

New York State Association of Regional Councils



Statewide Water Resources Management Program Project Summaries



Compiled by the Central New York Regional Planning and Development Board
January 2007

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I. INTRODUCTION

The purpose of this document is to describe the New York State Association of Regional Councils' (NYSARC) Statewide Water Resources Management Program and the many diverse projects that have comprised it over the past several years. In order to fully appreciate the magnitude of the NYSARC Statewide Water Resources Management Program, it is necessary to understand NYSARC's membership, their roles and responsibilities.

A. WHAT IS A REGIONAL COUNCIL?

A Regional Council is a public organization created to foster coordination among neighboring counties and to provide a regional approach for addressing multi-jurisdictional concerns. It serves a grouping of counties whose residents are economically, socially and geographically related as a unit. As such, the local governments representing these counties have voluntarily joined together to address common economic and social concerns through the efforts of Regional Councils.

Programmatically, Regional Councils are multi-purpose organizations with legal status. Partially funded by county governments and with state and federal funds, Regional Councils are responsible to the representatives of their member counties. The governing bodies of Regional Councils are primarily composed of local government officials and/or appointed representatives of local and county government.

Nationwide, there are more than 670 Regional Councils representing almost all 50 states. These councils provide a vehicle for local governments to share resources, leverage available funding, and coordinate planning efforts.

Through communication, planning, policy making, coordination, advocacy, and technical assistance, Regional Councils serve the local governments and citizens in their regions by dealing with issues and needs that cross city, town, county, and in some instances, state boundaries.

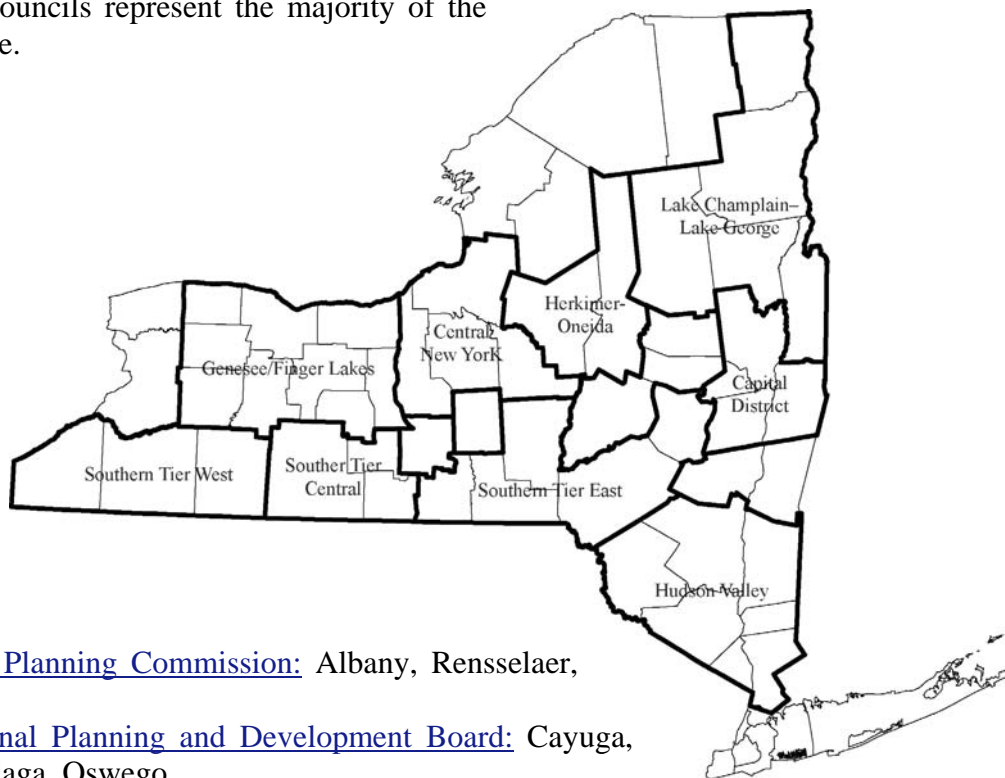
This regional view encourages an impartial, bipartisan exchange of information, and fosters objective recommendations for the resolution of problems, including the ability to interrelate many key areas of concern.

MISSION OF A REGIONAL COUNCIL

To study the needs and conditions of an entire region and to develop strategies that enhance the region's communities through intergovernmental cooperation, seizing of economic opportunities, and the pursuit of improvement to the well being of its citizenry.

B. WHAT IS THE NEW YORK STATE ASSOCIATION OF REGIONAL COUNCILS?

The New York State Association of Regional Councils (NYSARC) is composed of nine locally created Regional Councils throughout New York State. These councils represent the majority of the counties in New York State.



Capital District Regional Planning Commission: Albany, Rensselaer, Saratoga, Schenectady

Central New York Regional Planning and Development Board: Cayuga, Cortland, Madison, Onondaga, Oswego

Genesee/Finger Lakes Regional Planning Council: Genesee, Livingston, Monroe, Ontario, Orleans, Seneca, Wayne, Wyoming, Yates

Herkimer-Oneida Counties Comprehensive Planning Program: Herkimer, Oneida

Hudson Valley Regional Council: Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, Westchester

Lake Champlain-Lake George Regional Planning Board: Clinton, Essex, Hamilton, Warren, Washington

Southern Tier Central Regional Planning and Development Board: Chemung, Schuyler, Steuben

Southern Tier East Regional Planning and Development Board: Broome, Chenango, Cortland, Delaware, Otsego, Schoharie, Tioga, Tompkins

Southern Tier West Regional Planning and Development Board: Allegany, Cattaraugus, Chautauqua

Note: While the listing of counties served by NYSARC members represents their official membership, many regional projects overlap into neighboring counties.

Articles 12-B and 5-G of the New York State General Municipal Law gave affiliated counties the legal authority to create regional or metropolitan planning boards and joint-purpose municipal corporations.

New York's Regional Councils provide comprehensive planning for the coordinated growth and development of their regions. This responsibility involves marketing the region and providing planning services relating to small business promotion, job training, economic development, land use, transportation, energy, environmental and water resources management, human resources management, and regional data services. Many of the state's Regional Councils also offer technical assistance to communities within their regions including grant application and coordination, financial expertise, juvenile delin-

quency prevention, computer assistance, government training, community planning, flood prevention, and information services.

The members of NYSARC play a unique role in the state. By presenting a regional perspective on issues, Regional Councils promote intergovernmental cooperation and facilitate dialogue between state and federal governments and smaller municipalities. Accordingly, the NYSARC has developed an ongoing working relationship with a variety of state agencies to deliver state-funded programming on a regional basis.

Examples of services that Regional Councils perform on behalf of their regions and New York State include:

Water Quality Management Planning: Prepare watershed plans; develop nonpoint source pollution control strategies; coordinate monitoring; conduct outreach, education and public participation programs; build partnerships; develop GIS data and maps; conduct inventories and data collection; and provide assistance to municipalities to support compliance with water quality regulations as part of New York State Department of Environmental Conservation (NYS DEC) and U.S. Environmental Protection Agency (U.S. EPA) programs.

Land Use Planning: Conduct activities associated with land use regulations and control, including land use suitability and open space preservation analysis, comprehensive land use plan development, transportation planning and access management.

Economic Development: Administer NYS Economic Development Districts, create and maintain a Comprehensive Economic Development Strategy (CEDS), manage the Economic Development Administration (EDA)-funded economic development projects in their respective regions, and administer regional based Revolving Loan Funds.

Telecommunications: Assess and enhance regional telecommunication resources to provide economic development opportunities in conjunction with the New York State Empire State Development Corporation.

Geographic and Data Services: Utilize Geographical Information Systems (GIS) technology to provide valuable data to a variety of users and serve as the New York State-designated Affiliate Data Center by providing statistical data services to communities throughout New York.

Aviation Planning: Work with regional airports in developing regional aviation systems on a coordinated basis with the New York State Department of Transportation (NYS DOT) and the Federal Aviation Administration (FAA).

Energy Use, Planning and Development: Provide communities with the information, assistance and tools needed to make sound decisions relative to energy planning, efficiency measures and technology adoption.

Although NYSARC regions do not include all NYS counties, NYSARC members have the ability to contract with and include non-member counties in various types of programming to obtain statewide or expanded regional coverage. In the past, this arrangement has been implemented under the Statewide Water Resources Management Program whereby NYSARC has provided the NYS DEC with assistance

in public participation and outreach efforts. It has also been implemented to include non-member counties in watershed planning programs where hydrologic boundaries necessitate involving those counties.

STATEWIDE WATER RESOURCES MANAGEMENT PROGRAM GOAL

The goal of the NYSARC Water Resources Program is to promote high quality water resources in NYS by developing and encouraging partnerships and implementing unified statewide programs that lead to comprehensive water resources planning and implementation.

C. WHAT IS THE NYSARC STATEWIDE WATER RESOURCES MANAGEMENT PROGRAM?

Overall Program Activity

New York's Regional Councils have been active in water resources management since the 1970s via various federal Clean Water Act funding programs provided through the U.S. Environmental Protection Agency (U.S. EPA) and the NYS Department of Environmental Conservation (NYS DEC). Since the late 1980s, substantial funding for NYSARC water projects has come from Sections 205(j) and 604(b) of the Clean Water Act. As required by these sections of the federal law, a state must:

“... develop jointly with local, regional, and interstate entities, a plan for carrying out the program and give funding priority to such entities and designated or undesignated public comprehensive planning organizations to carry out the purposes of this subsection. In giving such priority, the State shall allocate at least 40 percent of the amount granted to such State for a fiscal year... to regional public comprehensive planning organizations in such State... for the development and implementation of the plan...” [excerpted from Section 205(j)]; and “Each State shall reserve each fiscal year 1 percent of the sums allotted to such State under this section for such fiscal year, or \$100,000, whichever amount is greater, to carry out planning under section 205(j)...” [excerpted from Section 604(b)].

An increasing amount of water resource funds provided by state agencies comes from the NYS Environmental Protection Fund with support through the NYS DEC, NYS DOS, U.S. EPA, and other funding sources.

Since 1988, NYSARC members have worked closely with local governments to undertake several water-related initiatives including:

- watershed planning
- stormwater and floodplain management and hazard mitigation
- source water protection (ground and surface water)
- nonpoint source (NPS) pollution control
- outreach, training, and educational programs
- fostering multi-county, intermunicipal and governmental collaboration and cooperation to identify, develop and implement necessary water resources programs

- providing technical assistance to communities and counties
- GIS mapping and data development
- inventorying and data collection
- public participation assistance

Collaboration, Partnerships and A Watershed Focus

Fostering collaboration and building partnerships are key functions of the NYSARC Water Resources Management Program, and play an integral role in developing and carrying out successful, proactive programming. NYSARC places strong emphasis on collaboration of efforts both within and across regional council boundaries, and facilitates and conducts watershed-based initiatives. A significant aim of NYSARC water projects is transferability of methodology and/or products to other areas of the state and other watersheds. To this end, NYSARC works closely with state and local governments, county water quality coordinating committees (WQCCs), and the many other local and regional parties involved in water resource protection. In addition, NYSARC often enlists the expertise and services of local agencies, such as county planning departments, soil and water conservation districts, and cooperative extension offices to help carry out its many projects.

NYSARC's strong connection to local governments for the purpose of supporting and representing the collective interests and needs of counties and municipalities, coupled with its close working relationship with the NYS DEC, enable NYSARC to serve in a unique capacity as a primary entity for establishing and coordinating water resource management programming to address both state and local priorities. NYSARC works closely with the NYS DEC to provide unified, nearly statewide coverage of water resources management needs suited to be handled at the regional level. Because the regional perspective is broad enough to address multi-community concerns, yet is local enough to be sensitive to unique issues, NYSARC has specifically been looked to by the NYS DEC to provide such statewide water resources management services through the years, and is increasingly recognized by local governments as a vehicle for the development of locally applicable programs.

A prime example of collaborative NYS DEC / NYSARC / local government programming is found in support of the State Pollutant Discharge and Elimination System (SPDES) Phase II Stormwater Permits. Under this initiative, NYSARC is working with the NYS DEC to help develop effective Phase II programming, as well as with regulated municipalities and entities to facilitate their support and compliance with Phase II regulations. This is being accomplished through the fostering of intermunicipal cooperation and the development of regionally targeted assistance programs.

Watershed planning is another example of proactive collaborative programming. NYSARC has helped local governments by coordinating the development of watershed plans that allow them to more successfully obtain funding for water resource protection and remediation, while simultaneously helping to meet state priority watershed management goals.

How NYSARC “Fits In” Hydrologically and Politically

The following pages contain: 1) a map showing the major drainage basins in NYS and how they correspond with NYSARC members; and 2) a chart illustrating how NYSARC fits into the multi-faceted partnership of federal, state, regional, county and municipal entities involved in water resource protection in NYS.

Project Descriptions

Section II provides a summary of NYSARC water resources projects conducted since 1988 arranged by member agency.

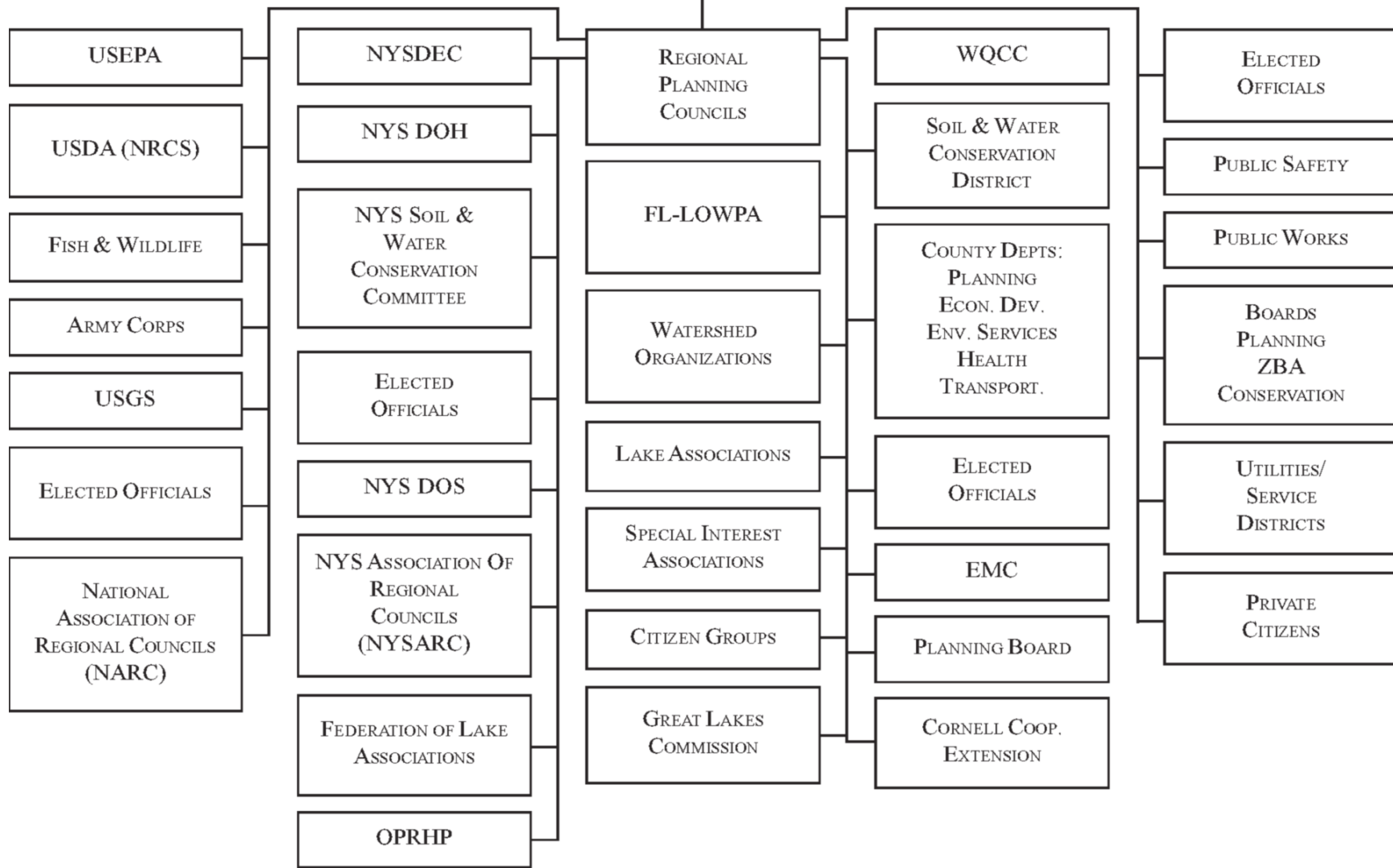
For More Information

Section III provides contact information for the nine NYSARC members with current water resources management programs. For information about NYSARC's Statewide Water Resources Management Program visit the program website at www.cnyrpdb.org/nysarcwater or by contacting the Central New York Regional Planning and Development Board (CNY RPDB) at (315) 422-8276. The CNY RPDB serves as NYSARC's Statewide Water Resources Management Program Coordinator. Inquiries about specific projects should be directed to the relevant NYSARC member.



NYSARC WATER RESOURCE PARTNERSHIPS

Federal — State — Regional — County — Municipal



II. NYSARC STATEWIDE WATER RESOURCES MANAGEMENT PROGRAM PROJECT SUMMARIES, 1988–2006

This section contains summaries of NYSARC water resources projects conducted since 1988. The summaries are grouped by Regional Council. Within each Regional Council, projects are arranged chronologically, beginning with ongoing and most recent projects.

A. CAPITAL DISTRICT REGIONAL PLANNING COMMISSION (CDRPC)

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Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

GIS Data Collection and Analysis

Time Period of Project:

Ongoing

Project Location:

Albany, Rensselaer, Saratoga and Schenectady
Counties

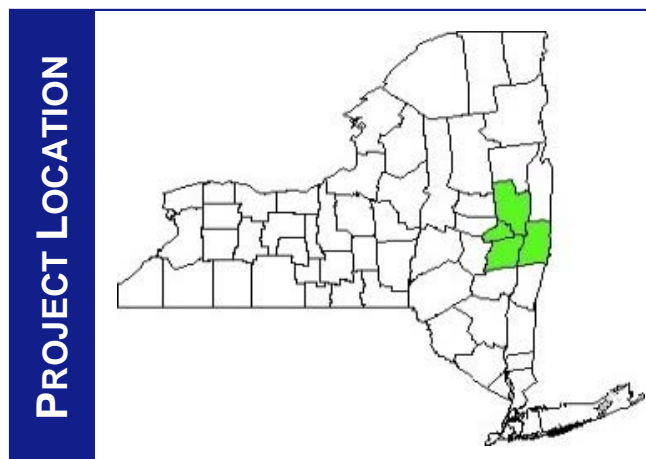
Project Contact:

Todd Fabozzi - Project Manager

Project Description(s):

CDRPC has developed and maintains an extensive regional Geographic Information System. A variety of water quality related data-sets have been compiled and/or created including: municipal boundaries, roads, hydrography, wetlands, floodplains, elevations, slopes, watersheds, soils, land-use, land-cover, ortho-photography, satellite imagery, water districts, sewer districts, new developments, and demographic attributes.

CDRPC has utilized the GIS to develop a variety of maps for water quality purposes and continues to develop and provide customized GIS digital files for watersheds throughout the Capital Region.



Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Education/Information/Outreach

Time Period of Project:

Ongoing

Project Location:

Albany, Rensselaer, Saratoga and Schenectady
Counties

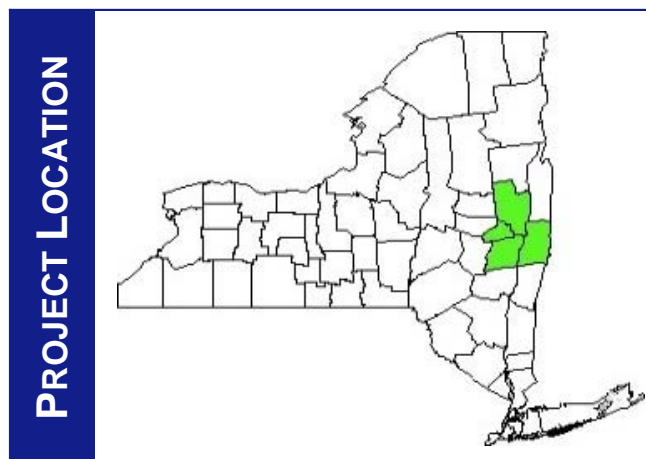
Project Contact:

Todd Fabozzi - Program Manager

Leif Engstrom – Program Manager

Project Description(s):

Staff support is provided, on a continual basis, to the County Water Quality Coordinating Committees and the communities they serve in response to specific requests and issues. Also, CDRPC staff has served, and is available to serve, in an advisory and/or technical capacity for specific watershed studies. In addition, CDRPC co-sponsors and/or participates in educational forums and workshops throughout the region on water resource related topics.



Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Phase II Stormwater Protection Program

Time Period of Project:

Ongoing through 2011

Project Location:

Albany, Schenectady, Rensselaer, Saratoga Counties

Project Contact:

Leif Engstrom – Program Manager

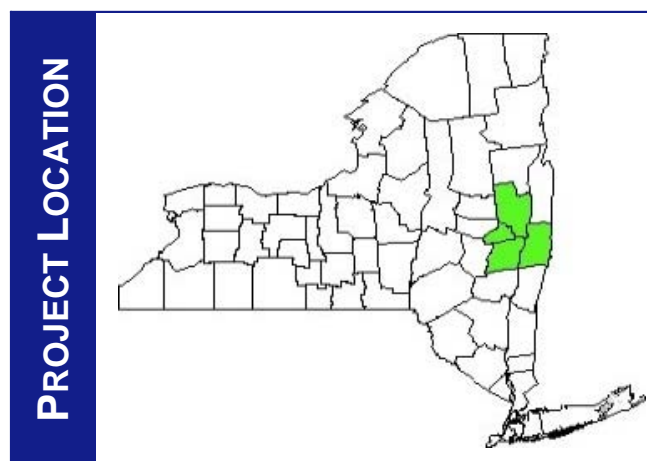
Project Description(s):

Purpose/Objective: This project places priority on assisting the New York State Department of Environmental Conservation (DEC), in conjunction with the County Water Quality Committees, in providing planning support for implementation of New York State's MS4 Phase II Stormwater Permit Program and providing support to regulated entities in the implementation of the program's requirements.

Methods: The proposed tasks are being conducted over a four-year period, with emphasis on the first two years. Assistance activities are being provided under four general categories: Outreach, Support, Program Evaluation and Compliance. The outreach and support activities are tailored to identify resources to assist the regulated entities and to help develop, implement, and improve upon their Stormwater Management Programs (SWMP). The work program also includes activities that support DEC's effort to assure compliance with the program requirements.

Outputs: The outputs of this project include:

Two region-wide half-day technical training sessions with the county planning departments, and the County MS4 consortiums on the preparation of the MS4 Annual Reports. The sessions are geared toward the municipal staff and consultants



who will fill out the Year 3 and Year 4 Annual Reports.

CDRPC works with DEC and the County MS4 consortiums to identify, compile, and distribute educational materials to illustrate the importance of stormwater pollution prevention. This effort included the creation of a regional public service announcement/billboard campaign.

A regional repository (hard-copy and web-based) of water quality information tailored to the Phase II program.

CDRPC offers technical GIS expertise to regional MS4 communities to assist them in their outfall and illicit discharge mapping efforts. GIS conversion services are also offered along with file enhancements and transfers where appropriate in support of and to supplement county and local GIS activities.

CDRPC coordinates with DEC the necessary support to review and prepare written comments/evaluations of the Capital District's regulated MS4 annual reports.

Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Albany Pool Combined Sewer Overflow (CSO)
Long Term Control Plan (LTCP) Development

Time Period of Project:

Ongoing through 2009

Project Location:

Albany and Rensselaer Counties

Project Contact:

Leif Engstrom – Program Manager

Project Description(s):

Purpose/Objective: The Capital District Regional Planning Commission has taken the lead in organizing and managing a collaborative regional consortium to coordinate the efforts of the "*Albany Pool*" communities to develop a comprehensive inter-municipal Phase I Long Term Control Plan (LTCP) for Combined Sewer Overflows (CSO) discharging into the Albany/Rensselaer County segment of Hudson River. The goal is to develop and implement a LTCP to make this portion of the Hudson suitable for contact recreation. The project is consistent with water quality policies and recommendations established in the Hudson River Estuary Plan and the Federal Combined Sewer Overflow Policy.

The *Albany Pool* communities are the City of Albany Water Board, the Cities of Cohoes, Rensselaer, Troy and Watervliet, and the Village of Green Island. Each community has its own CSO SPDES permit and has agreed as a condition of its Permit to create a joint LTCP by 2009. Together with the Albany and Rensselaer County Sewer Districts, these communities have created a unique consortium to address their combined sewer overflow problems. On their behalf, CDRPC has applied for and received \$2.28 million in grant money to assist the communities in preparing a Phase I LTCP.

PROJECT LOCATION



Methods: The LTCP Development has been divided into two efforts. Part A included an inter-municipal agreement to engage consultants to develop a scope of work, budget, and a cost allocation agreement for Part B. Part B includes the elements outlined in the approved scope of work to complete the LTCP.

In addition to acting as project manager, CDRPC will lead the creation and implementation of the Public Participation Plan, which is required by the EPA guidelines.

Outputs: The outputs of this project include:

An approvable and feasible CSO LTCP for the *Albany Pool* communities.

Two cost allocation agreements, one for Part A and one for Part B.

Two intermunicipal agreements, one for each Part.

A model intermunicipal project incorporating watershed principles.

Cleaner water in the Hudson River in line with the policies set forth in the Hudson River Estuary Plan.

Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Onesquethaw-Coeymans Watershed Management Plan

Time Period of Project:

Ongoing through 2007

Project Location:

Southern Albany County

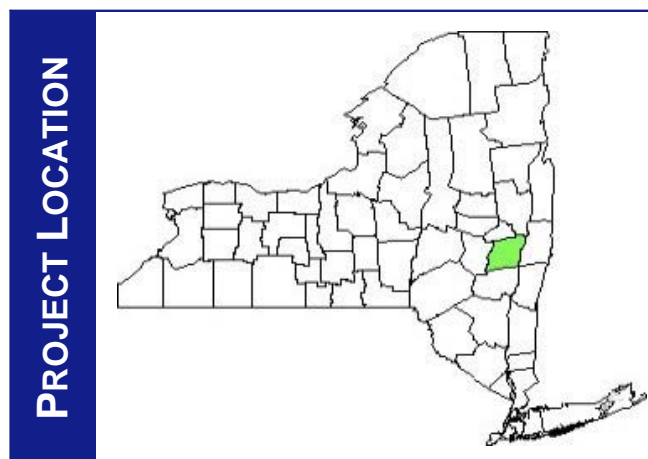
Project Contact:

Todd Fabozzi – Program Manager

Project Description(s):

The Onesquethaw/Coeymans Watershed encompasses an area of approximately 52 square miles within southern Albany County. The watershed includes portions of the towns of Berne, Bethlehem, Coeymans and New Scotland and the Village of Ravena. The streams support a population of brown trout and portions are classified as trout spawning habitat. Significant karst topography exists throughout the watershed. Lack of adequate water quality protection measures and practices leaves the stream vulnerable to water pollution impacts. The project is funded by a \$36,000 Hudson River Estuary Program Environmental Protection Fund grant, which was awarded to the Onesquethaw-Coeymans Watershed Council. The council is a non-profit organization, formed in 2001 whose mission is to protect and improve the Onesquethaw-Coeymans Creek and its watershed for the benefit of people, wildlife, and the environment. The council contracted with CDRPC to complete the "state of the watershed" assessment portion of the management plan and to help form strategies for and action plan of implementation.

Purpose/Objective: The purpose of this project is to develop a Watershed Management Plan for the Onesquethaw-Coeymans Watershed that consists of two components; an assessment of the "State of the Watershed" that describes existing knowledge, trends, partnerships, and significant information



gaps, and an action plan developed with the help of watershed stakeholders and municipal officials that identifies strategies to protect and restore water resources and wildlife habitat.

Methods Employed: Literature and document research and summary; stakeholder interviews; site visits; photography; creation of GIS data/maps including: soils, land use, land ownership, land cover, development change, wetlands, flood zones, roads, municipal boundaries, SPDES permits, topography, sewer districts, water districts, and air photos; evaluation of local and state land use regulations; recommendation of regulatory methods and best management practices; and public presentations and outreach.

Outputs: A watershed management plan outlining strategies to protect and restore water resources and wildlife activity within the watershed.

Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Watervliet Reservoir Watershed Protection Study

Time Period of Project:

2002–2003

Project Location:

Watervliet Reservoir Watershed/ Albany,
Schenectady, Schoharie Counties

Project Contact:

Todd Fabozzi – Program Manager

Project Description(s):

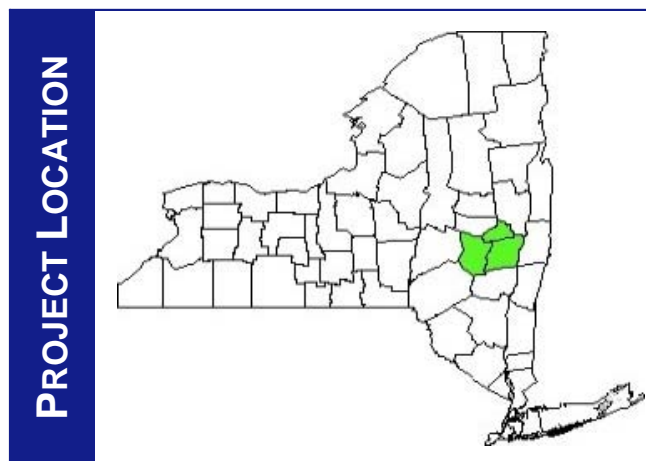
The Watervliet Reservoir is owned by the city of Watervliet and is the city's sole drinking water source. The reservoir, which is located in the town of Guiderland (Albany County), is also the primary public drinking water source for the town. The Watervliet Reservoir watershed encompasses an area of approximately 115 square miles within three counties and eleven local municipalities. Development pressures and a lack of adequate water quality protection measures continue to threaten the long-term viability of the reservoir as a drinking water source.

