developing, or have discussed possibly developing comprehensive plans: Sterling/Fair Haven, Meridian, Locke, Niles, Scipio, Sempronius and Victory.

Monitoring

- 1. Continue water sampling of County Lakes with the Citizens Statewide Lake Assessment Program (CSLAP).**
 - CSLAP completed for 2008 for one site in Duck Lake and one site in Lake Como with FLOWPA funding.

- 2. Upgrade the Owasco Inlet Monitoring Station to USGS standards.**
 - In process.

- 3. Continue monitoring of Dutch Hollow Brook and Owasco Inlet.**
 - Planning continued the monitoring of Dutch Hollow Brook and the Owasco Inlet utilizing FLOWPA funds. The monitoring stations monitor level and rainfall. Samples were collected during rainfall and baseflow events to analyze for total phosphorus, soluble reactive phosphorus and total suspended solids.

- 4. Continue Owasco Lake tributary nitrate and phosphorus monitoring and Duck Lake phosphorus monitoring utilizing FLOWPA funds.**
 - CCE and Planning sampled Duck Lake three times over the summer after storm events and during baseflow for phosphorus.
 - CCE sampled Owasco Lake tributaries for nitrates as well as phosphorus three times over the summer and fall during storm events.
- 5. Continue work on the monitoring buoy for Owasco Lake with IAGT.**
 - OWLA works with the IAGT to run a monitoring buoy on Owasco Lake. Data can be found at www.ourlake.org.
- 6. Continue coliform monitoring of public bathing beaches.**
 - Health continued coliform monitoring of bathing beaches located on Owasco Lake. Numerous samples were collected from the bathing beaches in 2008.
- 7. Continue coliform monitoring of County lakes.**
 - The Duck Lake Association tests Duck Lake for coliform.
 - OWLA tests Owasco Lake for coliform.

Nutrient Management

- 1. Provide education on nutrient management and reduction with P-Project education program and website, as well as other educational materials.**
 - P-Project website is updated and maintained by CCE and Planning.
 - Cayuga County SWCD has zero phosphorus fertilizer available in 50 pound bags for \$10. SWCD is cost sharing this program.
 - CCE developed a travel display and an educational brochure on watershed friendly lawn care.
 - CCE Eco-Talk article in The Citizen: "Lawns Need Spring Cleaning" (4/28/08).
- 2. Encourage the use of and assist in the development of nutrient management plans for golf courses, developments, parks, etc.**
 - SWCD's Nutrient Management Specialist completed 2 new Certified Nutrient Management Plans and updated 2 existing plans.
- 3. Miscellaneous**
 - Health met with representatives from Wegmans and they are interested in promoting low phosphorus/ lake friendly products.

Private and Municipal Wastewater Treatment

- 1. Continue to implement the Cayuga County Sanitary Code and provide information to others as needed.**
 - All homes fronting Owasco Lake and Little Sodus Bay as well as all properties with septic systems in Victory, Conquest and Ledyard were required to have their septic systems inspected.

- SWCD performed 133 dye tests in Fair Haven
 - Database with septic system information provided to OLWIP.
2. **Provide input to the NYSDEC regarding the impending upgrade of the Groton Wastewater Treatment Plant and the development of Groton's new SPDES permit.**
 - WQMA, Cayuga County Board of Health, Cayuga County Environmental Engineer and Cayuga County Legislature commented separately to the NYSDEC on their concerns with the draft SPDES permit for the Groton Wastewater Treatment Plant.
 - Health sent questions to the NYSDEC regarding the Engineering Design Report for the Groton Wastewater Treatment Plant.
 3. **Provide education on proper septic system and holding tank use and maintenance.**
 - Health provides Septic System Maintenance folders/information to homeowners that install new septic systems.

Solid Waste Issues

1. **Provide education on solid waste issues.**
 - Educational materials available upon request from SWMO, CCE, Health and Planning.
 - SWMO, Planning and CCE maintain and update the Cayuga County SWMO website.
2. **Conduct cleanup activities in the County.**
 - Parks held cleanups at Sterling Nature Center in the Spring and Fall.

Stormwater and Sediment Control

1. **Provide education and assistance on the Phase II Stormwater Rules and Regulations.**
 - SWCD contracts with the NYSDEC to help enforce the Phase II Stormwater Rules and Regulations. SWCD has Certified Professional Erosion and Sediment Control (CPESC) to conduct site inspections at the request of the NYSDEC.
 - Planning provides information upon request and maintains a website on stormwater.
2. **Provide information and education on methods and ways to reduce the quantity and improve the quality of stormwater.**
 - Health and Planning provide information and education on stormwater.
3. **Continue the Cayuga County Stormwater Management Projects Inspection and Monitoring Program (use of hydrolab).**
 - The Owasco Lake Watershed Inspector used the hydrolab to take water quality samples January.
4. **Assist the NYSDEC with their inspection program.**
 - SWCD contracts with the NYSDEC to help enforce the Phase II Stormwater Rules and Regulations. SWCD has Certified Professional Erosion and Sediment Control (CPESC) to conduct site inspections at the request of the NYSDEC.
 - CPESCs completed 15 inspections

Streambanks and Stream Corridor Management**1. Conduct streambank stabilization work on tributary/tributaries to Owasco Lake and other waterbodies in Cayuga County.**

- Two streambank projects using rock riprap with vegetative buffer were completed on the Owasco Inlet.
- SWCD stabilized a streambank on Cream Hollow Road in January.
- SWCD and OLWIP worked on options for stabilizing streambanks at Casowasco and Long Point.
- SWCD worked with the Town of Genoa Highway to address streambank erosion and protect Creek Road.
- SWCD dredged a sediment basin and stabilized a bank along Sucker Brook with FLOWPA funds.
- SWCD dredged the Owasco Outlet channel to improve boat access.
- Streambanks stabilized at the Twin Oaks Marina, Cayuga Lake Watershed.

2. Continue to participate in the future work and management of the Owasco Flats and Owasco Inlet area.

- Special Projects Fund grant for \$15,000 for the proposal entitled "Feasibility Study and Preliminary Cost Benefit Analysis for the Owasco Inlet Channel and Owasco Flats Wetlands Restoration."
- WQMA members participated on the Owasco Flats Steering Committee.

3. Provide education and information for farmers and landowners about the importance of buffers adjacent to streambanks, lakeshore and other sensitive areas.

- Planning and CCE maintain the "Green Thumbs for Blue Water: Landscaping for Healthy Streams and Lakes" website.

Waterborne Illness**1. Continue to enforce the Owasco Lake Watershed Rules and Regulations.**

- Health and the Owasco Lake Watershed Inspector continue to enforce the Owasco Lake Watershed Rules and Regulations.
- The septic inspection program found eight septic system failures within the Owasco Lake Watershed.

2. Continue coliform monitoring of public bathing beaches.

- Cayuga County Health Department Environmental Health staff sampled all permitted bathing beaches during the summer.

3. Provide information as needed to residents using untreated lake water as a drinking water source and encourage them to install some type of treatment system to disinfect their drinking water. Provide educational materials on waterborne illnesses.

- Health continues to provide information at the request of residents using untreated lake water as a drinking water source and encourage them to install some type of treatment system to disinfect and filter their drinking water.

4. Continue geese harassment program at Emerson Park utilizing FLOWPA and County funds.

- SWCD and the OLWIP conducted this program with the assistance of Parks security personnel.
- SWCD and the OLWIP analyzed the geese harassment program and will present the results at a future WQMA meeting.