

Cayuga County Water Quality Management Agency

2004 Year End Report

Approved
January 6, 2005

Acronyms can be found at end of document.

MULTIPLE WATERSHEDS

Agriculture:

SWCD	Staff member working on becoming certified as a Nutrient Management Plan Specialist. Once certified, this staff person will review comprehensive Nutrient Management Plans from consultants to see if plans are adequate.	SWCD staff member is continuing to work to be certified as a Nutrient Management Plan Specialist.
SWCD	Conduct Comprehensive Nutrient Management Plans (CNMP) for farms.	15 CNMPs completed. Majority are for CAFOs (concentrated animal feeding operations), but some are for smaller farms. These CNMPs cover approximately 35,000 acres.
SWCD	Complete Agricultural Environmental Management (AEM) Plans for farms, identify best management practices (BMPs) from those AEMs, look for assistance to implement these BMPs, and measure the effectiveness of these BMPs.	SWCD staff sent for training on AEM. SWCD, NRCS and GL Vreeland, Inc. constructed a water and sediment control basin on a farm in the Town of Owasco.
SWCD & CCE	Encourage farmer participation in state and federal programs that relate to water quality and issues; and pursue forms of assistance such as continued federal and state grants and cost share programs.	SWCD received a \$648,141 NYS Agricultural Non-Point Source Abatement and Control Program grant for implementation of manure management systems on six large farms located in the Cayuga Lake watershed within Cayuga and Tompkins Counties. These systems will reduce the potential for nutrient and pathogen runoff into Cayuga Lake. Tompkins County SWCD received a \$256,011 NYS Agricultural Non-Point Source Abatement and Control Program grant for implementation of prescribed grazing systems on 55 farms in the Cayuga Lake and Owasco Lake watersheds. \$64,200 will go to Cayuga County SWCD to implement GrazeNY best management practices such as watering systems, laneways, fencing, etc. on eleven farms. SWCD received \$704,130 EPA Round IX funds for watershed projects in Cayuga County. The Three County Agriculture Program (Cayuga County CCE is a member) sponsored the GrazeNY Tour 2004 in Aurora to encourage participation in the GrazeNY program.

2004 WQMA Year End Report

	Encourage farmer participation in state and federal programs that relate to water quality and issues; and pursue forms of assistance such as continued federal and state grants and cost share programs (continued).	WQMA provided a letter of support to the Finger Lakes Resource and Development Council to write an Agriculture Non-Point Source Abatement and Control grant for pasture systems.
SWCD & NRCS	Provide incentives and programs for farmers to install, maintain and manage buffers adjacent to streambanks, lakeshore and other sensitive areas.	SWCD provides cost share assistance for buffers. SWCD has a no till seeder and tractor that can be used for a fee to establish buffers.
SWCD & NRCS	Encourage farmers to join the Conservation Reserve Program.	There were 11 contracts beginning in Program Year 2004 as of 8/31/04, for a total of 213.7 CRP acres.
CCE, OWLA, SWCD, & Network	Continue to develop a program and criteria for providing signs for lake friendly farmers or watershed friendly farmers.	The Network is exploring taking up a "Lake-Friendly Farm" sign program in the Cayuga Lake Watershed that supports NYS Agricultural Environmental Management program.
CCE, SWCD, City, & Network	Provide public education and news articles/columns on agriculture and the environment.	SWCD produces a newsletter, <u>Conservation Highlights</u> . CCE produces <u>Ag Alert</u> , a local update on agricultural hot topics. The Network includes in its quarterly newsletter information about agricultural efforts to protect the environment.
CCE & Plan	Encourage agritourism.	The Cayuga County Agriculture Promotion Council is developing an agritourism brochure and website.
SWCD & City	Encourage use of whole farm plans.	SWCD provided resources and tools for farmers interested in whole farm plans.
SWCD	Present farm, conservationist, and educator of the year awards.	Bruce Natale (WQMA Chair) and Kelly Fallone (CCE) won conservationists of the year. Steve Nemec won farm of the year.
CCE & Planning	Implement PDR (purchase of development rights) where feasible. CCE will provide educational materials on PDR.	Received \$394,613 from the Environmental Protection Fund's Farmland Protection fund to purchase a conservation easement for a 247 acre dairy operation in Fleming in the Owasco Lake Watershed.
Planning	Encourage towns to change local laws to allow additional business enterprises on farms.	Actively encouraging town officials to be more lenient in the regulations in regards to agricultural based businesses.
Planning & NRCS	Explore funding options and ways to assist farmers in cleanup after storm events.	None to date.

<p>SWCD</p>	<p>Take advantage of new technologies to deal with agricultural waste.</p>	<p>WQMA held a special meeting in March to discuss methane digesters and energy production. Groups looking at utilizing methane digesters include SWCD, Agricultural Waste Solutions (twenty member group of dairy farmers) and the City of Auburn.</p> <p>SWCD is examining building a community methane digester. SWCD received two NYS Energy Research and Development Authority grants totaling \$145,000 to work with Eco-Technologies to develop a business plan, and further the idea of a regional digester and supporting technologies. SWCD has gotten support from local dairy producers for a community digester near SWCD and received a letter of support from Congressman Boehlert.</p> <p>SWCD is working with three large dairy producers on the development and implementation of on-site methane digesters.</p>
--------------------	----------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Aquatic Vegetation

<p>SWCD</p>	<p>Continue existing aquatic vegetation control program.</p>	<p>SWCD harvested aquatic vegetation from Owasco, Otter and Cayuga Lakes, Lake Como, and Little Sodus Bay.</p>
<p>SWCD</p>	<p>Encourage the use of nutrient management plans for golf courses, developments, parks, etc.</p>	<p>SWCD completed a nutrient management plan for Emerson Park.</p> <p>Soil testing in process for the Auburn Country Club to conduct a nutrient management plan.</p>
<p>OWLA, CCE, City & SWCD</p>	<p>Educate the public and developers on how to reduce nutrient introduction to the lake.</p>	<p>Received grant from the FLOWPA Special Projects fund entitled “Education and Monitoring Program to Reduce External Phosphorus Loads to Owasco and Cayuga Lakes.” CCE developed a phosphorus education program that included lawn care workshops, pet waste disposal stations, as well as the distribution of zero phosphorus fertilizer, informational fact sheets, and a webpage: www.co.cayuga.ny.us/wqma/pproject. The zero phosphorus fertilizer is available for purchase at market cost. Project included sampling for total phosphorus at 20 sites on tributaries to Cayuga and Owasco Lakes.</p> <p>Articles in the CCE Environmental Newsletter <u>Eco Logic</u>: Spring 2004 edition: “CCE Receives Grant for Phosphorus Education Program.” Summer 2004 edition: “Phosphorus Sampling Program.” Fall 2004 edition: “The P Project.”</p> <p>Eco Talk articles published in the newspaper <u>The Citizen</u>: January 24, 2004: “Poop scoop your way to cleaner water.” August 27, 2004: “Phosphorus is choking Owasco and Cayuga Lakes.”</p> <p>“Fear for Phosphorus” educational article published in <u>The Citizen</u>.</p>