Purpose/Objective: The goal of this study is to comprehensively identify the threats – existing and potential – to the Watervliet Reservoir, and to offer potential solutions, policies, and regulatory guidelines that can mitigate these threats so that the reservoir remains a quality drinking water source in the future. The following are specific objectives of the study:

Describe the relationship between land use and water quality;

Examine environmental features within the watershed;

Examine the manmade features within the watershed, including public infrastructure and land use,



as well as, describe the growth trends within the watershed;

Examine the current land use regulations within the watershed as they pertain to water quality;

Identify potential water quality issues and threats;

Offer recommendations for mitigating existing threats and for minimizing future threats to the water quality of the reservoir.

Methods Employed: Literature and document research; interviews; site visits; photography; creation of GIS data/maps including: soils, land use, land ownership, land cover, development change, wetlands, flood zones, roads, municipal boundaries, SPDES permits, topography, sewer districts, water districts, and air photos. Local and state land use regulations have been evaluated. In addition, public presentation/workshops have been held to present the study and to solicit local input on the issues identified and possible recommendations to be considered.

Outputs: (1) GIS Maps (2) Digital site/issue photos, and (3) a written, digital (PDF) report.

Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Watershed Protection and Management Plan for
Ballston Lake

Time Period of Project:

2000 – 2001

Project Location:

Ballston Lake Watershed – Saratoga County

Project Contact:

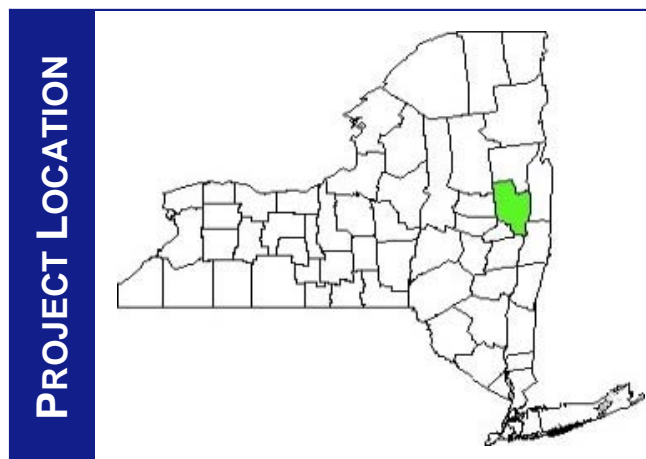
Leif Engstrom - Planner

Project Description(s):

Purpose/Objective: To assist stakeholders, including the County Water Quality Committee, in developing an action plan to protect the watershed and lake habitat and water quality. The plan is being created in anticipation of development along the Highway 50 Corridor, which runs parallel to the lake.

Methods Employed: Draw upon existing lake and watershed information and data. Utilize CDRPC GIS to map the watershed and analyze the environmental constraints and development patterns within the watershed. Gather input from state agencies, local governments, landowners, the lake association, SWCD, and SCWQC concerning Ballston Lake water quality, development and lake usage. Analyze the gathered information and make recommendations for water quality protection and improvement.

Outputs: A report that outlines the key issues and concerns and recommended actions. The report includes a series of GIS generated maps delineating environmental characteristics. Recommendations include regulatory changes, physical protective measures, BMPs, and land acquisition.



Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Source Water Protection: Village of Stillwater
Aquifer Protection Study

Time Period of Project:

1996 - 1997

Project Location:

Town/Village of Stillwater - Saratoga County

Project Contact:

Todd Fabozzi - Program Manager

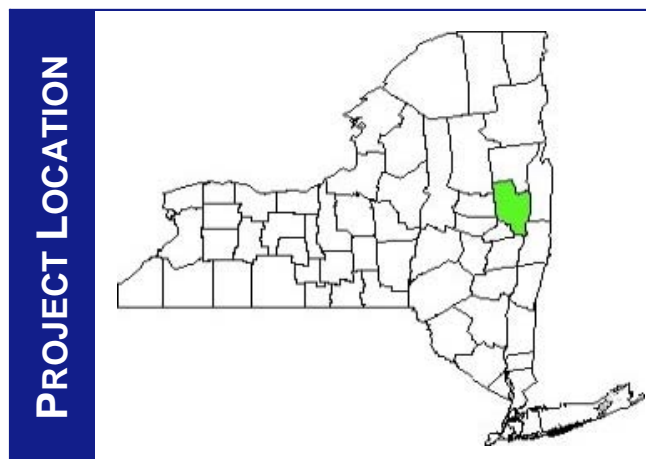
Project Description(s):

Coordinating Agencies: Rensselaer County
SWCD and USDA NRCS, Saratoga County
SWCD and USDA NRCS

Purpose/Objective: To develop a strategy and offer recommendations to the Village to protect the long-term integrity of its water supply. The primary components include an overview of the environmental features and characteristics of the aquifer, an analysis of existing land uses to identify potential land use water quality conflicts and regulatory and nonregulatory actions to protect the Village water source.

Methods Employed: Analyze existing environmental conditions and land uses within the watershed. Maps were prepared using GIS to delineate wetlands, floodplains, slopes, soil characteristics, and existing land uses within the watershed. Existing land use regulations were reviewed at the local level along with applicable state and federal regulations. Specific recommendations were made to address areas of concern that exist, based on the study's findings.

Outputs: A report that outlines the key issues and concerns and recommended actions. The report includes a series of GIS generated maps delineating environmental characteristics. Two regulatory options are outlined: the preparation of a local wa-



ter resource protection law or the adoption of zoning regulations. Land acquisition options are also defined along with a recommendation to extend Village sewer lines. Funding options are included. There is an Appendix, outlining Best Management Practices. Technical support has been provided to the Village in the preparation of a local water resource protection law.

Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Watershed Stormwater/Erosion Control Management Program

Time Period of Project:

1994–1997

Project Location:

Tomhannock Reservoir - Rensselaer County, and selected watershed areas in Saratoga County

Project Contact:

Todd Fabozzi - Program Manager

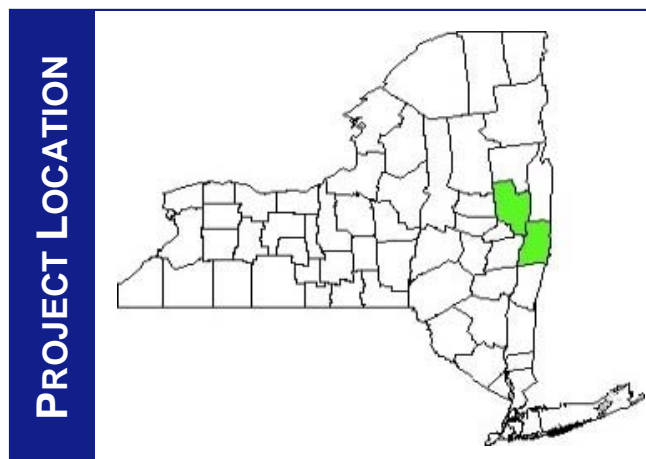
Project Description(s):

Cooperating Agencies: Rensselaer County SWCD and USDA NRCS, Saratoga County SWCD and USDA NRCS

Purpose/Objective: To develop a regional strategy for watershed management as it relates to non-point source pollution of sediments and nutrients. The primary components include: (1) Determine the impact of development (urban runoff, soil and sedimentation control and pollution) on the Tomhannock Reservoir watershed and in selected water priority areas of Saratoga County; (2) evaluate agricultural nonpoint source BMPs in the Tomhannock Watershed with regional application.

Methods Employed: Review and assess current regulations and practices as they relate to objectives for water quality protection for each municipality within the watershed's boundaries; GIS analysis of environmental and geographic conditions; implementation of BMPs at a farm site in the Tomhannock Reservoir watershed; and demonstration site selection in Saratoga County for implementation of sedimentation control measures.

Outputs: (1) Technical reports assessing current regulations and practices and recommended non-point pollution management measures for each



municipality studied; (2) reports covering BMPs, specific activities undertaken at the Kershaw Farm, and the findings of the monitoring and sampling programs; (3) a report outlining the soil and sedimentation control practices utilized and their effectiveness at each of the demonstration sites in Saratoga County; (4) educational materials featuring impacts of other land-use activities and BMPs to control this problem; (5) selected GIS-created environmental and geographic files for the watershed municipalities studies.

Agency Name:

Capital District Regional Planning Commission
One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850

Title of Project:

Source Water Protection:
Groundwater/Wellhead Protection Program
Phase I - Southwestern Rensselaer County
Phase II - Southern Saratoga County

Time Period of Project:

Phase I: 1990–1993

Phase II: 1993–1994

Project Location:

Phase I: Southwestern Rensselaer County

Phase II: Southern Saratoga County

Project Contact:

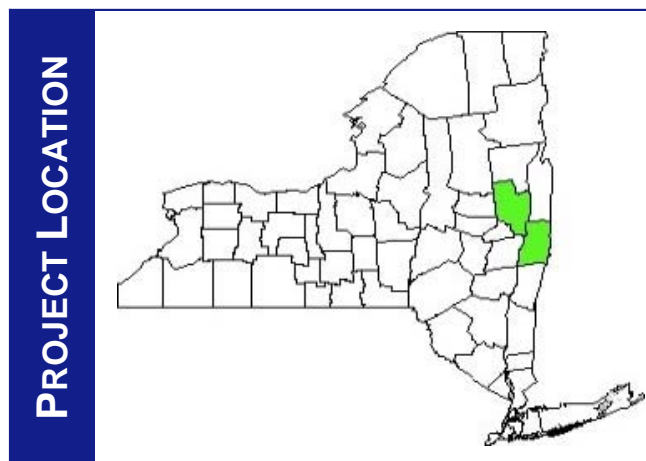
Todd Fabozzi - Program Manager

Project Description(s):

Purpose/Objective: To increase public awareness in selected communities regarding the importance of implementing groundwater protection measures to protect drinking water supply source. Reports will facilitate development of effective management strategies and appropriate land-use measures to assist the municipalities in this effort.

Methods Employed: Research public and non-municipal water data; GIS analysis of environmental and geographic conditions, locations of wellhead sites, and land-use controls; and research viable land-use management strategies for groundwater protection.

Outputs: (1) A Well Data Inventory including well locations and ownership, population served, and the number of services, well depth/diameter/construction/distribution/storage capacity, safe yield, average consumption/production presence of treatment; (2) a Field Study Area Inventory of digital data (composed of aggregated one-mile radii surrounding each well including existing land-use activities; level of



overall potential threat to groundwater by these activities; zoning districts; (3) (for Phase II only) a compilation and discussion of BMPs to reduce or eliminate the generation of releases of groundwater contaminants; and (4) recommended land-use management strategies and appropriate techniques to protect groundwater supplies.

B. CENTRAL NEW YORK REGIONAL PLANNING AND DEVELOPMENT BOARD (CNY RPDB)

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Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
13202
(315) 422-8276

Title of Project:

Education/Information/Outreach/Technical Assistance

Time Period of Project:

Ongoing

Project Location:

Cayuga, Cortland, Madison, Onondaga and
Oswego Counties

Project Contact:

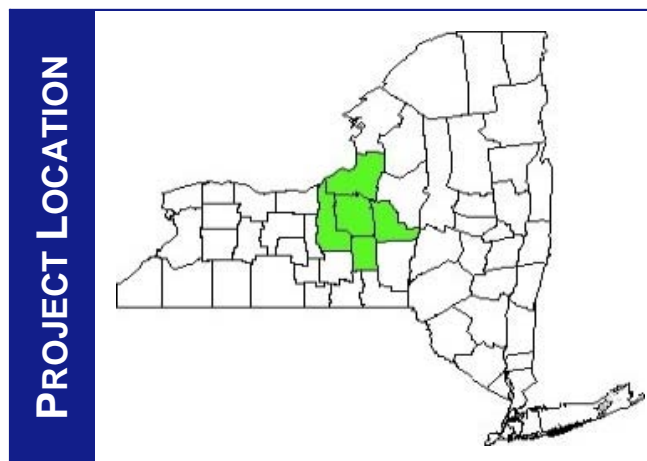
Kathleen Bertuch - Program Manager

Project Description(s):

Projects involve needs identification and delivery of water resources education / information / outreach in the region, and provision of technical assistance to the region and DEC in the development and execution of water resources planning programs including:

Stormwater Permit and Management Assistance:

1) Provision of information/education/outreach about stormwater management and its connection to floodplain management; and support of statewide initiatives such as those of the NYS Floodplain and Stormwater Managers Association. 2) Support for building and maintaining continued partnerships between state, regional, county and local entities to facilitate coordinated assistance for SPDES Phase II Permits and associated programs. 3) SPDES Phase II MS4 Permit assistance to DEC and MS4s in the Syracuse Urban Area through: a) outreach to help MS4s understand compliance requirements and resources available to them; b) support to MS4s with permit compliance through development of regional programs, conduct of regional assessments, and fostering of intermunicipal cooperation; c) program evaluation assistance to help DEC evaluate development and implementation of stormwater management pro-



grams; and d) administrative support to DEC to ensure receipt and adequacy of required reporting documents and programs. 4) SPDES Phase II Construction Permit assistance to DEC and those affected by the Construction Permit in the region through: a) outreach to help construction entities understand compliance requirements and resources available to them; and b) support of training programs to facilitate compliance.

Water Chestnut Control Assistance: Assistance provided to counties in region affected by water chestnut infestations through: 1) preparation of report summarizing infested areas, control actions in place, and other control actions needed; 2) coordinating development of the first permit application submitted in the region to the NYS DEC for use of a herbicide to help control water chestnut.

Workshop on Collecting Water Quality Information and Data: Worked with the NYS S&WCC to develop and hold a statewide workshop for county WQCCs on ways to gather water quality data and information.

1996 Clean Water/Clean Air Bond Act: Researched and provided information to the region, in preparation for public vote on Bond Act.

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Title of Project:

Data Collection and Analysis

Time Period of Project:

Ongoing

Project Location:

Cayuga, Cortland, Madison, Onondaga and
Oswego Counties

Project Contact:

Kathleen Bertuch - Program Manager

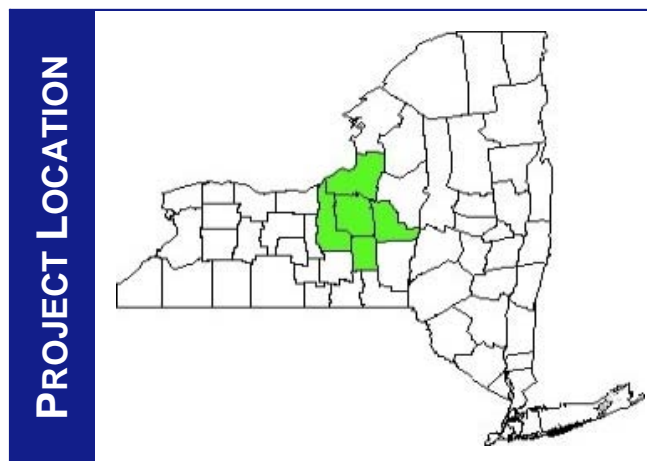
Project Description(s):

Geographic Information Systems: CNY RPDB has developed an extensive regional Geographic Information System that includes a variety of data sets to assist in water resource planning and management. These include: watersheds, wetlands, soils, slopes, elevations, hydrography, municipal boundaries, roads, public infrastructure, elevations, land use/land cover, ortho photography, satellite imagery and U.S. Census demographic data.

CNY RPDB has utilized the GIS to support a number of water quality and related land use projects including developing various planning maps for the Oneida Lake Watershed, conducting a natural resource inventory for all cities, towns and villages in Cortland County and for conducting a land use suitability analysis for select municipalities in Cayuga County.

Remote Sensing: CNY RPDB has successfully incorporated the use of high-resolution aerial imagery into many water quality projects including development of a three-county regional base map for identifying Stormwater outfalls.

Salt Storage and Road Deicing Inventory: CNY RPDB completed a salt storage and road-deicing inventory in the Oneida Lake Watershed. This in-



cluded the development of a survey document and database for analyzing survey responses.

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Title of Project:

Regional Cooperation and Collaboration

Time Period of Project:

Ongoing

Project Location:

Cayuga, Cortland, Madison, Onondaga, and
Oswego Counties

Project Contact:

Kathleen Bertuch - Program Manager

Project Description(s):

General Collaboration and Cooperation: Working
in general to collaborate with and facilitate col-
laboration and cooperation among water quality
partners in the region and state.

Water Quality Coordinating Committee (WQCC)

Participation: Regularly participating in meetings
of county WQCCs in the region, providing assis-
tance as requested by WQCC, serving as liaison
between WQCC and DEC region, and fostering
multi-county coordination. Support and assistance
activities include local land use planning, water-
shed planning, funding identification/program de-
velopment/grant writing, water chestnut control,
editorial assistance, documentation of strategy ac-
complishments, map preparation, data and infor-
mation sharing, stormwater management,
coordination of monitoring, and input for County
Water Quality Strategy updates.

Regional NPS Strategy Meetings: Regularly con-
vening county and regional water quality partners
in Central New York to discuss County Water
Quality strategies in a regional context, and dis-
cuss local and regional priorities. Meetings aim to
foster a better understanding of activities and pri-
orities and enact a process toward a unified re-
gional strategy.

PROJECT LOCATION



Local Prioritization of Monitoring Needs: Worked
with WQCCs to get local input on monitoring
needs associated with the State's Priority Water-
body List segments. Effort also collected local in-
put as to how counties would prioritize these
needs.

Regional NPS Water Quality Activities Inventory:

Developed a database and GIS inventory of water
quality activities in the region to strengthen de-
velopment and coordination of future regional and
local water resource efforts. Expected to be up-
dated periodically.

Watershed Restoration and Protection Action

Strategies: Worked on behalf of NYS DEC to as-
sist in the preparation of Strategies for watersheds
in the region, including the eastern Finger Lakes,
Lake Ontario Direct Drainage, the Oswego River
and Oneida Lake.

Basin Teams:

Worked with DEC to establish Ba-
sin Teams in Lake Ontario Basin. Convened a
meeting of regional partners (DEC-Regional Of-
fices, NRCS Area Conservationists, NYS
S&WCC Regional Coordinators, FL-LOWPA and
others) around a watershed of common interest to
identify water resource issues, the status of work
done on them, and the priority of the issues.

Agency Name:

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Title of Project:

Statewide Coordination of NYSARC Water Re-
sources Management Planning Program

Time Period of Project:

Ongoing

Project Location:

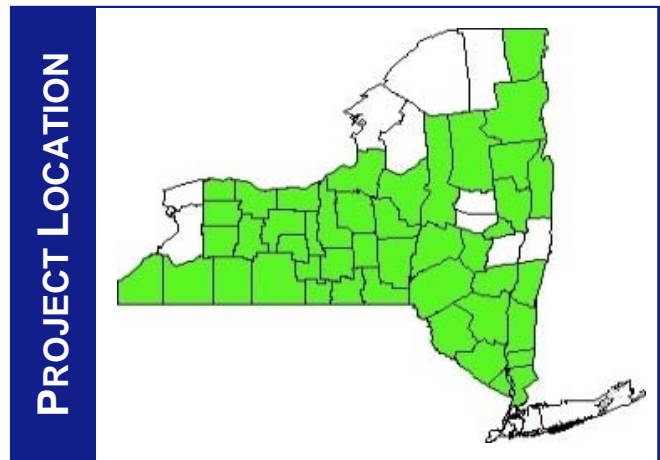
Statewide – coverage by region in conjunction
with NYSARC jurisdictions.

Project Contact:

Kathleen Bertuch - Program Manager

Project Description(s):

Working on behalf of the NYSARC and the NYS DEC as the Statewide Water Resources Management Program Coordinator, the CNY RPDB is responsible for the following tasks: (1) coordinating water quality activities of all NYSARC members that participate in the Water Program; (2) marketing Regional Council water resources services; (3) negotiating with the NYS DEC for ongoing NYSARC funding; and (4) serving as the liaison between the NYSARC and the NYS DEC as pertains to NYSARC water resources programming, funding and contracting issues.



Agency Name:

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Title of Project:

Aquatic Invasive Species Management Plan

Time Period of Project:

2006–Ongoing

Project Location:

Cayuga, Cortland, Madison, Onondaga and
Oswego Counties

Project Contact:

Kathleen Bertuch - Program Manager

Project Description(s):

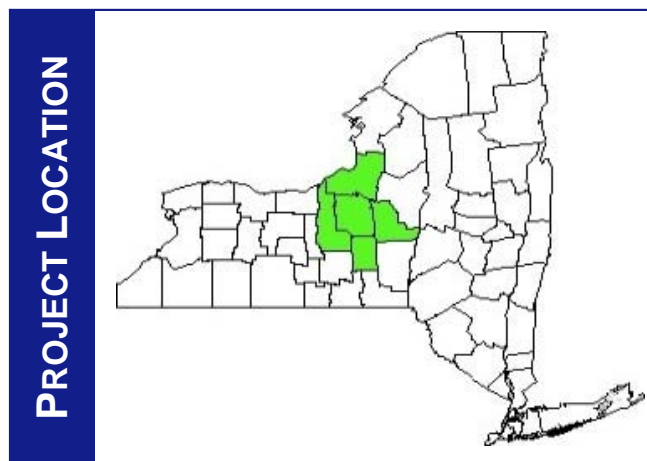
CNY RPDB initiated this project in response to recommendations made in the 2005 Invasive Species Task Force Report. The project incorporates communication, cooperation and coordination to better leverage available funding for the effective control and eradication of aquatic invasive species infestations by spanning multiple jurisdictions; eliminating duplicative efforts and uniting complimentary efforts; and, providing a vehicle for uniting key partners for the purpose of establishing both a rapid response program and coordinated long-term eradication effort.

Cooperating Agencies: NYS DEC, Onondaga County CCE, SUNY ESF, Cornell University, Madison County SWCD, Oswego County SWCD, Cayuga County WQMA, Onondaga County DOH, CNY Water Chestnut Task Force

Purpose/Objective: Apply the concepts of watershed management planning to the control and eradication of aquatic invasive species.

Methods Employed: The project is comprised of four phases:

Phase I: CNY RPDB will develop a “Current State of Aquatic Invasive Species in Central New



York” report. The report will identify current infestations and research, problem species, susceptible areas, long and short-term feasibility of current control and eradication options, economic impacts associated with the spread of aquatic infestations and resources needed to control aquatic invasive species infestations.

Phase II: CNY RPDB will bring together experts in the identification, management and eradication of aquatic invasive species at a regional Aquatic Invasive Species Conference to share information and solicit participation in the development of a regional aquatic invasive species management plan.

Phase III: CNY RPDB will apply for funding to support the development of a regional aquatic invasive species management plan. CNY RPDB will identify additional stakeholders to help define goals and objectives, establish an organizational structure and timeline, coordinate plan development, identify priorities, develop recommendations, solicit input and comments and prepare the final management plan.

Phase IV: CNY RPDB will apply for funding and will work closely with agencies, organizations, researchers and volunteer groups to implement recommendations made in the management plan. CNY RPDB will serve as grant and contract administrator as appropriate.

Agency Name:

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Title of Project:

Onondaga Lake Partnership Outreach Support
Services

Time Period of Project:

2005–Ongoing

Project Location:

Onondaga Lake Watershed, Onondaga County

Project Contact:

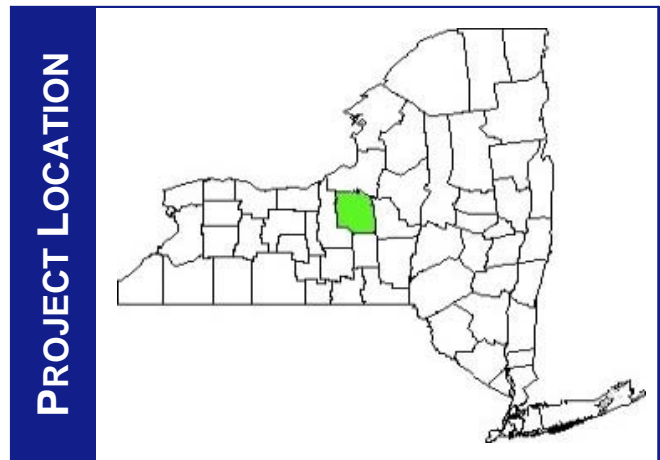
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: U.S. Environmental Protection Agency; U.S. Army Corps of Engineers; NYS Department of Environmental Conservation; NYS Attorney General's Office; Onondaga County; City of Syracuse; Izaak Walton League; Atlantic States Legal Foundation; League of Women Voters; Onondaga Historical Association; Cornell Cooperative Extension of Onondaga County; and State University of New York College of Environmental Science and Forestry.

Purpose/Objective: To provide staff support to the Onondaga Lake Partnership Outreach Committee for assistance in enhancing public knowledge and understanding of the status of the lake improvement effort and the Partnership.

Methods Employed: CNY RPDB is providing support services to the Outreach Committee and its members in order to develop and maintain public information products and opportunities for public participation and education; develop and conduct public outreach activities to increase public involvement and participation; identify and pursue partnerships with other organizations and people interested in Onondaga Lake; and other tasks to enhance the Partnership's public outreach and education efforts.



Outputs: (1) Meetings, events and symposia; (2) media products and printed materials; (3) mailing lists, portable displays, and other outreach product distribution; (4) implementation of grant programs and education programs; (5) collaboration among agencies, organizations and the public; and (6) increased awareness of Onondaga Lake watershed revitalization efforts and the Onondaga Lake Partnership.

Agency Name:

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Title of Project:

Onondaga Lake Partnership Project Committee

Time Period of Project:

2005–Ongoing

Project Location:

Onondaga Lake Watershed, Onondaga County

Project Contact:

Kathleen Bertuch - Program Manager

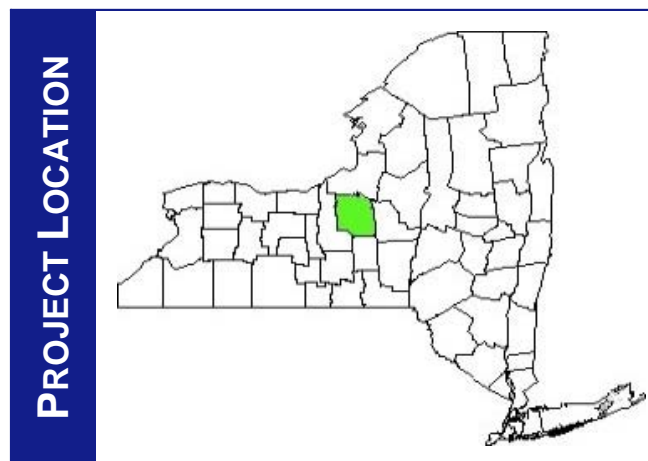
Project Description(s):

Cooperating Agencies: U.S. Environmental Protection Agency; U.S. Army Corps of Engineers; NYS Department of Environmental Conservation; NYS Attorney General's Office; Onondaga County; City of Syracuse; U.S. Geological Survey; Onondaga County Soil and Water Conservation District; U.S. Housing and Urban Development; and Metropolitan Development Association.

Purpose/Objective: To participate as a voting member of the Onondaga Lake Partnership Project Committee, which serves as the Partnership's technical center of expertise on specific lake improvement projects.

Methods Employed: The CNY RPDB participates on the Project Committee to investigate and provide technical recommendations to the Executive Committee; provide input for a comprehensive project database and schedule for the entire lake improvement effort; monitor project progress and provide data for status reports; and identify and develop projects from the management plan required for lake cleanup.

Outputs: (1) Development and maintenance of comprehensive project database and schedule; (2) identification of opportunities for project coordi-



nation; (3) recommendations made to the Executive Committee; (4) operating procedures developed; and (5) other duties and products assigned by the Executive Committee.

Agency Name:

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Title of Project:

Lake Neatahwanta Reclamation Project

Time Period of Project:

2005–2008

Project Location:

Lake Neatahwanta Watershed, Oswego County

Project Contact:

Kathleen Bertuch - Program Manager

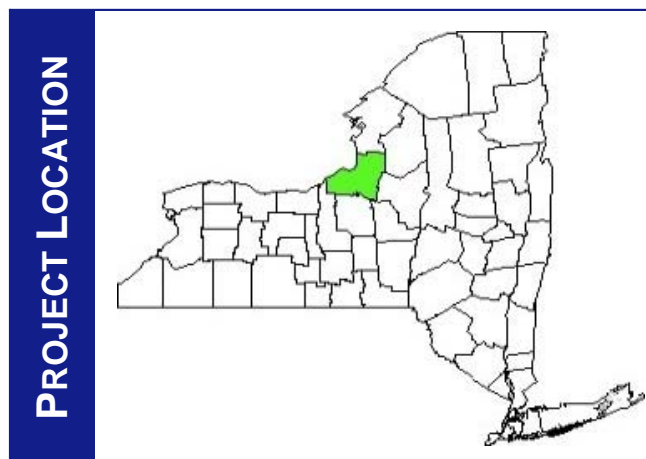
Project Description(s):

Cooperating Agencies: Lake Neatahwanta Reclamation Committee; City of Fulton; Town of Granby; Cornell Cooperative Extension of Oswego County; Oswego County Soil and Water Conservation District; and Natural Resources Conservation Service.

