

# Catalog of State Protection Development Grants

## Fiscal Year 1992

### TABLE OF CONTENTS

[Introduction to Catalog](#)

[State Wetlands Protection Development Grants](#)

[Highlights of the FY92 State Grant Program](#)

[Headquarters Set Aside](#)

### Grantees by State

[Alabama](#)

Department of Environmental Management

[Alaska](#)

Department of Environmental Conservation

[Arizona](#)

Department of Environmental Quality

[Arkansas](#)

Department of Finance and Management

[California](#)

California Resources Agency

California State Coastal Conservancy

State Water Control Resources Board

[Colorado](#)

Department of Natural Resources

[Connecticut](#)

Department of Environmental Protection

Department of Environmental Protection

[Delaware](#)

Department of Natural Resources and  
Environmental Control

[Florida](#)

Department of Environmental Regulation

Department of Environmental Regulation

[Georgia](#)

Department of Natural Resources

[Idaho](#)

Department of Health and Welfare

[Illinois](#)

Illinois Department of Conservation

Illinois Environmental Protection Agency

[Kansas](#)

Conservation Commission

Department of Wildlife and Parks

[Louisiana](#)

Department of Agriculture and Forestry

Department of Natural Resources

Louisiana Cooperative Extension Service

## [Maine](#)

Department of Environmental Protection  
Department of Environmental Protection  
Department of Inland Fisheries and Wildlife

## [Maryland](#)

Department of Natural Resources

## [Massachusetts](#)

Department of Environmental Protection  
Department of Fisheries, Wildlife, and  
Environmental Law Enforcement  
Division of Fisheries and Wildlife

## [Michigan](#)

Department of Natural Resources

## [Minnesota](#)

Board of Water and Soil Resources  
Department of Natural Resources  
Pollution Control Agency

## [Missouri](#)

Department of Natural Resources

## [Montana](#)

Department of Health and Environmental Sciences

## [Nebraska](#)

Department of Environmental Control

## [New Hampshire](#)

Department of Environmental Services  
Department of Resources and Economic Development  
Office of State Planning

## [New Jersey](#)

Department of Environmental Protection and Energy  
New Jersey Pinelands Commission

## [New Mexico](#)

New Mexico Environmental Department

## [New York](#)

Department of Environmental Conservation

## [North Carolina](#)

Department of Environment, Health, and  
Natural Resources

Department of Environment, Health, and  
Natural Resources

## [North Dakota](#)

State Water Commission and Game and Fish Department

## [Ohio](#)

Department of Natural Resources  
Environmental Protection Agency

## [Oklahoma](#)

Department of Pollution Control

## [Oregon](#)

Division of State Lands

## [Pennsylvania](#)

Department of Environmental Resources

## [Rhode Island](#)

Department of Environmental Management

## [South Carolina](#)

Department of Health and Environmental Control  
Water Resources Commission

## [Texas](#)

Texas Parks and Wildlife Department  
Texas State Soil and Water Conservation Board  
Texas Water Commission

## [Utah](#)

Department of Natural Resources

## [Vermont](#)

Department of Environmental Conservation  
Natural Heritage Program

## [Virginia](#)

Virginia Institute of Marine Sciences  
Virginia Institute of Marine Sciences  
Virginia Institute of Marine Sciences

## [Washington](#)

Department of Ecology and Department of  
Community Development

## [West Virginia](#)

Department of Commerce, Labor, and Environmental Resources

## [Wyoming](#)

Department of Environmental Quality

# **Grantees by Tribe**

## [Cherokee Nation of Oklahoma](#)

Hazardous Waste Management Office

## [The Confederated Salish and Kootenai Tribes of the](#)

Flathead Reservation  
Natural Resources Department

## [Fort Peck Assiniboine and Sioux Tribes](#)

Office of Environmental Protection

## [Leech Lake Tribal Council](#)

Division of Resource Management

## [Navajo](#)

Department of Navajo Fish and Wildlife

[Red Lake Band of Chippewa](#)

Red Lake Tribal Council

[Santa Clara Pueblo](#)

[Seminole Tribe of Florida](#)

[Tulalip Tribe](#)

Planning and Community Development

## **Grantees by Territory**

[American Samoa](#)

Environmental Protection Agency

[Appendix I Grantee by Topic](#)

[Appendix II FY92 State Grant Guidance](#)

## **INTRODUCTION TO CATALOG**

States have been involved in wetlands protection for many years and have developed a variety of innovative, effective, efficient wetlands protection programs. However, there is also great variability in the focus, legislative authority, and comprehensiveness of individual State Wetland Programs. The U.S. Environmental Protection Agency's (EPA) State Wetlands Protection Development Grant Program is intended to help States increase wetlands protection at the State level and to develop new and innovative techniques and programs to protect wetlands.

The intent of this catalog is to let States and others know the range of projects that have been funded during Fiscal Year 1992 under this grant program. There is much valuable information and insight that can be gained by examining the work of States. States can adapt ideas, techniques, programs, and products to their needs and can find out what worked or did not work in other States. This catalog is intended to help with information transfer among State agencies.

For information about the State Wetlands Protection Development Grant Program, contact either the EPA Regional Office appropriate to your State or contact:

Ms. Lori Williams

U.S. Environmental Protection Agency

Wetlands Division (A-104F)

Wetlands Strategies and State Programs Branch  
Washington, D.C. 20460  
(202) 260-5084

## **STATE WETLAND PROTECTION DEVELOPMENT GRANTS**

The State Wetlands Grant Program was established in Fiscal Year 1990 to support development of new State wetlands protection programs and/or to support refinement/enhancement of existing State wetland protection programs. Grant funds were made available to State wetland regulatory agencies as well as any other State agency with wetlands related programs including Section 401 water quality certification agencies, natural resource agencies, State planning offices as well as many other State agencies with wetlands related programs. Federally recognized Indian Tribes are also eligible to receive grant funds under this program.

Funding for this grant program continues to increase. State interest in the program is also growing. The initial funding for this grant program in FY90 was \$1 million; in FY91, \$5 million; and in FY92, \$8.5 million. In FY90 States applied for \$3 million of Federal funds; in FY91, \$13 million; and in FY92, \$17.5 million.

During FY92, EPA received 157 applications from 43 States, 29 Tribes, and two Territories. In FY92, EPA awarded 80 grants to 41 States, 9 Indian Tribes, and one Territory.

## **HIGHLIGHTS OF THE FY92 STATE GRANT PROGRAM**

State response to this grant program has been very enthusiastic. The grant program provided opportunities for States to be creative in thinking about ways to improve existing programs or develop new wetlands protection programs.

## **State Wetland Conservation Plans**

Development of State Wetland Conservation Plans (SWCP) is an area that continues to receive great interest from States. The intent of a SWCP is to improve the effectiveness and efficiency of government programs and private sector efforts to protect, restore, enhance, and create wetlands in a State by identifying opportunities for coordinating existing wetland programs and determining where additional authorities or programs are needed to protect and conserve the State's wetlands. The approach allows for great flexibility to accommodate the differing institutional circumstances and the levels of capability that exist among the States. Alabama, Arkansas, Illinois, Montana, Nebraska, North Dakota, Vermont, and Washington received grants development of a SWCP or components of a SWCP during FY92.

The Illinois Department of Conservation will begin preparation of a SWCP which will guide the development and implementation of Illinois' wetlands protection program. The effort will build on existing programs and will emphasize incentive and education programs. The effort will consider both regulatory and non-regulatory program recommendations. This is a cooperative effort in cooperation with the Department of Conservation, the Illinois Environmental Protection Agency, a Wetlands Advisory Committee, and the Office of the Governor.

The purpose of the Nebraska effort is to develop a SWCP through a coordinated statewide effort involving representatives from all governmental, local, and private entities involved in wetlands protection. Objectives of the effort are to achieve increased communication and understanding between governmental entities, local and private organizations and landowners concerning wetlands issues and to establish the framework for governmental, local, and private coordination and cooperation.

In the Arkansas effort five State agencies are forming a steering committee to jointly plan and implement the project. The project elements are inventory and assessment; evaluation of protection mechanisms; strategy development; and policy development.

The Confederated Salish and Kootenai Tribes of the Flathead Indian Reservation will develop a wetland conservation strategy for the Reservation including conservation goals and objectives; assessment of wetland resources; evaluation of existing wetland protection and restoration mechanisms; strategies for improving the protection, restoration and development of wetlands; recommended procedures for documenting progress; and recommendations for implementing the conservation strategy.

### **Wetland Water Quality Standards/401 Water Quality Certification**

Many States continue to use funding from the State grant program to assist in development of wetland water quality standards and improvement of 401 water quality certification programs. These include California, Delaware, Illinois, Massachusetts, Minnesota, Missouri, Montana, Ohio, Oklahoma, Wyoming, and the Seminole Tribe of Florida.

Delaware's water quality standards will be revised to strengthen provisions related to wetlands. While the standards recognize wetlands as "waters of the State", specificity is lacking with regard to basic elements of wetland water quality standards such as uses, criteria and anti-degradation. These elements will be incorporated into the regulations.

The Illinois project has two tasks. The first is the development of classification system(s). The second is to evaluate existing water quality standards as they apply to wetlands. Where issues are identified, the State will develop numeric (if appropriate) and narrative water quality criteria that address State needs and which will designate appropriate uses for wetlands.

Massachusetts will develop comprehensive water quality standards for wetlands to complete the integration of its wetlands and water quality programs.

Oklahoma will develop a wetland classification and delineation scheme and establish wetland beneficial use criteria. The primary product of the Oklahoma grant will be a narrative wetland protection scheme which can be inserted into the next revision of the State's water quality standards document.

### **Section 404 Assumption Assistance**

Grants were awarded to the States of Florida, Louisiana and North Dakota to assist these States in working toward or assessing assumption of the Federal Section 404 permit program.

The overall goal of the Florida effort is to merge existing State and Federal permit programs into a single unified program to effectively regulate potential impacts on all the State's wetland resources and protect them from adverse impacts. Proposed activities include developing and implementing all necessary statutes and associated rules, developing staffing and cost estimates, submitting complete Section 404 assumption documentation to EPA, and developing and distributing public education information on the new program.

Louisiana will study assumption of the Section 404 permit program by conducting a legal analysis, an economic analysis of assumption, and an analysis of benefits and impacts of State assumption.

North Dakota will develop a system to coordinate State permits for wetland activities and work to assume the Section 404 program.

### **Watershed Protection Approach**

The Michigan Grand Traverse Bay Watershed Initiative is a comprehensive resource planning effort that offers an opportunity to integrate wetlands protection measures with other aquatic resource programs on a watershed basis. The project is a watershed based wetland demonstration project that will incorporate wetlands protection directly into the initiative. It is a cooperative effort involving the Michigan Department of Natural Resources, the Northwest Michigan Council of Governments, local land conservancies, and the EPA.

The objective of the Delaware Nanticoke River Watershed Project is to develop a land protection strategy for the riparian wetlands which prioritizes areas requiring permanent protection (acquisition) within the Delaware portion of the watershed. Such a strategy would allow land protection efforts to be done in an anticipatory mode based on a watershed management approach rather than in a reactive mode. This wetlands protection strategy would be an integral part of a multi-state effort by private conservation organizations and public agencies to insure the integrity of the Nanticoke River watershed.

### **Other Projects**

Several States are using grant funds to support a number of activities related to mitigation. In 1991, the

Colorado State Legislature passed the Resource Mitigation Banking Act which authorizes a Department of Natural Resources (DNR)-assembled team to submit draft management guidelines to a State legislative committee. The Colorado DNR will use grant funds to assist this effort by developing a set of standards and options for mitigation banking based on present regulatory requirements and scientific knowledge. Montana will audit Department of Transportation (DOT) wetland and mitigation programs. Lessons learned will be used in forming a new DOT wetland management action plan. New Jersey will assess existing mitigation projects to determine if the State needs to strengthen its regulations, revise its planting and monitoring requirements, or revise its program in other ways.

Maine will conduct a field assessment of the functions and values of wetlands within each of Maine's wetland classification categories. An evaluation of wetland loss through permitted wetland alteration will also be conducted. The State will analyze whether Maine's wetlands are adequately protected under the existing rules and classification system. The results of this study will form the basis for developing recommendations for revision of Maine's wetland regulations. The Alaska project will support development of a methodology for categorizing Alaska's wetlands and for field testing the methodology.

The primary purpose of the Missouri project is the integration of wetlands protection into traditional water programs including the nonpoint source management program, the Clean Lakes Program, and the Water Quality Standards Program. Kansas agencies received three grants (Kansas Water Office, Conservation Commission, and Department of Wildlife and Parks) for related activities/projects on riparian protection planning.

New York will conduct a focused status and trends analysis and develop a model for measuring no net loss. The project will develop a methodology to periodically assess changes in the resource and monitor success in achieving no net loss.

South Carolina is initiating water quality planning and protection on a watershed basis to maximize the use of available resources and to provide a coordinated approach to river basin water quality management. The Watershed Water Quality Management Program recognizes the interdependence of water quality and activities that occur in the associated drainage basin. These activities will be integrated by basin to develop watershed management plans and implementation strategies. A strategy for wetlands protection in each watershed will be developed to identify and investigate a basin's wetlands and evaluate existing alterations. This strategy will introduce a basin-wide wetland management approach that will integrate existing Clean Water Act programs including water classifications, 401 Water Quality Certification, and NPDES permitting with the watershed water quality management initiative.