	<p>Educate the public and developers on how to reduce nutrient introduction to the lake (continued).</p>	<p>Cayuga Lake Watershed Network News. Autumn 2004. "Too Much of a Good Thing."</p> <p>Workshop on lawn care practices to reduce phosphorus loading Oct 2004 as part of Neighbors Around Cayuga Lake.</p> <p>Kelly Fallone was interviewed on the Ed Laukern Live Radio Show in November 2004 about phosphorus in the Finger Lakes.</p>
<p>CCE, Planning & Network</p>	<p>First year of the Weeds Watch Out! education and monitoring program for invasive aquatic plants. Volunteer weed watchers will be trained to identify aquatic plants and will conduct monitoring on waterbodies in Cayuga County.</p>	<p>Three free invasive aquatic plant workshops were held for the general public; one in Auburn. W2O! volunteer training and water chestnut hand pulling were conducted. W2O! Web page on line at http://co.cayuga.ny.us/wqma/weedswatchout/index.html.</p> <p>Articles in the CCE Environmental Newsletter <u>Eco Logic</u>: Spring 2004 edition: "Aquatic Plant Workshops to be Held this Summer." Summer 2004 edition: "Weeds Watch Out! Program Kicks Off."</p> <p>Eco Talk article published in the newspaper <u>The Citizen</u>: July 30, 2004. "Volunteers Wage Battle on Invasive Plants"</p> <p>Sharon Anderson of the Network was interviewed on a local radio station in the fall about invasive aquatic weeds.</p> <p>Article in summer issue of Network News. Workshop Oct 2004 as part of Neighbors Around Cayuga Lake</p>

Chemicals: Yard, Garden and Household Chemical Use and Waste Disposal

<p>Planning, CCE & SWCD</p>	<p>Continue to search for ways to reduce hazardous material in the County.</p>	<p>Electronics and propane tank collection event held on May 1st. 195 cars participated. Collected 97 printers, 86 televisions, 95 CPUs, 107 monitors, and 376 propane tanks. The total cost for the electronics portion was approximately \$1,200 and NUCOR underwrote the propane tank collection.</p> <p>Tire Round Up event held on May 22nd. Collected about 9,100 tires from 541 cars for a total of 147 tons of tires. CCE, Planning and SWCD were assisted by a community service group from the jail and the Auburn JV lacrosse team.</p> <p>Printer cartridge recycling program implemented with RecycleFirst. Placed collection boxes in 32 locations and distributed postage paid envelopes to collect cartridges. RecycleFirst provides free recycling plus CCE gets a small deposit for solid waste and watershed protection programs.</p>
----------------------------------------	--------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	Continue to search for ways to reduce hazardous material in the County (continued).	Articles in the CCE Environmental Newsletter <u>Eco Logic</u> : Spring 2004 edition: "Cayuga County CCE Launches a County Wide Printer Cartridge Recycling Project." Summer 2004 edition "May Eco-Events Wrap-Up." Eco Talk articles published in the newspaper <u>The Citizen</u> : April 23, 2004. "Collection Day for Electronics and Propane Tanks." May 14, 2004. "A Burning Issue: the debate over Backyard Burn Barrels." May 7, 2004. "County retires old tires."
Planning & CCE	Continue household hazardous waste collection event offerings and explore ways to make the service available on a year round basis, especially for fuel products.	Household hazardous waste collection event planned for 2005. See above for additional offerings.
Planning, CCE & City	Provide information on proper use and disposal of household chemicals; suggested media includes annual water quality reports by water providers, water bill messages, direct mailings, and the WQMA webpage.	Updated information on household hazardous wastes on the Solid Waste Management Program Office website at http://www.cayuganet.org/hazwaste/index.html . "Quick Solid Waste Reference Guide for Cayuga County Residents" developed. Will print and distribute in January 2005.
Planning & CCE	Promote pest management practices that reduce pesticide use in the watershed, including integrated pest management and non-toxic pest management.	CCE held two watershed friendly lawn care workshops in the Fall 2004 as part of the P-Project grant. Eco Talk articles published in the newspaper <u>The Citizen</u> : June 11, 2004: "Lawn Care Tips." "IPM Part 1: Sustainable Farming Practices." "IPM Part 2: Eco Friendly Pest Management at Home."
Planning & CCE	Examine ways to change people's attitudes about the "perfect lawn" through education.	CCE held two watershed friendly lawn care workshops in the Fall 2004 as part of the P-Project grant.
CCE	Conduct education programs to help homeowners prevent groundwater contamination; include wells, well maintenance, septic system use, yard waste, composting, etc.	Vermicomposting workshop held on August 5, 2004. Eco Talk articles published in the newspaper <u>The Citizen</u> : July 30, 2004. "Worms in My Office"
ADDITIONAL WORK		
SWCD	Recycled Christmas trees. They recycled approximately 200 trees.	

Collaboration

<p>CNY RPDB</p>	<p>Provide communication forums for county & regional partners to discuss water quality priorities, identify divergences & opportunities for facilitation & coordination across jurisdictional boundaries through the Regional Non-point Source Strategy meeting series.</p>	<p>Regional Non-Point Source Strategy meeting held in November. Topics included water chestnut control, community ratings system and SPDES Stormwater Phase II, Oneida Lake management plan, farm waste management, and mini-grants.</p>
----------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Education

<p>WQMA</p>	<p>The Cayuga Co. WQMA should encourage and promote a coordinated approach to public education among its member organizations.</p>	<p>Ongoing.</p> <p><i>Network News</i>, a quarterly newsletter of the Network includes articles on current watershed issues as well as information aimed at building appreciation for the rich local resources. In addition, each issue features information on four areas of emphasis: agriculture, fisheries, stormwater and the loading of phosphorus and sediment.</p>
<p>WQMA</p>	<p>Conduct an educational tour.</p>	<p>None this year.</p>
<p>CCE</p>	<p>Develop an Ongoing educational program on watershed and related issues for schools and school aged children.</p>	<p>Continued to promote Watershed Watch monitoring program to schoolteachers, scout groups, & 4-H groups.</p> <p>Began a 4-H Nature Club and recruited 15 members. Meets monthly.</p> <p>Nearly 100 fourth graders at Owasco Elementary School are conducting a community stewardship project through the “Conservation in Small Spaces” program.</p> <p>CCE Mini Course held in January: “Water Water Everywhere.”</p> <p>Received National 4-H Council Funding to conduct a tree planting in the Owasco Lake Watershed in conjunction with OWLA, Moravia Schools, BOCES New Visions, and the 4-H Nature Club.</p> <p>Aquatic Invertebrate Safaris in September had children sampling water for aquatic invertebrates and looking at water quality.</p> <p>Nearly 1000 six-graders participated in Conservation Field Days and learned about several topics such as fish, aquatic macro-invertebrates, recycling and much more. Classroom Activity Guides provide to every teacher.</p>