Purpose/Objective: To reduce nonpoint source pollutant loadings to Lake Neatahwanta through the implementation of resource conservation practices in the watershed.

Methods Employed: CNY RPDB is providing contract administration and overall project coordination and support on behalf of the project's sponsor, the City of Fulton. CNY RPDB is working with Cornell Cooperative Extension to provide one-on-one assistance to agricultural producers and to oversee the planning and implementation of projects on local farmsteads that are designed to boost efficiency and cost-savings while protecting the lake and its tributaries from sediment and nutrient pollution.

Outputs: (1) Expanded education efforts; (2) enhanced communication among partners and participants; (3) identification, planning and implementation of agricultural resource conservation practices.



Agency Name:

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Title of Project:

Oneida Lake Watershed Management Plan Im-
plementation

Time Period of Project:

2005-2007

Project Location:

Oneida Lake Watershed (portions of Madison,
Onondaga, Oneida, Lewis, Oswego and Cortland
Counties)

Project Contact:

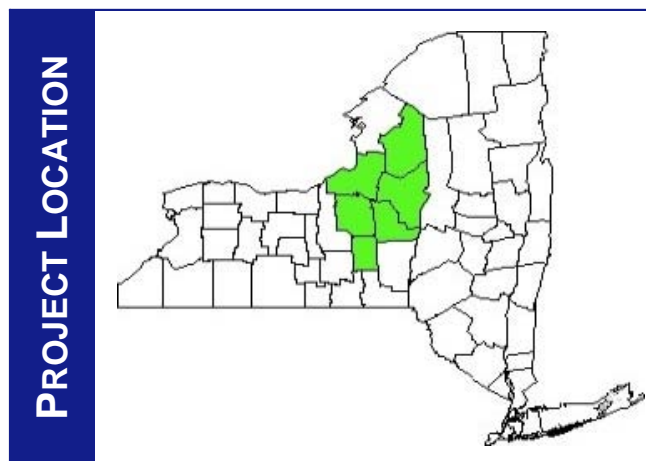
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: Oneida Lake Watershed
Advisory Council, Environmental Protection
Agency, Great Lakes Commission, Cornell
University Cooperative Extension of Onondaga
County, Cornell Biological Field Station, New
York Sea Grant, Soil and Water Conservation
Districts, Oneida Lake Association, County Water
Quality Coordinating Committees, County Plan-
ning Departments, Health Departments, and wa-
tershed municipalities.

Purpose/Objective: To implement recommenda-
tions from the "Management Strategy for Oneida
Lake and its Watershed" for the long-term protec-
tion and improvement of local water resources.
This project is designed to provide watershed
residents with a greater understanding of the lake
and watershed interactions and to improve agri-
cultural practices, lower levels of sediment load-
ing to Oneida Lake and its tributaries, maintain a
healthy fishing industry, and efficiently control
nonpoint source pollution from on-site septic sys-
tems.

Methods Employed: The primary focus is on five
program areas: Education, Erosion and Sedimen-



tation, Agriculture, Nutrient Management, and
Nonpoint Source Pollution Control. The Oneida
Lake Watershed Advisory Council, a group of
municipal governments and stakeholder represen-
tatives, provides input to CNY RPDB and ensures
local level participation in program implementa-
tion.

Outputs: (1) Summer Lecture Series, (2) "Know
Your Lake" calendar of events, (3) administrative
support of the Oneida Lake Watershed Advisory
Council, Technical Committee, and Education
Committee, (4) newsletters, websites, and aerial
photography, (5) Oneida Lake Education Initia-
tive, (6) grant writing and administration, (7) nu-
trient management program, (8) on-site septic
program, including a conference and educational
material, (9) regional communications and out-
reach.

Agency Name:

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Development Board
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Title of Project:

Local Laws to Protect Water Quality in the
Oneida Lake Watershed

Time Period of Project:

2005–2007

Project Location:

Madison, Onondaga and Oswego Counties

Project Contact:

Kathleen Bertuch - Program Manager

Project Description(s):

This project assess the capabilities of existing local laws and land use controls to protect water quality and support the long-term implementation of recommendations made in the “Management Strategy for Oneida Lake and its Watershed” and makes specific recommendations for improving local control over land use decisions that impact water quality.

Cooperating Agencies:

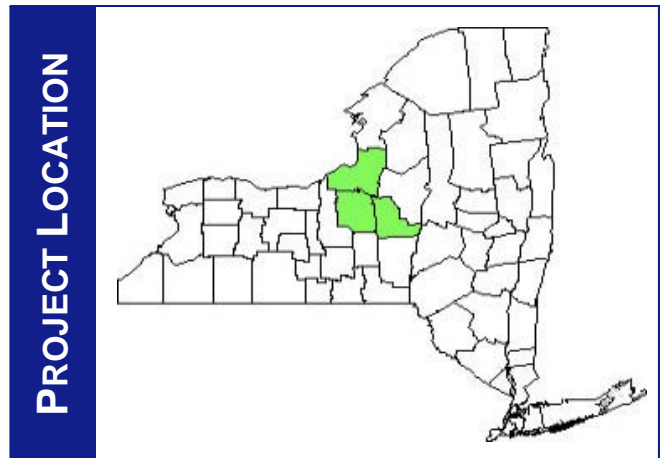
NYS DOS, Madison County Planning Department, Syracuse-Onondaga County Planning Agency, Tug Hill Commission and watershed municipalities.

Purpose/Objective:

To improve long-term water quality protection and implementation of appropriate best management practices to improve and protect water quality through comprehensive land use controls and local laws.

Methods Employed:

The CNY RPDB utilized the following three-phase methodology originally developed by the



Genesee/Finger Lakes Regional Planning Council:

Phase I: CNY RPDB will follow the methodology defined in the G/FLRPC publication entitled “Protecting Water Resources through Local Controls and Practices: An Assessment Manual for New York Municipalities” to assess existing local laws, ordinances and practices relating to water resources in 16 Oneida Lake watershed communities.

Phase II: CNY RPDB will identify opportunities for strengthening local laws to improve and protect water quality in each of the 16 municipalities and provide model laws and language for adoption when appropriate.

Phase III: CNY RPDB will conduct workshops in the Oneida Lake watershed to encourage the use and importance of using local laws and land use controls as a means for addressing non-point sources of pollution. CNY RPDB will provide information on conducting local law assessments and the availability and use of tools to address a variety of local conditions and needs at one or more workshops in the watershed.

Outputs:

Completed assessment of implemented best management practices for 16 watershed municipalities; identification and assessment of existing land use local laws to protect water quality and recommendations for strengthening local control over land use decisions that impact water quality.

Agency Name:

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Development Board
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Title of Project:

Phase II Stormwater Assistance

Time Period of Project:

2003–2007

Project Location:

Cayuga, Cortland, Madison, Onondaga and
Oswego Counties

Project Contact:

Kathleen Bertuch - Program Manager

Project Description(s):

The CNY RPDB will assist regulated municipalities in planning and implementing the SPDES Phase II Stormwater permits for MS4s and construction activities.

CNY RPDB MS4 assistance will be provided to the 32 regulated municipalities in Madison, Onondaga and Oswego Counties. Construction assistance will be provided in Cayuga, Cortland, Madison, Onondaga and Oswego Counties.

Cooperating Agencies: NYS DEC, Onondaga County SWCD, Onondaga County CCE, NYS DOS, Great Lakes Basin Commission, SUNY ESF

Purpose/Objective: Assist regulated MS4s in the Syracuse Urbanized Area plan and implement the six minimum control measures required in Phase II and assist municipal and private entities in the five-county CNY Region understand and respond to the requirements of the NYS SPDES Phase II Stormwater Construction Permit.

Methods Employed: Assistance will be provided in three general areas: education and outreach; program support, program evaluation and compliance.

PROJECT LOCATION



All education and outreach efforts will be designed to assist MS4s develop, implement and improve upon NOIs, SWMPs and SWPPPs and will be tailored to the needs of the general public, municipal officials and municipal staff.

Program support efforts will be regionally coordinated and designed to assist MS4s directly address planning and implementation of required compliance activities. Program support efforts will emphasize intermunicipal partnerships and regional uniformity.

Program evaluation and compliance efforts will support NYS DEC's efforts to assure compliance with the program requirements.

Outputs: The outputs of this project include a regional stormwater information clearinghouse website, stormwater library, stormwater public education assessment survey and report, informational articles, brochures and fact sheets, uniform outfall mapping standards, regional outfall base map, field verification of stormwater outfalls, stormwater outfalls plotted on regional outfall map, preliminary identification of illicit discharges, regional construction site inspection checklist, common enforcement standards for construction permit violations, criteria for identifying priority construction sites, local law training workshops and construction contractor training workshops.

Agency Name:

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Title of Project:

NYS DEC Division of Water Web Site Support

Time Period of Project:

2002–2004

Project Location:

Statewide relevance

Project Contact:

Kathleen Bertuch - Program Manager

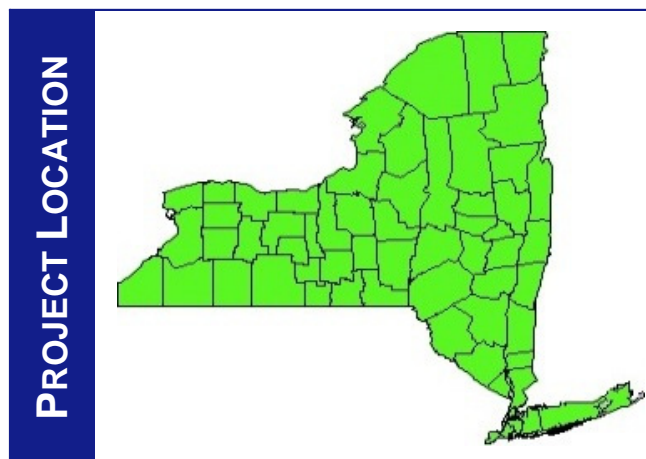
PROJECT DESCRIPTION(S):

Cooperating Agencies: New York State Department of Environmental Conservation (DEC)

Purpose/Objective: To provide assistance to NYS DEC with development, reconstruction and maintenance of its updated Division of Water web site.

Methods Employed: Conversion of documents to HTML format (as needed); checked and corrected/modified HTML formatting in pages created or edited by personnel within the DOW for compliance with DEC web site standards; create PDF (Adobe Acrobat) files from word processor documents; checked and corrected/modified already created PDF files for compliance with DEC web site standards.

Outputs: (1) HTML and PDF conversions of DEC materials; (2) compliance of existing or new/edited materials with DEC web site standards; notes of needed corrections or make corrections/modifications as required; 3) assistance provided to DOW content coordinator in understanding and application of DEC web site standards, particularly concerning PDF files.



Agency Name:

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Title of Project:

Oneida Lake and Watershed Management Plan

Time Period of Project:

2001–2004

Project Location:

Oneida Lake Watershed (Portions of Madison,
Onondaga, Oswego, Lewis, Oneida and Cortland
Counties)

Project Contact:

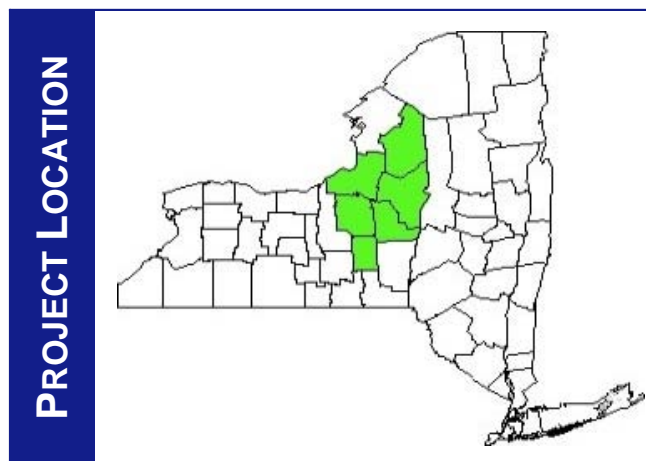
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: County Water Quality Co-ordinating Committees, County Planning Departments, HOCCPP, County SWCDs, County Health Departments, DEC, SWCC, Cornell Cooperative Extension, Cornell Biological Field Station, SUNY Research Foundation, NYS Tug Hill Commission, NYS Canal Corporation, Hamilton College, local elected officials, Oneida Lake Association, and other community groups.

Purpose/Objective: The overall project objective was to develop an Oneida Lake and Watershed Management Plan for the long-term protection and improvement of local water resources. Primary tasks included: data collection and analysis; completion of the State of the Lake and Watershed report and Management Strategy for Oneida Lake and Its Watershed; education, outreach, and public participation programs; GIS mapping; support for Task Force Committees, Working Groups and the Watershed Advisory Council; tributary monitoring; watershed agricultural program; and the distribution of grant funding for research and watershed improvement projects.

Methods Employed: The Oneida Lake Watershed Advisory Council is a group of municipal gov-



ernments and stakeholders that ensures local level participation in the development and implementation the management plan and provides input to the Regional Planning Board. Local elected officials, stakeholders, and agency representatives participated in the compilation of recommendations for the Management Plan via Working Groups. The water quality monitoring program was implemented through multi-agency cooperation throughout a four-county region.

Outputs: (1) Information compiled on the environmental setting, economic influences, and social impacts as part of the State of the Lake and Watershed Report; (2) regional GIS coordination and mapping; (3) issues identified and prioritized, and recommendations developed as a grassroots initiative to improve problem areas as part of the watershed management plan; (4) nutrient and sediment loading information and baseline chemistry collected on all primary tributaries to assist in problem source identification and segment analysis conducted on the highest priority tributaries; (5) implementation of education and outreach programs; and (6) continued collaboration among local agencies, organizations, stakeholders and municipalities.

Agency Name:

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Title of Project:

Cayuga Lake Watershed Organization Facilitator

Time Period of Project:

2001–2002

Project Location:

Cayuga Lake Watershed (Cayuga, Cortland,
Schuyler, Seneca, Tioga and Tompkins Counties)

Project Contact:

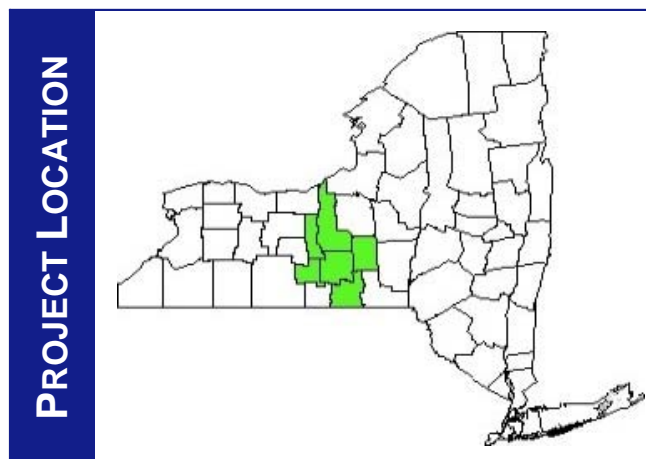
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: NYS Department of Environmental Conservation; Cayuga Lake Watershed Intermunicipal Organization; NYS Department of State; and Cayuga Lake Watershed Network.

Purpose/Objective: Define an institutional structure that can be maintained over time for the purpose of implementing the Cayuga Lake Watershed Management Plan.

Methods Employed: Project components included: (1) Active and on-going communication with the Intermunicipal Organization (IO) and other partner organizations for the purpose of determining the current IO structure, identifying the functions an implementing organization will be required to perform and determining future funding needs; (2) Develop a list of structural recommendations to the IO based on comparative analysis of other multi-jurisdictional organizations in New York State; (3) Facilitate IO discussions leading to the development of a model for determining IO membership dues; (4) Develop a list of private and public funding sources for project implementation and administrative costs; (5) Incorporate IO comments and feedback and prepare draft report for IO approval; (6) Prepare final report including organizational recommendations



and suggestions for changes to the existing bylaws as needed.

Outputs: (1) An organization structured to implement the Cayuga Lake Watershed Management Plan; (2) a comprehensive listing of potential administrative and project funding sources; (3) an equitable formula for determining municipal membership dues; (4) final organizational structure recommendation report.

Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
13202
(315) 422-8276

Title of Project:

Oswego River Remedial Advisory Committee
(RAC) - Meeting Facilitation

Time Period of Project:

1999–2001

Project Location:

Oswego River Area of Concern
(Varrick Dam to Harbor entrance)

Project Contact:

Kathleen Bertuch - Program Manager

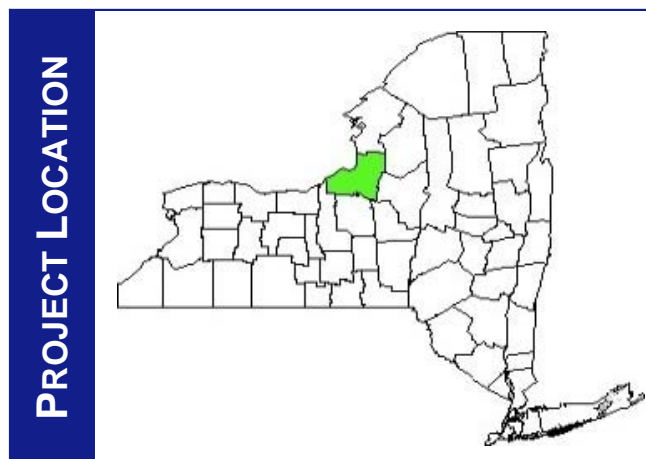
Project Description(s):

Cooperating Agencies: NYS Department of Environmental Conservation, Oswego County Department of Planning and Economic Development, Oswego County Soil and Water District, Onondaga County Department of Health, Oswego River Remedial Advisory Committee members

Purpose/Objective: To facilitate RAC meetings for the purpose of maintaining a focus and direction in the committee advisory process; and to facilitate a close to the long-standing RAC, formed to help identify water quality use impairments and restoration solutions for the lower reaches of the Oswego River.

Methods Employed: The CNY RPDB fulfilled a request from the NYS Department of Environmental Conservation by providing a facilitator to this committee to help conclude the work of the RAC.

Outputs: Facilitated meetings that resulted in an enhanced committee process and committee approval of the DEC-prepared Delisting report, bringing the RAC to a close.



Agency Name:

Central New York Regional Planning and
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126 N. Salina St., Suite 200, Syracuse, N.Y.
13202
(315) 422-8276

Title of Project:

Project Management for Onondaga Lake Environmental Benefit Project

Time Period of Project:

1998–2005

Project Location:

Onondaga Lake Watershed (Onondaga County)

Project Contact:

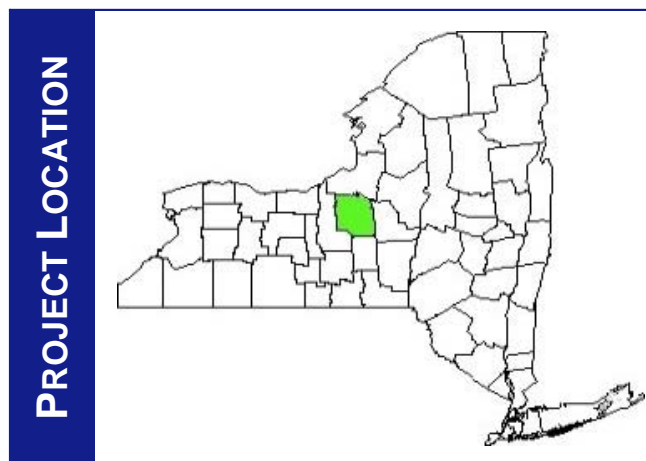
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: New York State Department of Environmental Conservation; Onondaga County; Natural Resources Conservation Service; and Atlantic States Legal Foundation.

Purpose/Objective: Project management services provided by CNY RPDB. Environmental Benefit Project was conducted to reduce nutrient input from agricultural activity to Onondaga Lake by applying nonpoint source management strategies and techniques at a small number of farms; to reduce nutrient input from urban and suburban sources to Onondaga Lake by applying nonpoint source management strategies and techniques at a small number of urban runoff (highway and parking lot) locations; and to gauge the effectiveness, via water quality monitoring, of management strategies employed.

Methods Employed: A private consultant worked under contract to the CNY RPDB to install and monitor the effectiveness of management strategies and techniques used. The consultant worked with specific property owners/sites and CNY RPDB managed the overall contract.



Outputs: 1) Reduced nutrient loadings; 2) stream monitoring conducted on a before and after basis to document nutrient level reductions and effectiveness of measures used; 3) project management services provided.

Agency Name:

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Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
13202
(315) 422-8276

Title of Project:

Cayuga Lake Watershed Management Plan

Time Period of Project:

1998–2001

Project Location:

Cayuga Lake Watershed (Cayuga, Cortland,
Schuyler, Seneca, Tioga and Tompkins Counties)

Project Contact:

Kathleen Bertuch - Program Manager

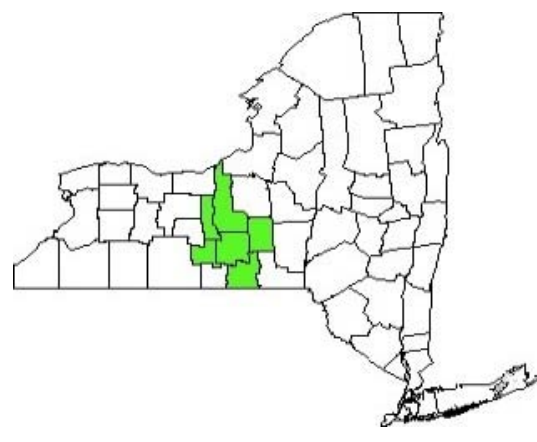
Project Description(s):

Cooperating Entities: Genesee/Finger Lakes Regional Planning Council, Cornell Cooperative Extension of Cayuga County, Cornell Cooperative Extension of Tompkins County, Tompkins County SWCD, Seneca County SWCD, Cayuga County SWCD, Cayuga Nature Center, Town of Ledyard, NYS Department of State, County Water Quality Coordinating Committees, Cayuga Lake Watershed Network, EcoLogic, municipalities, counties, citizens, legislators

Purpose/Objective: Develop a watershed management plan that recommends strategies for improving and protecting the water quality of Cayuga Lake and its tributaries thereby helping to sustain the economic, environmental and social benefits impacted by water resources.

Methods Employed: Project components included: (1) Formation and support of an Intermunicipal Organization - consisting of municipal representation - as the local oversight body ensuring that plan development is locally driven, and for the purpose of plan implementation; (2) watershed management plan development consisting of watershed and subwatershed delineation, watershed/water quality characterization, assessment and prioritization of water resources problems and

PROJECT LOCATION



issues, identification and assessment of programmatic and regulatory environment as pertains to water resources, and implementation of recommendations; (3) public participation; and (4) ongoing public education.

Outputs: (1) An Intermunicipal Organization; (2) a watershed characterization; (3) the watershed management plan; (4) public participation meetings; (5) educational materials including a fact sheet, website, brochure, watershed display, feature newspaper articles and press releases.

Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
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(315) 422-8276

Title of Project:

Oneida Lake and Watershed Protection Project

Time Period of Project:

1997–2000

Project Location:

Oneida Lake Watershed (Madison, Onondaga,
Oswego, Lewis and Oneida Counties)

Project Contact:

Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: County Water Quality Coordinating Committees, County Planning Departments, County SWCDs, DEC, SWCC, Cornell Biological Field Station, local elected officials, Oneida Lake Association, and various other community groups.

Purpose/Objective: Set the stage for watershed planning in the Oneida Lake watershed through the following activities: (a) formed an Oneida Lake Task Force; (b) implemented a water quality monitoring program in the southern region tributaries; (c) collected information about the environment and cultural setting; (d) identified actual and potential watershed problem areas; (e) mapped watershed characteristics; (f) participated in education and outreach initiatives; (g) summarized watershed rules and regulations for water quality protection; and (h) developed long term goals for a Watershed Management Plan.

Methods Employed: The Oneida Lake Task Force was comprised of Technical, Land Use and Education/Outreach Committees, with an Executive Committee that provided guidance to the Regional Planning Board. The water quality monitoring program was implemented through collaboration with the Cornell Biological Research Station. Wa-

PROJECT LOCATION



tershed characteristics were mapped by the USGS using Geographic Information System technology. Local elected officials and agency representatives have participated in compilation of the data and in generating goals and recommendations for the future.

Outputs: (1) USGS mapping of the entire watershed region; (2) information compiled on the environmental setting, economic influences, and social impacts (3) nutrient and sediment loading information and baseline chemistry on the southern region tributaries to assist in problem source identification; (4) implementation of education and outreach programs; and (5) increased collaboration among local agencies and organizations.

Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
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(315) 422-8276

Title of Project:

Nonpoint Source Pollution Abatement Project

Time Period of Project:

1993–1997

Project Location:

Lake Neatahwanta - Oswego County

Lake Moraine - Madison County

Project Contact:

Kathleen Bertuch - Program Manager

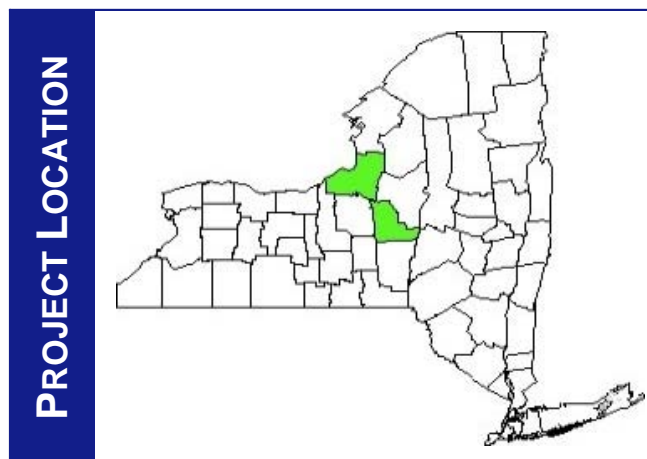
Project Description(s):

Cooperating Agencies: Madison and Oswego
County Planning Departments and Soil & Water
Conservation Districts, and Oswego County
Health Department

Purpose/Objective: To reduce nonpoint source
pollutant loading to two lakes in the Central New
York Region through education and implementa-
tion of specific abatement measures.

Methods Employed: (1) Reviewed and assessed
current and potential threats to lake watersheds,
especially those related to faulty septic systems,
agricultural runoff, and construction development;
(2) compiled available materials related to educa-
tion of nonpoint source pollution avoidance/
abatement; (3) photographed examples within wa-
tershed of BMPs in use; (4) conducted stream-bed
inventory and biological monitoring of tributaries;
(5) inventoried land-use, vegetation, soil charac-
teristics, and hydrologic information on GIS; and
(6) surveyed Lake Neatahwanta watershed land
owners regarding sewage disposal systems.

Outputs: (1) Farm Planning Project for dairy
farms within watershed; (2) Watershed Assess-
ment Project to update Lake Moraine information



and maps; (3) stabilization of stream banks and
remediation of tributaries for both lakes; (4) de-
tailed GIS watershed maps for Lake Neatahwanta;
(5) technical assistance package; (6) educational
video and associated brochure highlighting non-
point source pollution threats specific to each lake
and positive steps toward remediation; and (7)
public education and increased awareness of non-
point pollution and water quality issues through-
out the watersheds.

Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
13202
(315) 422-8276

Title of Project:

Source Water Protection: Central New York
Groundwater/Wellhead Study

Time Period of Project:

1991–1994

Project Location:

Sixteen (16) selected groundwater-dependent communities in the Central New York Counties of Cayuga, Madison, Onondaga, and Oswego

Project Contact:

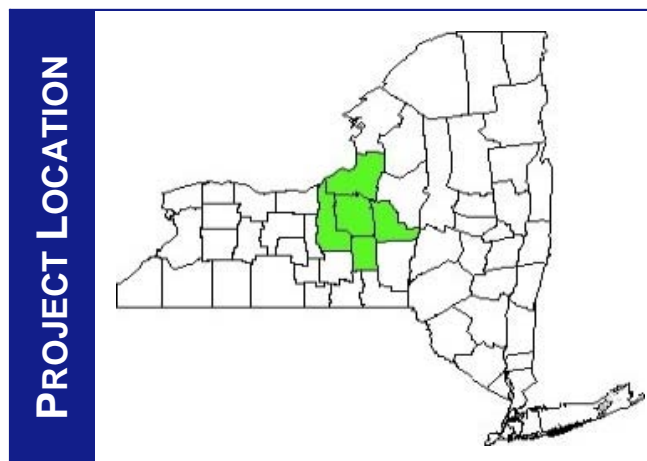
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: Cayuga, Madison, and Oswego County Planning Departments, and the Onondaga County Water Quality Management Agency.

Purpose/Objective: To gather, consolidate, and map hydrogeologic information for delineation of wellhead, aquifer, and recharge areas; to collect and organize information and map land-uses and potential sources of contamination within a one-mile radius of municipal wells; and to develop locally specific management tools and wellhead protection recommendations.