## **Grant Trends**

There are some interesting trends to note about the FY92 State Wetlands Protection Development Grants as compared to grants in previous years. Many of the FY92 grant projects are larger, more comprehensive efforts to increase the State's ability to protect the State's wetlands resources. The projects are multiple-task efforts that represent different approaches toward increasing the State's wetlands

protection programs--development of regulatory programs, comprehensive planning, inventory and assessment of wetland resources, integrating existing State programs to better protect wetlands, outreach and education, and cooperative approaches with local governments. In many cases, these larger, more comprehensive grants involve multiple State agencies working together to better protect the State's wetland resources.

As indicated above, many projects are joint efforts involving multiple State agencies. In addition to multiple State agencies, many grant projects are joint efforts involving State agencies and local governments (county governments and regional planning commissions) and private sector organizations including The Nature Conservancy, local Audubon chapters, and universities.

## **HEADQUARTER'S SET ASIDE**

As in previous years of the grant program, EPA's Wetlands Division retained 15% of the grant funds in a Headquarter's set aside. These funds are intended to support and supplement Regionally identified State projects with special emphasis on three priority categories that are also significant from a National perspective--State Wetland Conservation Plans and Strategies (SWCP), 404 State assumption support, and Watershed Protection Approach (WPA) demonstration projects. These three project areas are important because they require a comprehensive integrated approach to wetland management from a geographic, programmatic, and inter-governmental perspective. These projects provide States with the opportunity to provide national direction and leadership.

The criteria that Headquarters used to evaluate the projects submitted by the Regions were Regional support for the project, project design/implementation, degree of protection, and likelihood of success. The States that were selected for funding out of the Headquarter's set aside were Alaska (SWCP), Delaware Nanticoke River (WPA), Florida (assumption), Louisiana (assumption), Michigan Grand Traverse Bay (WPA), Montana (SWCP), North Dakota (SWCP and assumption), Oregon Willamette River Watershed (WPA), Vermont (SWCP), and Washington (SWCP).

Write-ups on each of these grants appear in this catalog.

## **ALABAMA**

**TITLE:** Wetlands Conservation and Management Initiative

**AGENCY:** Department of Environmental Management

Mining and Nonpoint Source Section

1751 Congressman W. L. Dickinson Drive

Montgomery, AL 36130

**CONTACT:** Timothy Forester

(205) 271-7839

FUNDING: Total project \$317,123

EPA funding 237,123

Other 80,000 Alabama Geological Survey

Auburn University School of Forestry

Alabama Marine Environmental Sciences Consortium

Alabama Department of Environmental Management

In response to interest from many groups and agencies in developing a SWCP, the Alabama Department of Environmental Management (ADEM) will facilitate a Wetlands Conservation and Management Initiative (WCAMI). A Wetlands Technical Advisory Committee (WTAC) will be formed to help guide this and future wetland work efforts. The WTAC will be comprised of staff from ADEM, wetland research scientists from various universities, State and Federal agency personnel, and representatives from agricultural, forestry, mining, construction, development and environmental groups. Several technical advisory subcommittees will be formed including:

1. Steering Committee to -- provide for development of this initiative including recommendations for issues management that will enable the State to improve wetland conservation and management efforts.
2. Education and Outreach, Conservation, Governmental Affairs, and Economic Committee to -- involve public and private organizations in the effort; identify Federal, State, and local government programs and private sector efforts that affect wetlands in Alabama; assess issues such as mitigation banking, and financial incentives; identify and assess current regulatory activities and mechanisms.
3. Mapping and Delineation Committee to -- assess issues such as categorization, delineation; identify Alabama's wetlands resources based on available or easily obtainable information; summarize available information on wetland location, types, abundance, and condition; summarize available information on status and trends including gains and losses in areal extent, and gains and identify losses of wetland types; causes of losses and extent to which wetlands are now protected and the effects of losses.
4. Functional Assessment Committee to -- review methods for assessing wetland functions and values and their suitability in Alabama; assess current efforts nationwide aesthetic narrative criteria, biological narrative criteria, and water quality standards; assess critical wetland areas; summarize available information on both wetland functions and upland areas upon which wetlands are functionally dependent.

## ALASKA

TITLE: Wetlands Regulation/Classification

AGENCY: Department of Environmental Conservation

410 Willoughby Avenue, Suite 105

Juneau, AK 99801-1795

CONTACT: Ira Winograd

(907) 465-5321

FUNDING: Total project \$506,000  
EPA funding 256,000  
State match 250,000

This will be a cooperative agreement to develop a statewide wetland management/conservation strategy. The tasks to be accomplished under the total project are:

1. Work study plan development.
2. Statewide wetlands management/conservation strategy.
3. Hydro-geomorphic and habitat evaluation methodology development.
4. Pre-test methodology.
5. Draft wetlands management regulations.

## **ARIZONA**

TITLE: Protection of Wetland/Riparian Areas through Development of Technical and Policy-related Information Pertaining to Design and Implementation of Artificial Wetlands

AGENCY: Department of Environmental Quality  
Office of Water Quality 3033 North Central Avenue  
Phoenix, AZ 85012

CONTACT: Kris Randall  
(602) 207-4510

FUNDING: Total project \$137,825  
EPA funding 104,500  
State match 33,325

The Arizona Department of Environmental Quality (ADEQ) will protect wetland/riparian areas through development of technical and policy-related information pertaining to the design and implementation of artificial wetlands. The results will assist ADEQ in assessing the use of artificial wetlands and riparian areas for water quality improvement of effluent discharges, urban runoff and/or agriculture wastewater. Assessing the efficiency and limitations of artificial wetlands as biological systems which filter and sequester toxins, nutrients, and sediment is an essential component for the development and implementation of an effective wetland/riparian protection program.

## **ARKANSAS**

TITLE: Arkansas Wetlands Strategy

AGENCY: Department of Finance and Administration  
Suite 600  
1515 W. 7th Street  
PO Box 2485  
Little Rock, AR 72203  
CONTACT: Shelby McCook  
(501) 324-9057  
FUNDING: Total project \$135,000  
EPA funding 100,000  
State match 35,000

The four participating agencies, Arkansas Natural Heritage Commission, Arkansas Game and Fish Commission, Arkansas Department of Pollution Control and Ecology, and the Arkansas Soil and Water Conservation Commission, will form a steering committee to jointly plan and implement the project. The Department of Finance and Administration will handle the funding aspects of the effort. The project will be conducted in the Cache River/Bayou DeView watershed. The project elements are:

1. Inventory and assessment--This element involves three main categories of information: physical/biological resources, landowner and local community concerns and needs, and existing and potential mechanisms for meeting wetland and landowner needs.
2. Evaluation of protection mechanisms--Based on inventory and assessment, the effectiveness of the various mechanisms listed above will be evaluated in terms of criteria including wetland conservation, economic and political feasibility, and landowner acceptance. Mechanisms to be evaluated include at least mitigation banking, acquisition of fee or partial interests, Conservation Reserve Program, and Wetland Reserve Program.
3. Strategy development--During the inventory and evaluation stage, a set of mechanisms will be developed that show great promise in meeting the social/biological needs in the watershed.
4. Policy development--Previous elements identify wetland resources and needs, and identify and evaluate mechanisms to meet those needs. However, at present there is no general set of wetland policies to guide Arkansas' state agencies in addressing wetland issues. As potential policies are identified in this project that should be in place to guide the management strategy developed, those policies will be submitted for appropriate review.

## CALIFORNIA

TITLE: Assessment of Wetland Inventories in California and Potential Watershed Planning  
Demonstration Projects  
AGENCY: California Resources Agency  
The Resources Building  
Sacramento, CA 95814

CONTACT: Will Shafroth  
(916) 653-5672  
FUNDING: Total project \$100,000  
EPA funding 75,000  
State match 25,000

The Resources Agency will undertake a survey and assessment of existing efforts to inventory wetlands in California. This inventory and assessment will be used in the development of the California Wetlands Conservation Plan currently underway. In addition, the Resources Agency will conduct an assessment of the potential demonstration projects for watershed planning in five regions of the State. The assessment will focus on different wetland types that involve multiple governmental jurisdictions and diverse private interests.

## CALIFORNIA

TITLE: Multi-objective River Corridor Management Plan for the San Luis and Otay Rivers  
AGENCY: California State Coastal Conservancy  
1330 Broadway, Suite 1100  
Oakland, CA 94612  
CONTACT: Lisa Ames  
(510) 464-1015  
FUNDING: Total project \$148,771  
EPA funding 110,000  
State match 0  
Other 38,571 San Diego County

The Coastal Conservancy will work cooperatively with the County of San Diego to develop multi-objective river corridor management plans for the San Luis Rey River and the Otay River. An overall environmental analysis of the focused planning area for the Otay River will be done and will provide information needed to select one of four possible orientations for the development of a park as a major open space corridor. In addition, the county will work with the State of California and The Coastal Conservancy to develop the multi-objective river corridor management plan for the Otay River Valley focused planning area. This will be for a pioneering effort to use a geographical, biodiversity-oriented perspective for wetlands preservation in San Diego County in combination with regional park planning. The project will also incorporate existing information on the San Luis Rey River natural and cultural resources into a comprehensive plan for management of the San Luis Rey River watershed.

## CALIFORNIA

**TITLE:** Water Quality Protection and Enhancement Strategy for California  
**AGENCY:** State Water Control Resources Board  
Division of Water Quality  
901 P Street  
Sacramento, CA 96814  
**CONTACT:** Tim Stevens  
(916) 657-1022  
**FUNDING:** Total project \$489,620  
EPA funding 367,215  
State match 122,405

The State Board will begin new activities, strengthen existing planning and regulatory activities, and initiate regional pilot wetlands protection and enhancement projects tied to a statewide wetlands quality protection strategy. This includes revision of the statewide water quality control plans to include elements of 401 certification developed under a FY91 State wetland grant and funding for one Regional Board to amend its basin plan with statewide planning language and regional information gathered for area wetlands. The State Board will also develop administrative procedures which will apply statewide for coordinating wetlands protection steps with the Section 404 program. The State Board will provide training to State staff in wetlands regulatory administration. The State Board will provide funding for three Regional Boards to develop regional wetlands watershed pilot programs.

## **COLORADO**

**TITLE:** Wetlands Information and Education; Riparian/Wetlands Classification; Mitigation Banking; Wetlands Resource Group  
**AGENCY:** Department of Natural Resources  
1313 Sherman, Room 718  
Denver, CO 80203  
**CONTACT:** Peter Evans  
(303) 866-3311  
**FUNDING:** Total project \$190,000  
EPA funding 110,000  
State match 35,000  
Other 45,000 The Nature Conservancy

Colorado has identified the following five areas of focus for addressing wetlands issues in 1993.

1. &

2. Educational workshops and educational materials on Colorado wetlands--The information and education programs are designed to reduce misinformation, increase awareness of scientific wetland information, and build public understanding and consensus for future directions the State could take in conserving its wetland resources.
3. Wetland mitigation banking--In 1991 the State Legislature passed the Resource Mitigation Banking Act which authorizes a Department of Natural Resources (DNR) assembled Resource Mitigation Banking Team to submit draft management guidelines to State legislative committees. The first step in developing these guidelines is to develop a technical foundation upon which to base them. DNR proposes to develop this technical foundation by compiling a set of standards and options for Resource Mitigation Banking. The criteria and options will be based on the present regulatory requirements and scientific knowledge concerning wetland values and techniques for enhancement, restoration and creation of wetlands. The goal of this program is to determine how to initiate a mitigation banking program that is scientifically valid and consistent with both the existing regulatory requirements and the needs of land and water resource users and managers.
4. Riparian classification--This component of the proposal is part of a multi-year project using a watershed approach initiated by The Nature Conservancy to develop, through cooperation among State and local agencies and private organizations, classification of riparian wetlands in Colorado. A coordinated classification effort would prevent the proliferation of fragmented studies of riparian wetlands and be a critical building block for the conservation of riparian wetlands in Colorado. The final report, composed of the hierarchical classification with vegetative and environmental descriptions of community types, will be useful at both the local and statewide levels as a planning and management tool. The information will assist agencies and private citizens in effectively managing and protecting valuable riparian wetland resources. This data will be entered into the Colorado Heritage Program's statewide database.
5. Wetlands Resource Group--A Wetlands Resource Group will be set up to increase understanding of wetland issues in Colorado as well as to increase cooperation among the many individuals and groups who have an interest in wetlands. This group will be made up of representatives from the various regulatory and land management agencies, the scientific community, agricultural and environmental interests and water users. This group will play a major role in public outreach and education on the values and benefits of riparian wetlands.

## CONNECTICUT

TITLE: Coastal Wetlands of Special Concern  
AGENCY: Department of Environmental Protection  
Office of Long Island Sound Programs  
165 Capitol Avenue  
Hartford, CT 06106  
CONTACT: Ron Rosza  
(203) 566-7404

FUNDING: Total project \$66,667

EPA funding 50,000

State match 16,667

The primary objectives of this project are to provide additional protection and pollution reduction in coastal wetlands of special concern in Connecticut. The two tasks to be accomplished under this grant are:

1. The identification of coastal wetlands of special concern.
2. The identification of short and long term strategies that will foster additional protection for pollution reduction within the identified sites. Strategies could include designation of wetlands as Outstanding Resource Waters (ORW), implementation of buffers, nonpoint sources controls and local permitting.