CCE & Planning	Make watershed issues more accessible to citizens by utilizing the internet, direct mailings, and media releases.	CCE distributed the environmental newsletter <u>Eco Logic</u> by email. 52 Eco Talk articles on environmental education and water quality topics were published in The Citizen. Webpages for the P-Project and W2O! went on-line. Updated webpages for the Cayuga County WQMA, Solid Waste Management Office and Watershed Watch Program. CCE and Planning personnel stenciled storm drains in Owasco Lake Watershed neighborhoods and left information at houses about watershed-friendly lawn care.
CCE & Everyone	Agencies and organizations that conduct public education programs should utilize the local media to its fullest extent to promote programs, highlight events, and draw larger audiences.	CCE, Planning and others utilized The Citizen and Post Standard newspapers to promote programs, highlight events and draw larger audiences.
CCE & Everyone	Develop promotional campaigns that will interest a larger variety of participants in education programs.	CCE, Planning and others utilized The Citizen and Post Standard newspapers to promote programs, highlight events and draw larger audiences.
CCE	Agencies and organizations that promote water quality should enable trainers and educators to continually develop skills and expertise.	Ongoing.
Park	Displays at Emerson Park tied to watershed protection and information from USGS water monitoring station.	Two signs on watershed protection at Emerson Park. One is at the boat launch and one is on the beach.

Exotic, Introduced and Invasive Species Management

CNY RPDB, CCE & Network	Continue to participate on CNY Water Chestnut Task Force to assist region in formulating strategies and solutions to water chestnut problems.	Ongoing.
Network, SWCD, Planning, CCE & OWLA	First year of the Weeds Watch Out! education and monitoring program for invasive aquatic plants. Volunteer weed watchers will be trained to identify aquatic plants and will conduct monitoring on waterbodies in Cayuga County.	Three free invasive aquatic plant workshops were held for the general public; one in Auburn. W2O! volunteer training and water chestnut hand pulling were conducted. W2O! Web page on line at http://co.cayuga.ny.us/wqma/weedswatchout/index.html

<p>Network, SWCD, Planning, CCE & OWLA</p>	<p>First year of the Weeds Watch Out! education and monitoring program for invasive aquatic plants. Volunteer weed watchers will be trained to identify aquatic plants and will conduct monitoring on waterbodies in Cayuga County (continued).</p>	<p>Sharon Anderson of the Network was interviewed on a local radio station in the fall about invasive aquatic weeds.</p> <p>Articles in the CCE Environmental Newsletter <u>Eco Logic</u>: Summer 2004 edition: “Weeds Watch Out! Program Kicks Off.”</p> <p>Eco Talk article published in the newspaper <u>The Citizen</u>: July 16, 2004: “Giant Hogweed.”</p> <p>Grant proposal submitted to National Fish and Wildlife Foundation to conduct education and control campaign for invasive plants.</p>
<p>Health</p>	<p>Educate landowners about how to put in intake pipes and treatment methods for dealing with zebra mussels in intake pipes.</p>	<p>Health has educational materials for individual lake owners utilizing the lake as a water source.</p>

Forestry

<p>CCE</p>	<p>Coordinate information and technical services with landowners.</p>	<p>Ongoing.</p>
<p>CCE</p>	<p>Provide forest landowners with information on what resources & services are available for forest management; information & training on proper forest management practices; and information on such topics such as carbon sequestration & high grading to encourage landowners to retain existing well managed woodlots.</p>	<p>As part of the Forest Land Enhancement Program (FLEP), Cayuga and Onondaga County CCEs sponsored a series of educational workshops for Central NY landowners called “forest fundamentals”.</p> <p>Eco Talk articles published in the newspaper <u>The Citizen</u>: March 19, 2004. “What is a Forester?” November 14, 2004. “A Better Deal for your Timber.”</p>
<p>CCE</p>	<p>Encourage development of forest plans.</p>	<p>As part of Forest Land Enhancement Program FLEP, Cayuga and Onondaga County CCEs conducted a workshop at the NY Farm Show on Forest Stewardship planning.</p>
<p>CCE</p>	<p>Encourage owners to apply for cost-sharing forest management programs.</p>	<p>As part of the Forest Land Enhancement Program (FLEP), Cayuga and Onondaga County CCEs sponsored a series of educational workshops for Central NY landowners called “forest fundamentals”.</p>

Hazardous Material Spills and Spill Response

<p>Planning & CCE</p>	<p>Update the water quality contact list yearly.</p>	<p>Updated in December by WQMA.</p>
<p>Planning</p>	<p>Work with CEMO to improve capabilities to respond to spills.</p>	<p>Ongoing.</p>

Fuel and Chemical Storage

Planning	Try to obtain NYSDEC updates to their database on bulk petroleum storage facilities. Update the County's watershed database if updates are available.	Obtained updated list. County's database has not been updated at this time.
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

Funding Options

Everyone	Explore full range of funding alternatives; examples include surcharge to users, franchise fees, use of percentage of revenues from septic system inspections, grants, loans, etc.	Ongoing.
-----------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

Highway Deicing

Planning	Conduct a survey of highway departments on salt storage structures and contained mixing areas and where they are needed. Also survey their deicing policies and procedures. Conduct a survey of highway departments on salt storage structures and contained mixing areas and where they are needed. Also survey their deicing policies and procedures (continued).	Surveyed County Highway Department and Town of Moravia Highway Superintendent by phone. Draft salt survey reviewed by WQMA. Applied for grant funding to conduct survey, but was unsuccessful.
Planning & SWCD	Explore funding options for those that need salt storage structures and contained mixing areas.	Water quality funds were utilized to assist in the building of a salt storage shed in Locke.