Methods Employed: (1) Identified and mapped community water supply systems utilizing existing soils, hydrogeologic, and community water supply data within a one-mile radius of public wells; (2) identified and mapped an extensive inventory of existing land-use activities and potential sources of groundwater contaminations; and (3) conducted analysis and developed recommendations based on primary threats, areas of significant concern, and future land-use impacts within the study areas.



Outputs: (1) USGS base scale (1:24,000) map-overlays for each study area providing information on wellhead, aquifer, and recharge areas, existing land-uses, and potential contaminations sources within a one-mile radius of selected municipal wells; (2) detailed reports describing water supply systems, potential contaminants, and recommended wellhead protection/management tools for each of the sixteen selected study communities in the Region; and (3) compilation of groundwater protection tools from education to legislation.

Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
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(315) 422-8276

Title of Project:

Statewide Water Quality Enhancement and Protection Policy (WQEPP) Public Participation Program

Time Period of Project:

1991–1994

Project Location:

Statewide – coverage by region in conjunction with NYSARC jurisdictions.

Project Contact:

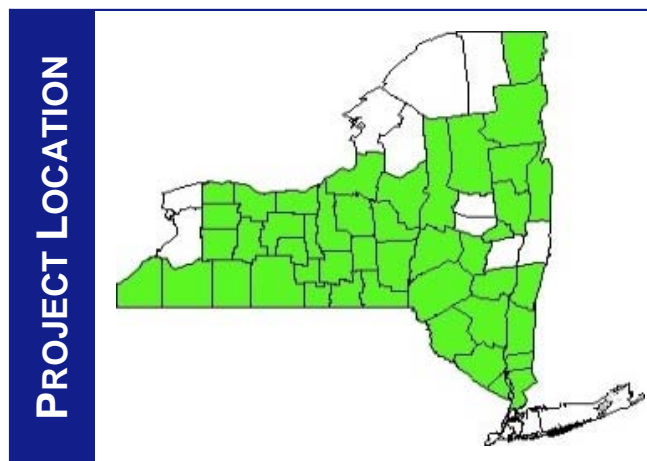
Kathleen Bertuch - Program Manager

Project Description(s):

Cooperating Agencies: New York State Association of Regional Councils: Capital District RPC, Central New York RPDB, Genesee/Finger Lakes RPC, Herkimer-Oneida Counties Comprehensive Planning Program, Hudson Valley RC, Lake Champlain-Lake George RPB, Southern Tier Central RPDB, Southern Tier East RPDB, and Southern Tier West RPDB

Purpose/Objective: To collect ideas and reactions regarding the proposed changes to New York State's antidegradation policy.

Methods Employed: (1) Identified key individuals and organizations to interview about proposed changes to NYS's anti-degradation policy and about water quality in general; (2) solicited comments about proposed policy changes, using DEC-prepared format (Community Assessment Forms); (3) compiled responses to community assessment form questions into a report for DEC/EPA review; (4) distributed DEC response/action summary and additional questions to community assessment form respondents; (5) solicited subsequent respondent input on DEC's revisions to its proposed



anti-degradation policy changes; and (6) compiled and summarized additional responses from DEC.

Outputs: (1) Summary report containing compiled, summarized and evaluated responses to community assessment forms; and; (2) summary of respondent comments on DEC's revisions made in response to initial feedback.

Agency Name:

Central New York Regional Planning and
Development Board
126 N. Salina St., Suite 200, Syracuse, N.Y.
13202
(315) 422-8276

Title of Project:

Onondaga Lake Water Quality Study

Time Period of Project:

1988–1994

Project Location:

Onondaga County, Syracuse, New York

Project Contact:

Kathleen Bertuch - Program Manager

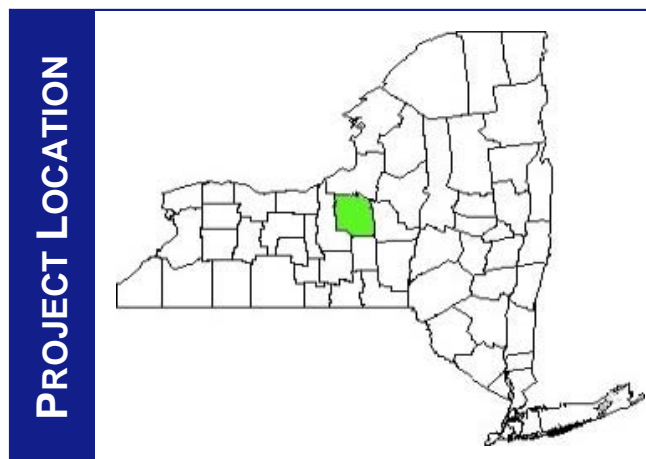
Project Description(s):

Cooperating Agencies: Upstate Freshwater Institute

Purpose/Objective: To develop mathematical models for the water quality characteristics necessary to support the evaluation of management alternatives for improving Onondaga Lake's water quality.

Methods Employed: The Upstate Freshwater Institute, a research consortium under contract to the CNY RPDB, carried out scientific and engineering studies to develop, calibrate, and validate management models for bacteria, phosphorous, oxygen, ammonia, and transparency. The models provide a state-of-the-art set of analytical tools for on-going use in evaluating management alternatives to assist in addressing the complex problems of Onondaga.

Outputs: (1) Field data sheets of information collected for model development; (2) detailed reports describing the models and their development; and (3) computer disks of the models.



C. GENESEE/FINGER LAKES REGIONAL PLANNING COUNCIL (G/FLRPC)

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Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Regional/Watershed Cooperation and Collaboration

Time Period of Project:

Ongoing

Project Location:

Genesee, Livingston, Monroe, Ontario, Orleans,
Seneca, Wayne, Wyoming and Yates Counties

Project Contact:

David S. Zorn - Executive Director

Project Description(s):

G/FLRPC collaborates with many public sector organizations on the federal, state, and local level as well as non-profit and for-profit partners. G/FLRPC directly collaborates with the following organizations in support of its Regional Water Resources Program:

- Black Creek Watershed Coalition
- Canandaigua Lake Watershed Council
- Cayuga Lake Watershed Intermunicipal Organization (IO)
- Conesus Lake Watershed Council
- Cornell Cooperative Extension (CCE)
- County Soil and Water Conservation Districts (SWCD)
- Federal Emergency Management Agency (FEMA)
- Finger Lakes-Lake Ontario Protection Alliance (FL-LOWPA)
- G/FLRPC Planning Coordination Committee
- Genesee County Water Quality Coordinating Committee (WQCC)
- Monroe County Stormwater Coalition
- Monroe County WQCC
- Monroe County Water Quality Management Advisory Committee (WQMAC)
- New York Planning Federation

PROJECT LOCATION



- New York State and County Departments of Health (DOH)
- New York State Association of Regional Councils (NYSARC)
- New York State Department of Environmental Conservation (NYSDEC)
- New York State Department of State (NYSDOS)
- New York State Emergency Management Office (SEMO)
- New York State Flood and Stormwater Managers Association
- Oak Orchard Watershed Alliance (OOWA)
- Oatka Creek Watershed Committee (OCWC)
- Ontario County Water Resources Council (WRC)
- Orleans County WQCC
- Seneca County WQCC
- Seneca Lake Area Partners (SLAP)
- United States Army Corps of Engineers (ACE)
- United States Environmental Protection Agency (USEPA)
- Water Education Collaborative (WEC)
- Wayne County WQCC
- Wyoming County WQCC
- Yates County WRC

Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Water Resources and Land Use Regulations and Controls

Time Period of Project:

2003–Ongoing

Project Location:

Genesee, Livingston, Monroe, Ontario, Seneca, Wyoming, Yates

Project Contact:

David S. Zorn, Executive Director

Project Description(s):

Local Laws to Protect Finger Lakes Water Quality

Project Description:

Within the Finger Lakes region, watershed protection plans have been completed for Canandaigua, Cayuga, and Conesus Lake Watersheds. Preparation of each plan has been undertaken in partnership with the NYS Department of State, financed through grants from the Environmental Protection Fund - Local Waterfront Revitalization Program, and overseen by an inter-municipal organization comprised of the local governments and organizations involved in watershed protection.

There are 42 towns, 12 villages, and 2 cities located in parts of 8 counties in these three watersheds (municipalities with less than 3 square miles and less than 6% of their land area in the watershed were not included).

The watershed protection plans identify priority actions needed to protect and improve water quality, including capital projects and local development controls. This project was an initiative to begin the implementation of the watershed management plans, particularly the priority actions related to local development of land use regulations and controls. The project was comprised of three phases:

PROJECT LOCATION



Phase I: *Assessment of Ordinances and Practices*

(<http://www.gflrpc.org/Publications/LocalLaws/Assessment/AssessmentIndex.htm>) which is an assessment and gap analysis of existing local laws, ordinances, and practices that relate to water resources in all 56 municipalities in the three watersheds.

Phase II: Working closely and collaboratively with local boards, G/FLRPC developed specific water quality control laws and/or revisions to existing regulations for selected local municipalities within the Canandaigua, Cayuga, and Conesus Lake watersheds.

Phase III: G/FLRPC prepared a manual of model local laws and case studies to reduce water pollution from non-point sources as a resource for local governments. The publication is entitled *Protecting Water Resources through Local Regulation: A Manual for New York Municipalities*

(http://www.gflrpc.org/Publications/LocalLaws/Manual/Protecting_Water_Resources.pdf). In addition, G/FLRPC conducted a series of workshops throughout the state's Great Lakes watersheds to stress the importance of local development controls as a means for addressing non-point sources of pollution, as well as to provide information and examples of local laws and controls appropriate to a variety of local circumstances.

Controlling Sediment in the Black and Oatka Creek Watersheds

This was a multi-phase project that included presentations to town and village boards on the importance of watershed management planning and associated intermunicipal cooperation, analysis and recommendations for severely eroded stream-bank segments, assessment and gap analysis of local laws and practices related to water resources and revision of local laws for selected communities and water resources issue prioritization in anticipation of watershed management planning.

Phase I: Municipal Meeting with municipal boards.

Phase II: *Identification and Analysis of the Riparian Corridor in the Black and Oatka Creek Watersheds* (<http://www.gflrpc.org/Publications/RiparianCorridor.htm>) is a riparian corridor analysis that produced implementation-ready recommendations for severely eroded segments in the riparian corridor with a focus on erosion and sediment control.

Phase III: *Municipal Law Review and Analysis* (<http://www.gflrpc.org/Publications/ControllingSediment/Assessment/ReviewAnalysis.htm>) is an assessment and gap analysis of local laws and practices of the municipalities in the two watersheds.

Phase IV: *Water Resource Issue Identification and Prioritization* (<http://www.gflrpc.org/Publications/ControllingSediment/IssueId/IssueId.htm>)

Phase V: *Revising Local Laws* (<http://www.gflrpc.org/Publications/ControllingSediment/LocalLaws/LocalLaws.htm>) for selected communities in the watersheds based on the *Municipal Law Review and Analysis*. (<http://www.gflrpc.org/Publications/ControllingSediment/Assessment/ReviewAnalysis.htm>).

Canandaigua Lake Watershed Land Use Law Project: Genesee/Finger Lakes Regional Planning Council is assisting the Canandaigua Lake Watershed Council in the development of model laws for environmentally sensitive areas including steep slopes and water courses. Assistance in-

cludes research, assessment and development of local laws and ordinances that can be used in the Canandaigua Lake Watershed (see <http://www.gflrpc.org/Publications/Canandaigua/LandUseLaw.htm>)

Gap Analysis of Local and State Stormwater Management Requirements: The Genesee/Finger Lakes Regional Planning Council assisted Seneca

County (<http://www.gflrpc.org/Publications/GapAnalysis/Seneca/Index.htm>), Wyoming County (<http://www.gflrpc.org/Publications/GapAnalysis/Wyoming/Index.htm>), and Yates County (<http://www.gflrpc.org/Publications/GapAnalysis/Yates/Index.htm>) in the development, distribution and outreach associated with this analysis for the implementation of the local laws components of the Stormwater Phase II Regulations permitting process.

Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Stormwater Phase II Regulations: Development
and Implementation

Time Period of Project:

2002–Ongoing

Project Location:

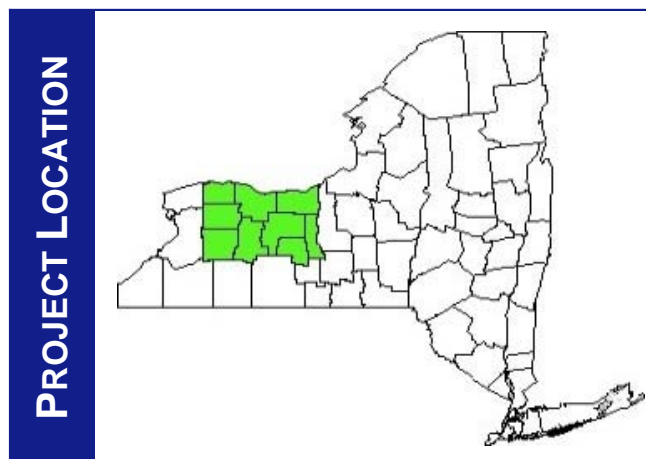
Genesee, Livingston, Monroe, Ontario, Orleans,
Seneca, Wayne, Wyoming and Yates Counties

Project Contact:

David S. Zorn - Executive Director

Project Description(s):

This is a multi-phase program in association with the New York State Department of Environmental Conservation and the New York State Association of Regional Councils that initially included assistance with development of the program and now includes various tasks associated with implementation of the program for Municipal Separate Storm Sewer Systems (MS4s) (urbanized area) and non-regulated communities through the State Pollutant Discharge Elimination System (SPDES) permitting process. Tasks include outreach, technical support, compliance assistance and integration with local laws and practices.



Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Watershed Planning and Management

Time Period of Project:

1995–Ongoing

Project Location:

Genesee, Livingston, Monroe, Ontario, Orleans,
Seneca, Wayne, Wyoming and Yates Counties

Project Contact:

David S. Zorn - Executive Director

Project Description(s):

Cayuga Lake Watershed: The *Cayuga Lake Watershed Restoration and Protection Plan* (RPP) process began in 1998. The process can be broken down into six interactive components. These include Scoping, Data Collection, Assessment and Targeting, Strategy Development, Implementation, and Evaluation. Initial scoping took place in 1998 and again in 1999 at the beginning of the second phase of the project. Data collection began in late 1998 and has been responsible for a sizable amount of information and data acquired and developed for the purposes of characterizing the watershed. Both the scoping and data collection components fed into the assessment and targeting component with the development and subsequent publishing of the *Cayuga Lake Preliminary Watershed Characterization* (2000, <http://www.cayugawatershed.org>) which attempts to both describe the current understanding of the state of the watershed and the history and status of the watershed management planning process. The strategy development component began with a scope and an issues prioritization, and culminated with the development of the RPP, (<http://www.cayugawatershed.org>) which attempts to provide a road map and promote the understanding that is vital to maintain and improve the ecological health and beauty of the watershed and the protection and preservation of Cayuga

PROJECT LOCATION



Lake, along with building and maintaining a productive economy in order to sustain a healthy social environment for the people of the Cayuga Lake Watershed. While implementation began prior to, and during the development of, the RPP, significant implementation has been driven from, and by, the collective energy of the RPP.

Seneca Lake Watershed: The Seneca Lake watershed management planning process began in 1996 with the development of the *Seneca Lake Watershed Study: Developing and Understanding of An Important Natural Resource*. The next step was the development of *Setting A Course For Seneca Lake, The State of the Seneca Lake Watershed* (1999). This report describes the state of the watershed research, analysis and discussions, identifies problems facing the watershed, and details the public education and outreach efforts. It is accompanied by a detailed appendix and a compact disk (CD) which contains the original computer mapping and databases, such as land use, soils, the agricultural inventory, the resident survey and the lakeshore owners survey, for use by anyone interested in conducting his/her own research (see <http://www.gflrpc.org/Seneca%20Lake/Watershed%20Report/WatershedState.htm>).

Conesus Lake Watershed Management Plan: The G/FLRPC Water Resources Program staff has assisted the Livingston County Planning Department with the development of the Conesus Lake Watershed Management Plan. For more information, visit <http://co.livinston.state.ny.us/Conesus.htm>.

Rochester Embayment Remedial Action Plan Stage II: G/FLRPC coordinated the Upstream Remedial Action Ranking Process, helped staff the RAP Studies and Monitoring Task Group, and worked with Monroe County Health Department to consider present and future strategies for carrying out actions outlined in the RAP. The upstream process ranked actions for RAP Possible New Remedial Measures, and developed Proposed Water Quality Actions. The purpose of the studies and monitoring task group was to share, process information, and rank priorities regarding the studies and monitoring sections of RAP. G/FLRPC is a member of the Water Quality Education Collaborative RAP implementation task group.

Genesee River Basin Action Strategy (<http://www.gflrpc.org/Publications/GenRiverActionStrategy.htm>): G/FLRPC staff, working with Basin stakeholders developed the Genesee River Basin Action Strategy. The Strategy includes a State of the Basin along with identifying and prioritizing watershed and Basin issues and strategies. The purpose of the Action Strategy is to develop and/or compile and document a strategy for the Basin that brings together all appropriate agencies and stakeholders to focus support in the form of grant dollars, technical assistance and other resources to address the priority water and natural resource needs in that watershed. Associated with this project is the development of a digital land use coverage that serves as input into a Genesee River Basin Sediment Transport Model.

Oatka Creek Watershed Steward: The G/FLRPC is serving as the Oatka Creek Watershed Steward and is responsible for assisting the Oatka Creek Watershed Committee, going from a State of the Basin to a Watershed Management Plan. Initial

work included public meetings and creating municipal involvement through an intermunicipal agreement.

Honeoye Lake Watershed Management Plan: G/FLRPC is assisting the Honeoye Lake Watershed Task Force in the development of the Honeoye Lake Watershed Management Plan.

Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Data Collection and Development

Time Period of Project:

1994–Ongoing

Project Location:

Genesee, Livingston, Monroe, Ontario, Orleans,
Seneca, Wayne, Wyoming and Yates Counties

Project Contact:

David S. Zorn - Executive Director

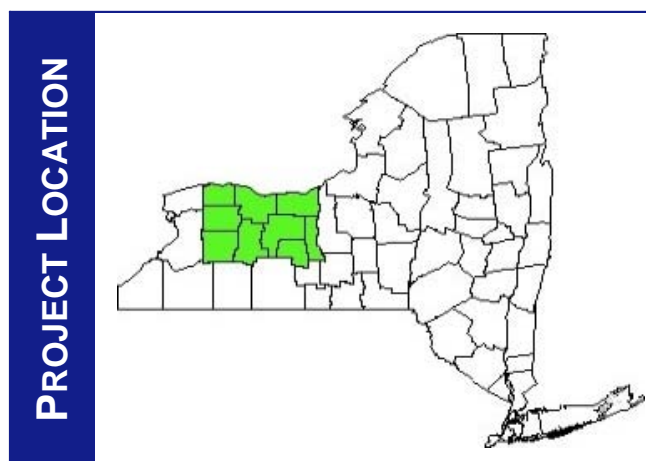
Project Description(s):

Geographical Information Systems and Remote Sensing: G/FLRPC has a fully developed geographic information system (GIS) and Remote Sensing Program that includes data, database, system and applications development. G/FLRPC GIS expertise is used to support, among other things, the Water Resources Program. This includes watershed planning/management, groundwater/surfacewater protection, information/outreach, and inventory.

Streambank and Roadbank Inventory: G/FLRPC has conducted streambank and roadbank inventories in the Seneca and Cayuga Watersheds (see the Seneca Lake Watershed Streambank and Roadbank Inventory as part of the Setting A Course For Seneca Lake, The State of the Seneca Lake Watershed at

<http://www.gflrpc.org/Publications/SenecaLakeWMP.htm> and the Cayuga Lake Watershed Streambank and Roadbank Inventory Project at <http://www.cayugawatershed.org>)

Road Deicing and Storage Inventory: G/FLRPC has conducted road deicing and storage inventories in the Genesee/Finger Lakes Region and the Cayuga Lake Watershed (see the Genesee/Finger Lakes Region Road Deicing and Storage Inventory at



<http://www.gflrpc.org/Publications/RoadDeicing.htm> and the Cayuga Lake Watershed Road Deicing and Storage Inventory as part of the Cayuga Lake Preliminary Watershed Characterization at <http://www.cayugawatershed.org>).

Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Education/Information/Outreach

Time Period of Project:

1992–Ongoing

Project Location:

Full region

Project Contact:

David S. Zorn - Executive Director

Project Description(s):

Regional Local Government Workshops:

G/FLRPC presents two local government workshops per year. The workshops attract municipal and county boards, elected officials, developers, planning professionals, and municipal staff. The workshops cover a wide range of local government issues including water resources related topics such as SEQRA, Storm Water Management and Erosion Control, Wetlands, On-Site Wastewater Systems and Flood Plains (see

<http://www.gflrpc.org/ProgramAreas/AdditionalServices/Workshops.htm>).

Stormwater Phase II: Education, information and outreach is an integral part of the work that G/FLRPC does in association with the New York State Department of Environmental Conservation to assist with implementation of Stormwater Phase II regulations.

Public Meetings and Workshops: G/FLRPC developed and coordinated presentations as part of the Rochester Embayment Remedial Action Plan, Upstream Outreach. The emphasis was on actions affecting the upstream counties in the Genesee River Basin. Land uses in the predominantly rural, upstream portion of the Genesee River basin differs from the predominately urban/suburban downstream portion of the basin.

PROJECT LOCATION



Watershed Management: An education/information/outreach component is part of each watershed management project that has been completed through G/FLRPC. This has included the use of advisory committees, development and facilitation of curriculum, and public outreach.

Groundwater Protection: An education /information/outreach component is part of each well-head/sourcewater protection project that has been completed through G/FLRPC. This has included the use of advisory committees, development and facilitation of curriculum, and public outreach.

Internet Web Site: G/FLRPC has dedicated a portion of its internet web site to its Regional Water Resources Program. This portion of the site includes information on current projects, tools for communication and information and resource sharing, and links to other important water quality-related sites (see also <http://www.gflrpc.org>).

Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Flood and Hazard Mitigation Planning

Time Period of Project:

1990–Ongoing

Project Location:

Genesee, Livingston, Orleans, Wayne, and Wyoming Counties

Project Contact:

David S. Zorn - Executive Director

Project Description(s):

Town and Village of Arcade Flood Mitigation Plan (<http://www.gflrpc.org/Publications/ArcadeFlood.htm>):

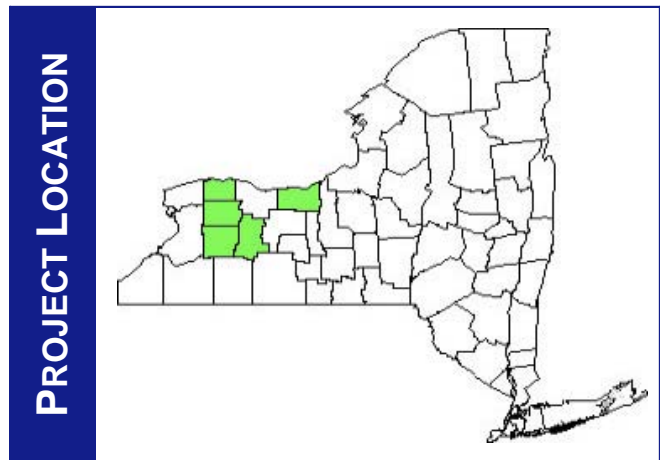
The Plan reviews flood risks and hazards, encourages public involvement, developed mitigation activities, and recommended action steps to alleviate flood-related problems in the Village and Town of Arcade.

Wyoming and Genesee Counties Joint Flood Mitigation Plan (<http://www.gflrpc.org/Publications/JointFlood.htm>):

G/FLRPC staff, in association with the Genesee and Wyoming Counties Emergency Management Office developed flood mitigation plans for the two counties and 24 participating municipalities along the Tonawanda and Oatka Creeks in Genesee and Wyoming Counties. The plans have been adopted by most of the municipalities and will be used for land use regulation and control and mitigation implementation activities.

Town and Village of Arcade All-Hazard Mitigation Plan (<http://www.gflrpc.org/Publications/ArcadeAllHazard.htm>):

The development of the Town and Village of Arcade Hazard Mitigation Plan was a three-phase process. The first phase was the development of the Town and Village of Arcade Flood Mitigation



Action Plan, which was completed in September 1999. The second phase was the completion of a hazard analysis in 2002. The third phase was the development of the all Hazard Mitigation Plan in 2003, which includes the integration of the Flood Mitigation Action Plan and the hazard analysis.

Genesee County Multi-Jurisdictional All-Hazard Mitigation Plan <http://www.gflrpc.org/GeneseeAllHazard.htm>:

Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and human-caused hazards. The development of the Genesee County All-Hazard Mitigation Plan began in March 2006 and is a multi-phase process that includes stakeholder and public participation, hazard assessment and mitigation strategies.

Livingston County Multi-Jurisdictional All-Hazard Mitigation Plan <http://www.gflrpc.org/LivingstonAllHazard.htm>:

Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and human-caused hazards. The development of the Livingston County All-Hazard Mitigation Plan began in June 2005 and is a multi-phase process that includes stakeholder and public participation, hazard assessment and mitigation strategies.

Orleans County Multi-Jurisdictional All-Hazard Mitigation Plan <http://www.gflrpc.org/OrleansAllHazard.htm>:

Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and human-caused hazards. The development of the Orleans County All-Hazard Mitigation Plan began in March 2006 and is a multi-phase process that includes stakeholder and public participation, hazard assessment and mitigation strategies.

[Wayne County Multi-Jurisdictional All-Hazard Mitigation Plan](http://www.gflrpc.org/WayneAllHazard.htm) <http://www.gflrpc.org/WayneAllHazard.htm>:

Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and human-caused hazards. The development of the Wayne County All-Hazard Mitigation Plan began in February 2005 and is a multi-phase process that includes stakeholder and public participation, hazard assessment and mitigation strategies.

[Wyoming County Multi-Jurisdictional All-Hazard Mitigation Plan](http://www.gflrpc.org/WyomingAllHazard.htm) <http://www.gflrpc.org/WyomingAllHazard.htm>:

Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural and human-caused hazards. The development of the Wyoming County All-Hazard Mitigation Plan began in January 2006 and is a multi-phase process that includes stakeholder and public participation, hazard assessment and mitigation strategies.

Agency Name:

Genesee/Finger Lakes Regional Planning Council
City Place, 50 W. Main St., Suite 8107,
Rochester, N.Y. 14614
(585) 454-0190

Title of Project:

Ground Water/Source Water Protection

Time Period of Project:

1990–1998

Project Location:

Genesee, Livingston, Monroe, Ontario, Orleans,
Seneca, Wayne, Wyoming and Yates Counties

Project Contact:

David S. Zorn - Executive Director

Project Description(s):

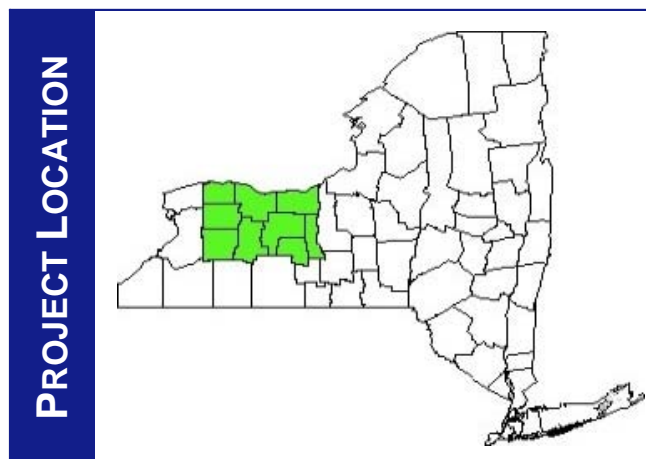
Regional Wellhead Protection Study: G/FLRPC completed a Regional Wellhead Protection Study in 1998, which includes an inventory of all public ground water supplies in the region and source water assessments of nine selected high priority public ground water supplies. The nine communities are the Village of Oakfield and Town of Pavilion in Genesee County, and North Java, Bliss, Village of Wyoming, Village of Pike, Village of Silver Springs, Varysburg, and the Town and Village of Arcade in Wyoming County (see Genesee/Finger Lakes Wellhead Protection Study: Nine Source Water Assessments at http://www.gflrpc.org/EPA%20Sourcewater/report_open.htm).

Groundwater/Source Water Protection Project:

The following studies involved a five-step process. These are the formation of a community planning team, a delineation of the protection area, identification and location of potential sources of contamination, recommendations for the wellhead protection area, and a plan for the future:

Town of Victor Underground Injection Control/Wellhead Protection Demonstration Project:

The project was completed in 1994.



Underground Injection Control and Wellhead Protection Demonstration Project - Village of Holley Water Supply: The project was completed in 1994.

Village of Castile Wellhead Protection Project: The project was completed in 1996.

Batavia Wellhead Protection Project: The project was completed in 1996.

Rose Wellhead Protection Project: The project was completed in 1996.

Village of Dundee Wellhead Protection Project: The project was completed in 1995.