## CONNECTICUT

TITLE: Support for Development and Improvement of Connecticut's Wetlands Protection Program

AGENCY: Department of Environmental Protection

Inland Water Resources Division

State Office Building

165 Capitol Avenue

Hartford, CT 06106

CONTACT: Doug Cooper

(203) 566-7280

FUNDING: Total project \$159,764

EPA funding 103,519

State match 56,245

This grant has several separate tasks.

1. The first phase of Connecticut's development of a SWCP consists of completing the State's inventory of wetlands based on updating hydric soils maps (wetlands are defined by soil type under the State's Wetland and Watercourse Act).
2. The Department of Environmental Protection (DEP) proposes to develop a brochure dealing with agriculture and wetlands values, wetland identification, and regulatory requirements. The brochure will emphasize avoidance of impacts, responsibility of farmers to cooperate with municipal agencies, and implementation of best management practices to protect wetlands.
3. A training video (third in a series) discussing wetland functions and values will be produced. The video will be used in DEP's continuing education and training workshop series for local commissioners and others.

# DELAWARE

TITLE: Water Quality Standards for Wetlands  
AGENCY: Department of Natural Resources and Environmental Control  
Division of Water Resources  
89 Kings Highway  
PO Box 1401  
Dover, DE 19901  
CONTACT: Robert Zimmerman  
(302) 739-5726  
FUNDING: Total project \$100,000  
EPA funding 80,000  
State match 20,000

The State water quality standards will be revised to strengthen provisions related to wetlands. While the standards recognize wetlands as "waters of the State" specificity is lacking with regard to basic elements of standards such as uses, criteria and anti-degradation. These elements would be identified and language specific to wetlands will be incorporated into the regulations. Current language that exempts low flow streams from standards will be re-evaluated since these low flow streams often include extensive wetlands.

# DELAWARE

TITLE: Development of Management Measures for Government Activities in Non-tidal Wetlands  
AGENCY: Department of Natural Resources and Environmental Control  
Division of Water Resources  
89 Kings Highway  
PO Box 1401  
Dover, DE 19901  
CONTACT: Robert Zimmerman  
(302) 739-5726  
FUNDING: Total project \$81,570  
EPA funding 65,000  
State match 16,570

Pursuant to Delaware's Executive Order #56, all State agencies "shall minimize adverse effects to freshwater wetlands and conserve and enhance the environmental values and functions of freshwater

wetlands in carrying out the agency's responsibilities." To date, Delaware has not developed mechanisms to achieve this mandate other than limited coordination between wetland resource agencies and State agencies otherwise affecting wetlands. Specific Best Management Practices (BMPs) for activities in wetlands performed by State and other government agencies would be developed under this project. These could include BMPs for mosquito control habitat management; fish and wildlife habitat management techniques; DOT projects including minor road widening, crossing and maintenance; public drainage projects; outdoor recreation support structures such as walkways and trails; and stormwater management projects. Other BMPs for non-government activities could also be considered, including agricultural practices and access ways.

## **DELAWARE**

TITLE: Methodology for Tracking Losses of Wetlands

AGENCY: Department of Natural Resources and Environmental Control

Division of Water Resources

89 Kings Highway, PO Box 1401

Dover, DE 19901

CONTACT: Robert Zimmerman

(302) 739-5726

FUNDING: Total project \$20,000

EPA funding 15,000

State match 5,000

Functional assessment techniques specific to Delaware will be identified/modified to assess impacts to natural wetlands and to address functional replacement of wetlands through mitigation. A review of currently available and developing assessment techniques will be conducted. Coordination with Federal agencies, academic sources, and private contractors will be undertaken to evaluate existing and experimental methodologies and to explore the possibility of tailoring an existing method to Delaware's wetlands. In order to test the suitability of various functional assessment techniques to different wetland types, wetlands will be categorized by function and value. The application of the various assessment techniques will then be applied to these categories and an analysis of their relative suitability by wetland category performed. This study would provide the basis for resource management decisions in tidal and non-tidal regulatory wetlands programs.

## **DELAWARE**

TITLE: Development of Protection and Management Strategies for Riparian Wetlands in the Nanticoke

River Watersheds  
AGENCY: Department of Natural Resources and Environmental Control  
Division of Water Resources  
89 Kings Highway  
PO Box 1401  
Dover, DE 19901  
CONTACT: Robert Zimmerman  
(302) 739-5726  
FUNDING: Total project \$137,864  
EPA funding 110,000  
State match 17,864  
Other 10,000 The Nature Conservancy

The primary objective of this project is to develop a land protection strategy for the riparian wetlands which prioritizes areas requiring permanent protection (acquisition) within the Delaware portion of the Nanticoke River watershed. Such a strategy would allow land protection efforts to be performed in an anticipatory mode based on a watershed management approach rather than on a reactive basis. This wetland protection strategy would be an integral component of a multi-state effort by private conservation organizations and public agencies to insure the integrity of the Nanticoke River watershed. The Department of Natural Resources and Environmental Control would, through an internal partnership between the Division of Water Resources's Surface Water Management Section and the Division of Parks and Recreation, Natural Heritage Program, develop technical guidance. The guidance would enable The Nature Conservancy and other land protection organizations to prioritize and focus land protection efforts on wetlands in the greatest need of protection and those which are most important in maintaining the watershed's water plant and wildlife resources.

## **FLORIDA**

TITLE: Conservation of Ecological Integrity of Wetland Resources in South Florida  
AGENCY: Department of Environmental Regulation  
Division of Water Management  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400  
CONTACT: James Stoutamire  
(904) 488-0130  
David Block (SFWMD)  
(407) 687-6721  
FUNDING: Total project \$287,199  
EPA funding 183,750  
State match 0

Other 103,449 South Florida Water Management District

The major goal of the project is to catalyze the development of a comprehensive wetland conservation plan. The objectives of the project are:

1. To develop a consensus among diverse interests on the priorities, goals, and objectives of a wetland conservation plan.
2. To develop conservation goals.
3. To inventory/evaluate regional wetland ecological resources.
4. To develop an ecological conservation plan.
5. To develop a monitoring program.

An innovative approach will be used to integrate consensus building with geographic information system analysis of ecological resources. These will be used to build a comprehensive plan for the conservation of the ecological integrity of regional wetland resources.

## **FLORIDA**

TITLE: Section 404 Assumption Project

AGENCY: Department of Environmental Regulation

Division of Water Management

2600 Blair Stone Road

Tallahassee, FL 32399-2400

CONTACT: James Stoutamire

(904) 488-0130

FUNDING: Total project \$330,196

EPA funding 259,500

State share 70,696

The overall goal of the State is to effectively merge the Department of Environmental Regulation (DER), the Water Management Districts, and Section 404 regulatory programs to provide a single unified dredge and fill permit program to effectively regulate potential impacts on all the State's wetlands resources and protect them from adverse impacts. The project purpose is to design this program and to assist in implementing it through the appropriate State and Federal processes. Proposed activities include developing and implementing all necessary statutes and associated rules; developing staffing and cost estimates; identifying funding sources and implementing them through the legislative process; submitting complete 404 assumption documentation to EPA; and developing and distributing information on the new program.

# GEORGIA

TITLE: Wetlands Planning for the State of Georgia

AGENCY: Department of Natural Resources

Game and Fish Division

205 Butler Street SE, Room 1252

Floyd Towers East

Atlanta, GA 30334

CONTACT: John Bozeman

(404) 557-2026

FUNDING: Total project \$167,729

EPA funding 104,229

State match 63,500

The project is to refine and expand the digital statewide wetlands database and to implement the outreach efforts called for by the Wetlands Conservation Study Committee created by the Georgia General Assembly. The project is a cooperative effort involving the Water Quality Management Program at the Department of Natural Resources (DNR) Environmental Protection Division and the Department of Community Affairs (DCA). A wetlands protection approach that makes use of the database for selected watersheds can serve as a model for use in a statewide approach involving all watersheds located partially or wholly in the State. A series of workshops based on the watershed approach will be organized by the DCA to share information and methodology with database users at the Regional Development Centers and local planning departments. The workshops will be designed to: improve awareness of the importance of protecting wetlands, illustrate how to identify/locate these resources locally, outline responsibilities for protection of these resources under the Comprehensive Planning Act, and describe options for implementing local protection measures.

# IDAHO

TITLE: Coordination of State and Federal Wetlands Permit Programs

AGENCY: Department of Health and Welfare

Division of Environmental Quality

450 West State Street

Boise, ID 83720

CONTACT: Walt Poole

(208) 334-5860

FUNDING: Total project \$131,203

EPA funding 87,907  
State match 43,296

The Department will hire a person to participate in Corps/404 coordination activities and to act as liaison between the Corps and the Division of Environmental Quality (DEQ) Regional Offices. The individual will periodically conduct audits of NWP/401 and individual permit conditions implementation as well as compile and distribute information to the Regional Offices regarding the 404/401 review process. When discrepancies are discovered, the coordinator will work with the Corps, EPA, and the Regional Offices to remedy the situation and to develop alternatives to prevent future problems.

## **ILLINOIS**

TITLE: State Wetland Conservation Plan  
AGENCY: Illinois Department of Conservation  
Division of Planning  
524 S. Second Street  
Springfield, IL 62701-1787  
CONTACT: Marvin Hubbell  
(217) 782-3715  
FUNDING: Total project \$135,979  
EPA funding 100,000  
State match 35,979

The Department of Conservation (DOC) will begin preparation of a State Wetland Conservation Strategy which will guide the development and implementation of Illinois' wetlands protection program. The strategy will build upon existing programs and will emphasize incentive and education programs. The strategy will consider both regulatory and non-regulatory program recommendations. This will be a coordinated effort involving DOC, the Illinois Environmental Protection Agency, the Wetland Advisory Committee, the Interagency Wetlands Committee, and the Office of the Governor. The strategy will focus on improving the implementation of existing programs and authorities. Recommendations for new legislation and initiatives will be included based upon identified needs and gaps in existing programs.

This grant will support Phase I of the SWCP-effort. Phase I is development of the SWCP goals and objectives. In addition, Phase I will include development of a detailed work plan and evaluation of existing State wetlands programs (i.e., identifying existing regulatory and non-regulatory programs, evaluating the effectiveness of existing programs, and determining the need for additional wetlands protection mechanisms).

## **ILLINOIS**

**TITLE:** Develop Wetland Water Quality Standards  
**AGENCY:** Illinois Environmental Protection Agency  
Water Pollution Control  
2200 Churchill Road  
PO Box 19276  
Springfield, IL 62794-9276  
**CONTACT:** Bruce Yurdin  
(217) 782-1696  
**FUNDING:** Total project \$133,333  
EPA funding 100,000  
State match 33,333

In order to develop wetland water quality standards for the State of Illinois, this project has two tasks.

1. Development of classification system(s) including the means for identification of high priority wetlands to be used in conjunction with water quality standards.
2. Evaluate existing water quality standards as they apply to wetlands. Where issues are identified, develop numeric (if appropriate) and narrative water quality criteria that address State needs and designate appropriate uses for wetlands.

## **KANSAS**

**TITLE:** Riparian Area Plan Implementation  
**AGENCY:** Conservation Commission  
109 SW 9th Street, Suite 500  
Topeka, KS 66612-1299  
**CONTACT:** Tracy Streeter  
(913) 296-3600  
**FUNDING:** Total project \$55,586  
EPA funding 41,355  
State match 14,231

A recent Kansas law requires the Commission to develop a program for riparian and wetland protection to be implemented locally by conservation districts. The Commission will hire a Wetland and Riparian Areas Project Coordinator to lead conservation districts in developing plans and implementing projects to protect and restore wetlands and riparian areas in Kansas. This coordinator will:

1. Establish communication and working relationships between local landowners, the conservation districts, and State agencies.
2. Develop a strategic plan for identified priority counties.
3. Provide education materials on wetlands and riparian areas.
4. Work closely with environmental and agricultural groups to discover common ground in order to implement the program.

## **KANSAS**

TITLE: Wetland and Riparian Areas Project  
AGENCY: Department of Wildlife and Parks  
Environmental Services Section  
Box 54A, RR 2  
Pratt, KS 67124  
CONTACT: Eric Schenck  
(316) 672-5911 Ext. 216  
FUNDING: Total project \$128,301  
EPA funding 77,350  
State match 50,951

Kansas' previous grant (WRAP-I--Wetlands and Riparian Areas Project) was awarded to coordinate State wetland and riparian areas programs, aid land managers, and promote public awareness of wetland values and functions.

WRAP-II, supported by this grant, will create model demonstration projects incorporating the deliverables from WRAP-I. An additional objective is to broaden WRAP to include comprehensive stream corridor management. The Kansas Water Plan and County Wetland and Riparian Planning Process will be used as the vehicles to develop model wetland plans at the State, regional, and local levels. The Kansas Water Plan is a comprehensive planning effort that coordinates and provides guidance for the management, conservation, and development of the State's water resources. County wetland and riparian plans are used to identify and conserve these valuable resources at the local level. Track One of this effort (Local Planning) will allow the Kansas Department of Wildlife and Parks (KDWP) to provide technical assistance in the development and implementation of wetland and riparian area model plans at the local level. Track Two (Statewide Planing) will maintain the interagency coordination that was established in WRAP-I.