Highway Maintenance

SWCD & CCE	Increase the use of the Cornell Local Roads Program, Highway School, and LEAPE by highway officials.	Encourage participation through contacts with highway officials. SWCD staff person is a member of the Highway Association.
SWCD & IO	Encourage use of structural controls of sediments on steep roads, roadbanks and in high flow ditches.	SWCD works with towns and gives engineering expertise upon request. IO is working with SWCD and the Town of Genoa to provide grant funding from their DOS grant on a roadside project on Town Line Rd. SWCD is working with the Town of Niles on a retainer wall and drainage for Glen Cove Road. SWCD is conducting a feasibility study on road drainage in the Town of Brutus. SWCD utilized rip rap to stabilize a section of Sperry Road in the Town of Mentz, which was being eroded by the Owasco Outlet.
SWCD	Encourage and provide information on timely revegetation of road ditches and banks.	Ongoing. Provides hydroseeding to towns, county and state. Worked with NYSDOT to conduct hydro-seeding of ditches and road areas.

2004 WQMA Year End Report

SWCD	Encourage use of and provide information on best management practices (BMPs) to reduce roadbank erosion.	SWCD works with towns and gives engineering expertise upon request. SWCD assisted with the implementation of drainage tile to control flooding and erosion on Firelane 9A/9B in the Owasco Lake watershed. SWCD provides hydroseeding to towns, county, and state. Worked with NYSDOT to conduct hydroseeding of ditches and road areas.
SWCD	Provide an annual informational report for highway superintendents and workers.	SWCD has begun work on the SWCD annual report.
SWCD	Organize local training programs through SWCD and Highway Superintendents Association.	None to date.
SWCD	Examine ways to prevent sediment eroded from plowed fields by wind and water from ending up in the ditches to the lake; especially during heavy rainfalls.	SWCD does not encourage fall plowing. However, if farmers do plow in the fall, they are encouraged to plow across slopes, use ridge tilling and seeding with rye. Part of tier I and tier II AEM planning process.
SWCD	Examine ways to prevent roadside ditches from deepening and eroding.	Provide hydroseeding to towns, county and state. Worked with NYSDOT to conduct hydroseeding of ditches and road areas. In Union Springs, SWCD has developed a plan to stabilize road ditches on Creager Road.

Lake Level

ADDITIONAL WORK	
Network	The Network and Finger Lakes Ecology Association sponsored a seminar entitled “Managing Water Levels in the Oswego River Basin.” As a follow-up there was a tour of the hydroplants on the Cayuga-Seneca Canal that greatly affect lake levels.

Lakeshore Erosion

CCE & OWLA	Promote and distribute existing shoreline erosion control guidebooks and information sheets with specific information on plantings that will help reduce shoreline erosion.	Fact sheets available on the Green Thumbs for Blue Water website at http://co.cayuga.ny.us/wqma/greenthumbs/index.html
-----------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Land Use

CNY RPDB & Planning	CNY RPDB & Planning, in conjunction with the Institute for the Application of Geospatial Technologies will evaluate the impacts of future development & urban sprawl on municipalities within the Owasco Lake Watershed through use of a GIS & computer based growth model. Upon request, guidance & support will be provided to watershed municipalities seeking to improve or create legislation to effectively control the impacts of development and sprawl.	<p>First public meeting held in November.</p> <p>Met with Town of Fleming to show potential buildout maps based on current local regulations.</p> <p>Met with the Town of Owasco.</p>
Planning	Educate planning boards about land use issues such as drainage, buffer zones, stormwater runoff, etc.	CCE sponsored a workshop on May 11 th with the Finger Lakes Land Trust entitled “Information Session on the Finger Lakes Land Trust and Opportunities to Protect Your Land.”
Planning	Provide assistance to towns and villages to design, adopt and/or implement standards and guidelines; provide model ordinances, regulations, standards, and guidelines.	Ongoing.
Planning & SWCD	Explore opportunities to protect streambank areas. Use data from streambank assessments and management plans to search for funding.	<p>SWCD received a \$28,484 grant from the Great Lakes Commission Program for Soil Erosion and Sediment Control to implement streambank stabilization on Dutch Hollow Brook, which was assessed in 2003.</p> <p>SWCD received a \$750,000 grant to fund natural stream restoration on the Owasco Inlet, which was assessed in 2002.</p> <p>Planning wrote and SWCD received two grants from the Statewide Non-Point Source Abatement and Control Water Quality Improvement Project grant program. One was a \$4,700 grant for Sucker Brook and the other was a \$5,500 grant for Veness Brook to conduct streambank stabilization, based on an assessment conducted in 2003.</p> <p>FLLOWPA funds of \$1,255 have been requested to construct and implement streambank stabilization on Veness Brook to improve water quality, reduce erosion and turbidity, and improve and restore aquatic and streambank habitat. This work is based on a 2003 assessment of Veness Brook.</p>

	Explore opportunities to protect streambank areas. Use data from streambank assessments and management plans to search for funding (continued).	SWCD received an erosion control grant for Yawger Creek for \$66,000.
Planning	Conduct a survey of open space areas.	Ongoing.
Planning	Review and update the webpage directory of zoning provisions and other development regulations of towns and villages.	Ongoing.

Private and Municipal Wastewater Treatment

Health	Continue to implement the Cayuga County Sanitary Code and provide information to others as needed.	Ongoing. The Cayuga County Sanitary Program in 2004 inspected systems and all drainage pipes located on a parcel of property bordering the mean high water mark of Owasco Lake or Little Sodus Bay, if the wastewater treatment system is less than 500 feet from the high water mark. Also, all systems located on a parcel of property not bordering the mean high water mark of Owasco Lake or Little Sodus Bay but within 500 feet thereof. Finally, septic inspections were conducted in Niles (outside of the Owasco Lake Watershed), Sennett and Brutus. FOLLOWPA funding provided money for review of septic system inspections.
Health	Explore federal or state assistance to replace or upgrade septic systems of people with limited incomes.	Ongoing. Currently limited to funding available through Cayuga County Homsite.
Planning	Encourage the adoption of comprehensive plans that describe the capacity of public facilities and services required to serve new development and discourage growth where adequate facilities and services are not available.	Ongoing.
Planning	Explore what grants & loans are available for water & waste disposal systems for rural communities.	Worked with USDA Rural Development
ADDITIONAL WORK		
WQMA	Sent comments to the EPA objecting to their attempt to change the regulations on sewage treatment to allow treatment plants to bypass wastewater in wet weather conditions due to possible public health effects and the loosening of the regulations.	