D. HERKIMER–ONEIDA COUNTIES COMPREHENSIVE PLANNING PROGRAM (HOCCPP)

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Agency Name:

Herkimer–Oneida Counties Comprehensive
Planning Program
Boehlert Center @ Union Station, 321 Main
Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Phase II Stormwater Permitting Assistance

Time Period of Project:

2003–Ongoing

Project Location(s):

Herkimer and Oneida Counties

Project Contact:

Jessica Breiten - Chief Planner

Project Description(s):

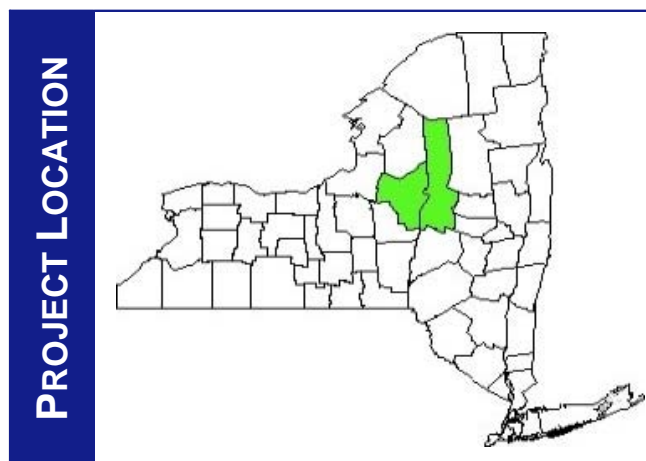
Provide assistance to local governments regarding the implementation of the SPDES Phase II Stormwater Permit requirements for MS4s and for construction activities.

Cooperating Agencies: A key element of the assistance will involve fostering close coordination among HOCCPP, DEC, municipalities, “Non-Traditional” MS4s and County Soil and Water Conservation Districts. Principle activities will focus on public outreach and education, illicit discharge mapping, public involvement, and good housekeeping activities.

Purpose/Objective: The primary objective is to assist regulated MS4s in Herkimer and Oneida Counties in implementing the six minimum control measures required in Phase II.

Methods Employed: Identify needs of MS4 to implement Phase II, assist them in obtaining potential funding, develop and coordinate public outreach, education and involvement programs, organize training and educational programs for local officials and interested parties to implement Phase II requirements, etc.

Outputs: MS4s will be in compliance with Phase II regulations.



Agency Name:

Herkimer–Oneida Counties Comprehensive
Planning Program
Boehlert Center @ Union Station, 321 Main
Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Oneida Lake Watershed

Time Period of Project:

1997–2003

Project Location(s):

Oneida Lake Watershed - Oneida County

Project Contact:

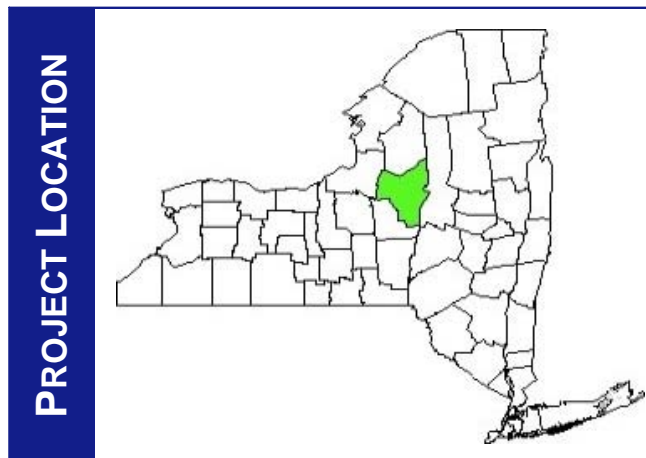
Jessica Breiten - Chief Planner

Project Description(s):

Cooperating Agencies: NYS DEC, CNY RPDB,
Oneida County EM&WQC.

Purpose/Objective: To assist the CNY RPDB in watershed planning efforts within the Oneida Lake basin. Specific assistance includes: participation on the Oneida Lake Executive Committee and other sub-committees; coordination of a basin-wide monitoring program; GIS coordination; evaluation of local land use regulations; education and outreach to the Watershed Advisory Council; etc.

Methods Employed and Outputs: See “CNY RPDB - Oneida Lake and Watershed Protection Project” and “CNY RPDB - Oneida Lake and Watershed Management Plan.”



Agency Name:

Herkimer–Oneida Counties Comprehensive Planning Program
Boehlert Center @ Union Station, 321 Main Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Water Resources Planning, Technical Assistance, Outreach and Education

Time Period of Project:

1996–2003

Project Location(s):

Herkimer and Oneida Counties

Project Contact:

Jessica Breiten - Chief Planner

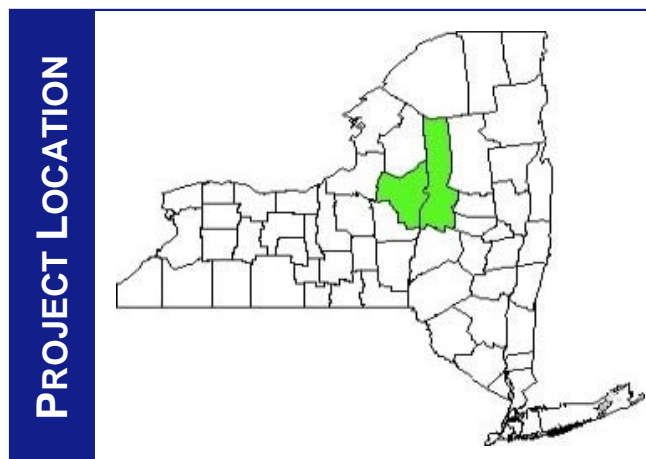
Project Description(s):

Cooperating Agencies: NYS DEC, NYS DOT, NYS Department of Health, Oneida County Department of Health, Oneida County Department of Planning, Oneida County Department of Public Works, Cooperative Extension, etc.

Purpose/Objective: To enable HOCCPP to increase the amount of planning, technical assistance, outreach, and education in response to constituents needs.

Methods Employed: Provide education and outreach in conjunction with the NYS DEC such as: developing new water resource publications, sponsoring local meetings and workshops, disseminating public information, providing assistance and follow-up to communities involved in wellhead protection, respond to needs of the NYS DEC Region 6 office, etc.

Outputs: Coordinated a public participation effort with NYS DEC on the potential development of Lake Ontario Basin Teams. Developed sections of, provided layout for, and printed the Municipal Non-Point Source Guidebook. Coordinated regionally to develop, print, and distribute Boater Warning posters, regarding aquatic weed and zebra mussel control. Participate on the NYS Well-



head Protection Coordinating Committee. Presented the results of a watershed management project at the NYS Conference of Water Quality Coordinating Committees. Provided other miscellaneous daily assistance on an as-needed basis.

Agency Name:

Herkimer–Oneida Counties Comprehensive Planning Program
Boehlert Center @ Union Station, 321 Main Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Regional Watershed Coordination

Time Period of Project:

1996–2003

Project Location(s):

Herkimer and Oneida Counties

Project Contact:

Jessica Breiten - Chief Planner

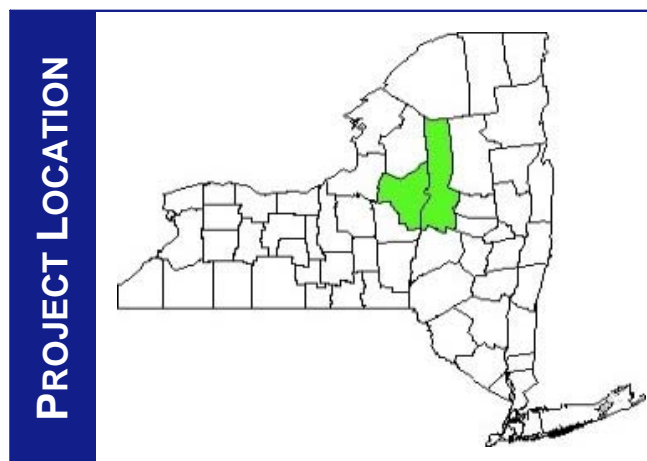
Project Description(s):

Cooperating Agencies: NYS DEC, NYS DOT, NYS Department of Health, Oneida County Department of Health, Oneida County Department of Planning, Oneida County Department of Public Works, Cooperative Extension, etc.

Purpose/Objective: To increase participation and coordination of regional councils in county water quality coordinating committee meetings and other water-oriented groups to foster multi-county, watershed-based efforts.

Methods Employed: HOCCPP actively participates in monthly meetings of the county water quality coordinating committees and other local groups focusing on water resource issues. HOCCPP also sponsors joint regional meetings of the coordinating committees. Articles, updates of projects, and press releases are also published in the quarterly newsletter, Outlook.

Outputs: With the direct assistance of HOCCPP, both the Herkimer County Water Strategy and Oneida County Water Strategy were developed to prioritize important waterbodies within the region. The strategy utilizes a matrix format to identify potential contamination threats such as from: agriculture nonpoint runoff; effects of urbanization; highway management practices, etc. HOCCPP



also provided updates and layout of the recently revised Oneida County Water Quality Strategy.

Agency Name:

Herkimer–Oneida Counties Comprehensive
Planning Program
Boehlert Center @ Union Station, 321 Main
Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Watershed Management and Geographic Information
System Technologies

Time Period of Project:

1996–1998

Project Location(s):

Sauquoit Creek Basin - Oneida County

Project Contact:

Jessica Breiten - Chief Planner

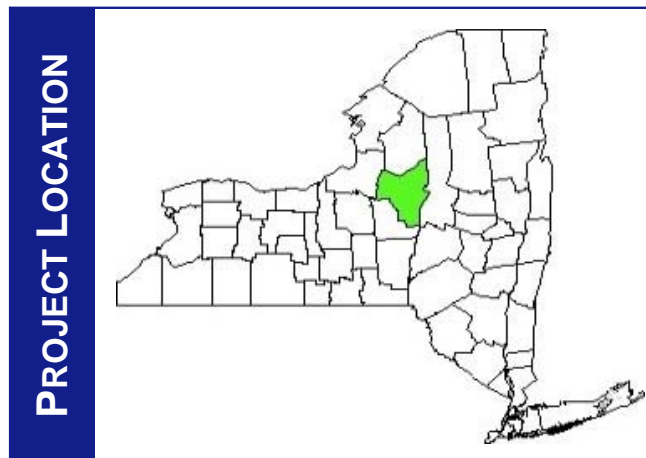
Project Description(s):

Cooperating Agencies: NYS DEC

Purpose/Objective: To provide for and support the comprehensive management of the Sauquoit Creek watershed through the development, use, and management of an integrated GIS.

Methods Employed: The project involves the collection and digitization of data, data analysis, and GIS outputs. Specific methods of data collection include a windshield survey of all properties within the watershed, noting land use and land cover. Results of the inventory were grouped into categories consistent with standard NURP data for future use in water quality and quantity models.

Outputs: The project has resulted in a land use and land cover map of the entire basin. Both digital information, as well as multi-color paper prints for presentation purposes are available. The digital information has also provided calculations of land cover information, in acres, for the watershed. The project will support the Sauquoit Creek Basin - Watershed Management Study and potential future activities, relating to GIS and modeling within the basin.



Agency Name:

Herkimer–Oneida Counties Comprehensive Planning Program
Boehlert Center @ Union Station, 321 Main Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Sauquoit Creek Basin - Watershed Management and Implementation Program

Time Period of Project:

1995–1997

Project Location(s):

Sauquoit Creek Basin in Oneida County (i.e., portions of the Whitestown (T), New Hartford (T), Paris (T), Utica (C), a number of smaller villages and portions of five additional towns)

Project Contact:

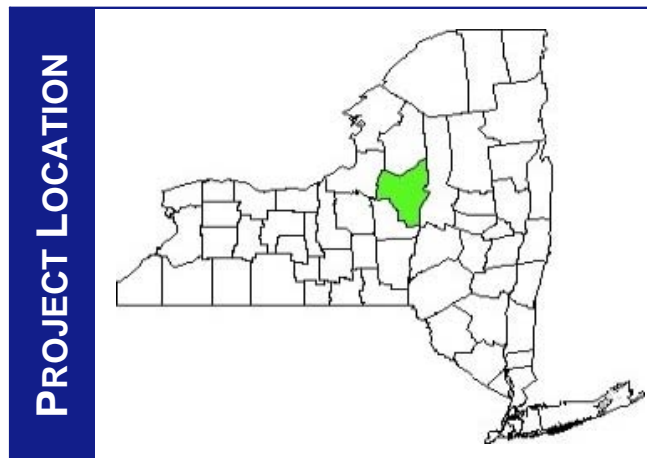
Jessica Breiten - Chief Planner

Project Description(s):

Cooperating Agencies: Oneida County's Department of Planning, Water Pollution Control, Environmental Management Council, DPW, SWCD, Water Quality Coordinating Committee, Town of New Hartford, Town of Whitestown, NYS DEC, NYS DOT, and U.S. Army Corps of Engineers

Purpose/Objective: Implement a comprehensive water resources management program for the basin which will: (1) involve broad public and government participation and acceptance; (2) identify primary basin issues and inter-relationship of issues, and (3) emphasize selected nonpoint pollution abatement activities to implement as part of an overall watershed strategy.

Methods Employed: Task I: Identify nonpoint issues affecting the basin through a basin coordinating committee. Task II: Develop a comprehensive basin management strategy describing the inter-relationship of topics, their affect on the basin, steps which could be undertaken to verify each issue, and recommendations for each issue. Task III: Specific implementation activities to be undertaken by HOCCPP emphasizing land-use ac-



tivities, regulations, and other institutional arrangements for solving nonpoint problems on the basin using NYS DEC “Watershed Planning Handbook” as a guide.

Outputs: A basin coordinating committee, an ongoing public participation and information exchange, a watershed management strategy document, proposed amendments to existing land-use regulations, guidance memorandums concerning revisions to local land-use controls, inter-municipal compacts for the establishment of drainage ways, etc.

Agency Name:

Herkimer–Oneida Counties Comprehensive Planning Program
Boehlert Center @ Union Station, 321 Main Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Source Water Protection - Local Groundwater Implementation Project

Time Period of Project:

1991–1995

Project Location(s):

Assisted seven communities in the Herkimer and Oneida Counties, including Boonville (T), Boonville (V), Fairfield (T), Middleville (V), Trenton (T), Prospect (V) and Barneveld (V)

Project Contact:

Jessica Breiten - Chief Planner

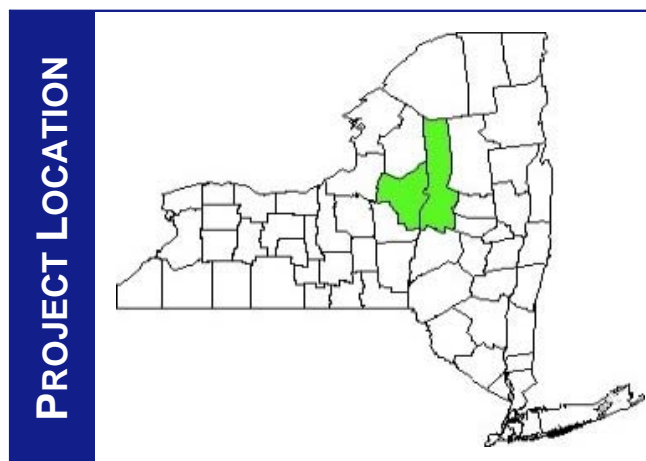
Project Description(s):

Cooperating Agencies: NYS DEC

Purpose/Objective: To assist communities in the Herkimer-Oneida Counties Region in developing and implementing a site-specific groundwater and source protection program, based on the information contained in the first phase Local Wellhead Protection Study reports (see next page).

Methods Employed: For each of the communities (from Local Wellhead Protection Study) expressing an interest in implementation, HOCCPP: (1) established a local wellhead protection advisory committee; (2) defined community goals and objectives; (3) refined the delineation of the wellhead areas of primary concern; (4) updated the community's comprehensive master plans to reflect implementation concerns and delineations; and (5) revised existing zoning regulations to incorporate overlay districts.

Outputs: For each community: A local advisory committee; a Technical Guidance Memorandum which serves as an update to the community's comprehensive plan and documents the refine-



ment to the wellhead protection areas; and draft amendments to existing land-use regulations which can be implemented by each community. Middleville (V), Boonville (V), Fairfield (T), and Boonville (T) have adopted the proposed amendments. The Towns of Trenton, Prospect, and Barneveld are refining the proposed drafts.

Agency Name:

Herkimer–Oneida Counties Comprehensive Planning Program
Boehlert Center @ Union Station, 321 Main Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Source Water Protection - Local Wellhead Protection Study

Time Period of Project:

1988–1990

Project Location(s):

Twenty-one (21) communities in Herkimer and Oneida Counties that rely exclusively on groundwater for their drinking water supplies

Project Contact:

Jessica Breiten - Chief Planner

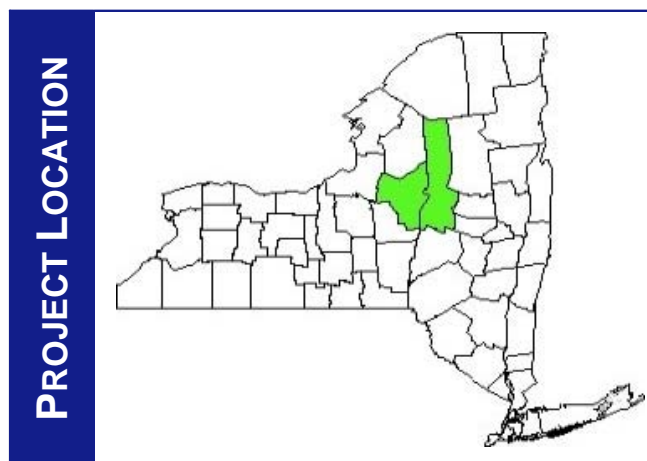
Project Description(s):

Cooperating Agencies: NYS DEC

Purpose/Objective: To assist the 21 communities in the Herkimer-Oneida region to analyze their existing water supply systems, delineate wellhead protection areas, inventory the potential threats to their groundwater resources, create public participation advisory groups, and determine which protection measures would best suit their needs.

Methods Employed: For each community, HOCCPP delineated wellhead protection study areas, inventoried potential sources of contamination, researched existing regulatory controls, and developed options for wellhead protection. With this information, HOCCPP prepared a report for each community that described the details of the water supply system, the location and outline of the wellhead protection study areas, physical features of the wellhead study areas, the existing land-use controls, the potential threatening land-use activities within the wellhead protection study areas, and the options for wellhead protection.

Outputs: The complete Local Wellhead Protection Program Study consists of 21 separate volumes.



Each volume represents the information and recommendations for each community studied. Most importantly, these reports provide the foundation and methodology from which a local wellhead protection program can be built and implemented within any community.

Agency Name:

Herkimer–Oneida Counties Comprehensive
Planning Program
Boehlert Center @ Union Station, 321 Main
Street, Utica, N.Y. 13501
(315) 798-5710

Title of Project:

Groundwater Availability in the Mohawk River
Basin

Time Period of Project:

1988

Project Location(s):

Herkimer and Oneida Counties

Project Contact:

Jessica Breiten - Chief Planner

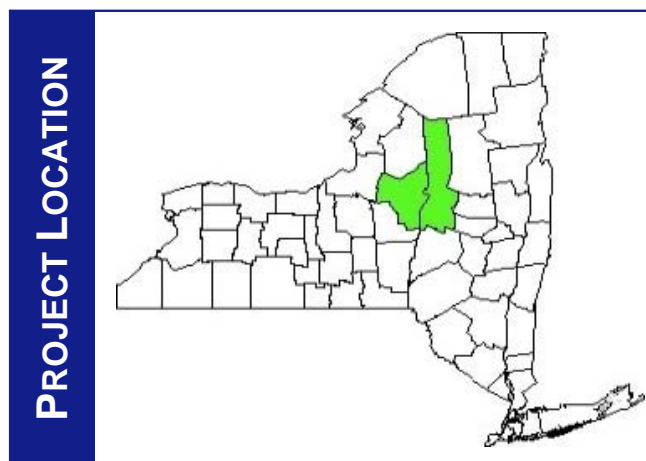
Project Description(s):

Cooperating Agencies: U.S. Geological Survey
(USGS) and NYS DEC

Purpose/Objective: To investigate and map
groundwater resources available within the Mo-
hawk River Basin.

Methods Employed: Cooperated with both the
USGS and the NYS DEC to develop a series of
three plates depicting the availability of ground
water from unconsolidated deposits within the
Mohawk River Basin.

Outputs: The information includes: location and
yield of wells; surficial geology; and the estimated
potential well yields.



E. HUDSON VALLEY REGIONAL COUNCIL (HVRC)

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Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Water Quality Management Planning Program

Time Period of Project:

2007–2011

Project Location:

Lower Hudson Valley: Counties of Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, and Westchester (same county configuration as NYS DEC Region 3).

Project Contact:

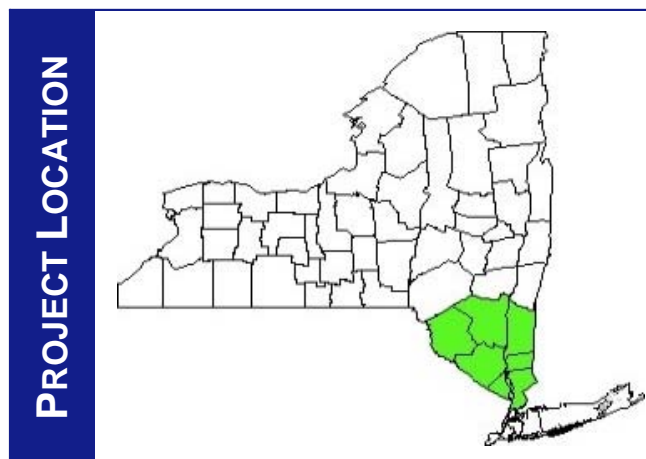
Diana Hesse

Project Description(s):

Cooperating agencies: Various county departments/agencies: water quality committees, planning departments, health departments, soil and water conservation districts, environmental management councils, Cooperative Extension, Lower Hudson Coalition of Conservation Districts (LHCCD). We will also work with any other agency/department/company to further the management of stormwater in the region

Continue to provide support to County Water Quality Committees and NYS DEC with their efforts to educate both public and private sectors on two general permits—SPDES General Permit for Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s), Permit No. GP-02-02; and SPDES General Permit for Stormwater Discharges from Construction Activity, Permit No. GP-02-01.

This support has a broad range and is individual to a county's needs--from conference/workshop logistics and office support, to disbursement of resource materials.



Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Water Quality Management Planning Program

Time Period of Project:

2003–2007

Project Location:

Lower Hudson Valley: Counties of Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster, and Westchester (same county configuration as NYS DEC Region 3).

Project Contact:

Diana Hesse

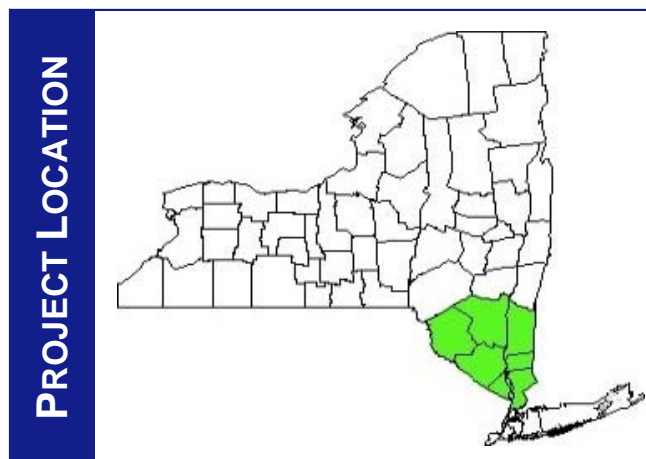
Project Description(s):

Cooperating agencies: Various county departments/agencies: water quality committees, planning departments, health departments, soil and water conservation districts, environmental management councils, Cooperative Extension, Lower Hudson Coalition of Conservation Districts (LHCCD). We will also work with any other agency/department/company to further the management of stormwater in the region.

Provide support to county Water Quality.

Committees and NYS DEC with their efforts to educate both public and private sectors on two general permits—SPDES General Permit for Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s), Permit No. GP-02-02; and SPDES General Permit for Stormwater Discharges from Construction Activity, Permit No. GP-02-01.

This support has a broad range and is individual to a county's needs--from conference/workshop logistics and office support, to purchase and disbursement of resource materials.



Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Water Quality Management

Time Period of Project:

2003-2005

Project Location:

Dutchess, Orange, Putnam, Rockland, Sullivan,
Ulster and Westchester Counties

Project Contact:

John F. Crews, Executive Director

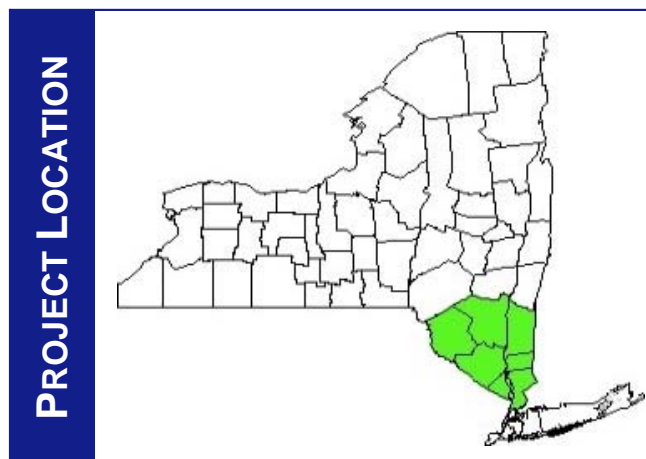
Project Description(s):

Cooperating Agencies: Various county-level departments/agencies; Lower Hudson Coalition, The Water-Wise Council of NY, Southeast New York Intergovernmental Water Supply Advisory Council (SENYIWSAC); NYS Soil and Water Conservation Committee.

Purpose/Objective: To support the valley's county water quality committees (and other cooperating agencies such as EMC, SWCD, etc.) with activities intended to assist public-private entities with increased awareness of and compliance with Phase II Stormwater Regulations for both MS4 and Construction Permits; to support other entities on water-related issues.

Methods to Employ: Attend water-related meetings; disperse stormwater information; exchange/share information; sponsor and coordinate workshops-conferences on stormwater issues; co-sponsor other events that are water-related.

Output: Increased awareness of and compliance with Phase II Stormwater Regulations for both public and private entities.



Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Water Quality Management

Time Period of Project:

1999–2003

Project Location:

Dutchess, Orange, Putnam, Rockland, Sullivan,
Ulster and Westchester Counties

Project Contact:

John F. Crews - Executive Director

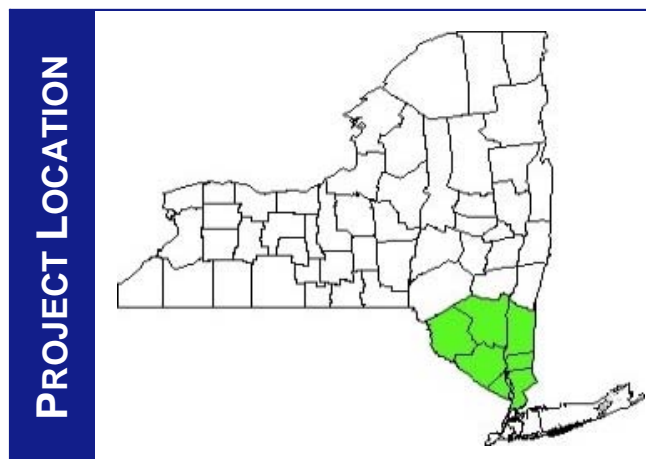
Project Description(s):

Cooperating Agencies: Various county agencies: water quality committees, planning departments, health departments, environmental management councils, soil and water conservation districts; water districts; local and state elected officials; regional and state agencies; the Water Wise Council (WWC); Southeast New York Intergovernmental Water Supply Advisory Council (SENYIWSAC); and the NYS Soil and Water Conservation Committee.

Purpose/Objective: Enhance the technical capacity of state and local officials and private sector entities who are directly and indirectly involved in the various aspects of water quality (land use, road maintenance, source protection, stormwater); assist various groups with education of general public on water quality, nonpoint source, etc.

Methods Employed: (1) Sponsor and cosponsor conferences/seminars; (2) public education; and (3) grants to county water quality committees.

Outputs: (1) Seminars for state and local officials in the region and Southeast New York; (2) central mailing list; and (3) public education products.



Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

1996–1999

Project Location:

Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester Counties: outreach to New York City and Long Island.

Project Contact:

John F. Crews - Executive Director

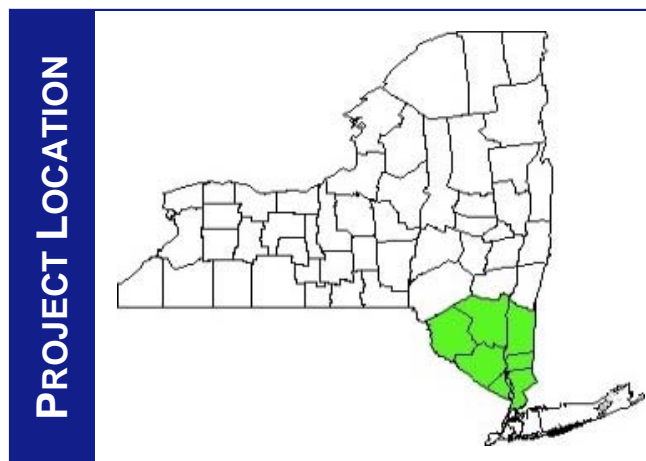
Project Description(s):

Cooperating Agencies: County water quality strategy committees, planning departments in each county, water districts, local and state elected officials, regional and state agencies, planning boards, county environmental committees, county water quality strategy committees, the Water Wise Council (WWC), Southeast New York Intergovernmental Water Supply Advisory Council (SENYIWSAC), and the NYS Soil and Water Conservation Committee

Purpose/Objective: Through workshops and seminars, enhance the technical capacity of state and local officials and private sector entities who are directly and indirectly involved in the various aspects of water quality (land use, road maintenance, source protection, stormwater).