## **KANSAS**

**TITLE:** River Basin Analysis for Targeting Multi-Objective Riparian Corridor and Wetland Planning  
**AGENCY:** Kansas Water Office  
109 SW 9th Street, Suite 300  
Topeka, KS 66612-1249  
**CONTACT:** Margaret Fast  
(913) 296-0875  
**FUNDING:** Total project \$57,865  
EPA funding 45,700  
State match 12,165

This project would enhance current planning and decision-making functions related to riparian corridors and wetlands through improved use and analysis of relevant data. Data will be assembled and analyzed for the purpose of identifying priority hydrologic units for further multi-objective planning and management efforts. Efforts will be made to coordinate this project with activities of local county conservation districts involved in riparian and wetland protection planning through the State Conservation Commission Riparian and Wetland Protection Program and the Department of Wildlife and Parks Conservation Easement Program.

Objectives of the project are:

1. Identify priority riparian corridors and associated wetlands for multi-objective planning in the Neosho River Basin to guide current State and local planning and management initiatives.
2. Demonstrate the utility and feasibility of an integrated information system to support river basin targeting and analysis for multi-objective riparian corridor and wetlands planning and implementation.
3. Document the development and utilization of this type of approach to riparian and wetlands planning to facilitate its potential use in other river basins in Kansas and other States.
4. Enhance and expand on current efforts underway in Kansas related to wetland and riparian area planning, including activities which are part of the Wetland and Riparian Areas Project.

## **LOUISIANA**

**TITLE:** Demonstration Project for Management, Restoration and Enhancement of Wetlands in the Tensas Basin  
**AGENCY:** Department of Agriculture and Forestry  
Office of Soil and Water Conservation  
PO Box 3554

Baton Rouge, LA 70821-3554

CONTACT: Bradley Spicer

(504) 922-1269

FUNDING: Total project \$72,000

EPA funding 54,000

State match 18,000

This project involves the use of various wetland conservation practices to restore, manage and enhance wetlands. The focus will be on private landowners in the Tensas Basin in Northeast Louisiana. A comprehensive wetlands protection plan will be developed on private landowner property by an interdisciplinary multi-agency team of conservationists utilizing a combination of wetland conservation practices.

## **LOUISIANA**

TITLE: Prepare a Plan for Assumption of Section 404 of the Clean Water Act

AGENCY: Department of Natural Resources

Office of Coastal Restoration and Management

PO Box 94396

Baton Rouge, LA 70804-9396

CONTACT: Cheryl Bennett

(504) 342-4539

FUNDING: Total project \$79,625

EPA funding 58,844

State match 20,781

Louisiana will study assumption of the Section 404 permit program. The tasks that will be accomplished include:

1. Legal analysis comparing the State's existing wetlands programs to the requirements for an assumable Section 404 program.
2. Analysis of studies and/or programs other States have initiated relative to assumption.
3. Economic analysis of the cost of assumption to the State.
4. Analysis of the benefits and impacts of State assumption.

## **LOUISIANA**

**TITLE:** Wetlands and Coastal Resources In-Service Training Workshops for Extension Staff  
**AGENCY:** Louisiana Cooperative Extension Service  
Louisiana State University Agricultural Center  
Knapp Hall  
Baton Rouge, LA 70803-1900  
**CONTACT:** Paul Coreil  
(504) 388-2145  
**FUNDING:** Total project \$52,129  
EPA funding 29,500  
State match 10,474  
Other 12,155 Other EPA funding

In-service wetlands and coastal resources-related training workshops will be conducted in the seven Louisiana Cooperative Extension Service (LCES) districts located throughout the State. These training sessions will be attended by both LCES professional field staff from each district and other pertinent Federal and State agency staff responsible for wetlands education, management, and/or regulation. Attendees will be provided up-to-date information regarding wetlands conservation and management with emphasis on wetland functions and values. Current wetland and coastal resource regulatory policies and procedures will also be presented. In-service training workshops, together with the support materials developed through the grant, will contribute towards broader understanding of wetland values and existing programs and support the development of a strong State wetlands program.

## **MAINE**

**TITLE:** Evaluation of Maine's Wetland Classification Scheme  
**AGENCY:** Department of Environmental Protection  
State House Station 17  
Augusta, ME 04333  
**CONTACT:** Francis Brautigam  
(207) 289-2111  
**FUNDING:** Total project \$113,983  
EPA funding 81,600  
State match 32,363

Maine will conduct a field assessment of the functions and values of wetlands within each of Maine's wetland classification categories, including those currently unregulated. An evaluation of wetlands loss through permitted wetland alterations will also be conducted. This study will analyze whether Maine's wetlands are adequately protected under existing rules and the existing classification scheme. The results of this study will form the basis for developing recommendations for revision of Maine's wetland regulations.

# MAINE

TITLE: Wetlands Protection through Shoreland Zoning

AGENCY: Department of Environmental Protection

Bureau of Land Quality Control

State House, Station 17

Augusta, ME 04333

CONTACT: Richard Baker

(207) 289-2111

FUNDING: Total project \$95,821

EPA Funding 71,679

State match 24,142

Maine's Mandatory Shoreland Zoning Act requires all municipalities to enact zoning ordinances regulating land-use activities within 250 feet of the upland edge of freshwater and coastal wetlands. If a municipality fails to adopt a shoreland ordinance, the Department of Environmental Protection (DEP) is required to adopt a suitable ordinance for that municipality which shall then be administered by the municipality. Approximately half of Maine's communities failed to meet the established deadline. DEP must prepare base maps for each community including delineation of all shoreland areas including freshwater and coastal wetlands, great ponds, rivers, streams, and tidal waters. Once the maps are completed, DEP can initiate the formal rulemaking process by advertising its intent to adopt the prepared map along with DEP's guideline ordinance for the municipality. DEP will use grant funds to assist in preparing the required zoning maps.

# MAINE

TITLE: Develop a Model Wetland Conservation Reserve Plan to Identify and Protect Biodiversity in Southern Maine Watershed

AGENCY: Department of Inland Fisheries and Wildlife

Wildlife Division

284 State Street

State House Station 41

Augusta, ME 04333

CONTACT: Mark McCollough

(207) 289-6800

FUNDING: Total project \$63,972

EPA funding 45,000  
State match 18,972

The State will conduct a landscape analysis and field study of rare and endangered species and natural communities in York County. The data will be used to design wetland conservation reserves to protect watersheds and wetland complexes essential to maintain biodiversity.

## MARYLAND

TITLE: Development of Planning and Evaluation Tools for Local Implementation of Nontidal Wetlands Watershed Management Plans

AGENCY: Department of Natural Resources

Water Resources Administration

Nontidal Wetlands Division

Tawes State Office Building

Annapolis, MD 21401

CONTACT: Marguerite Whilden

(410) 974-3841

FUNDING: Total project \$181,314

EPA funding 135,986

State match 45,329

This project will develop planning and evaluation tools for local implementation of nontidal wetlands watershed management plans (Plan Implementation Process). This includes assessment of wetland functions and interdependent relationships throughout the watershed; protection of the resource and its function; a procedure for identifying and limiting cumulative impacts; a method for identifying and screening mitigation sites; and a process for balancing development and environmental protection. A comprehensive approach which can anticipate the full range of watershed issues and possible obstacles and impediments to implementation is necessary for the successful development of watershed management plans by State and local governments. The process must be capable of factoring unique local issues and conditions into the State's minimum mandated issues of wetlands mitigation, limiting cumulative impacts, water supply management, and flood management. Expected products include:

1. Identification of the full range of issues and obstacles which may surface in the process of developing a watershed plan including: the limitations of functional assessment techniques, addressing mitigation, defining alternative development strategies, implementing planning and land use documents, providing permit coordination, conducting wetlands mapping and delineation, and conducting mitigation site selection.
2. Evaluation of recent examples of local implementation of watershed management plans.
3. A Watershed Plan Implementation Process which can be practically utilized by State and local governments.

4. Application of the process in at least two watersheds.
5. Field testing the process, training sessions, and development of improved techniques for assisting local government officials and State resource protection officials.

## MASSACHUSETTS

TITLE: Support for Development and Improvement of Massachusetts' Wetlands Protection Program

AGENCY: Department of Environmental Protection

Bureau of Resource Protection

One Winter Street

Boston, MA 02108

CONTACT: Gary Gonyea

(617) 556-1152

FUNDING: Total project \$114,573

EPA funding 85,930

State match 28,643

This project by the Massachusetts Department of Environmental Protection (DEP) will provide increased protection for wetlands within the State. It includes two separate tasks.

1. Wetland Criteria for Water Quality Standards--DEP will develop comprehensive water quality standards for wetlands, thus completing the integration of its wetlands and water quality program.
2. Cumulative Assessment and Municipal Legal Assistance--DEP will assess the level of non-compliance with the Wetlands Protection Act. Information will be used to pinpoint causes of cumulative wetlands loss and to help identify and prioritize future enforcement actions.

## MASSACHUSETTS

TITLE: Watershed Protection Development Project in Assabet River Watershed

AGENCY: Department of Fisheries, Wildlife, and Environmental Law Enforcement

Riverways Program

100 Cambridge Street, Room 1901

Boston, MA 02202

CONTACT: Marie Van Dusen

(617) 727-1614 Ext. 360

FUNDING: Total project \$13,234

EPA funding 9,925

State match 3,309

Funding will be used to develop data, maps and procedures for mapping the riparian setbacks mandated in the Massachusetts River Protection Act (MRPA). This information will be useful in demonstrating how the MRPA will provide greater protection of wetlands and related riparian resources. It will also be useful to towns that are already working on or plan to develop town bylaws or local overlay districts to protect these riparian wetlands and river corridors. The project, which will use several towns in the Assabet River basin as a model for the rest of the state, has strong implications for other States which may also choose shoreland zoning as a cost effective way to: protect rivers, riparian wetlands and aquatic habitat; reduce nonpoint source pollution; protect waterways and water supplies; and initiate green corridors throughout watersheds.

## **MASSACHUSETTS**

**TITLE:** Mapping and Protection of Wetlands Used by State-listed Rare Waterfowl and Turtles

**AGENCY:** Division of Fisheries and Wildlife

One Rabbit Hill Road

Westboro, MA 01581

**CONTACT:** Dr. Scott Melvin

(508) 792-7270

**FUNDING:** Total project \$35,570

EPA funding 25,940

State match 9,630

The Massachusetts Division of Fisheries and Wildlife (MDFW) will identify and map wetlands used by State-listed waterbirds and turtles. Wetlands identified and mapped through this project become eligible for strong protection afforded by rare wildlife habitat provisions of the Massachusetts Wetlands Protection Act. Regulations pursuant to this Act prohibit activities that would have adverse effects on wetlands that provide habitats for species of vertebrate or invertebrate wildlife classified as endangered, threatened, or species of special concern by the MDFW. To be eligible for legal protection, these wetlands must be identified and mapped by MDFW and entered into the Natural Heritage database.

## **MICHIGAN**

**TITLE:** Grand Traverse Bay Watershed Initiative

**AGENCY:** Department of Natural Resources

Land and Water Management Division

PO Box 30028  
Lansing, MI 48909  
CONTACT: Peg Bostwick  
(517) 335-2694  
FUNDING: Total project \$209,108  
EPA funding 156,831  
State match 32,277  
Other 20,000 Northwest Michigan Council of Governments  
Local land conservancies

The comprehensive resource planning initiated in Grand Traverse Bay region offers a unique opportunity to integrate wetlands protection measures with other aquatic resource programs on a watershed basis. The project is a watershed-based wetland demonstration project that will incorporate wetland protection directly into the Grand Traverse Bay Initiative. This project is a cooperative effort involving the Michigan Department of Natural Resources, The Northwest Michigan Council of Governments (NWMCOG), local land conservancies, and EPA. The project includes the following elements:

1. Technical Assistance, Coordination, Outreach and Technology Transfer--The primary needs addressed will include inventory of critical wetland resources which should be afforded additional protection, development of regional policy on use of wetlands for stormwater treatment, assistance in developing a database to support assessment and modeling of the impact of wetland degradation in the Bay watershed, enhancement of public education programs, and evaluation of the need and potential for wetland restoration in the region.
2. Regional watershed planning--NWMCOG and a partnership of public and private organizations will develop and implement a management plan to insure that the water quality of the Bay is protected. The primary work elements under this task are: to identify and evaluate areas to be targeted for acquisition or other means of preservation; to work with county, township and/or municipal authorities in developing zoning or other land use controls to institute wetland protection measures; and to provide a regional focus for wetland evaluation and protection in ongoing nonpoint source planning and coastal zone program initiatives.
3. Exploring the Development of Wetland Biological Assessment Procedures--This portion of the proposal supports key objectives for the Bay watershed outlined by NWMCOG and will also advance the development of wetland water quality standards on a statewide basis. The development of biological assessment procedures will improve the State's ability to assess both point and nonpoint source impacts to wetlands.