Stormwater and Sediment Control

<p>SWCD, Planning & CNY RPDB</p>	<p>Continue to work closely with the DEC on the Phase II Stormwater Rules & Regulations. Provide assistance for towns and villages to comply with the Phase II Stormwater Rules and Regulations.</p>	<p>SWCD contracted with NYSDEC to help enforce the Phase II Stormwater Rules and Regulations.</p> <p>SWCD, Planning and CNY RPDB staff have been trained on Phase II Stormwater Rules and Regulations.</p>
<p>SWCD, Planning & CNY RPDB</p>	<p>Continue to conduct education to local decision makers, planning and zoning boards, Code Enforcement Officers, Highway Superintendents, residents, WQMA, and others about the Phase II Stormwater Rules & Regulations & the use of recognized development BMPs to protect water quality.</p>	<p>Workshop on the National Flood Insurance Program and floodplain management was held on April 21st. This workshop was sponsored by Cayuga County Planning and FLOWPA and was presented by NYSDEC Albany personnel. 16 people participated in this three hour training session.</p> <p>Phase II Stormwater Regulations workshop held on May 27th with 13 participants. This workshop was sponsored by Cayuga County Planning and FLOWPA and was presented by NYSDEC Syracuse personnel.</p> <p>CNY RPDB obtained a Great Lakes Basin grant that was used to sponsor a workshop entitled "Stormwater Runoff and Erosion Control for Project Review Board Members. " The workshop was conducted in Auburn by DOS staff on October 20th and had 43 participants. Planning assisted with the arrangements and advertising.</p> <p>CNY RPDB developed a Phase II construction brochure and provided multiple copies of this brochure in a mailing to all the municipal Code Enforcement Officers in Cayuga County. Planning added additional material and utilized FLOWPA funding to distribute this mailing.</p> <p>CNY RPDB maintains and regularly posts Phase II Stormwater program updates & information on its regional stormwater website http://www.cnyrpdb.org/stormwater-phase2.</p>
<p>SWCD, Planning & CNY RPDB</p>	<p>As further guidance is provided by the regulatory agencies, examine and/or encourage local governments to create & enforce their own stormwater management and erosion control ordinances.</p>	<p>CNY RPDB sponsored a workshop entitled "Stormwater Runoff and Erosion Control for Project Review Board Members " conducted by DOS staff that was held in Auburn on October 20th and had 43 participants. Planning assisted with the arrangements and advertising.</p> <p>CNY RPDB maintains a regional Stormwater website that includes a reference library, new program information and updates and links to newly released Phase II guidance materials at http://www.cnyrpdb.org/stormwater-phase2.</p>

<p>CNY RPDB</p>	<p>Conduct general Phase II construction permit education and outreach for local governments and the general public by providing sample and guidance materials as they become available.</p>	<p>CNYRPDB developed a Phase II construction brochure and provided multiple copies of this brochure in a mailing to all the municipal Code Enforcement Officers in Cayuga County. Planning added additional material and utilized FLOWPA funding to distribute this mailing.</p> <p>CNY RPDB maintains and regularly posts Phase II Stormwater information and program updates on its regional stormwater website http://www.cnyrpdb.org/stormwater-phase2.</p>
<p>SWCD</p>	<p>Continue to conduct stormwater control projects.</p>	<p>SWCD works with towns and gives engineering expertise.</p> <p>SWCD assisted with the implementation of drainage tile to control flooding and erosion on Firelane 9A/9B in the Owasco Lake watershed.</p> <p>IO is working with SWCD and the Town of Genoa to provide grant funding from their DOS grant on a roadside project on Town Line Rd.</p> <p>SWCD is working with the Town of Niles on a retainer wall and drainage for Glen Cove Road.</p> <p>SWCD is conducting a feasibility study on road drainage in the Town of Brutus.</p> <p>SWCD utilized rip rap to stabilize a section Sperry Road in the Town of Mentz that was being eroded by the Owasco Outlet.</p>
<p>SWCD</p>	<p>Provide model site design guidelines for contractors.</p>	<p>Ongoing.</p>
<p>SWCD</p>	<p>Continue hydroseeding assistance programs for local governments in critical areas, such as road ditches, and promote the program to increase use throughout the watershed.</p>	<p>Ongoing. Provides hydroseeding equipment to towns, county and state. Worked with NYSDOT to conduct hydroseeding of ditches and road areas.</p>
<p>SWCD</p>	<p>Staff person in training to become a Certified Professional in Erosion and Sediment Control (CPESC).</p>	<p>Staff person passed the CPESC test. Now have two SWCD staff with CPESC certification.</p> <p>Staff person working on getting Water Quality Certificate as well.</p>
<p>SWCD</p>	<p>Encourage use and provide information on structural measures to control sediments and other pollutants from stormwater runoff.</p>	<p>Ongoing.</p>

SWCD	Examine the use of infiltration trenches, detention ponds, siltation ponds, basins, vegetated swales and filter strips in critical areas and in demonstration projects.	Working with the Village of Moravia to construct a manifold system. Grant written to the NYSDEC Mini-grant program to get funding.
-------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------

Streambanks and Stream Corridor Management

SWCD & Planning	Reevaluate streambank erosion assessments and search for funding for implementation.	<p>Planning wrote and SWCD received two Statewide Non-Point Source Abatement and Control Water Quality Improvement Project grants to conduct streambank stabilization. These grants are a \$4,700 grant for Sucker Brook and a \$5,500 grant for Veness Brook. Work is based on the 2003 assessments of these streams.</p> <p>Owasco Inlet stream restoration project has been approved. This is a \$750,000 grant with a \$350,000 match. This will fund natural stream restoration within a one mile area that extends both directions from the Cayuga and Tompkins County line.</p> <p>FLLOWPA funds of \$1,255 have been requested to construct and implement additional streambank stabilization on Veness Brook to improve water quality, reduce erosion and turbidity, and improve and restore aquatic and streambank habitat. Work based on the 2003 assessment of Veness Brook.</p>
NRCS & SWCD	Promote the use of Best Management Practices (BMPs) such as livestock exclusion from streams and vegetative filter strips.	Tompkins County SWCD received a \$256,011 NYS Agricultural Non-Point Source Abatement and Control Program grant for implementation of prescribed grazing systems on 55 farms in the Cayuga Lake and Owasco Lake watersheds. \$64,200 will go to Cayuga County SWCD to implement GrazeNY BMPs such as watering systems, laneways, fencing, etc. on eleven farms.
SWCD and Planning	Search for funding and implement streambank stabilization on severely eroding streams using fluvial geomorphology and other bioengineering methods where feasible.	<p>SWCD received \$28,484 grant from the Great Lakes Commission Program for Soil Erosion and Sediment Control to implement streambank stabilization on Dutch Hollow Brook.</p> <p>Planning wrote and SWCD received two Statewide Non-Point Source Abatement & Control Water Quality Improvement Project grants to conduct streambank stabilization on Sucker Brook (\$4,700) and on Veness Brook (\$5,500).</p>