Methods Employed: (1) Technical seminars; (2) public education; (3) develop internship program; and (4) promote Groundwater Guardian Program.

Outputs: (1) Seminars for state and local officials in the region and Southeast New York; (2) coordinate Groundwater Guardian Affiliate status for Southeast New York alliance of water supply and water quality organizations; (3) central mailing list; (4) public education products; (5) municipal involvement in Groundwater Guardian Program;



and (6) strengthen alliance of water quality and supply technicians in Southeast New York.

Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Nonpoint Source Pollution Program for the Lower Hudson Counties

Time Period of Project:

1992–1995

Project Location:

Hudson Valley Counties of Orange, Putnam, Dutchess, Rockland, Ulster and Sullivan Counties

Project Contact:

John F. Crews - Executive Director

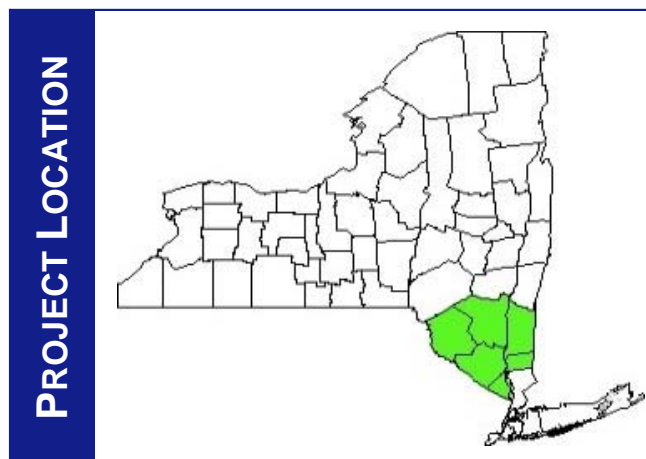
Project Description(s):

Cooperating Agencies: County Soil & Water Conservation Districts, and Water Quality Coordinating Committees of participating counties

Purpose/Objective: To educate officials about the water quality problems caused by stormwater/construction site runoff and inform them of mechanisms available for localities to address the problem, including adoption of local protective ordinances.

Methods Employed: (1) Develop training curriculum for education of local planning officials, building inspectors, CACs and county and municipal officials; (2) dissemination of model ordinances and modification for local conditions; (3) adequacy review of erosion and sediment control and stormwater management plans for proposed subdivision; and (4) conduct workshops and seminars, and develop educational programs.

Outputs: (1) Enter into Memorandum of Understanding for nonpoint source pollution abatement with municipalities; (2) local adoption of sound land-use management practices; (3) implementation of local ordinances; and (4) development of County Stormwater, Sediment, and Erosion Control Ordinance.



Agency Name:

Hudson Valley Regional Council
1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466

Title of Project:

Source Water Protection

Time Period of Project:

1990–1993

Project Location:

Dutchess, Orange, Putnam, Rockland, Sullivan,
Ulster and Westchester Counties

Project Contact:

John F. Crews - Executive Director

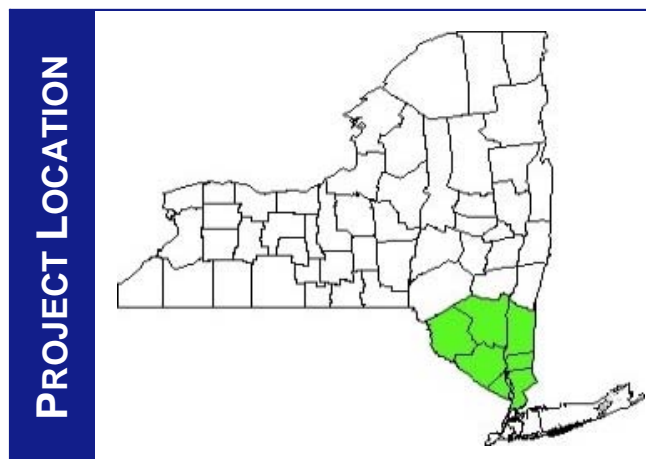
Project Description(s):

Cooperating Agencies: Planning and health departments in each county, water companies, water districts, local elected and planning officials, and county environmental committees

Purpose/Objective: Education on need for community water supply management and protection, adoption of local wellhead management practices, and strategies and adoption of local wellhead protection ordinances.

Methods Employed: (1) Inventory and mapping of up to six aquifers/wellheads per county; (2) development of protection strategy for each wellhead; and (3) review of findings with each wellhead operator and municipality.

Outputs: (1) Seminars for local officials; (2) assistance in preparation of local protective strategy and ordinance; and (3) central repository for a U.S. Environmental Protection Agency-generated Compendium of Wellhead Ordinances for use by all municipalities.



F. LAKE CHAMPLAIN–LAKE GEORGE REGIONAL PLANNING BOARD (LCLG RPB)

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Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Champlain Watershed Improvement Coalition of New York, Inc (CWICNY)

Time Period of Project:

Ongoing

Project Location:

Clinton, Essex, Franklin, Warren and Washington Counties

Project Contact:

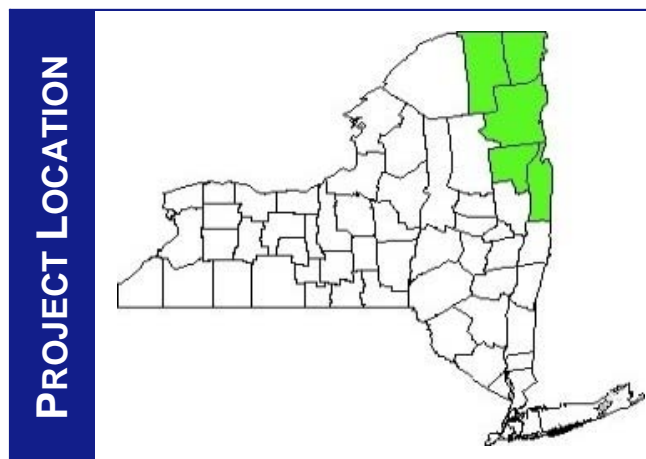
Sarah Gebbie-Measeck – Environmental Planning Assistant

Project Description(s):

Cooperating Agencies: A representative from each County Soil and Water Conservation District (SWCD), Water Quality Coordination Committees (WQCC) and the Lake Champlain – Lake George Regional Planning Board make up the members of CWICNY. Advisory members consist of the Greater Adirondack Resource Conservation and Development Council (RC&D), Natural Resource Conservation Service (NRCS), New York State Soil and Water Conservation Committee (NYSSWCC) and NYS Department of Environmental Conservation.

Purpose/Objective: CWICNY addresses water quality and natural resource concerns in the New York counties of the Lake Champlain Basin. This coordinated effort between county agencies acts as a forum to prioritize point source and nonpoint source pollution projects and implement recommended solutions.

Methods Employed: Through monthly meetings, CWICNY members and advisors stay in contact and share their individual and collective natural resource issues. Through this regional approach



they apply for and acquire funding to implement projects to address these issues. The interagency structure allows for more technical assistance between counties and less needless repetition of programs.

Outputs: CWICNY has organized and held onsite wastewater treatment training events with the On-site Training Network and continues to seek funding and plan for similar events. CWICNY has also organized and held the North Country Regional Stormwater Tradeshow and Conference in 2006. They plan to hold this event on an annual basis.

Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Adirondack Waterfest

Time Period of Project:

Ongoing

Project Location:

Rotates among participating counties

Project Contact:

Sarah Gebbie-Measeck – Environmental Planning Assistant

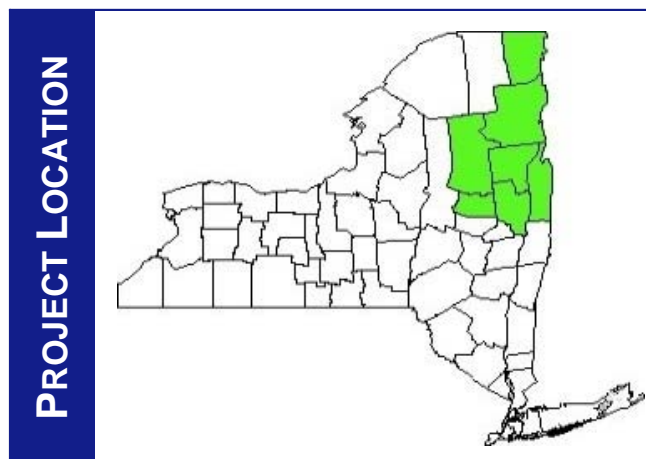
Project Description(s):

Cooperating Agencies: Greater Adirondack Resource and Conservation Development; Clinton, Essex, Fulton, Hamilton, Saratoga, Warren and Washington County Soil and Water Conservation Districts and Water Quality Coordinating Committees

Purpose/Objective: This annual event is used to highlight local water quality and instill the need for better stewardship to the public. Local waterbodies are celebrated and people are introduced to local organizations and businesses that can help them achieve the better water quality they deserve.

Methods Employed: Local water related exhibitors are invited to display, games and activities (including Project WET) are used to educate children and their parents about their water resources and demonstrations in fly fishing, duck retrieval and much more inform everyone about water related recreation.

Outputs: A one day event with exhibitors, live entertainment, demonstrations, games, activities, guided nature tours, educational talks, and much, much more.



Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Phase II Stormwater Program

Time Period of Project:

Ongoing

Project Location:

Warren and Washington County

Project Contact:

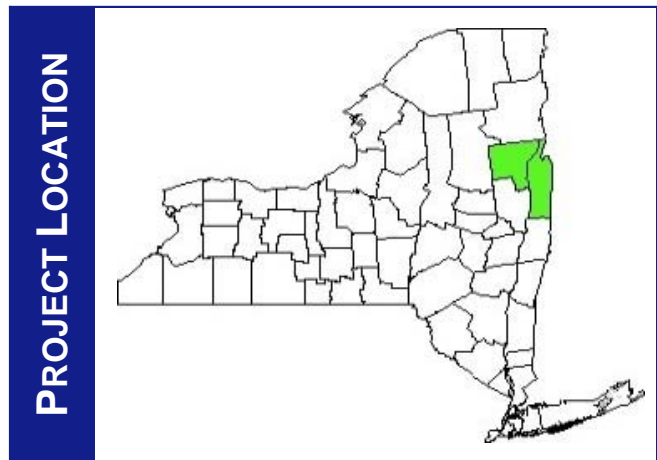
Sarah Gebbie-Measeck – Environmental Planning Assistant

Project Description(s):

Cooperating Agencies: County Soil and Water Conservation Districts, Warren and Washington County, City of Glens Falls, Town of Queensbury, Village of Hudson Falls, Town of Fort Edward, Village of Fort Edward, Town of Kingsbury and NYS Department of Environmental Conservation

Purpose/Objective: The objective of the LCLGRP is to assist the eight regulated MS4s in Warren and Washington Counties in implementing their individual Stormwater Management Programs (SWMP).

Methods Employed: To do this the LCLGRP identifies the needs of each MS4, assist in obtaining funding, develop and deliver public outreach, education and involvement programs, organize training for local officials and interested parties to implement Phase II and assist with the adopting of required local laws. To enhance each MS4s SWMP the Greater Glens Falls Urbanized Area MS4s was created. This allows the MS4s to work cooperatively to obtain funding and implement portions of their SWMPs.



Non regulated MS4s are also given assistance with implementing portions of the Phase II Stormwater Program. This includes assistance with the Gap Analysis of local laws, voluntary adoption of a model stormwater law and public education and outreach materials made available.

Outputs: The ultimate goal for this project is to ensure each regulated MS4 will be in compliance with Phase II Stormwater Regulations by 2008.

Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Updating Water Quality Coordinating Committee's Nonpoint Source Pollution Management Strategies

Time Period of Project:

Ongoing

Project Location:

Clinton, Essex, Hamilton, Warren and Washington Counties

Project Contact:

Sarah Gebbie-Measeck – Environmental Planning Assistant

Project Description(s):

Cooperating Agencies: Greater Adirondack Resource Conservation and Development Council and County Water Quality Coordinating Committees

Purpose/Objective: The goal is to assist each County Water Quality Coordinating Committee with updating and revising their strategies. An updated strategy will renew and strengthen the Committee's purpose. And an updated strategy will address new water quality issues that were previously over looked or not yet a problem.

Methods Employed: This will be accomplished by facilitating the discussion of strategy revision and assisting with implementation of the revisions into a final document.

Outputs: The final outcome will be a new document for each County Water Quality Coordinating Committee that accurately reflects their County's latest issues and the strategy to address each one.

PROJECT LOCATION



Agency Name:

Lake Champlain–Lake George Regional Planning Board

P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Lake Luzerne Watershed Assessment

Time Period of Project:

1999–2000

Project Location:

Warren County

Project Contact:

Walter C. Young - Director

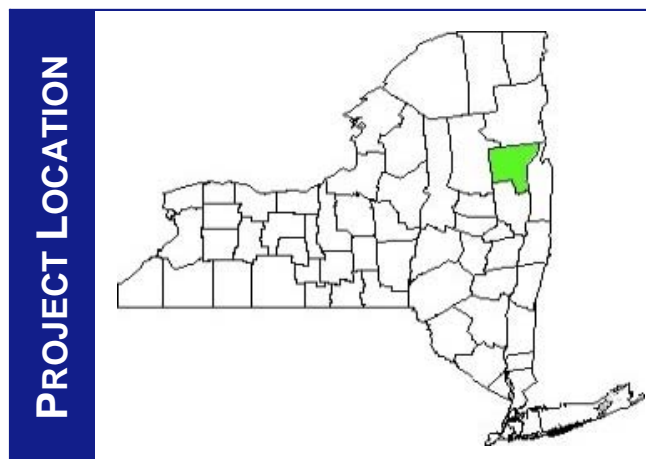
Project Description(s):

Cooperating Agencies: Lake Luzerne Association, Lake Luzerne Water Task Force, Darrin Freshwater Institute, NYS Department of Environmental Conservation, Warren County Soil and Water Conservation District and Town of Lake Luzerne

Purpose/Objective: The objective was to assess the potential and existing nonpoint sources of pollution and nutrients into Lake Luzerne and find practical means to minimize these inputs. This assessment raised awareness of local water quality and determined the existing condition of the lake and its surrounding watershed.

Methods Employed: Water sampling at inlets and beaches, evaluation of past studies, comprehensive survey of aquatic plants and mapping of soils, land use and road runoff within the watershed were methods used in this water shed assessment.

Outputs: The final outcome was the document “Lake Luzerne Watershed Assessment.”



Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Lake Sunnyside Watershed Management Project

Time Period of Project:

1998–2000

Project Location:

Warren County

Project Contact:

Walter C. Young - Director

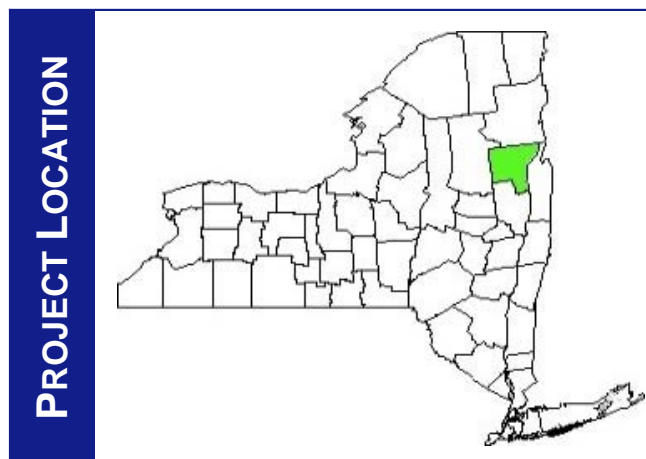
Project Description(s):

Cooperating Agencies: Warren County Soil and Water Conservation District, Lake Sunnyside Property Owners Association and Adirondack Community College

Purpose/Objective: The goal was to develop a lake management strategy for Lake Sunnyside. The strategy provided comprehensive evaluation of stormwater runoff systems, aquatic invasives and existing water quality with relation to potential septic system problems. The objective was to reduce sources of water quality impairment.

Methods Employed: Data for this strategy was obtained through stormwater mapping and assessment, voluntary septic dye testing and water quality sampling.

Outputs: Ultimate results were the “Lake Sunnyside Watershed Management Plan” and the resulting construction of stormwater containment and settling basins from the plan’s recommendations.



Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Halfway Brook Watershed Planning Project

Time Period of Project:

1997–2000

Project Location:

Warren and Washington Counties

Project Contact:

Walter C. Young - Director

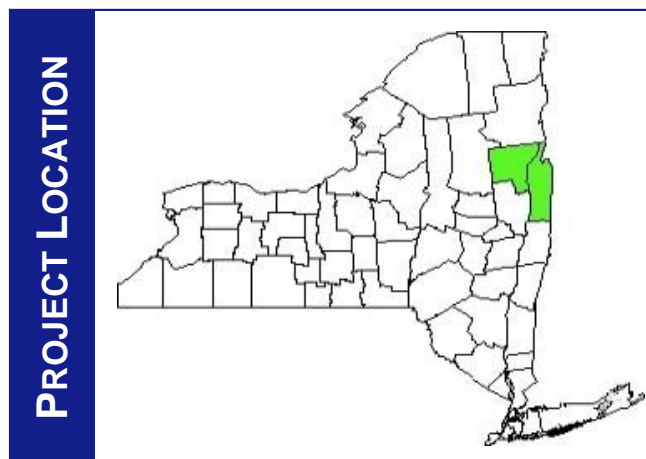
Project Description(s):

Cooperating Agencies: Warren and Washington County Soil and Water Conservation Districts

Purpose/Objective: This project's goal was to identify and address sources of pollution along Halfway Brook watershed. This involved creating a watershed plan, which would implement streambank protection methods and BMPs for agriculture, road banks, ditches and urban runoff. The objective was to restore Halfway Brook as a coldwater fishery and improve water quality.

Methods Employed: A full-time watershed planner was hired to coordinate the duties and responsibilities of the involved agencies, and write the watershed plan. The planning team was comprised of the above agencies and groups.

Outputs: The final outcomes were the “Halfway Brook Watershed Management Plan” and “Halfway Brook Watershed Stormwater Assessment and Management Plan,” both of which resulted in the ongoing implementation of BMPs within the Halfway Brook watershed.



Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Cossayuna Lake Management Plan Watershed Management Planning Project

Time Period of Project:

1997–1998

Project Location:

Cossayuna Lake in the Towns of Greenwich and Argyle - Washington County

Project Contact:

Walter C. Young - Director

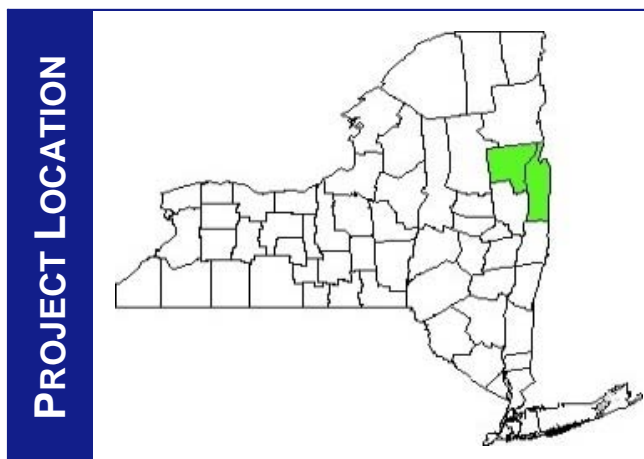
Project Description(s):

Cooperating Agencies: NYS Department of Environmental Conservation, NRCS, Washington County Soil and Water Conservation District, Cooperative Extension Office of Washington County, NYS Federation of Lake Associations, Washington County Planning Department, the Towns of Greenwich and Argyle and the Cossayuna Lake Association

Purpose/Objective: The purpose of this project was to develop a lake management plan for Cossayuna Lake and serve as a manager, coordinator and participant in the management team. The plan would provide organizational structure for the participating communities to help them get financial assistance to conduct specific mitigative measures in the watershed.

Methods Employed: A management team needed to be created, including a mentor, lake manager and scientist. Representatives from the involved agencies above were included.

Outputs: Through fact-finding, a State of the Lake Report was prepared for the Cossayuna Watershed.



Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Nonpoint Source Implementation: (1) Francis Menard Agricultural Waste Management Project; (2) AuSable and Boquet River Streambank Demonstration Project; (3) Hamilton County Salt and Wellhead Protection Project; (4) Warren County Critical Area Treatment and Seeding; and (5) Washington County Route 48/Cossayuna Lake Critical Area Treatment

Time Period of Project:

1993–1997

Project Location:

(1) Town of Mooers - Clinton County; (2) Towns of Westport and Keene - Essex County; (3) Town of Lake Pleasant/Village of Speculator - Hamilton County; (4) select towns in Warren County; and (5) Town of Argyle - Washington County

Project Contact:

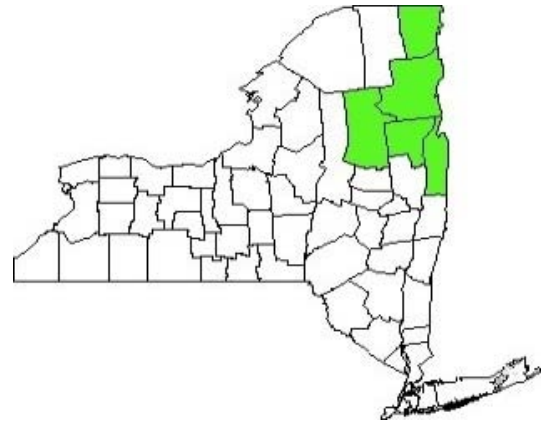
Walter C. Young - Director

Project Description(s):

Cooperating Agencies: (1) Clinton County SWCD; (2) Essex County SWCD; (3) Town of Lake Pleasant/Village of Speculator; (4) Warren County SWCD; and (5) Washington County SWCD

Purpose/Objective: (1) Develop an alternative agricultural waste storage system; (2) Stabilize critical areas on both rivers; (3) Prevent the contamination of new public water supply by relocating and securing existing salt storage pile; (4) Reduce sediment entering waterways and to develop and on-going critical area treatment and seeding program; and (5) Remediate an unstable highway embankment, releasing sediment to Cossayuna Lake.

PROJECT LOCATION



Methods Employed: (1) Construction of an agricultural waste storage pond, using bentonite as an earthen sealer; (2) Planting of seedlings, etc. to protect eroding streambank; (3) Construction of a salt storage shed and relocation of exiting storage pile outside the new municipal wellhead protection zone; (4) Treatment of upland sources of sediment through the use of BMPs; and (5) Design, engineering, and construction of a timber bin wall to stabilize embankment.

Outputs: (1) An alternative agricultural waste storage facility; (2) Reduced nutrient inputs and bank sloughing, and improved fisheries habitat; (3) Protection of new municipal wellhead; (4) Reduced sediment loading from eroding embankments and road ditches; and (5) Road bank stabilization, reducing sediment delivery to Cossayuna Lake. All projects have public education components.

Agency Name:

Lake Champlain–Lake George Regional Planning Board
P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Nonpoint Source Pollution Reduction and Source Water Protection:

- (1) Boquet River Nonpoint Source Project
- (2) Champlain Wellhead Protection Project
- (3) Plattsburgh Wellhead Protection Project
- (4) Speculator Wellhead Protection Project

Time Period of Project:

1992–1995

Project Location:

(1) Boquet and AuSable River Watersheds - Essex and Clinton Counties; (2) Village of Champlain - Clinton County; (3) Town of Plattsburgh - Clinton County; and (4) Village of Speculator - Hamilton County

Project Contact:

Walter C. Young - Director

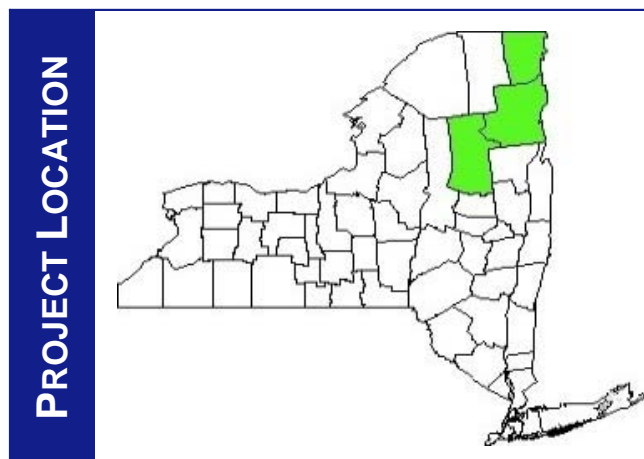
Project Description(s):

Cooperating Agencies: (1) Boquet River Association; (2) Village of Champlain; (3) Town of Plattsburgh; and (4) Village of Speculator

Purpose/Objective: (1) Suggest, identify, and verify appropriate mitigative measures to control nonpoint source pollution to surface waters; (2, 3 and 4) to structure a preventative approach to protect public water supply systems which use groundwater as their source supply.

Methods Employed: (1) Water quality monitoring and analysis: sand, sediment, and erosion control measures; (2, 3 and 4) delineation and mapping of wellhead protection areas, contamination source inventory and source threat mapping.

Outputs: (1) Final report to document and assess results of water quality improvement measures



undertaken, and ongoing public education to promote resource protection; (2, 3 and 4) Final report to identify specific activities or uses which may pose a threat to drinking water supplies, and ongoing public education to promote resource protection.

Agency Name:

Lake Champlain–Lake George Regional Planning Board

P.O. Box 765, 1 Lower Amherst Street, Lake George, N.Y. 12845
(518) 668-5773

Title of Project:

Boquet River Nonpoint Source Project

Time Period of Project:

1998–1990

Project Location:

Boquet River Watershed, and the Towns of Elizabethtown, Westport, Essex, Lewis and Willsboro in Essex County

Project Contact:

Walter C. Young - Director

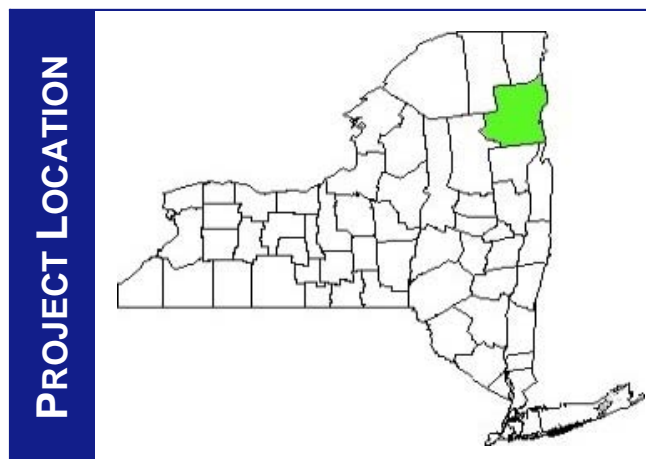
Project Description(s):

Cooperating Agencies: Boquet River Association

Purpose/Objective: To reduce sediment loading along select areas of the Boquet River with the use of erosion control measures, extensive water quality monitoring to identify certain nonpoint source pollution problems, and a public education program on river conservation issues.

Methods Employed: Tree plantings, rip-rap, and log cribbing for erosion control, and citizen-performed water quality monitoring at 29 gauging stations. Technical assistance provided through NYS DEC Division of Water.

Outputs: Results of erosion control work and water quality monitoring documented through newsletters, Advisory Committee meetings, reports, and public education forums.



**G. SOUTHERN TIER CENTRAL REGIONAL PLANNING AND DEVELOPMENT BOARD
(STC RPDB)**

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Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York 14830
(607) 962-5092

Title of Project:

EPA Watershed Initiative: Project #3 Supporting Local Initiatives to Tackle Stormwater Issues

Time Period of Project:

2003–2007

Project Location:

Portions of fourteen counties in the Upper Susquehanna River Basin, eleven in NY and three in PA.

Project Contact:

Jennifer Fais - Principal Planner

Project Description(s):

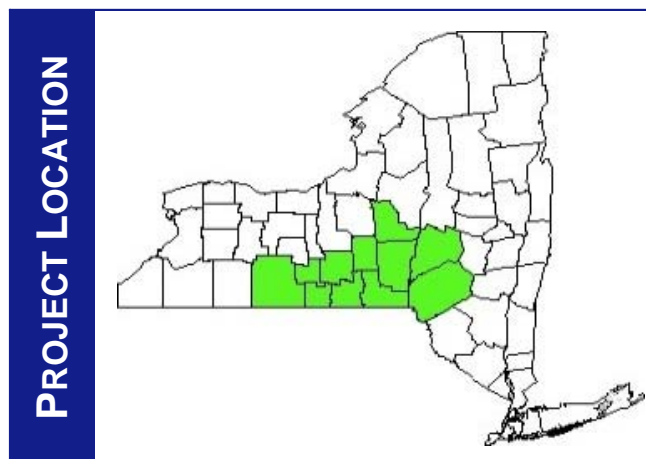
Cooperating Agencies: Upper Susquehanna Coalition (USC) and the USEPA

Purpose/Objective: To increase the understanding and use of Low Impact Development (LID) to reduce runoff and improve stormwater quality.