Summary of Products -- As a result of these initiatives, the following products will be developed:

1. A summary document incorporating wetland protection measures into the Grand Traverse Bay Long Term Management Plan.
2. Documentation of the database developed for the watershed defining the type of stream utilized, types of information cataloged to date, and recommendations for additional data acquisition.
3. A comprehensive report outlining the requirements for developing a wetland assessment methodology

within the watershed.

4. Recommendations for additional wetland protection measures needed.

## **MINNESOTA**

**TITLE:** Develop Comprehensive Wetlands Protection Program

**AGENCY:** Board of Water and Soil Resources

Suite 104

155 South Wasasha Street

St. Paul, MN 55107

**CONTACT:** Gregory Larson

(612) 296-0882

Chuck Niska

(612) 297-7361

**FUNDING:** Total project \$50,894

EPA funding 23,800

State match 17,000

Other 10,094 Other EPA funding

Minnesota will use Federal financial assistance to develop a comprehensive wetlands conservation program. Activities will include identifying wetland values, establishing responsibilities for local units of government, gathering information regarding local wetland protection activities, establishing new wetland protection and restoration programs, modifying existing wetland protection programs and conducting demonstration projects. This will be joint effort by the Board of Water and Soil Resources, Department of Natural Resources, and Pollution Control Agency. This project also funds training of State and local staff in wetlands delineation, a component of the developing State comprehensive wetlands conservation plan.

## **MINNESOTA**

**TITLE:** Integrated Wetlands Information System for Use by all Levels of Government

**AGENCY:** Department of Natural Resources

500 LaFayette Road

St. Paul, MN 55155-4032

**CONTACT:** Peter McLeete

(612) 296-0512

FUNDING: Total project \$125,497

EPA funding 91,123

State match 34,374

The Minnesota Department of Natural Resources (MDNR) will create a statewide automated system that will provide timely and comprehensive information on all wetlands efforts within the State. The project will integrate existing wetlands information into ongoing water and natural resource programs. This integrated multimedia information system will provide the following benefits: increased efficiency of resource management, implementation of integrated resource management, better coordination of existing programs at all levels of government, and program evaluation and analysis on a statewide basis. The project will include design and initial implementation of a statewide automated information system which will catalogue, update/report, and evaluate of all programs and projects conducted by the Federal, State, local governments and private/non-profit sectors that directly or indirectly involve wetlands.

## MINNESOTA

TITLE: Wetland Water Quality Standards

AGENCY: Pollution Control Agency

Water Quality Division

520 Lafayette Road

St. Paul, MN 55155

CONTACT: Joel Marquardt

(612) 296-7230

FUNDING: Total project \$300,000

EPA funding 225,000

State match 75,000

Minnesota will develop a comprehensive wetlands conservation program. This is a joint effort with the Pollution Control Agency, Department of Natural Resources, and the Board of Water and Soil Resources. The three tasks to be accomplished are:

1. Development of wetland water quality standards.
2. Incorporation of wetland water quality standards into the 401 certification program through formal rulemaking.
3. Integration of wetland water quality standards into government programs.

## MISSOURI

**TITLE:** Integration of Wetlands into Traditional Water Quality Management Programs  
**AGENCY:** Department of Natural Resources  
Division of Geology and Land Survey  
PO Box 250  
Rolla, MO 65102  
**CONTACT:** Jane Epperson  
(314) 751-2867  
**FUNDING:** Total project \$246,747  
EPA funding 169,398  
State match 61,687

The primary purpose of this grant is to integrate wetlands protection into the nonpoint source management program, the Clean Lakes Program, and the Water Quality Standards Program. An inter-agency technical team of State, Federal and local resource managers will be assembled to identify and delineate the watershed boundaries of major existing wetland complexes. Once these priority complexes are identified and delineated, they will be targeted for integration into watershed protection activities.

Specific work components include:

1. Identifying major watersheds in which the remaining natural wetlands complexes are located.
2. Using GIS, digitize the watersheds that encompass the wetland complexes and, if possible, the specific wetlands within the complexes.
3. Modifying the State's current nonpoint source management priorities to include wetlands protection in the identified watersheds.
4. Integrating wetlands protection into the Clean Lakes Program. Existing and future project applicants will be encouraged to incorporate wetlands into lake projects. Specific guidance will be established on the various methods of lake edge enhancement.
5. Identifying wetlands around Clean Lakes Projects and FY92 through FY93 Volunteer Lake Monitoring Program Projects.
6. Making recommendations to modify the State water quality standards to include development of narrative wetland criteria, narrative biological criteria, an anti-degradation policy, and the addition of new wetlands to the Outstanding State Resource Waters list.
7. Modifying the existing computer recording system to enable tracking of 401/404 permits.

## **MONTANA**

**TITLE:** State Wetland Conservation Plan  
**AGENCY:** Department of Health and Environmental Sciences  
Water Quality Bureau

Cogswell Building  
1400 Broadway  
Helena, MT 59620  
CONTACT: Jack Thomas  
(406) 444-5319  
FUNDING: Total project \$611,450  
EPA funding 433,360  
State match 178,090

This is an interagency project under the lead of the Department of Health and Environmental Sciences (Water Quality Bureau) to develop a State Wetland Conservation Plan for the State of Montana. There are several components to this project which are listed below:

1. Development and Implementation of a State Wetland Conservation Strategy--Montana currently does not have any formal mechanism to coordinate all the activities or programs that may impact wetlands. It is a goal to develop and begin implementation of a strategy over the next two years that will clearly define the role(s) of each agency in administering regulatory and non-regulatory programs, examine the effectiveness of existing programs, propose policy or legislative changes for those laws identified that need changing, identify voids that are not addressed by existing programs, propose institutional changes to fill those voids and require the coordination of wetland conservation programs on a statewide basis.
2. Water Quality/Biological Criteria and Bioassessment Protocols--This component will establish baseline water quality and biological conditions in a representative sample of unimpaired or least-impaired wetlands. The information will be used to develop chemical and biological techniques that will be used to measure impairment to wetlands that have been exposed to environmental contamination and other stressors.
3. Wetlands Education--The goal of this component is to develop an integrated wetlands curriculum for children pre-school to grade 3; provide information to private landowners on riparian/wetlands management; and to develop a Wetlands Discovery Activity and Management Guides for landowners, resource managers, interested citizens, teachers and youth. The guides will include clear and concise information and illustrations on the ecology, management, function, classification, regulation, and protection of wetlands.
4. River Corridor Management--The Conservation Districts Bureau of the Montana Department of Natural Resources (DNR) proposes to organize a grassroots level river corridor "coordinated resource management planning" (CRMP) effort that will attempt to develop solutions to critical water quality or quantity problems in selected watersheds.
5. Montana Department of Transportation (MDOT) Project--This initiative involves auditing and evaluating MDOT wetland and mitigation programs. Lessons learned will be used in forming a new MDOT wetland management action plan.
6. Montana Riparian Association--This interagency effort was formed to develop a riparian wetland dominance type classification system, a riparian-wetland vegetative-based ecological site classification, an interagency data base for riparian-wetland areas, a process for information exchange on managing riparian-wetland sites, and a training and continuing education program on identification and proper management of riparian-wetland ecosystems.

# NEBRASKA

TITLE: Nebraska Wetlands Conservation Plan  
AGENCY: Department of Environmental Control  
Water Quality Division  
PO Box 98922, Statehouse Station  
Lincoln, NE 68509-8922  
CONTACT: Steven Walker  
(402) 471-4700  
FUNDING: Total project \$225,864  
EPA funding 169,398  
State match 22,586  
Other 33,880 Natural Resource Districts  
Center for Rural Affairs  
Nebraska National Audubon Society

The purpose of this project is to develop a Nebraska Wetlands Conservation Plan through a coordinated statewide effort including representatives from all government, local and private entities involved with wetland activities. The objectives of this project are:

1. To achieve increased communication and understanding between government entities, local and private organizations and landowners concerning wetland issues.
2. To establish a Nebraska Wetlands Council and other appropriate wetlands task forces and advisory committees to jointly develop a State Wetland Conservation Plan (SWCP).
3. To establish the framework for government, local and private coordination and cooperation through development of a Nebraska Wetlands Conservation Plan and improve the efficiency and effectiveness of efforts to protect, restore, and create wetlands in Nebraska.

# NEW HAMPSHIRE

TITLE: Technical Support for New Hampshire's New State Program General Permit  
AGENCY: Department of Environmental Services  
Wetlands Bureau  
PO Box 2008  
Concord, NH 03302-2008  
CONTACT: Ken Kettenring

(603) 271-2147

FUNDING: Total project \$91,333

EPA funding 75,075

State match 26,333

The New Hampshire Department of Environmental Service (DES) State Program General Permit (SPGP) requires the Federal agencies to notify applicants of their status relative to the SPGP within 21 days of the Wetlands Board approval. DES plans to establish a computerized communication system to speed SPGP review and response by all the agencies involved. This grant will enable the State to hire a consultant who would analyze the current State and Federal computer systems and make recommendations as to what software, hardware, etc. is needed to enable all agencies access to New Hampshire SPGP computer files and supporting maps and plans. In addition, this grant will support DES's efforts to expand their LAN database to include tracking of enforcement actions, as well as other data storage needs. The system would make it possible for all the agencies to review and comment on files located in New Hampshire's LAN from terminals located in the individual offices.

## **NEW HAMPSHIRE**

TITLE: Identification and Assessment of Rare Natural Communities

AGENCY: Department of Resources and Economic Development

172 Pembroke Road

Concord, NH 03302

CONTACT: Dan Sperduto

(603) 271-3623

FUNDING: Total project \$36,476

EPA funding 27,357

State match 9,119

The State will identify and map rare wetland communities within the Merrimack River Basin. This information will enable local, State and Federal wetland regulatory programs to respond to threats in these areas and to plan for their protection before the areas are threatened by development.

## **NEW HAMPSHIRE**

TITLE: Wetlands Identification Mapping for New Hampshire Communities

AGENCY: Office of State Planning

2 ½ Beacon Street

Concord, NH 03301  
CONTACT: James McLaughlin  
(603) 271-2155  
FUNDING: Total project \$62,033  
EPA funding 43,103  
State match 10,200  
Other 8,730 Five Regional Planning Commissions

This project will implement certain recommendations in the New Hampshire Wetlands Priority Conservation Plan by providing municipalities basic wetlands delineations and other information in the New Hampshire GRANIT geographic information system. This information will be used in conducting local wetlands inventories, identifying priority wetlands, and assisting local wetlands protection efforts such as wetlands overlay zoning and prime wetlands designations.

## **NEW JERSEY**

TITLE: Wetlands Mitigation Habitat Evaluation Study  
AGENCY: Department of Environmental Protection and Energy  
Office of Regulatory Policy  
CN 029  
401 E. State Street, 3rd Floor  
Trenton, NJ 08625-0029  
CONTACT: Steven Whitney  
(609) 984-0058  
FUNDING: Total project \$248,410  
EPA funding 186,308  
State match 62,102

This grant has three separate tasks designed to improve wetland protection efforts in the State. The grant will be used to evaluate mitigation success, improve coordination among Federal, State, and local regulatory programs, and protect Great Swamp National Wildlife Refuge from impacts of upstream urbanization. The three tasks are outlined below: 1. Wetlands Mitigation Habitat Evaluation Study. Wetlands mitigation is a mechanism set up by the New Jersey Freshwater Protection Act to provide replacement for unavoidable wetlands loss as a result of the permit process. New Jersey uses a "85/85" test after three years to determine success. This includes requirements for a monitoring and maintenance program that would ensure 85% survival and 85% areal coverage of the mitigation plantings for at least three years after planting. The Department of Environmental Protection and Energy (DEPE) proposes to evaluate the ecological habitat of those projects already declared "successful" by the 85/85 test. This ecological assessment will test the DEPE success test. The final results may indicate areas where DEPE should strengthen its regulations, revise its planting and monitoring requirements, or revise its program in

other ways.

2. Permit Delegation Study and Implementation Program. The DEPE's Office of Regulatory Policy will identify wetlands protection programs on all levels of governments within New Jersey; evaluate their effectiveness with regard to wetlands protection; and assess the degree of overlap and added protection that currently exists. Any comprehensive wetlands protection study should consider the synergistic effects of all wetlands protection programs at all levels of government. The study will result in a report which identifies all wetlands protection programs in the State, evaluates commonality and effectiveness, assesses the interactive effects, and provides recommendations for a more simplified, less burdensome and perhaps more effective program for resource protection.

3. Great Swamp Watershed/Water Quality Management Planning Study. The Great Swamp National Wildlife Refuge contains approximate 7,000 acres of freshwater wetlands and upland forest and grassland. There is concern that further urbanization of the watershed upstream from the refuge will have adverse impacts on the refuge. A Great Swamp Watershed Advisory Committee has been formed to lead the effort to protect the refuge. DEPE, with the advice of the Committee, will draft applicable rule amendments to the Northeast New Jersey Water Quality Management Plan which will establish criteria for issuing or denying DEPE permits in the watersheds of Black Brook, Great Brook, Loantaka Brook and Primrose Brook. These criteria will be designed to protect the refuge, especially the wetlands and other public lands in the watershed. In addition, DEPE in coordination with the Committee, will investigate the feasibility of proposing amendments to the Surface Water Quality Standards that would provide enhanced protection for the watershed.