	Search for funding and implement streambank stabilization on severely eroding streams using fluvial geomorphology and other bioengineering methods where feasible (continued).	<p>Owasco Inlet stream restoration project has been approved. This is a \$750,000 grant with a \$350,000 match. This will fund natural stream restoration within a one mile area that extends both directions from the Cayuga and Tompkins County line.</p> <p>SWCD received a \$66,000 erosion control grant for Yawger Creek.</p> <p>FLLOWPA funds of \$1,255 have been requested to construct and implement additional streambank stabilization on Veness Brook to improve water quality, reduce erosion and turbidity, and improve and restore aquatic and streambank habitat.</p>
SWCD	Identify funding sources for comprehensive streambank restoration & management programs.	See above.
SWCD, NRCS & Planning	Provide incentives and programs for farmers & land-owners to install, maintain and manage buffers adjacent to streambanks, lakeshore and other sensitive areas. Find funding opportunities for buffer installation, management and maintenance.	<p>SWCD provides cost share assistance.</p> <p>SWCD has a no till seeder and tractor that can be used for a fee to establish buffers.</p>
SWCD, Planning & NRCS	Continue having staff members of the SWCD and NRCS assist in the preparation of grant and cost share applications to reduce streambank erosion and implement buffering.	<p>SWCD received \$28,484 grant from the Great Lakes Commission Program for Soil Erosion and Sediment Control to implement streambank stabilization on Dutch Hollow Brook.</p> <p>Planning wrote and SWCD received two Statewide Non-Point Source Abatement & Control Water Quality Improvement Project grants to conduct streambank stabilization on Sucker Brook (\$4,700) and on Veness Brook (\$5,500).</p> <p>Owasco Inlet stream restoration project has been approved. This is a \$750,000 grant with a \$350,000 match. This will fund natural stream restoration within an area one mile both directions of the Cayuga and Tompkins County line.</p> <p>Received a \$66,000 erosion control grant for Yawger Creek.</p>

	Continue having staff members of the SWCD and NRCS assist in the preparation of grant and cost share applications to reduce streambank erosion and implement buffering (continued).	FOLLOWPA funds of \$1,255 have been requested to construct and implement streambank stabilization on Veness Brook to improve water quality, reduce erosion and turbidity, and improve and restore aquatic and streambank habitat.
Planning	Provide model buffer and stream corridor protection ordinances to the municipalities.	None to date.
Planning	Examine debris accumulation in streams and determine whose jurisdiction it is to remove it and have it removed.	None to date.
Planning & OWLA	Educate landowners on what debris can be removed from streams and how to remove it properly.	None to date.
SWCD & OWLA	Conduct tours, put up signs and provide information on demonstration projects for streambank erosion and stream buffering.	Sign will be placed in the Owasco Inlet once the fluvial work is underway.

Urban/Community Forestry

CCE	Educate towns, villages, and the public on the values and benefits of urban and community trees and forests, trees suitable for urban planting in this area, and how to care for them.	As part of the Forest Land Enhancement Program (FLEP), Cayuga and Onondaga County CCEs sponsored a series of educational workshops for Central NY landowners called "forest fundamentals".
CCE	Encourage training to develop inventories of trees and tree sites.	None to date.
Planning	Encourage towns and villages to apply to grant programs for tree planting.	Ongoing.
Planning & CCE	Provide a model town or village tree ordinance.	None to date.
CCE	Encourage community forest plans.	Ongoing.

Waste Sites

Landfills, Inactive Hazardous Waste Sites, Solid Waste Management and Other Waste Sites

Planning & Health	The conditions of the seven closed solid waste landfills and the inactive hazardous waste site should be inspected for changing site conditions. Any significant changes should be reported to the DEC.	A copy of the OBG report for the Brillo landfill, an inactive hazardous waste site located in Victory, is available at the Planning Department. GM has stepped up to be a responsible party and there are places where the levels of PCBs are 12,000 ppm and chromium of 152,000 ppm.
Planning & Health	Discourage open burning and encourage alternatives such as pay by the bag programs for residential solid waste disposal.	Educational materials available upon request. Eco Talk article in the newspaper <u>The Citizen</u> : May 14, 2004. "A Burning Issue: the debate over Backyard Burn Barrels"
OWLA, City & Planning	Inventory junkyards.	None to date.

Waste Sites

Roadside and Illegal Dumping

Planning	List all municipal codes and ordinances for roadside and/or illegal dumping.	None to date.
Planning	Provide sample codes or ordinances on roadside and/or illegal dumping to municipalities without them. For those that do, encourage raising fines & increasing prosecution.	None to date.

Waterborne Illness

Health	Continue to monitor bathing beaches.	Ongoing.
Health	Continue to provide information 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.	Educational materials available upon request.
Health	Provide educational materials through the Cayuga County Health Department.	Educational materials available upon request.
SWCD	Use Best Management Practices (BMPs) and Environmental Protection Agency Regulations to reduce contamination from pastures.	SWCD received a \$648,141 NYS Agricultural Non-Point Source Abatement and Control Program grant for implementation of manure management systems on six large farms located in the Cayuga Lake watershed within Cayuga and Tompkins Counties. These systems will reduce the potential for nutrient and pathogen runoff into Cayuga Lake. Tompkins Co. SWCD received a \$256,011 NYS Ag Non-Point Source Abatement and Control Program grant for implementation of prescribed grazing systems on 55 farms in the Cayuga Lake and Owasco Lake watersheds. \$64,200 will go to Cayuga County SWCD to implement GrazeNY BMPs such as watering systems, laneways, fencing, etc. on eleven farms. SWCD received \$704,130 EPA Round IX funds for watershed projects in Cayuga County.
WQMA	Explore funding to compile and maintain the WQMA database.	None to date.

CAYUGA LAKE

WQMA	Work to implement the Cayuga Lake Restoration and Protection Plan as it pertains to Cayuga County. As more specific work plans are developed, the WQMA will re-examine its involvement.	Ongoing.
Network & WQMA	Continue water sampling under Citizens Lake Assessment Program (CSLAP) through FLOWPA funding.	Provided FL-LOWPA funds for the CSLAP program for two sites on Cayuga Lake in Cayuga Co: Farleys Point in Union Springs and Wells College in Aurora.