Methods Employed: 1.) Create a bibliography of LID designs and case studies to share with all 14 county water quality coordinating committees. 2.) Document at least one existing LID per county and showcase at a countywide educational meeting. 3.) Select up to four demonstration sites to re-design stormwater management structures into approved projects. 4.) Create a summary of LID's in the watershed.

Outputs: Four LID demonstration sites, a bibliography of LID designs and case studies with a PowerPoint presentation, and a booklet of LID's in the watershed.

Link to <http://www.u-s-c.org> and the Low Impact Development Center, <http://www.lowimpactdevelopment.org>.



Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York 14830
(607) 962-5092

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

2003–2007

Project Location:

Chemung, Schuyler and Steuben Counties

Project Contact:

Jennifer Fais - Principal Planner

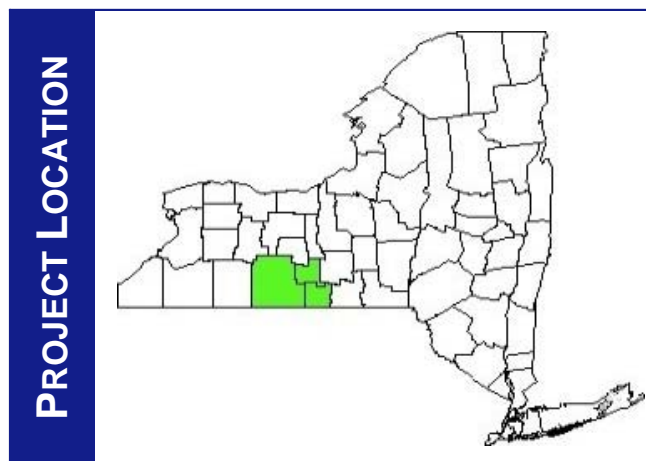
Project Description(s):

Cooperating Agencies: NYSDEC, County Water Quality Coordinating Committees (WQCC's), Chemung County Stormwater Coalition, Chemung Basin River Trail Partnership, Seneca Lake Partners in Five Counties (SLAP-5).

Purpose/Objective: To assist NYSDEC in helping designated Municipal Separate Storm Sewer System (MS4) communities meet the requirements of their SPDES Phase II Construction Permits by January 1, 2008; work with WQCC's to advance their County Water Quality Strategies, undertake watershed planning and implementation; conduct water resources mapping and GIS data collection and management; undertake floodplain management; and provide outreach and education.

Phase II Stormwater: Provide staff support to the Chemung County Stormwater Coalition, a group of eleven municipalities in the Elmira Urbanized Area working to reduce and manage stormwater runoff. Reviewed the state Sample Stormwater Management and Erosion & Sediment Control local law and drafted a "trial balloon" version for consideration by the Coalition in 2006. Conducted training for municipal officials.

WQCC's: Helped Schuyler County update their Water Resources Strategy in 2006. Assisted small watershed groups in Steuben County and applied for Water Quality Improvement Program (WQIP) funding for a low



impact development project in the Town of Baldwin, Chemung County.

GIS: Created the Water Quality/Stormwater webpage on the STC website. Included are pages for each WQCC, a library of water resources data layers, and links to all related water resources groups and agencies in the region.

Watershed Planning: Co-chaired the *Chemung Basin River Trail Partnership*. Organized the Seventh Annual River Float on May 20, 2006, for local officials and residents to help them appreciate the Chemung River and its environs; completed construction of seven additional river access sites; and undertook river clean up projects.

Worked with the *Upper Susquehanna Coalition (USC)* and NYSDEC to develop the draft Chesapeake Bay Program Tributary Strategy to help communities, business, industry and agriculture meet limits for nutrients and sediment in the Susquehanna River by 2011.

Assisted *the Seneca Lake Partners in Five Counties (SLAP-5)* as they reorganized with new staffing in 2006.

Floodplain Management: Helped communities draft amendments to their floodplain management regulations; provided flood map information; reviewed development applications for projects in floodplains; and continued to serve as a Director of the Environmental Emergency Services, Inc. (EES).

Outreach and Education: Wrote "Stream Processes: A Guide to Living in Harmony with Streams" in cooperation with NYSDEC, the USC, and the Chemung County Soil and Water Conservation District.

Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York
14830
(607) 962-5092

Title of Project:

Chesapeake Bay Program Task #5 Development of Conservation Designs

Time Period of Project:

2002–2004

Project Location:

Cortland ('03), Schuyler ('04), Steuben ('03), and Tioga ('02) Counties

Project Contact:

Jennifer Fais - Principal Planner

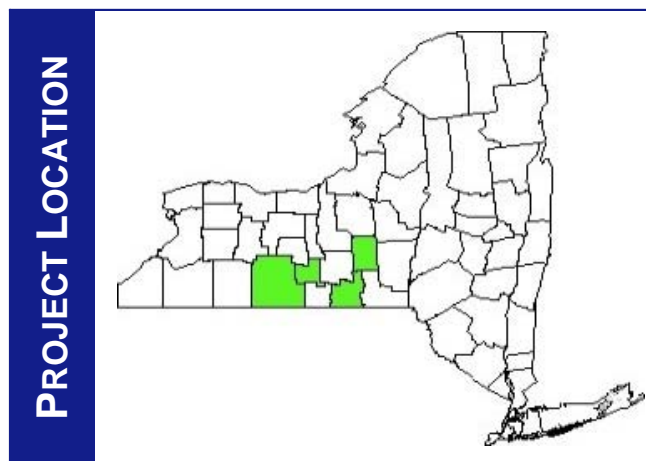
Project Description(s):

Cooperating Agencies: USEPA Chesapeake Bay Program, County Water Quality Coordinating Committees (CWQCC's), Cornell University Department of Landscape Architecture, and the Upper Susquehanna Coalition.

Purpose/Objective: to improve water quality in the Chesapeake Bay by fostering good development design.

Methods Employed: Two rural properties per county were selected as the basis for concept development designs which incorporate water quality protection elements into a layout which is also economically viable. The designs are being created by Cornell U. landscape architecture students.

Outputs: Four chapters of the Rural Design Workbook, focusing on designs created for each of the selected properties; one public presentation per county to legislators, planning board chairs, large landowners, CWQCC members, developers and interested residents; digital images of each site, site design alternatives and background drawings, and the Rural Design Showcase Presentation.



For more information, visit:

<http://www.stcplanning.org>.

Upon entering the site:

- a) Click on “Documents Library”;
- b) Then click on “Rural Design Workbook”

Additional information can be obtained by visiting the following web site links:

- EPA Chesapeake Bay Program,
<http://www.chesapeakebay.net>
- Upper Susquehanna Coalition,
<http://www.u-s-c.org>

Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York 14830
(607) 962-5092

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

1998–2003

Project Location:

Chemung, Schuylar and Steuben Counties

Project Contact:

Jennifer Fais - Principal Planner

Project Description(s):

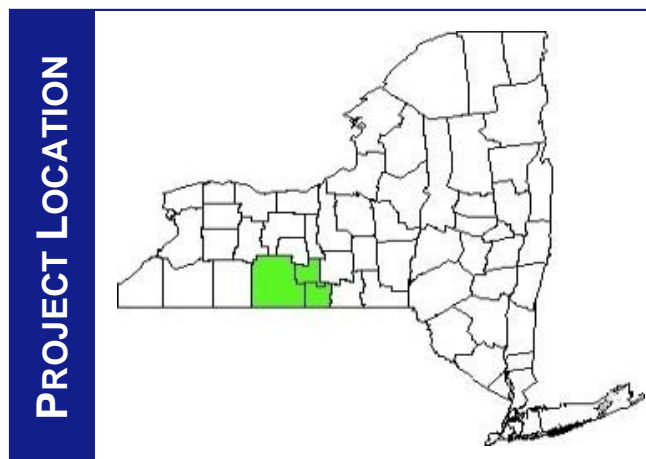
Cooperating Agencies: NYS DEC, County Water Quality Coordinating Committees (WQCCs), Chemung Basin River Trail Partnership, Cornell U. Landscape Architecture

Purpose/Objective: To assist the DEC in the preparation of a pilot Watershed Restoration and Protection Strategy, work with the Chemung Basin River Trail Partnership to encourage stewardship of the Chemung Basin; develop creative rural housing/commercial design to incorporate water quality protection features, and follow up on implementation of ongoing source water protection efforts.

Pilot Watershed Restoration and Protection Strategy (WRAPS):

Worked with NYS DEC, NRCS and the Upper Susquehanna Coalition to develop a strategic plan which characterizes the water quality, natural resources, flooding issues and land uses in the Chemung and Upper Susquehanna watersheds, suggests implementation measures and state/local partners to complete the work.

Chemung Basin River Trail Partnership: Helped establish the Chemung Basin River Trail Partnership, a voluntary organization of agencies, groups and residents created to improve public access to



the Chemung, Tioga, Canisteo and Cohocton Rivers for everyone's enjoyment while promoting the protection of the watershed.

For more information, visit the Chemung Basin River Trail web site:

<http://www.chemungrivertrail.com>

Rural Design Clinic: Developed, with the assistance of twenty Cornell University landscape architecture students and professors, "showcase" concept designs for three rural properties in Steuben County which, when built, should result in water quality, stream corridor and natural resource protection as well as good economic return to the landowner.

Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York 14830
(607) 962-5092

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

1996–1998

Project Location:

Chemung, Schuyler and Steuben Counties

Project Contact:

Jennifer Fais - Principal Planner

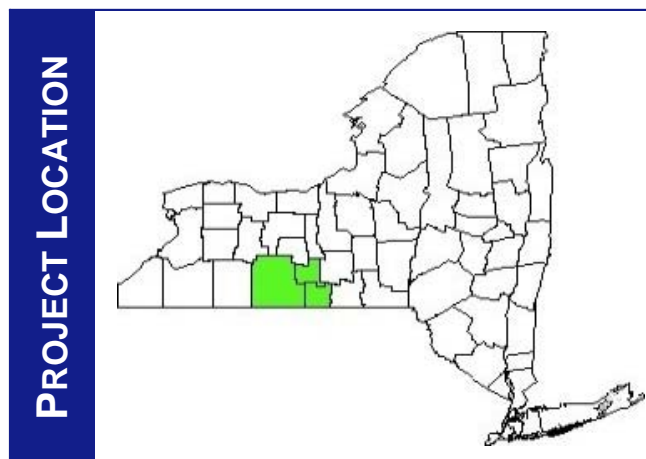
Project Description(s):

Cooperating Agencies: NYS DEC, County Water Quality Coordinating Committees (WQCCs)

Purpose/Objective: To strengthen watershed cooperation across municipal lines, provide water quality education and outreach, provide water resources mapping and assistance to WQCCs, coordinate with NYS DEC to ensure that local issues can be addressed by NYS DEC when appropriate, communicate state watershed initiatives to local water resources groups, follow up on implementation of ongoing source water protection efforts.

Watershed Planning: Provided GIS mapping and helped each WQCC prioritize watersheds; active member of the ad hoc Finger Lakes Bond Act group made up of local water resources interests committed to a cost effective expenditure of Bond Act funds in the Finger Lakes Basin; assisting in the COE Chemung River Basin Water Resources Study, a watershed analysis of flood damage correction and prevention; participation on the Statewide Wellhead Protection Coordinating Committee.

Education and Outreach: Conducted water tasting events at the Chemung and Steuben County Fairs, downlinked the “Tools for Drinking Water Protection” teleconference, hosted the Fall 1996 Con-



tractors’ Workshop on erosion and sediment control with Don Lake, presented a site design/stormwater management panel at the STC Local Government Conference, April 1997, and gave media recognition to area contractors/developers for compliance with state stormwater laws.

Source Water Implementation: Tracked the Drinking Water Protection Law through the process to ensure adoption by the City of Corning on May 5, 1997.

Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York 14830
(607) 962-5092

Title of Project:

Source Water Protection: A Demonstration Program to Prevent Nonpoint Pollution Impacts on Drinking Water Sources in the Southern Tier Central Region

Time Period of Project:

1992–1995

Project Location:

Communities overlying high-priority primary aquifers in Chemung, Schuyler and Steuben Counties

Project Contact:

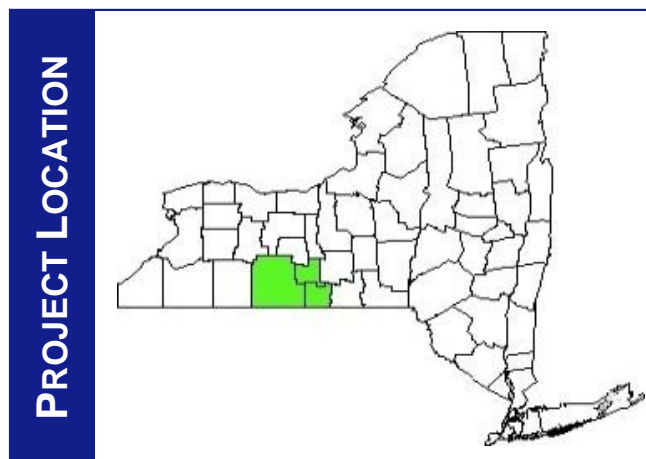
Jennifer Fais - Principal Planner

Project Description(s):

Cooperating Agencies: (For seminar series) County Planning Boards, Soil & Water Conservation Districts, Cooperative Extensions, County EMCs, and others

Purpose/Objective: To create institutional changes necessary to prevent nonpoint contamination of drinking water supplies and improve groundwater quality through: (1) continuing previous work on ordinance preparation and adoption; (2) updating the nonpoint Database GIS and creating a Tri-County GIS Users Group, and other relationships such as a statewide GIS policy group in order to improve the exchange of information among levels of government; and (3) sponsoring a Nonpoint Seminar Series and other educational and/or management efforts.

Methods Employed: Strategic planning tools were used to determine vision and mission statements, objectives, and a schedule of tasks for each of the new or expanding groups.



Outputs: (1) Revised model Site Plan Review process to include aquifer protection elements; (2) a model Drinking Water Protection Law which regulates smaller chemical bulk storage and handling facilities, which are sources of low level, but pervasive urban nonpoint contamination (the law authorizes municipal inspections without requiring paper work from the businesses — industry specific educational materials on BMPs are provided as part of the program); (3) formation of the Tri-County GIS Users Group which meets at least quarterly to keep members current on available GIS layers and ways to share the data; (4) presentations to local government and civic groups; and (5) assistance to the County Water Quality Coordinating Committees in Chemung, Schuyler, and Steuben Counties.

Agency Name:

Southern Tier Central Regional Planning and Development Board
8 Denison Parkway East, Corning, New York 14830
(607) 962-5092

Title of Project:

Source Water Protection: Regional Groundwater Resources Protection

Time Period of Project:

1989–1993

Project Location:

Groundwater-dependent communities in Chemung, Schuyler and Steuben Counties

Project Contact:

Jennifer Fais - Principal Planner

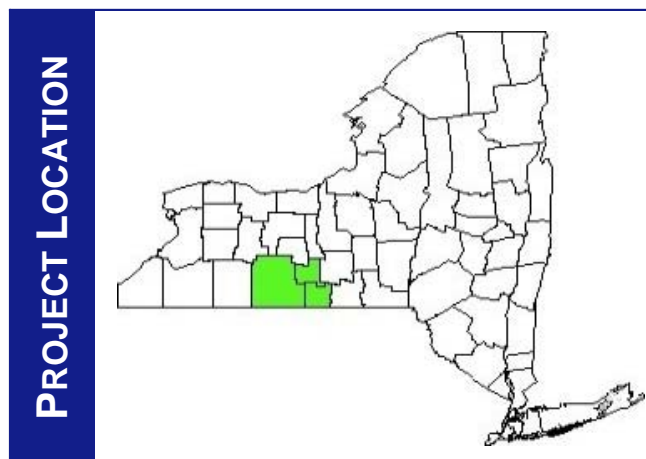
Project Description(s):

Cooperating Agencies: Cooperative Extension Association of Steuben County

Purpose/Objective: To propose land-use management strategies for land within a one-mile radius around each municipal well in Chemung, Schuyler, and Steuben Counties.

Methods Employed: (1) Use of a groundwater impacts model, “SEEPAGE,” developed by the U.S. SWCS, and the Risk Ranking Screening System, developed by the U.S. EPA; (2) compilation of lists and maps of land-uses of concern; and (3) establishment of Town Board/Planning Board committees.

Outputs: Twenty-eight (28) public water supplies serve about fifty (50) communities in the three counties. “Implementation Packets” with suggested changes were submitted to five communities in Chemung County, two in Schuyler County, and six in Steuben County. Land-use tours were conducted and background mapping and information booklets were provided to the remaining communities.



H. SOUTHERN TIER EAST REGIONAL PLANNING DEVELOPMENT BOARD (STE RPDB)

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Agency Name:

Southern Tier East Regional Planning and Development Board
375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

1999–Ongoing

Project Location:

Broome, Chenango, Cortland, Delaware, Otsego, Schoharie, Tioga and Tompkins Counties

Note: As of FY2000, Otsego and Tompkins Counties are no longer members of the STE RPDB.

Project Contact:

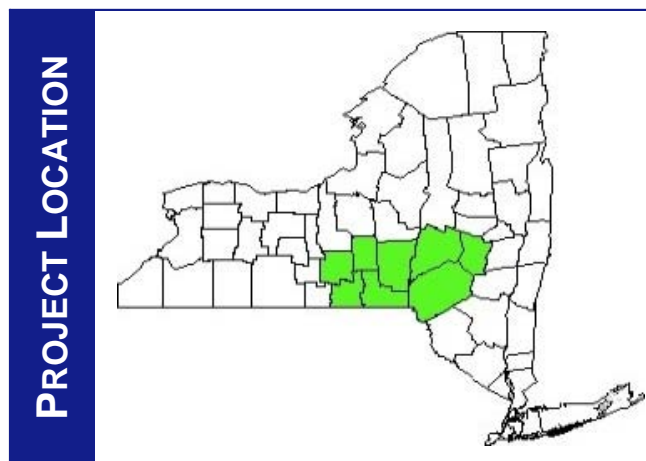
Robert Augenstern - Director

Project Description(s):

Cooperating Agencies: County WQCC member agencies, County Planning Departments, SWCDs, County Health Departments, NYS DEC, NYS DOH, EPA, Cooperative Extension, U.S. Army Corps of Engineers, CNY RPDB, and the Upper Susquehanna Coalition

Purpose/Objective: To enhance communication and coordination of water quality goals and activities of members of the New York State Association of Regional Councils with the DEC-Albany, DEC Regional 4 and Region 7 offices, county water quality coordinating committees (WQCCs), soil and water conservation districts, the Upper Susquehanna Coalition, and other entities involved in water quality efforts on both the state and county levels.

Methods Employed: (1) Assist NYS DEC in the development of a framework for the WRAPS process in the Upper Susquehanna River Watershed; (2) Develop a database and accompanying GIS presentation of water quality monitoring efforts in the region; (3) Develop a database and accompanying GIS presentation of Non-point



funding programs for 1996 thru 2001 in the region; (4) Develop sub-contract with Cortland County for a Riparian Buffer planning effort in the Otselic River Watershed; (5) Develop a sub-contract with the Upper Susquehanna Coalition for continuing WRAPS process finalization; (6) Field experience in collecting the information for (3) and (4) above; and (7) Encourage integration of the importance of water quality into the other program areas carried out in the Southern Tier East Regional Board catchment area.

Outputs: Water Quality Monitoring Database/related GIS, Non-Point Funding Database/related GIS and Otselic River Database/related GIS. These three products are due for completion at the end of September 2001

Agency Name:

Southern Tier East Regional Planning and Development Board
375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327

Title of Project:

Southern Tier Phase II Stormwater Implementation

Time Period of Project:

2003–2007

Project Location:

Broome, Chenango, Cortland, Delaware, Schoharie, and Tioga Counties

Project Contact:

Lynn Cebula – Regional Analyst

Project Description(s):

To assist local governments in the implementation of the SPDES Phase II Stormwater Permits for MS4s and for construction activities. This project involves regional water quality planning activities that will be carried out over a four year period, commencing in June 2003 and going through March 2007.

The Southern Tier East Regional Planning Development Board covers the Binghamton MS4 which is entirely contained in all or parts of Broome and Tioga counties. This project supports the implementation of MS4 activities in those two counties. Construction activities addressed in this project however cover the following six counties in the Southern Tier: Broome, Chenango, Cortland, Delaware, Tioga and Schoharie.

Cooperating Agencies: Coordination between STERPDB, DEC, Municipalities, Upper Susquehanna Coalition and County Soil and Water agencies and County Planning agencies will be actively pursued throughout the four year program. Our principle activities will fall under the categories of outreach and support to the regulated communities and technical assistance provided in our role as liaison to CWQCCs.

PROJECT LOCATION



Purpose/Objective: In its role as a participating member of the regional Water Quality Control Committee and to address the minimum control measures outlined in Storm Water Phase II Final Rule, Southern Tier East Regional Planning Development Board will initiate the activities listed below. The focus of STERPDB's involvement and participation with this program will largely fall under two broad areas; Public Education and Outreach and Public Participation/Involvement. These areas are listed by EPA as two of six required minimum control measures:

- Assist MS4 communities in Administering Regulations
- Provide Stormwater Training
- Public Outreach including distribution of materials and information on our website
- Work with MS4s to ensure NOI compliance
- Serve as liaison to WQCC Stormwater subcommittee
- Inter-Regional Communication and Coordination

Agency Name:

Southern Tier East Regional Planning and Development Board
375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

1998–1999

Project Location:

Broome, Chenango, Cortland, Delaware, Otsego, Schoharie, Tioga and Tompkins Counties

Project Contact:

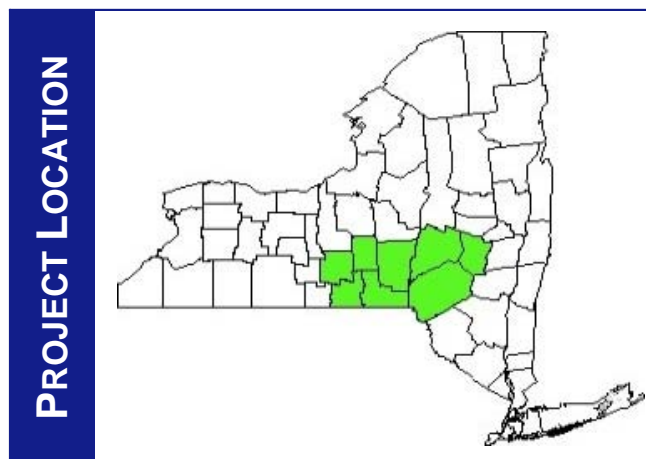
Robert Augenstern - Director

Project Description(s):

Cooperating Agencies: County WQCC member agencies, County Planning Departments, SWCDs, County Health Departments, NYS DEC, NYS DOH, EPA, Cooperative Extension, U.S. Army Corps of Engineers, CNY RPDB, and the Upper Susquehanna Coalition

Purpose/Objective: To enhance communication and coordination of water quality goals and activities of members of the New York State Association of Regional Councils with the DEC-Albany, DEC Regional 4 and Region 7 offices, county water quality coordinating committees (WQCCs), soil and water conservation districts, the Upper Susquehanna Coalition, and other entities involved in water quality efforts on both the state and county levels.

Methods Employed: (1) Assist the CNY Regional Planning and Development Board on the development of the Cayuga Lake Management Plan; (2) Develop a special program proposal to for a watershed planning effort in the Oteselic River Watershed; (3) Attend various meetings in support of (1) and (2) above; (4) Attend WQCC meetings and Upper Susquehanna Coalition meetings in support of water quality efforts around the region; (5) Field experience with DEC Biomonitoring Unit as part of RIBS process/macro-



invertebrate collections in the Chenango R, Susquehanna R, Owego Creek and Catatonk Creek Watersheds; (6) Encourage integration of the importance of water quality into the other program areas carried out in the Southern Tier East Regional Board catchment area; and (7) Assist NYS DOH in development of its' Source Water Assessment Program.

Outputs: Otselic River Watershed Plan Proposal, Survey of WQCCs/SWCDs Priority Water Quality Issues, STERPDB Regional Digest articles on the importance of water quality to the 8-county region

Agency Name:

Southern Tier East Regional Planning and Development Board
375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327

Title of Project:

Regional Water Resources Management Program

Time Period of Project:

1996–1998

Project Location:

Broome, Chenango, Cortland, Delaware, Otsego, Schoharie, Tioga and Tompkins Counties

Project Contact:

Robert Augenstern - Director

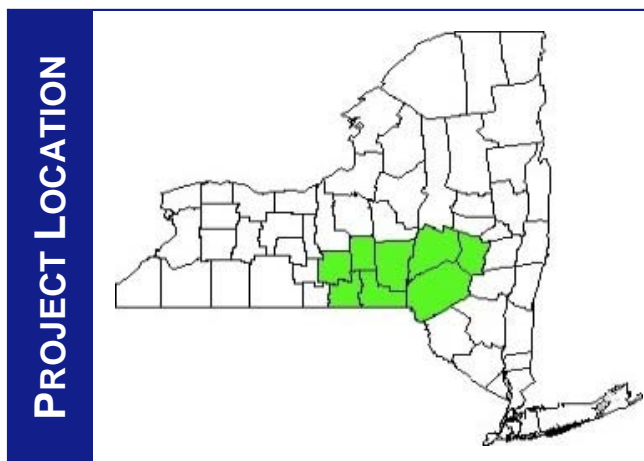
Project Description(s):

Cooperating Agencies: County WQCC member agencies, County Planning, SWCDs, County Health, DEC, EPA, and Cooperative Extension

Purpose/Objective: To enhance communication and coordination of water quality goals and activities of members of the New York State Association of Regional Councils with the DEC-Albany, DEC Regional Offices, county water quality coordinating committees (WQCCs), and other entities involved with water quality initiatives. Also to provide support for county water quality initiatives.

Methods Employed: (1) Attend meetings of county WQCCs and other agencies involved with water quality protection; (2) serve as a forum for the discussion and development of water quality initiatives; and (3) provide assistance in gathering data and preparing watershed plans and reports.

Outputs: Schoharie Creek Floodplain Report; New York State Priority Waterbody List Monitoring Priorities; and Town of Franklin Inventoried Sites



Agency Name:

Southern Tier East Regional Planning and Development Board
375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327

Title of Project:

Nonpoint Source Pollution Prevention and Source Water Protection

Time Period of Project:

1993–1996

Project Location:

Broome, Chenango, Cortland, Delaware, Otsego, Schoharie, Tioga and Tompkins Counties

Project Contact:

Robert Augenstern - Director

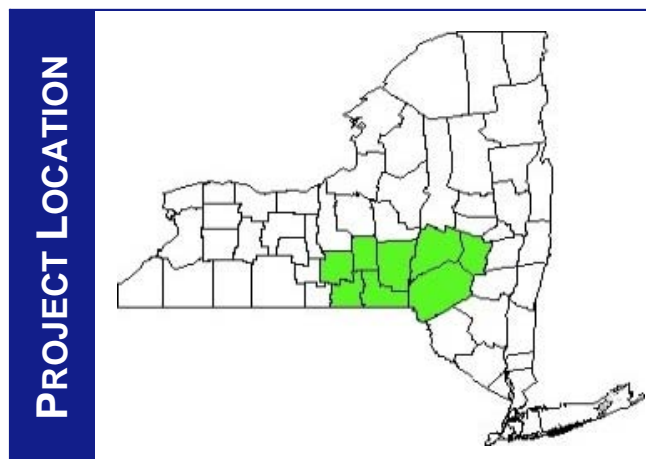
Project Description(s):

Cooperating Agencies: County WQCC member agencies, County Planning, SWCDs, County Health, DEC, EPA, and Cooperative Extension

Purpose/Objective: To work with and provide technical assistance to County WQCCs on specific water quality issues, and to offer continuing technical assistance to the region's communities for wellhead protection.

Methods Employed: (1) Inventory of specific communities for point and nonpoint sources of pollution; (2) search of administrative records to identify potential sources of pollution; (3) compile available information on hydrologic and geologic conditions; (4) integrate this information into reports for the study areas; and (5) assist County WQCCs with implementation plans and grant identification/writing.

Outputs: (1) Reports for Endicott (V), Johnson City (V) Union (T), Candor (V) and Lisle (V). Assistance to communities [Six Mile Creek Watershed - Tompkins County, Middleburg (V), Hamlet of Springfield Center, New Berlin (V), Homer (V), Franklin (V), and Owego (V)] and local municipal officials in determining appropriate preventive measures; and (2) technical assistance



to several of the communities to develop water quality management plans identifying areas for potential implementation projects eligible for 319 funding.

Agency Name:

Southern Tier East Regional Planning and Development Board
375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327

Title of Project:

Source Water Protection: Regional Wellhead Protection Program

Time Period of Project:

1990–1993

Project Location:

Broome, Chenango, Cortland, Delaware, Otsego, Schoharie, Tioga and Tompkins Counties

Project Contact:

Robert Augenstern - Director

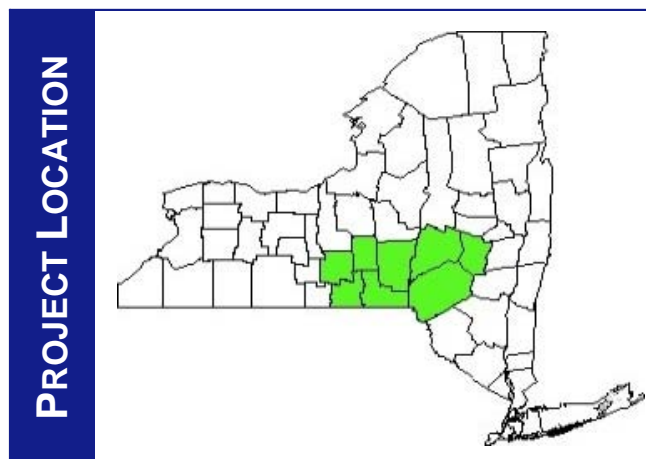
Project Description(s):

Cooperating Agencies: NYS DEC, and the U.S. Environmental Protection Agency

Purpose/Objective: To work with and provide technical assistance to selected communities for protecting their groundwater resources; and to assist in the implementation of Wellhead Protection Programs by developing local law/ordinances tailored to the individual communities.