## NEW JERSEY

TITLE: New Jersey Pinelands Watershed-wide Wetlands Buffer Delineation Method

AGENCY: New Jersey Pinelands Commission

15 Springfield Road

PO Box 7

New Lisbon, NJ 08064

CONTACT: Dr. Robert Zampella

(609) 894-9342

FUNDING: Total project \$67,000

EPA funding 50,250

State match 16,750

The New Jersey Department of Environmental Protection and Energy (DEPE) and the Pinelands Commission regulations require that a buffer zone be established between wetlands and adjacent upland development. The objective of the existing Pinelands' method of determining buffers is to provide a reliable and replicable approach to determine appropriate buffer widths. Although this objective has generally been met, there is still a good deal of individual subjectivity involved. The purpose of this project is to develop a refined method which will enable wetlands managers to: 1. Assign buffers to

entire wetland systems within individual Pineland watersheds by using a geographic information system to evaluate the functions and values of these systems as well as potential impacts associated with existing and future development within each drainage area.

2. Adjust these buffers at specific wetland sites based on site-specific information and development proposals.

Both the watershed and site-specific approaches will be developed within the context of the Comprehensive Management Plan of the Pinelands Commission.

## **NEW MEXICO**

**TITLE:** Development of a Riparian Wetland Community Type Classification for the Pecos River Watershed

**AGENCY:** New Mexico Environmental Department

Surface Water Quality Bureau

1190 St. Francis Drive

Santa Fe, NM 87502

**CONTACT:** David Coss

(505) 827-2793

**FUNDING:** Total project \$70,667

EPA funding 53,000

State match 17,667

This project is part of a watershed approach project to develop, through cooperation of State and Federal agencies and private organizations, a classification of riparian wetlands in the State of New Mexico. The purpose of this project is to inventory and classify riparian habitat in the Pecos River Watershed including the Rio Hondo, Rio Penasco and Black Rivers. The overall goal is to produce an ecological classification that would be a valuable planning and management tool for public agencies and private groups to effectively protect and manage New Mexico's valuable riparian wetland resources.

The objectives of this proposal are to:

1. Conduct field sampling to classify riparian wetland vegetation into community types within the Pecos River watershed.
2. Describe general physiographic, edaphic and floristic features of each riparian community type identified in the classifications.
3. Describe successional trends and management opportunities for each community type to the extent possible.
4. Identify ecologically significant riparian sites for possible special management status.

# NEW YORK

TITLE: Status and Trends Analysis and Development of Model for Measuring No Net Loss

AGENCY: Department of Environmental Conservation

Division of Fish and Wildlife

50 Wolf Road

Albany, NY 12233-4757

CONTACT: Patricia Riexinger

(518) 457-9713

FUNDING: Total project \$220,000

EPA funding 165,000

State match 55,000

The New York Department of Environmental Conservation (DEC) will expand its wetlands protection efforts by conducting a status and trends analysis and developing a model for measuring no net loss. The ongoing State Wetland Conservation Plan (SWCP) effort includes identifying various programs impacting the State's wetlands resource and will address identifying needs for new programs or changes to existing programs to better protect the resource and achieve no net loss. In addition to these efforts, it is critical to determine what the current status of the resource is and what trends are occurring in losses and gains so that appropriate programs can be identified and priorities established. This project will also include development of a methodology to periodically assess changes in the resource and monitor success in achieving no net loss. This methodology will be available to other agencies or States to use in similar assessments.

# NORTH CAROLINA

TITLE: General Permit for Nationwide Permits in North Carolina

AGENCY: Department of Environment, Health, and Natural Resources

Division of Environmental Management

Water Quality Section

PO Box 29535

Raleigh, NC 27626-0535

CONTACT: John Dorney

(919) 733-5083

FUNDING: Total project \$64,908

EPA funding 48,681

State match 16,227

In an effort to streamline the permitting process, North Carolina will develop a joint Division of Environmental Management (DEM)-Corps of Engineers (COE) general permit. This permit would be similar to but separate from the Division of Coastal Management's State Program General Permit (SPGP) in the 20 coastal counties. A joint general permit will eliminate confusion and assist an applicant in designing a project that will be acceptable to both DEM and COE. A draft general permit will be developed after extensive coordination with appropriate State and Federal agencies. The draft general permit will undergo public notice and review.

## **NORTH CAROLINA**

TITLE: Mitigation Program for North Carolina  
AGENCY: Department of Environment, Health, and Natural Resources  
Division of Environmental Management  
Water Quality Section  
PO Box 29535  
Raleigh, NC 27626-0535  
CONTACT: John Dorney  
(919) 733-5083  
FUNDING: Total project \$147,805  
EPA funding 110,854  
State match 36,951

This grant will establish the framework for a program that will provide compensatory mitigation within North Carolina under State law. The program developed will provide for reviewing all mitigation plans and monitoring the success of mitigation projects. Other functions of the program will include the identification of wetland resources within each river basin, identification of suitable sites for mitigation, development of mitigation methods for each wetland type and the establishment of mitigation banks.

## **NORTH DAKOTA**

TITLE: State Wetlands Conservation Plan  
AGENCY: State Water Commission  
900 East Boulevard  
Bismarck, ND 58505  
Game and Fish Department  
100 N. Bismarck Expressway

Bismarck, ND 58501  
CONTACT: Dave Sprynczynatyk  
(701) 224-4940  
Lloyd Jones  
(701) 221-6300  
FUNDING: Total project \$606,300  
EPA funding 454,725  
State match 151,575

The North Dakota State Water Commission and Game and Fish Department will develop a State Wetland Conservation Plan (SWCP) to create a comprehensive approach to protecting wetlands in North Dakota. The SWCP will include the following major components:

1. Clearly identified goals and objectives.
2. A North Dakota Wetland Institute created to develop a planning and strategy development process, to provide opportunities for public input and consensus building, to improve coordination and communication, and determine optimum wetland protection programs.
3. Wetland education and information program.
4. A GIS computer system for wetland assessments.
5. A system to coordinate State permits for wetland activities, and assume the Section 404 jurisdiction.
6. Water quality criteria and information for wetland activities.
7. Non-regulatory wetland programs especially private landowner partnerships, incentives, and compensation opportunities as an essential ingredient of wetland protection programs.
8. Watershed protection demonstration projects.

## OHIO

TITLE: State Wetland Program Development  
AGENCY: Department of Natural Resources  
Fountain Square  
Columbus, OH 43224-1387  
CONTACT: Dave Bergman  
(614) 265-6410  
FUNDING: Total project \$133,467  
EPA funding 99,500  
State match 33,967

The Ohio Department of Natural Resources (ODNR) is composed of 12 statutorily created divisions and a number of support service offices. ODNR manages approximately one-half million acres of real estate as well as the submerged lands below ordinary high water in Lake Erie. Five different divisions and/or

offices within ODNR manage submerged land resources. In addition to established resource management divisions, each division and the Office of Real Estate and Land Management develop facilities, lease land to various entities, sell and transfer land, enter into contracts, award grants, and in Lake Erie permit private development in the near shore area. It is apparent that numerous and diverse activities of ODNR impact wetlands resources.

The focus of this project is threefold: 1. Program Evaluation. ODNR will evaluate existing mechanisms utilized, and identify the options available, to increase wetlands protection and to improve management of wetlands resources over which ODNR exercises either direct administrative authority or indirect administrative review. This activity will support the efforts of the Ohio Environmental Protection Agency (EPA) to develop a Comprehensive State Wetlands Strategy, which is being funded through a FY91 State Program Grant to the Ohio EPA.

2. Wetlands Education Program. ODNR has an existing education program for local government officials to promote local land use planning. ODNR will develop a wetlands workshop to be incorporated into this education program. The workshop will serve to educate local officials on the importance of wetlands and their functional values.

3. Database for Statewide Wetlands Inventory. A detailed digital data base will be developed to allow for the storage, retrieval and analysis of data on wetlands identified through a statewide wetlands inventory. This database will be used in the assessment and protection of Ohio's wetlands.

## OHIO

TITLE: Wetland Water Quality Standards  
AGENCY: Environmental Protection Agency  
Water Quality Planning and Assessment  
1800 WaterMark Drive  
Columbus, OH 43215  
CONTACT: Steve Scoles  
(614) 644-2339  
FUNDING: Total project \$66,666  
EPA funding 50,000  
State match 16,666

Ohio is one of the first States to incorporate numeric biologic criteria into water quality standards for streams. The five ecoregions in Ohio that provide the framework for the biologic criteria will be evaluated for incorporating designated uses and criteria for Ohio's wetlands. As part of this grant, the Ohio Environmental Protection Agency (EPA) will determine the feasibility of developing analogous methods for evaluating wetlands communities. The community indices for measuring biotic integrity in the current biocriteria will be evaluated for applicability in assessing wetland systems. The initial goal in developing designated uses is to provide an assessment of the integrity of the wetland resource. Once the

methods are finalized, a longer term goal will be ultimately to characterize impairment and to assist in the diagnosis of cause.

## OKLAHOMA

TITLE: Wetland Protection Projects  
AGENCY: Department of Pollution Control  
Pollution Control Coordinating Board  
PO Box 53504  
Oklahoma City, OK 733152  
CONTACT: Steven Thompson  
(405) 271-4468  
FUNDING: Total project \$133,500  
EPA funding 100,000  
State match 33,500

This project has four separate tasks.

1. East Roaring Creek Riparian Corridor Restoration. Through this project high stream banks will be broken down and stabilized through restoration of vegetative cover. Information on restoration gathered on this stream will be transferable to hundreds of other streams in Oklahoma. A brochure describing the benefits of riparian restoration and detailed techniques including planting densities, species selection, engineering and other restoration options will be produced.
2. Playa Lake Management Plan. This project includes developing and implementing a management plan for optimizing the use of playa lakes and establishing a major effort to educate landowners in proper lake management.
3. Wetland Standards. Wetland classification and delineation schemes and establishment of wetland beneficial use criteria will be developed. The primary product will be a narrative wetlands protection scheme which can be inserted into the next revision of the State water quality standards document.
4. Protection of Grassy Lake. This site specific project will be used to develop conservation plans directed toward wetland enhancement for lands immediately adjacent to Grassy Lake.

## OREGON

TITLE: Initiation of Oregon's Wetland Conservation Strategy by Evaluating and Developing a Watershed Demonstration Program and Associated Wetland Program Enhancements  
AGENCY: Division of State Lands

775 Summer Street  
Salem, OR 97310  
CONTACT: Ken Bierly  
(503) 378-3805  
FUNDING: Total project \$537,050  
EPA funding 360,000  
State match 177,050

This is a joint proposal from the Oregon Division of State Lands, Oregon Department of Environmental Quality, Oregon Department of Land Conservation and Development, and the Oregon Department of Fish and Wildlife to design and implement a watershed based evaluation and demonstration program for the wetlands of the Willamette Valley. Development of the demonstration project will produce a formalized coordination process among local/State/Federal agencies. The program is designed to implement the statewide wetlands strategy being developed under a 1991 State Wetland Grant.

The Willamette Valley Watershed project is a multi-year effort that will develop analytical and public involvement tools for basin planning for wetland resources. The project will be used as a forum to coordinate State agency programs applicable to the basin and to develop public involvement mechanisms to ensure stakeholders are involved in the development of a basin plan. The products of this project include; a basin summary of wetland-water quality issues, data summary report of disturbed site data, analysis of geographic interactions of wetlands, water quality, and land use, and development of basin goals and objectives.

## **PENNSYLVANIA**

TITLE: Development of Pennsylvania's Wetlands Protection Program  
AGENCY: Department of Environmental Resources  
Office of Parks and Forestry  
Bureau of Forestry  
Division of Forest Advisory Services  
2150 Herr Street  
Harrisburg, PA 17103  
CONTACT: Daniel Devlin  
(717) 757-3444  
FUNDING: Total project \$100,224  
EPA funding 75,168  
State match 25,056

The State will assess the present field status of endangered and threatened species. This information will be placed in the Pennsylvania Natural Diversity Inventory (PNDI) information system. The PNDI is used

as a tool to assess and prevent impacts of permitted activities including wetland encroachments on endangered and threatened species. The results of this project will enhance to the development of the wetlands protection program in Pennsylvania by adding data needed to document wetlands which support endangered species. State regulations contain a special category of wetlands referred to as Exceptional Value Wetlands, which are those wetlands which serve as habitat for fauna or flora listed as Threatened or Endangered by State and Federal agencies. Up-to-date information will increase the efficiency of the wetlands program in addition to increasing protection for wetlands of exceptional value. Known locations of valuable wetlands will also be prioritized for acquisition if funds become available.

## **RHODE ISLAND**

TITLE: Support for Development and Improvement of Rhode Island's Wetlands Protection Program

AGENCY: Department of Environmental Management

Division of Freshwater Wetlands

291 Promenade Street

Providence, RI 02908

CONTACT: Brian Tefft

(401) 277-6820

FUNDING: Total project \$145,040

EPA funding 108,777

State match 36,263

1. Statewide Assessment of Wetland Wildlife Habitat Using the Golet Assessment Methodology and Geographic Information System GIS--The State will complete a statewide analysis and relative ranking of Rhode Island's freshwater wetland wildlife habitats in order to guide development of quantitative regulations and performance standards for permit applicants. The results of this project will be used to identify the relative importance and sensitivity of wetland wildlife habitats on a statewide basis and to use these findings as a component for the development of new regulations to guide permit and enforcement decision-making.
2. Wetlands Video--This proposal is for production of an education video emphasizing the wetlands regulatory program in Rhode Island. It will include discussions of wetlands types found in Rhode Island, how the regulatory program operates, how to apply for a permit, and enforcement procedures.