Network	Provide award for leadership and commitment to protect the Cayuga Lake Watershed	Gene Hocutt received the 2004 Morehouse Award for his leadership and stewardship.
Network	Conduct cleanup of Fall Creek.	Fall Creek Cleanup held in May.
ADDITIONAL WORK		
IO & Network	CD-ROM (CD): Protecting the Cayuga Lake Watershed: A Citizen's Guide to Management Concepts and Local Efforts. IO paid for the printing for the CD-ROM, but the actual production was funded by the Network, the City of Ithaca, and Cornell. Also there was an informational session to explain the CD-ROM in September 2004.	
IO	Floating Classroom Committee continues to work on watershed education and curriculum. IO paid for several school trips and purchased equipment for the boat (a total of \$6000). Southern Cayuga Middle School and Wells College took trips in 2004.	
IO	IO sponsored radio spots on 97.3 and 103.7 FM on stormwater, household hazardous waste, and used motor oil in September and October.	
Network	<i>Issues in the Cayuga Lake Watershed</i> reprinted. Hundreds distributed in Cayuga County.	

DUCK LAKE

Duck, Planning & SWCD	Begin work on a Duck Lake Watershed Management Plan.	<p>Eight people attended a state of the lake and watershed management plan informational meeting in the Town of Conquest in October.</p> <p>Planning has begun collecting information and gathering past reports on Duck Lake for the state of the lake report.</p> <p>Info on Duck Lake added to WQMA webpage at http://co.cayuga.ny.us/wqma/ducklake/index.htm</p>
Duck	Aquatic weed control to include identification and removal methods and use of new harvester.	Aquatic weeds were under control after last year's herbicide treatment.
Duck, Health, & Planning	Continue water sampling including Citizens Lake Assessment Program (CSLAP) through FLOWPA funding.	Provided FL-LOWPA funds for the CSLAP program for one site on Duck Lake. Received the data from the 2003 program.
Duck & Health	Monitor phosphorus levels in the lake.	Phosphorus level in the lake was good this year. The Duck Lake Association looked at getting a hand held monitor to monitor phosphorus levels in the lake, but due to discussion with others who have used similar monitors that were not sensitive enough, they have put this on hold.
Duck	Monitor coliform levels in the lake.	Analyzed one set of bacteria samples this year and some areas had high levels.
Duck	Identify lake level problems.	Concerns continue over lake level.
Duck	Continue to create awareness of dangers of spreading unwanted weeds and zebra mussels as well as feeding ducks and geese.	Fewer geese problems due to education and use of fences.

LITTLE SODUS BAY

Planning	Fair Haven Sewer Project, Village of Fair Haven. Provide requested technical assistance.	Ongoing.
Planning	Assist the Center for Environmental Information, Inc. as they work on developing the Lake Ontario Coastal Initiative.	Ongoing.

OWASCO LAKE

Agriculture

SWCD and Planning	Implement PDR (purchase of development rights) where feasible.	Received \$394,613 from the Environmental Protection Fund's Farmland Protection fund to purchase a conservation easement for a 247 acre dairy operation in Fleming in the Owasco Lake Watershed.
--------------------------	----------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Aquatic Vegetation

Planning & CCE	Search for funding to inventory and map aquatic vegetation in Owasco Lake, compare to historical data, and determine management needs. Publish findings as an educational tool.	W2O! program is training volunteers to recognize aquatic plants.
Planning & OWLA	Determine water quality, including phosphorus level, in Owasco Lake and the tributaries, and the effect it has on aquatic vegetation. Search for funding to do this.	OWLA worked with IAGT to place a monitoring buoy into Owasco Lake. Some data collected this year and placed on web. CCE received a FL-LOWPA Special Project Fund to conduct a phosphorus sampling program on Owasco and Cayuga Lakes tributaries. Current monitoring program with stations at Dutch Hollow Brook & the Owasco Inlet monitors level, rainfall, & flow. Also, takes samples for lab analysis of total & soluble reactive phosphorus and total solids.
Planning & CCE	Search for funding to develop and implement a sampling plan for determining sources of phosphorus into Owasco Lake.	Received grant from the FLOWPA Special Projects fund entitled "Education and Monitoring Program to Reduce External Phosphorus Loads to Owasco and Cayuga Lakes." Included phosphorus monitoring of Cayuga and Owasco Lakes' tributaries.
CCE	Search for funding to examine reducing sources of phosphorus to Owasco Lake identified through sampling program.	Sampling program is continuing. FLOWPA funds requested to continue sampling program in 2005.
SWCD	Continue work needed to dredge the South end of Owasco Lake.	Preliminary work has started for dredging this winter such as haul road lake access and erosion control.

2004 WQMA Year End Report

Planning	Review intake and other temperature data to see if the lake has been warmer the past few years, which may cause algae to start blooming earlier and longer.	None this year.
-----------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------

Biosolids

City & Health	Continue to enforce the Watershed Rules and Regulations which state: “No human excreta or sewage shall be deposited or spread upon the surface of the ground at any point on the watershed. Composted sludge, pursuant to a permit issued by an appropriate State or local agency having jurisdiction, if any, shall be allowed.”	Ongoing.
--------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------

Boating

Planning & OWLA	Research the “carrying capacity” of boats and jet skis on Owasco lake and study the level of pollution from motorized crafts.	Research started.
Planning	Examine the need for a pumpout station on Owasco Lake.	None to date.
ADDITIONAL WORK		
Planning & CCE	Prepared a fact sheet entitled "Approaches to Regulating Speed on Cayuga County Lakes" which contains information on boating rules and regulations as well as town and village laws from Tompkins and Cayuga Counties. Eco Talk article in the newspaper <u>The Citizen</u> . May 28, 2004. “Use Care when Fueling Boats”	

Education

OWLA	Provide educational columns for the newspaper.	Ongoing.
-------------	------------------------------------------------	----------

Exotic, Introduced and Invasive Species Management

Planning & CCE	Search for funding to initiate a regular inventory and monitoring program for exotic, introduced and invasive species in Owasco lake and watershed.	W2O! program is training volunteers to recognize both native and invasive aquatic plants.
---------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------

Fish and Wildlife Management

Planning & OWLA	Search for funding to determine water quality, including phosphorus level, dissolved oxygen and chlorophyll, in Owasco Lake and the tributaries and the effect it has on fish and wildlife.	OWLA worked with IAGT to place a monitoring buoy into Owasco Lake. CCE received a FL-LOWPA Special Project Fund to conduct a phosphorus sampling program on Owasco and Cayuga Lakes tributaries. Current monitoring program with stations at Dutch Hollow Brook & the Owasco Inlet monitors level, rainfall, & flow. Also, takes samples for lab analysis of total & soluble reactive phosphorus and total solids.
----------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Highway Maintenance

Planning	Conduct a roadside erosion survey in the Owasco Lake Watershed.	Completed. Summary available through Planning.
-----------------	-----------------------------------------------------------------	------------------------------------------------

Lake Level

City & Planning	Continue to educate watershed residents on what to expect in regards to lake level, the hydrologic system, the “rule curve,” about downstream uses of water, and why different people want different lake levels.	WQMA and Health began the process of examining modifying the rule curve. Letter written to ACOE.
City	Encourage local officials who are responsible for lake level management to continue working with others in their region to coordinate flood period discharges (i.e. Balance lake impacts, downstream impacts, etc).	Planning worked with the City to melt ice jams in the Owasco Outlet without adversely impacting lake levels.
SWCD	Continue work needed to dredge the South end of Owasco Lake.	Preliminary work has started for dredging this winter such as haul road lake access and erosion control.