Methods Employed: (1) Inventory public groundwater systems to identify potential candidates for inclusion into the program; (2) conduct an inventory of potential sources of groundwater contamination within the selected study area communities; (3) search administrative records to assist in the identification of potential sources of contamination, and correlate this information to the inventoried sites (includes SPDES, PBS, gravel mining, and inactive hazardous waste sites); (4) compile and map available information regarding hydrologic and geologic conditions; and (5) completed reports for each community based on the previously mentioned information.

Outputs: (1) Reports for the Villages of Nichols, Laurens, Dryden, Middleburgh, Homer, Groton, McGraw, Waverly, Delhi, Sidney, Walton,



Owego, Marathon, Bainbridge, the City of Oneonta, the Hamlet of South New Berlin, and the Towns of Jefferson and Conklin; (2) inventorying to assist the Broome County Health Department with an intermunicipal WHPP for the Villages of Johnson City and Endicott, and the Town of Union; (3) WHP slide show developed with Broome County Health Department and the Environmental Management Council.

I. SOUTHERN TIER WEST REGIONAL PLANNING AND DEVELOPMENT BOARD (STW RPDB)

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Agency Name:

Southern Tier West Regional Planning and Development Board
4039 Route 219, Suite 200, Salamanca, N.Y. 14779
(716) 945-5301

Title of Project:

Stormwater Management Guidance Program

Time Period of Project:

2006–2007

Project Location:

Allegany, Cattaraugus and Chautauqua Counties

Project Contact:

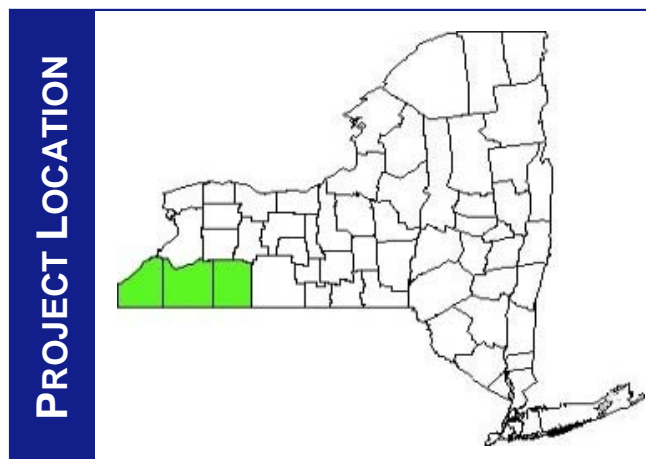
Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

Cooperating Agencies: NYS DEC, Allegany, Cattaraugus and Chautauqua Counties' SWCDs and WQCCs

Purpose/Objective: To assist municipalities that are not regulated under the MS4 permit in developing stormwater management plans. Officials will learn first hand how to implement and maintain erosion control measures that will minimize impacts from and improve the quality of stormwater runoff. Training will help local highway officials, public works officials, and code enforcement officers in identifying issues caused by stormwater, and how to implement measures to control damages that are caused by stormwater. The six municipalities that bought into the program will receive direct assistance in developing stormwater management plans. These plans will be similar to the municipalities that are regulated by the DEC's MS4 permit.

Methods Employed: Brochures mailed to local highway superintendents, public works officials, and code enforcement officers. Outreach will also be conducted by hosting informational forums in each of the counties in the Southern Tier West region.



Training will take two forms: concepts and application. Concepts for controlling stormwater will be taught to persons attending the educational forms. Applications of these concepts will be carried out in a series of demonstration projects that will be hosted in the summer months of 2007.

Southern Tier West will directly assist the six municipalities that bought into the program in developing a comprehensive stormwater management program. More general assistance will be provided to other municipalities that wish to develop plans.

Outputs: Increase in knowledge of erosion control product use and maintenance. Local laws controlling stormwater will be developed with the stormwater management plans.

Agency Name:

Southern Tier West Regional Planning and Development Board
4039 Route 219, Suite 200, Salamanca, N.Y. 14779
(716) 945-5301

Title of Project:

Stormwater Phase II Training-Construction Permit

Time Period of Project:

2003–2005

Project Location:

Allegany, Cattaraugus and Chautauqua Counties

Project Contact:

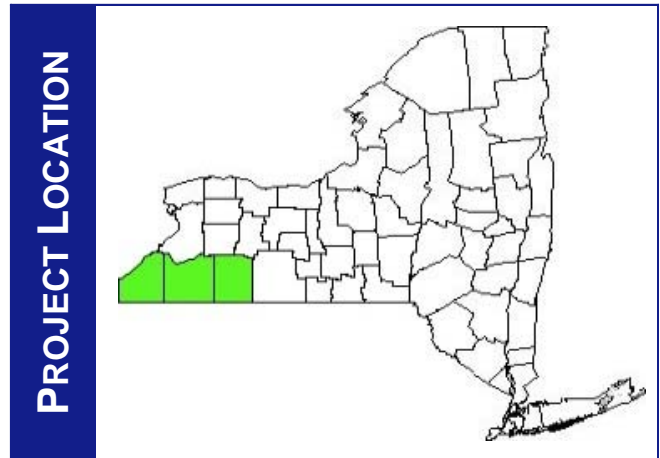
Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

Cooperating Agencies: NYS DEC, Allegany, Cattaraugus and Chautauqua Counties' SWCDs and WQCCs

Purpose/Objective: To provide public outreach to regional contractors, builders, developers and local government officials about the Stormwater Phase II regulations and requirements. Training will be used to educate private sector owners and employees, particularly smaller businesses that do not belong to builder associations, about the regulations to increase understanding of the requirements and compliance with the regulations. Local government training will be provided to encourage acknowledgement of the regulations as a component of the building permit and to enlist those officials to notify operators of construction sites of the need for compliance.

Methods Employed: Brochures mailed to businesses identified by County Health, NRCS, Soil & Water and WQCC committees. Brochures mailed to local government officials across the region. Private sector outreach will include training workshops to introduce and clarify the requirements to regional developers, builders and contractors. An additional component of the training will be an



environmental equipment conference that will provide on-site field demonstrations of equipment designed to improve erosion and sediment control and other stormwater issues on jobsites.

Public sector outreach will include the above components and also provide an overview of planning issues and the need for consistent application of the requirements to prevent stormwater problems in the community.

Outputs: Increased compliance from both the public and private sectors. “Check-off” item included as a component of building permit application. Local ordinances adopted to achieve consistent application of the Stormwater II regulations.

Agency Name:

Southern Tier West Regional Planning and Development Board
4039 Route 219, Suite 200, Salamanca, N.Y.
14779
(716) 945-5301

Title of Project:

Regional Comprehensive Water Quality Management Planning Program -- 604(b)

Time Period of Project:

1999–2001

Project Location:

Allegany, Cattaraugus, and Chautauqua Counties

Project Contact:

Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

1.0 Unified Watershed Assessment: The NYS DEC-Albany office has noted the need to work to develop a plan and implement the Unified Watershed Assessment Program across the state and has expressed interest in working with the Regional Planning Boards/Councils on this project. Southern Tier West Regional Planning and Development Board conducts the following items as part of this program in the STW region:

- Assisting DEC in defining the framework for the UWA process for this region as well as statewide.
- Developing Strategies for Prevention within the counties of Allegany, Cattaraugus and Chautauqua to keep the existing watersheds that are not on the PWL listing at their present water quality level or better.
- Implement the Strategies for Prevention that are developed through cooperative work with other agencies and municipalities.
- Developing Strategies for Restoration at the PWL level for streams within the three counties.
- Implement strategies for restoration through securing additional resources for the actual restoration activities.

PROJECT LOCATION



2.0 Baseline Activities: Baseline activities can be generally grouped into two sub-categories (Water Resources Education, Outreach, and Technical Assistance and County Water Quality Coordinating Committee Participation). During the development of baseline programs specific to individual Regional Councils, these general sub-categories were agreed upon as relevant and important, and are expected to form the basis of Regional Council baseline programs.

2.1 Water Resources Planning, Technical Assistance, Outreach, and Education: The emphasis of this sub-category is aimed at enabling the Southern Tier West Regional Planning and Development Board to continue and increase the amount of planning, technical assistance, outreach, and education they conduct in a general capacity, in response to the needs of their constituencies, and to work with the NYS DEC-Region 9 Offices and county WQCC's to develop needed programs. STW RPDB works to provide water quality education/outreach and technical assistance regarding local water quality planning and issues. These activities may include the development of programs geared toward NPS pollution. The STW RPDB also works on projects that are as yet unforeseen but may come up over the course of the contract that either DEC-Albany, DEC-Region 9, and/or Southern Tier West Regional Planning and Development Board determine are necessary to pursue as part of this contract. The exact scope of these sub-project's terms are be worked out as the project's needs arise. Potential project areas that may be included in this scope include:

- Provide development practices outreach
- Provide Septic system care outreach
- Provide Household hazardous waste technical assistance and outreach;
- Provide assistance to Region 9 with additional salt storage analysis and data collection;
- Continue technical assistance to establish Municipal Wellhead protection programs;
- Develop regional database of water quality information;
- Continue Participation in the Source Water Assessment Program;
- Develop collaborative working arrangements locally and regionally on water quality projects;
- Develop projects and proposals to further water quality improvements or planning activities in the region,
- Provide technical assistance on GIS as developed in conjunction with Region 9
- Assist Region 9 with RIBS program
- Supplement planning-related elements of “Tier II” activities of WQCC’s so as to increase the scope of these activities, within single counties or across counties of a region where common programming is desired, by providing additional staff support to, or in conjunction with, members of the committee undertaking Tier II projects
- Participate in Stewardship activities,
- Develop and Secure a program for a STW Brownfield Inventory,
- Provide Stormwater management assistance to municipalities and businesses
- Provide other Non-Point Source Water Pollution related outreach.
- Other various informational/education activities

quality efforts will be cultivated. During the first two years this has been successful.

STW RPDB Program: The STW RPDB anticipates concentrating its baseline program with respect to WQCCs on activities such as:

- a) Regularly attend, participate in, and represent STW RP&DB at county water quality coordinating committee (WQCC) meetings.
- b) Coordinate quarterly meetings of key environmental participants (e.g., county planning and soil and water conservation district representatives), STW RPDB staff, the appropriate NYS Soil and Water Conservation Committee regional staff, and Natural Resources Conservation Service regional staff. This group is known as the Southern Tier West Environment and Natural Resources Committee.

2.2 County Water Quality Coordinating Committee (WQCC) Participation: The emphasis of this sub-category is aimed at enabling increased participation of Regional Councils on their respective county WQCC’s, and communication of WQCC’s within their regions. It is hoped that through this, support for multi-county, watershed-wide water

Agency Name:

Southern Tier West Regional Planning and Development Board
4039 Route 219, Suite 200, Salamanca, N.Y.
14779
(716) 945-5301

Title of Project:

Water Resources Planning and Management

Time Period of Project:

1996–1998

Project Location:

Allegany, Cattaraugus and Chautauqua Counties

Project Contact:

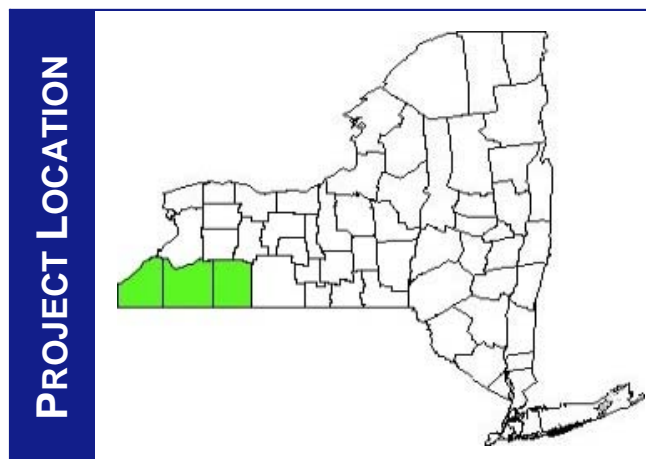
Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

General Assistance: STW is providing water quality services to towns, villages, cities, counties and businesses within the three counties that require assistance in any one of various problem areas that they work in. Included in these problem areas are: Wellhead protection plans; Class V injection wells; environmental compliance issues; integration of multiple project goals that these communities require while focusing on the regional nature of STW; developing a regional household hazardous waste collection program in all three counties; developing a complete inventory of local water and wastewater infrastructure.

Education and Outreach: STW has been providing information sessions to local governments on the New York State Stormwater laws, developing local stormwater laws, implementing best management practices, enforcing local laws, and developing and implementing wellhead protection laws.

Salt Storage Inventory: STW has been involved in collecting information on the local state of road de-icing salt storage. This information has been gathered into a database that has also been mapped. This information was used to assist communities to develop grant applications for the



construction of improved structures. Through this program, over twenty-five municipalities have been assisted in improving their groundwater and surface water quality. This information will also be available for future endeavors in which the NYS DEC is interested.

Brownfield Redevelopment: STW has been involved in the Brownfield Redevelopment movement by working to determine where existing contaminated industrial sites are within the region. We have made the initial survey of interested parties that may participate in future work in this arena. We have also developed applications to the U.S. EPA for additional assessment work on these sites. These sites pose a significant potential contamination threat to the local groundwater resources and it is important to the STW Board to assist in cleaning up these sites.

Agency Name:

Southern Tier West Regional Planning and Development Board
4039 Route 219, Suite 200, Salamanca, N.Y.
14779
(716) 945-5301

Title of Project:

Source Water Protection: Village of Belmont Aquifer Delineation and Wellhead Protection Program

Time Period of Project:

1996–1997

Project Location:

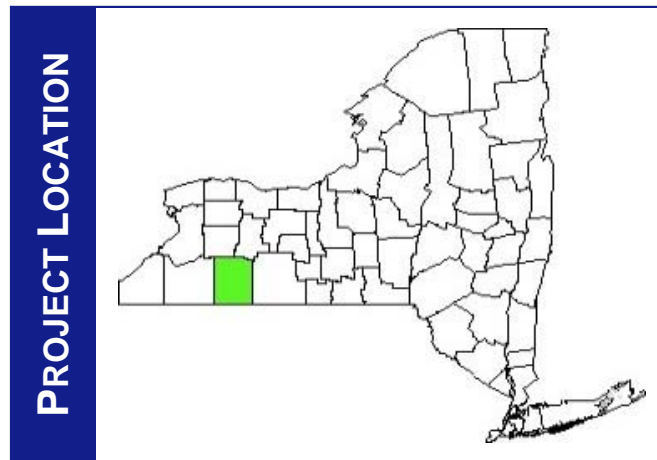
Village of Belmont - Allegany County

Project Contact:

Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

The Village of Belmont in Allegany County is the County seat. The two wells that provide the water for the Village and the County Offices, Court House and Jail are known to be in danger of pollution. These wells supply water for over 360 County employees and over 3,000 daily users in the Village of Belmont. The wells are in a shallow intrusion bed under intensively worked agriculture lands. The wells are known to have some potential problems due to the location of some structures and their proximity to the wells. Threats to this water system include: agricultural lands within 300 feet of the wells; a site within 1,300 feet where leaking fuel tanks were removed within the last five years; a new fuel storage facility at the same site; a cemetery within 2,000 feet; the Genesee River within 500 feet (the River has the Village wastewater treatment plant discharge approximately 1,300 feet upstream from the wells and the Sinclair Refinery Superfund Site is ten miles upstream); a fertilizer storage facility up-gradient; the road to the County Landfill immediately up-gradient, which poses a hazard if there should be a spill of a waste transporter en route to the landfill. The Village is considering various options including land acquisition, alternative



sources, and other regulatory and non-regulatory tools to reduce contamination threats. Specifically, STW provides: contract and fund administration and coordination, quarterly progress reports to U.S. EPA, technical assistance in project development, monitoring and oversight of the project, and collection/production of all products. STW: organizes and coordinates the development of the project; compiled the existing data and information that is presently available regarding the wells and the aquifer that feeds them; compiled a potential contamination source listing for the wells; performed a visual reconnaissance of the area that may feed the shallow intrusion bed; will identify the aquifer sources that feed the shallow intrusion bed; will do geophysical investigation of the groundwater flow and an identification of potential points of impact on the aquifer; and a preliminary investigation of alternative sources of water for the Village and county may be performed. This water system is in need of alternative sources as well as a protection program for the existing wells.

Agency Name:

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Title of Project:

Nonpoint Source Implementation Projects for the Southern Tier West Region: (1) Chautauqua Lake Watershed Questionnaire, and (2) Assistance to Municipalities with Erosion and Sediment Control/Stormwater Management Planning

Time Period of Project:

1994–1996

Project Location:

(1) Chautauqua Lake Watershed, and (2) Allegany, Cattaraugus and Chautauqua Counties

Project Contact:

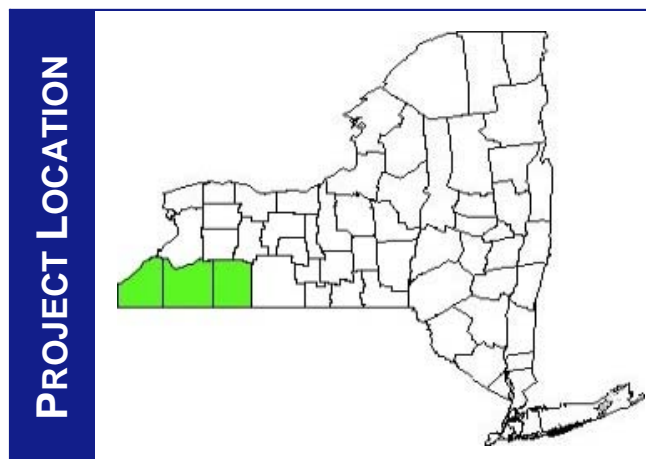
Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

Cooperating Agencies: (1) Chautauqua County Planning Department; and (2) Allegany, Cattaraugus, and Chautauqua County Planning Departments, SWCDs, and Water Quality Coordinating Committees

Purpose/Objective: (1) To poll residents in the Chautauqua Lake watershed about their perceptions on land-use, recreation, and environmental issues related to the lake, and their feelings regarding possible management solutions to water quality problems. Project results will be used in developing a lake watershed management plan; and (2) to work directly with two or more municipalities per county to assist them in addressing their erosion and sediment/stormwater runoff concerns in their communities.

Methods Employed: (1) Development and use of questionnaire mailed to random sample of permanent and seasonal lake watershed residents with the results compiled and tabulated for future use; (2) using technical assistance teams comprised in



each county of Southern Tier West, County Planning, and County SWCD, provide general educational outreach to local officials on erosion and sediment control and stormwater management; select and work with municipalities to review existing zoning laws, evaluate local situations/needs, develop recommendations, and provide education and assistance to help them institute erosion control measures such as zoning.

Outputs: (1) Tabulated poll results and final report documenting project; and (2) compilation of recommendations and documentation of project results.

Agency Name:

Southern Tier West Regional Planning and Development Board
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Title of Project:

Source Water Protection: Development of Management Programs of Groundwater Protection for Three Areas/Municipalities in the Southern Tier West Region

Time Period of Project:

1991–1994

Project Location:

Town and Village of Ellicottville - Cattaraugus County; Town and Village of Alfred - Allegany County; and Lower Cassadaga Valley/Jamestown Aquifer - Chautauqua County

Project Contact:

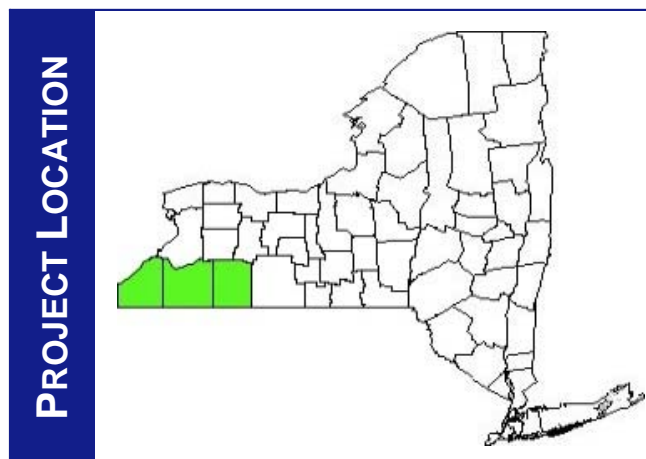
Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

Cooperating Agencies: Allegany, Cattaraugus and Chautauqua County Health Departments

Purpose/Objective: To develop informational materials and recommendations for wellhead protection in the three study areas and provide community-specific and county-wide educational outreach to facilitate implementation of recommendations.

Methods Employed: (1) Creation of local task forces for each study area; (2) education of local task forces to foster implementation of groundwater protection measures; (3) county-wide education outreach to municipal officials; (4) development of recommended action plans through research of existing legislation and local groundwater protection tools in conjunction with input from county health departments and local task forces (comprised of local officials and decision makers), and through use of information



mapped during the Southern Tier West Local Groundwater Wellhead Project.

Outputs: Guidebooks for each participating study area detailing recommended groundwater protection strategies, including general information on groundwater, existing laws, local protection tools, general and specific contamination threats, previous 205(j) study information, and relevant strategies for each study area. Town of Gerry - Chautauqua County - adopted a Groundwater Protection Overlay District.

Agency Name:

Southern Tier West Regional Planning and Development Board
4039 Route 219, Suite 200, Salamanca, N.Y.
14779
(716) 945-5301

Title of Project:

Source Water Protection: Local Groundwater and Wellhead Protection Study

Time Period of Project:

1988–1991

Project Location:

Allegany County: Villages of Alfred, Andover, Fillmore and Angelica; Cattaraugus County: Villages of Ellicottville, East Randolph, Franklinville, Little Valley, Randolph, Town of Ellicottville and City of Salamanca, including Seneca Nation of Indians Jimmersontown; Chautauqua County: Villages of Cassadaga, Cherry Creek, Clymer, Lakewood, Mayville, Sherman, Sinclairville, Forestville, City of Jamestown and Carroll/Frewsburg Water District

Project Contact:

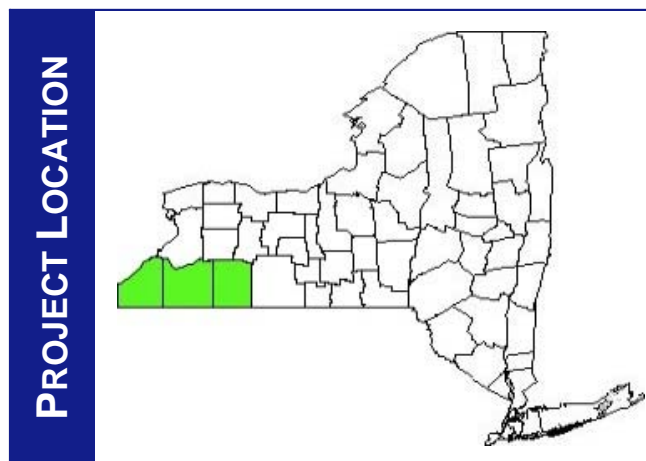
Daniel Reynolds – Regional Environmental Analyst

Project Description(s):

Cooperating Agencies: Allegany, Cattaraugus and Chautauqua County Health Departments and SUNY Fredonia

Purpose/Objective: To gather, consolidate, and map hydrogeologic information for delineation of recharge areas, and to collect information on, organize, and map potential sources of contamination and existing land-uses for selected aquifers in the region within one-mile radius areas of municipal wells.

Methods Employed: Within a one-mile radius of public supply wells, research existing hydrogeologic and soils information, inventory existing land uses, categorize identified land-uses by SIC code for groundwater contamination potential. Map information using GIS.



Outputs: USGS/NYS DOT standard 7.5 minute scale topographic map overlays for each study area providing information on potential recharge areas, potential contamination sources, and existing land-uses within one 1-mile radius of selected municipal wellheads.

III. NYSARC MEMBERS CONTACT INFORMATION

Capital District Regional Planning Commission

One Park Place, Suite 102, Albany, N.Y. 12205
(518) 453-0850 • Fax: (518) 453-0856
<http://www.cdrpc.org> (cdrpc@cdrpc.org)
Executive Director: Rocco Ferraro (Rocky@cdrpc.org)
Water Resources Contact: Todd Fabozzi
(tmfabozzi@cdrpc.org)

Central New York Regional Planning and Development Board

126 N. Salina St., Suite 200, Syracuse, N.Y. 13202
(315) 422-8276 • Fax: (315) 422-9051
<http://www.cnyrpd.org> (mail@cnyrpd.org)
Executive Director: David V. Bottar
(dbottar@cnyrpd.org)
Water Resources Contact: Kathleen Bertuch
(bertuch@cnyrpd.org)

Genesee/Finger Lakes Regional Planning Council

City Place, 50 W. Main St., Suite 8107, Rochester, N.Y. 14614
(585) 454-0190 • Fax: (585) 454-0191
<http://www.gflrpc.org> (gflrpc@gflrpc.org)
Executive Director: David S. Zorn (dave.zorn@gflrpc.org)
Water Resources Contact: David S. Zorn
(dave.zorn@gflrpc.org)

Herkimer–Oneida Counties Comprehensive Planning Program

Boehlert Center @ Union Station, 321 Main Street, Utica, N.Y. 13501
(315) 798-5710 • Fax: (315) 798-5852
<http://www.ocgov.net/oneida/planning>
(planning@ocgov.net)
Director: John R. Kent, Jr.
Water Resources Contact: Jessica Breiten
(jbreiten@ocgov.net)

Hudson Valley Regional Council

1010 D Street, New Windsor, N.Y. 12553
(845) 567-9466 • Fax: (845) 567-9480
<http://www.hvregionalcouncil.org> (hvrc@hvi.net)
Executive Director: John F. Crews (jcrews@hvi.net)
Water Resources Contact: Diana Hesse (hvrc@hvi.net)

Lake Champlain–Lake George Regional Planning Board

P.O. Box 765, Lake George Institute, 310 Canada Street, Lake George, N.Y. 12845
(518) 668-5773 • Fax: (518) 668-5774
<http://www.lclgrpb.org> (lclgrpb@verizon.net)
Director: Walter Young (wyoung_rpb@verizon.net)
Water Resources Contact: Walter Young
(wyoung_rpb@verizon.net)

Southern Tier Central Regional Planning and Development Board

8 Denison Parkway East, Corning, NY 14830
(607) 962-5092 • Fax: (607) 962-3400
<http://www.stcplanning.org> (stcrpdb@stny.rr.com)
Executive Director: Marcia D. Weber (weber@stny.rr.com)
Water Resources Contact: Jennifer Fais (jfais@stny.rr.com)

Southern Tier East Regional Planning and Development Board

375 State Street, Binghamton, N.Y. 13901-2385
(607) 724-1327 • Fax: (607) 724-1194
www.steny.org (ste@steny.org)
Director: Robert Augenstern (raugen@steny.org)
Water Resources Contact: Lynn Cebula
(lcebula@steny.org)

Southern Tier West Regional Planning and Development Board

4039 Route 219, Suite 200, Salamanca, N.Y. 14779
(716) 945-5301 • Fax: (716) 945-5550
<http://www.southerntierwest.org>
Executive Director: Donald Rychnowski
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Water Resources Contact: Dan Reynolds
(dreynolds@southerntierwest.org)

IV. ACRONYMS

BMP	Best Management Practice
CCE.....	Cornell Cooperative Extension
CDRPC	Capital District Regional Planning Commission
CNY RPDB.....	Central New York Regional Planning and Development Board
DOH.....	Department of Health
EDA	Economic Development Administration
EMC.....	Environmental Management Council
FAA.....	Federal Aviation Administration
FL-LOWPA	Finger Lakes-Lake Ontario Watershed Protection Alliance
G/FLRPC	Genesee/Finger Lakes Regional Planning Council
GIS	Geographic Information System
HOCCPP	Herkimer-Oneida Counties Comprehensive Planning Program
HVRC	Hudson Valley Regional Council
LCLG RPB.....	Lake Champlain-Lake George Regional Planning Board
NRCS	Natural Resources Conservation Service
NYS DEC.....	New York State Department of Environmental Conservation
NYS DOT	New York State Department of Transportation
NYS S&WCC	New York State Soil and Water Conservation Committee
NYSARC	New York State Association of Regional Councils
RAP.....	Remedial Action Plan
RPDB	Regional Planning and Development Board
SPDES.....	State Pollutant Discharge Elimination System
STC RPDB.....	Southern Tier Central Regional Planning and Development Board
STE RPDB	Southern Tier East Regional Planning Development Board
STW RPDB.....	Southern Tier West Regional Planning and Development Board
SWCD.....	Soil and Water Conservation District
U.S. EPA.....	Environmental Protection Agency
USDA.....	United States Department of Agriculture
USGS	United States Geological Survey
WQCC.....	Water Quality Coordinating Committee