## **SOUTH CAROLINA**

TITLE: Development of Wetlands Component of Watershed Water Quality Management Program in South Carolina

AGENCY: Department of Health and Environmental Control  
Bureau of Water Pollution Control  
2600 Bull Street  
Columbia, SC 29201  
CONTACT: Sally Knowles  
(803) 734-5229  
FUNDING: Total project \$202,982  
EPA funding 151,349  
State match 33,633  
Other 18,000 South Carolina Land Resources Conservation Commission

The South Carolina Department of Health and Environmental Control (DHEC) is initiating water quality planning and protection on a watershed basis to maximize the use of available resources and to provide a coordinated approach to river basin water quality management. Under the Watershed Water Quality Management Program (WWQMP) the State recognizes the interdependence of water quality and activities that occur in the associated drainage basin including permitting, water quality monitoring, water quality modelling, problem identification, and assessment planning. These activities will be integrated by basin to develop watershed management plans and implementation strategies. The WWQMP will focus water quality management efforts on a watershed basis.

A proactive strategy for wetlands protection in each watershed will be developed to identify and investigate a basin's wetlands and evaluate existing alterations. The South Carolina Land Resources Conservation Commission will develop a satellite derived land use/land cover data base for the entire State using EPA's Environmental Monitoring and Assessment Program (EMAP) classification scheme as part of this grant. This strategy will introduce a basin-wide wetland management approach that will integrate existing CWA programs including water classifications, 401 Water Quality Certification and NPDES permitting to protect wetlands within the watershed water quality management initiative.

## **SOUTH CAROLINA**

TITLE: Identification of Potential Wetlands Mitigation Sites in Orangeburg County, South Carolina, through the Use of a Geographic Information System

AGENCY: Water Resources Commission  
Surface Water Division  
1201 Main Street, Suite 1100  
Columbia, SC 29201  
CONTACT: Barbara Postles  
(803) 737-0800  
FUNDING: Total project \$15,717  
EPA funding 10,864

State match 4,853

The objective of the project is to design a methodology to identify potential mitigation sites for urban and rural, riverine and isolated freshwater wetlands. This methodology will be applied to an existing high-quality spatial data base for implementation. Areas identified through classical spatial analysis will be field truthed for accuracy and on-site assessment of conditions.

## **TEXAS**

**TITLE:** Development of Baseline Information on Important Coastal Natural Resources to Assist in Development of a State Wetland Conservation Plan

**AGENCY:** Texas Parks and Wildlife Department

Resource Protection Division

4200 Smith School Road

Austin, TX 78744

**CONTACT:** Leland Roberts

(512) 389-4632

**FUNDING:** Total project \$93,333

EPA funding 70,000

State match 23,333

The Texas Parks and Wildlife Department (TPWD) has an extensive database containing information on coastal fisheries of all types, waterfowl, endangered species, colonial waterbirds and other nongame species, as well as extensive information on the wide array of wetland habitats found in coastal waters. This project allows TPWD to develop extensive data within the TPWD electronic data bases and maps for use in assessing relative importance of an array of sensitive wetland areas in the major estuarine systems. This information would provide the basis of assessing mitigation, acquisition, and management priorities required by the legislatively mandated State Wetlands Plan and for which the Texas General Lands Office has ongoing and proposed projects to develop evaluation criteria and coordination processes.

## **TEXAS**

**TITLE:** Wetland Conservation and Restoration Plan

**AGENCY:** Texas State Soil and Water Conservation Board

PO Box 658

Temple, TX 76503

CONTACT: James Moore

(817) 773-2250

FUNDING: Total project \$100,000

EPA funding 75,000

State match 25,000

This project will be used to gather data and develop a pilot wetland restoration plan which could serve as a pattern for conserving the State's wetland resources. The project will be geographically targeted to a specific watershed and will be accomplished through:

1. Gathering inventories of wetland and nonpoint source loadings.
2. Prioritizing wetlands based on ecological value and nonpoint source impacts.
3. Forming a mitigation bank concept plan to restore wetland and treat nonpoint source loadings.
4. Developing a prototype watershed wetland restoration plan.

Specific tasks that will be followed include:

1. Selecting a watershed.
2. Inventorying of wetlands in the watershed.
3. Prioritizing wetlands according to ecological value.
4. Developing a model wetlands mitigation bank.
5. Developing a watershed wetland restoration plan.

## TEXAS

TITLE: Building a Comprehensive Wetlands Conservation Plan for Texas

AGENCY: Texas Water Commission

Budget, Planning and Evaluation Division

PO Box 13087, Capitol Station

Austin, TX 78711

CONTACT: John Janak

(512) 463-8117

FUNDING: Total project \$103,064

EPA funding 77,298

State match 25,766

The Texas Water Commission will initiate a Comprehensive Wetlands Conservation Plan to improve protection of the wetland resources of the State. The objectives of this project are:

1. Adopt clear and concise statewide definition of wetlands.
2. Draft proposed mitigation rules for regulating water projects that impact wetlands to ensure a goal of no net loss of wetlands.
3. Adopt rules for wetland assessment techniques in each of the State's ecoregions, to establish acceptable methods for standardizing an improved assessment technique to enhance the permitting process.

# UTAH

TITLE: Development of Utah State Wetlands Program

AGENCY: Department of Natural Resources

Division of Wildlife Resources

1596 West North Temple

Salt Lake City, UT 84116

CONTACT: Catherine Quinn

(801) 538-4861

FUNDING: Total project \$99,170

EPA funding 71,628

State match 27,542

This project will assist the State of Utah in developing a State Wetlands Program. Under the project, four separate tasks will be completed.

1. Wetland Inventory and Classification. The State will create a statewide wetland inventory on a Geographic Information System (GIS). In addition, the State will develop a statewide wetland classification and ranking model specific to Utah.
2. Guide to Wetland Evaluation. Develop technical materials for use throughout the State to facilitate wetland understanding, planning and decision making. There is a need to create a simple, accurate, relatively quick and easy-to-use guide to wetland evaluation for use by State and local agencies, developers, planners and others.
3. Framework for No Net Loss. Establish a planning framework for the State to achieve the goal of no net loss of wetlands. The anticipated output is a State plan describing wetland goals and objectives and implementation of the plan to achieve those goals and objectives.
4. Wetland Plan. Develop and implement a wetland plan for the Division of Wildlife Resources. The anticipated output is an implementation plan that would facilitate the coordination of wetland-related goals and objectives between all eight sections and five regions of the Division. Included in the plan would be management direction, criteria for developing management plans for wetlands on Division lands, and a resource file.

# VERMONT

TITLE: Support Development and Improvement of Vermont's Wetlands Protection Program

AGENCY: Department of Environmental Conservation

Water Quality Division

103 South Main Street, Bldg. 1-South

Waterbury, VT 05671-0408

CONTACT: Stephan Syz

(802) 244-6951

FUNDING: Total project \$110,534

EPA funding 82,899

State share 27,635

This grant improves Vermont's wetland protection program through three initiatives: the development of a State Wetland Conservation Strategy, an inventory of wetlands not included on wetland maps for Chittendon County, and improvement of the accuracy of National Wetland Inventory Maps. These projects are described below: 1. Development of a Wetlands Conservation Strategy. Vermont will develop a Wetland Conservation Strategy. The State will lay the groundwork for adoption of the strategy by: 1) reviewing wetland programs in other States, analyzing program consistency, inconsistency, program gaps, and recommending ways to resolve identified issues; 2) developing a strategy for ranking and funding identified programs and projects; 3) ranking all 17 watersheds for various needs including mapping, functional assessment, and assistance to municipalities; 4) presenting the draft strategy at four public meetings; and 5) adopting the strategy as Agency policy.

2. Inventory of Class III Wetlands. Under Vermont's wetland rule, only those wetlands appearing on the National Wetland Inventory (NWI) maps or contiguous to NWI mapped wetlands receive protection (i.e., Class II wetlands). Class III wetlands (those not mapped or contiguous to mapped) receive no protection under the rules. Vermont will study five towns in Chittendon County to identify those Class III wetlands that are functionally significant and petition the Water Resources Board to upgrade these areas to Class II status.

3. Updating NWI Maps. As mentioned above, Vermont's ability to regulate and protect wetlands is limited by the quality of its NWI maps. This project will revise all 15 minute series NWI maps to 7.5 minute maps resulting in a significant increase in accuracy. This will result in inclusion and tangible protection of many of Vermont's smaller vulnerable wetlands which currently receive no protection at the State level.

# VERMONT

**TITLE:** Identification and Protection of Outstanding Wetlands in Grand Isle County  
**AGENCY:** Natural Heritage Program  
Agency of Natural Resources  
103 S. Main Street  
Waterbury, VT 05676  
**CONTACT:** Chris Fichtel  
(802) 244-7340  
**FUNDING:** Total project \$25,354  
EPA funding 19,016  
State match 6,338

Vermont's Natural Heritage Program will identify wetlands in Grand Isle County which have outstanding ecological significance. This county faces severe development pressure. The local towns do not have the resources and information needed to establish local by-laws and ordinances. This project will provide information to State and local authorities so that they may better protect wetlands near Lake Champlain.

## **VIRGINIA**

**TITLE:** Wetlands Functional Assessment  
**AGENCY:** Virginia Institute of Marine Sciences  
Glouster Point, VA 23062  
**CONTACT:** Carl Hershner  
(804) 642-7387  
**FUNDING:** Total project \$47,741  
EPA funding 35,806  
State match 11,935

This grant has three separate, but related tasks, involving functional assessment of wetlands. These assessments will assist the Virginia Water Control Board in developing of their State wetlands protection program.

1. Workshop on Evaluation of Wetland Functions. The goal of this effort is to try to bring a degree of certainty and predictability to "best professional judgment" in assessing and evaluating wetlands functions. A workshop of scientists and regulatory personnel will be held to focus on differences and similarities in approaches to evaluating wetlands functions. Information shared in this workshop will be used to develop a reliable, comprehensive, consistent approach.
2. Assessment of Avian Habitat Function of Forested Wetlands in the Coastal Plain of Virginia. This study is expected to improve regulatory decision-making by providing specific information on the

importance of various forested wetland types as bird habitat.

3. Formation of Iron Deposits Proximate to the Roots of Acer rubrum Seedlings Over Time. This study will examine the time necessary for iron deposits to become materially visible along the root channels of Acer rubrum seedlings. This information will have a direct bearing on the use of oxidized rhizospheres as an indicator of saturated soil conditions in wetland determinations and delineations.

## **VIRGINIA**

TITLE: Enhancement of Technical Support for Tidal Wetlands Management

AGENCY: Virginia Institute of Marine Sciences

Glouster Point, VA 23062

CONTACT: Carl Hershner

(804) 642-7387

FUNDING: Total project \$77,692

EPA funding 58,269

State match 19,423

This project will involve development of a computer program for the analysis of shoreline projects. The program will codify the process of permit evaluation currently undertaken by the Virginia Institute of Marine Sciences (VIMS.) The program will be designed: to identify projects which are acceptable under existing management guidelines and policies, to highlight projects which require modification to be acceptable, and to identify those which are so complex that additional technical review is needed. This effort is intended to increase efficiency of permit review by filtering applications into the three categories above based on information already accumulated in the data base. It will allow technical expertise to be focused on those permits which require a more complex evaluation. The project will include both design and testing of the program. This project will result in:

1. Design, construction and testing of a computer program for the environmental impact analysis of shoreline development projects.
2. Practical testing of the structure and content of the resource inventory and permit data bases developed by VIMS for support of wetlands management decisions.
3. A report detailing the structure and function of the analytical program and associated data bases so that they may be used as a model for other States.

## **VIRGINIA**

TITLE: Development of State Wetlands Conservation Program for Virginia's Ungranted Marshes,

Meadowlands, Beaches and Commons in Accomack and Northampton Counties

AGENCY: Virginia Institute of Marine Sciences

PO Box 1346

Glouster Point, VA 23062

CONTACT: N. B. Theberge

(804) 642-7109

FUNDING: Total project \$138,047

EPA funding 103,534

State match 34,513

This will be a cooperative effort between the Virginia Institute of Marine Sciences (VIMS) and the Virginia Marine Resources Commission. The project includes two major objectives. The first will be to coordinate with key regulatory and resource agencies, groups, and individuals that represent the major interests in and authorities over coastal resources. The second objective will be to conduct joint planning and follow-up coordination meetings to provide for the development, implementation, and evaluation of a conservation and management plan. The project products include:

1. Development of a detailed statement of the extent of these wetlands resources.
2. Identification of highly dynamic areas requiring annual site review by a surveying team to document changes in land mass that might create confusion between adjacent property owners.
3. Replacement of easily movable pipe boundary markers in key locations.
4. Development of a statement of resource status and trends.
5. Development of public information and education materials.
6. Identification of public and private protection programs in existence and how these programs affect or integrate with the conservation and management of these resources.
7. Identification of institutional, statutory, and regulatory changes, implementation mechanisms, and target dates.
8. Development of recommendations for monitoring and reporting.
9. Development of a draft comprehensive conservation and management plan to be forwarded to the Secretary of Natural Resources.