Land Use

Planning	Inventory wetlands and open space resources in the Owasco Lake watershed.	Ongoing.
-----------------	---------------------------------------------------------------------------	----------

Monitoring

OWLA	Continue work on the monitoring buoy for Owasco Lake with IAGT.	Monitoring buoy in lake in the fall. Some data collected and put on web.
OWLA	Continue coliform monitoring of Owasco Lake.	Completed for 2004. Report completed.
OWLA	Continue to examine conducting hydrocarbon monitoring in Owasco Lake.	Ongoing.

Owasco Flats

Planning & Parks	Conduct annual cleanup at Owasco Flats.	The Owasco Flats group conducted a cleanup, so the annual cleanup through the WQMA was cancelled.
-----------------------------	-----------------------------------------	---------------------------------------------------------------------------------------------------

Private and Municipal Wastewater Treatment

Health & Planning	Explore the possibility of upgrading the Groton Wastewater Treatment Facility. Permit is due for renewal in 2006.	WQMA voted to conduct a meeting with the NYSDEC to discuss the WQMA’s concerns of the phosphorus entering the Owasco Inlet from the Groton Waste Water Treatment Plant, which has no phosphorus removal.
------------------------------	-------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Public Access

Parks, Planning, & OWLA	Encourage low impact activities in the watershed like hiking, canoeing and fishing instead of motorized use.	Ongoing.
------------------------------------	--------------------------------------------------------------------------------------------------------------	----------

Streambanks and Stream Corridor Management

SWCD & NRCS	Train staff in remedial fluvial geomorphology and conduct pilot projects on tributaries to Owasco Lake, particularly Dutch Hollow Brook and the Inlet.	SWCD received \$28,484 grant from the Great Lakes Commission Program for Soil Erosion and Sediment Control to implement streambank stabilization on Dutch Hollow Brook.
------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>Train staff in remedial fluvial geomorphology and conduct pilot projects on tributaries to Owasco Lake, particularly Dutch Hollow Brook and the Inlet (continued).</p>	<p>Owasco Inlet stream restoration project has been approved. This is a \$750,000 grant with a \$350,000 match. This will fund natural stream restoration within an area one mile both directions of the Cayuga and Tompkins County line.</p> <p>US Corps of Engineers held a three day training on fluvial geomorphology at the Natural Resource Center in September.</p> <p>SWCD staff member took a weeks training from the US Corps of Engineers in Buffalo.</p> <p>Four SWCD staff attended NRCS training on fluvial geomorphology.</p>
--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Waterborne Illness

<p>Parks & SWCD</p>	<p>Continue to address the bird problem in Emerson Park and entire lake by trying realistic methods.</p>	<p>SWCD used watershed funds to hire the services of Take Flight Goose Management at Emerson Park to conduct geese harassment. Also utilized SWCD Americorp personnel. Reduced number of resident geese and changed geese behavior.</p> <p>SWCD in the process of getting an egg addling permit.</p> <p>A report entitled "Application of a Hydrodynamic Model Related to Coliform Contamination of Beaches in Emerson Park" was released. Funded by FLOWPA.</p>
<p>OWLA, Planning & City</p>	<p>Implement a continuous monitoring program in Owasco Lake and the major tributaries.</p>	<p>Health took shallow and deep samples off of the East Beach over the summer.</p> <p>OWLA continued their summer coliform sampling program.</p>

ADDITIONAL WORK

<p>Health & Parks</p>	<p>Coliform monitoring of Owasco Lake and beach closings.</p>	<p>Health took shallow and deep samples off of the East Beach over the summer.</p> <p>OWLA continued their summer coliform sampling program. Decided to close the beach automatically when one inch of rain falls over a 24 hour period. A phone number is available for people to call to find out if the beach is open or closed.</p> <p>The Cayuga County Board of Health is looking at changing the sampling process at the Emerson Park Beaches. This new sampling process would still meet NYS Department of Health standards.</p>
----------------------------------	---------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

2004 WQMA Year End Report

<p>WQMA</p>	<p>Emerson Park ponds and swale coliform issue.</p>	<p>Special meeting to discuss coliform in Emerson Park pond, which drains into the area of the Emerson Park beaches. Sampling conducted on the pond, swale and tributaries to the pond. Planning and CCE conducted stenciling of storm drains and ditches in the subdivisions that drain into the pond in Emerson Park and provided these homeowners with educational materials.</p> <p>SWCD is examining regrading and revegetating the swale. Parks is examining draining the pond to see the condition of it.</p>
--------------------	-----------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Acronyms and Abbreviations

- Ag: Agriculture
- BMP: Best Management Practices
- CCE: Cayuga County Cornell Cooperative Extension
- Cayuga Lake RPP: Cayuga Lake Watershed Restoration and Protection Plan
- CNY: Central New York
- CNY RPDB: Central New York Regional Planning and Development Board
- CPESC: Certified Professional in Erosion and Sediment Control
- CSLAP: Citizens Lake Assessment Program
- City: City of Auburn
- DEC: New York State Department of Environmental Conservation
- DOS: New York Department of State
- Duck: Duck Lake Association
- EPF: Environmental Protection Fund
- Health: Cayuga County Department of Health and Human Service Environmental Health Division
- Highway: Cayuga County Highway Department
- IAGT: The Institute for the Application of Geospatial Technology
- IO: Cayuga Lake Intermunicipal Organization
- Network: Cayuga Lake Watershed Network
- NRCS: Natural Resource Conservation Service
- NSP: Non-point Source Pollution
- OWLA: Owasco Watershed Lake Association
- Parks: Cayuga County Parks and Trails
- Plan: Cayuga County Department of Planning and Development
- SEQR: State Environmental Quality Review Act
- SWCD: Cayuga County Soil and Water Conservation District
- Tour: Cayuga County Department of Tourism