## **WASHINGTON**

TITLE: State Wetlands Conservation Plan

AGENCY: Department of Ecology

Shorelands and Coastal Zone Management program

PO Box 97600

Olympia, WA 98504

Department of Community Development

Growth Management Section

PO Box 48300  
Olympia, WA 98504  
CONTACT: Sue Mauermann  
(206) 459-6786  
FUNDING: Total project \$405,294  
EPA funding 300,000  
State match 105,294

This is a joint proposal from the Department of Ecology and the Department of Community Development to develop a State Wetlands Conservation Plan. The tasks to be accomplished are:

1. Development of a State Wetlands Management Framework to identify and seek to integrate all of the regulatory and non-regulatory wetland protection program elements that already exist at various levels in the State and build upon that base by defining common goals and objectives, identifying and evaluating ways to fill gaps, minimize overlaps, and resolve areas of conflict.
2. Development of Local Wetlands Conservation Plan Guidance by compiling and developing guidance to assist local governments in the preparation of Local Wetland Conservation Plans that will meet the goals, procedural criteria, and wetland protection and public involvement requirements of the State's Growth Management Act.
3. Development and Implementation of a Joint Department of Community Development/Department of Ecology Local Government Training Program. This project will involve developing training materials that will be designed to help local governments understand and utilize the guidance materials developed under Element 2 and conducting training for local governments around the State in the use of these materials to assist them in preparing Local Wetland Conservation Plans.
4. Local Wetlands Conservation Plan Demonstration Project. This project will involve funding a Local Wetland Conservation Plan demonstration project where a local government will seek to implement the State guidance as a pilot project.

## **WEST VIRGINIA**

TITLE: Application of Wetlands Inventory Data in Wetlands Protection Program  
AGENCY: West Virginia Department of Commerce, Labor, and Environmental Resources  
Division of Natural Resources  
MacArthur, WV 25873  
CONTACT: Barbara Taylor  
(304) 256-6850  
FUNDING: Total project \$100,000  
EPA funding 75,000  
State match 25,000

This project will include development of a system in which the National Wetland Inventory (NWI) maps would be available in digital form so that they may be utilized by the Division of Natural Resources' Geographic Information System (GIS.) This effort would form part of the basis for the developing the State's wetlands program. Products would include:

1. Enhance development of wetland standards and criteria.
2. Complete a data layer component of the GIS.
3. Enhance environmental review of proposed development projects for protection of wetlands.
4. Increase scope of wetlands information which can be provided to Federal and State agencies, planning organizations, developers, general public, and others.
5. Provide increased level of protection to wetlands types which due to their limited quantity must be considered unique.
6. Increase the ability to preferentially determine a specific wetland type for enhancement based on present regional, county or State abundance when preparing mitigation settlements for environmental impacts.

## WYOMING

TITLE: State Wetlands Planning Initiative

AGENCY: Department of Environmental Quality

122 West 25th Street, 4th West

Cheyenne, WY 82002

CONTACT: William Garland

(307) 777-7781

FUNDING: Total project \$132,571

EPA funding 99,429

State match 33,142

Many people familiar with wetland resource issues agree that wetlands planning strategies and protection efforts need to be developed on regional, State and local levels in order to achieve the Federal goals.

Through this project, the Department of Environmental Quality (DEQ) will develop a statewide wetland management plan that will serve as the basis for wetlands protection and restoration efforts in Wyoming. The list of program development needs that will be addressed in this project are listed below:

1. Development of wetland standards as required for the next triennial standards review.
2. Production of a detailed wetland component in the bi-annual water quality assessment required under section 305(b).
3. Integration and modification of the National Wetlands Inventory (NWI) database into a developing State Geographic Information System.
4. Identification of major wetland problems and opportunities specific to Wyoming.

5. Refinement of Section 401 policies and procedures.
6. Completion of wetland/watershed restoration plans for those areas in the State that are already known to be wetlands deficient.

## **CHEROKEE NATION OF OKLAHOMA**

TITLE: Cooperative Outreach Effort  
AGENCY: Cherokee Nation of Oklahoma  
Hazardous Waste Management Office  
PO Box 948  
Tahlequah, OK 74465  
CONTACT: George Bearpaw  
(918) 456-0671 Ext. 386  
FUNDING: Total project \$26,667  
EPA funding 20,000  
Tribal match 6,667

The funding for this project will allow the Cherokee Nation of Oklahoma--in cooperation with the Oklahoma Conservation Commission and the Oklahoma Department of Wildlife--to write, develop, and supervise the production of an educational film about Oklahoma wetlands. The target audience will be all persons age 13 and above. The film will be distributed to the Oklahoma public school system, the Indian Tribes in Oklahoma, various State agencies with an interest in wetlands, and the State public television stations.

## **THE CONFEDERATED SALISH AND KOOTENAI TRIBES OF THE FLATHEAD RESERVATION**

TITLE: Development of a Wetland Conservation Strategy on the Flathead Indian Reservation  
AGENCY: The Confederated Salish and Kootenai Tribes  
Natural Resources Department  
PO Box 278  
Pablo, MT 59855  
CONTACT: Rhonda Swaney  
(406) 675-2700 Ext. 325  
FUNDING: Total project \$104,214  
EPA funding 78,115

Tribal match 21,099

Other 5,000 Cooperative Wildlife Research Unit, University of Montana

- The Tribes will develop a Tribal Wetland Conservation Strategy for the Reservation that will include:
1. Conservation goals and objectives.
  2. Assessment of wetland resources.
  3. Evaluation of existing mechanisms for wetland protection and restoration.
  4. Strategies for improving the protection, restoration, and development of wetlands.
  5. Recommended procedures for documenting progress.
  6. Recommendations for implementing the conservation strategy.

The Wetland Conservation Strategy will serve as a framework for the future development and implementation of a Comprehensive Wetland Conservation Plan. The completed strategy will help Tribal, Federal, State and private entities involved in wetland management on the Reservation develop and implement more effective conservation measures.

## **FORT PECK ASSINIBOINE AND SIOUX TRIBES**

**TITLE:** Develop a Wetlands Policy for the Fort Peck Indian Reservation

**AGENCY:** Fort Peck Assiniboine and Sioux Tribes

Office of Environmental Protection

Box 1027

Poplar, MT 59255

**CONTACT:** Deb Madison

(406) 768-5755

**FUNDING:** Total project \$16,750

EPA funding 12,563

Tribal match 4,187

The goal of this project is to develop a Wetlands Protection Policy for the Fort Peck Indian Reservation for designated high priority areas with emphasis on preservation. The objectives are:

1. Assess completeness of available wetlands data from the Soil Conservation Service (SCS), U.S. Geological Service (USGS), Fish and Wildlife Service (FWS), Bureau of Indian Affairs (BIA), and Tribal studies.
2. Determine additional information needed for development and consolidation of a wetlands database.
3. Identify surrounding land use practices and impacts from past and current practices.
4. Develop a land use policy contributing to preservation, maintenance, and restoration of wetlands.

# LEECH LAKE TRIBAL COUNCIL

**TITLE:** Wetlands Protection Plan Development for the Leech Lake Watershed

**AGENCY:** Leech Lake Tribal Council

Division of Resource Management

Route 3, Box 100

Cass Lake, MN 56633

**CONTACT:** Joseph Shepherd

(218) 335-8240

**FUNDING:** Total project \$39,456

EPA funding 22,125

Tribal match 17,331

Natural resource managers from the Federal, State, Tribal and local levels are cooperating to develop an information base and integrated management plan for the Leech Lake watershed. The objective of this inter-agency initiative is to develop a model watershed management plan which relates to resource specific features and their values. The Tribe will inventory and classify wetlands within the 1,163 square mile Leech Lake Watershed. The product of this project will represent the wetlands protection element within the framework of the comprehensive watershed management plan.

# NAVAJO

**TITLE:** Identification of Ecologically Significant Wetlands and Development of a Wetlands Protection Plan for the Navajo Nation

**AGENCY:** Navajo Nation

Department of Navajo Fish and Wildlife

The Navajo Natural Heritage Program

PO Box 1480

Window Rock, AZ 86515

**CONTACT:** Michael Tremble

(602) 871-7059

**FUNDING:** Total project \$90,730

EPA funding 53,105

Tribal match 37,625

The Navaho Environmental Protection Agency (NEPA) will identify ecologically significant wetlands of the Navajo Nation. Remote sensing data will be utilized in a landscape analysis to identify and map the

wetlands into a Geographic Information System (GIS) database. Field surveys will inventory, classify, and prioritize the wetlands. Information from this project will be used by NEPA to develop a wetlands protection plan, regulations, and to review the impact of development projects on wetland species and communities of concern.

## **RED LAKE BAND OF CHIPPEWA**

**TITLE:** Initiate Development of a Program to Protect and Enhance Wetlands on the Red Lake Indian Reservation

**AGENCY:** Red Lake Tribal Council

Red Lake, MN 56671

**CONTACT:** Lawrence Bedeau

(218) 679-3959

**FUNDING:** Total project \$86,983

EPA funding 60,941

Tribal match 26,042

The Red Lake Department of Natural Resources will undertake a planning project which will result in the development and implementation of a Tribal Wetlands Conservation Plan. A no net loss policy will be made an integral part of the plan. Consideration will be given to environmental, economic, social, and cultural concerns unique to the Red Lake Band of Chippewa. The development of ordinances will be considered to facilitate implementation of the plan.

## **SANTA CLARA PUEBLO**

**TITLE:** Rio Grande Bosque and Tribal Wetlands Rehabilitation Project

**AGENCY:** Santa Clara Pueblo

PO Box 580

Espanola, NM 87532

**CONTACT:** Mel Tafoya

(505) 753-7326

**FUNDING:** Total project \$91,901

EPA funding 73,521

Tribal match 18,380

The purpose of this grant is to provide for protection and restoration of wetlands of the Rio Grande Bosque within the Santa Clara Indian Reservation. The three objectives of this project are:

1. To identify and assess wetlands within the exterior boundaries of the Reservation.
2. To develop a diagnostic and remediation plan for at risk wetlands within the exterior boundaries of the Reservation.
3. To develop a long-term strategy for the management and protection of wetlands within the Reservation.

## **SEMINOLE TRIBE OF FLORIDA**

**TITLE:** Development and Enforcement of Water Quality Standards for Wetlands

**AGENCY:** Seminole Tribe

6073 Stirling Road

Hollywood, FL 33024

**CONTACT:** Craig D. Tepper

(305) 967-8995 or (813) 763-4128

**FUNDING:** Total project \$157,000

EPA funding 117,750

Tribal match 39,250

The project purpose is to develop wetland water quality standards and to incorporate them into the Tribal Water Code. Biological monitoring reference sites will be established on the Big Cypress and Brighton Reservations to support development of a water quality standards for wetlands data base.

## **TULALIP TRIBE**

**TITLE:** Watershed Management Program

**AGENCY:** The Tulalip Tribes

Planning and Community Development

6700 Totem Beach Road

Marysville, WA 98271

**CONTACT:** Peter Mills

(206) 653-4585

**FUNDING:** Total project \$101,643

EPA funding 71,643

Tribal match 30,000

The Tulalip Tribe will develop and implement a Watershed Protection Program. The project will include

the four tasks outlined below:

1. Task One. Wetlands will be evaluated for their importance within the watershed considering five functions (water quality, stream management and fisheries, aquifer protection, wildlife habitat, flood control).
2. Task Two. A model of the Reservation's watersheds will be developed by combining Task 1 findings with an evaluation of watershed land uses. The results will be used to assess the relative function and importance of watershed resources including wetlands so that watershed strategies can be developed.
3. Task Three. An evaluation of land use will assess the compatibility of the comprehensive plan with the water resources functions in the watershed.
4. Task Four. A Citizen's Advisory Committee will be assembled to review the goals, objectives, and policies of the plan as well as the appropriateness of the protection, mitigation, and preservation strategies.

## **AMERICAN SAMOA**

TITLE: Community Outreach to Support Implementation of the Wetlands Management Plan

AGENCY: Environmental Protection Agency

American Samoa Government

Office of the Governor

Pago Pago, American Samoa 96799

CONTACT: Pati Faiai

(684) 633-2305

FUNDING: Total project \$100,000

EPA funding 100,000

Match (none required by statute)

American Samoa Environmental Protection Agency (ASEPA) will conduct community outreach activities to develop the means and support for implementation of the Wetlands Management Plan to provide better protection for the remaining wetlands. The project includes: a village coordination component, development of wetland educational materials and activities, purchase of equipment for delineation and monitoring, and training ASEPA staff in wetlands delineation and monitoring.

## **APPENDIX I GRANTEE BY TOPIC**

401 Water Quality Certification

California  
Minnesota  
Missouri  
South Carolina  
Wyoming

404 Assumption

Florida  
Louisiana  
North Dakota

Agriculture

Connecticut  
Kansas

Artificial Wetlands

Arizona

Assessment Methodologies

Alabama  
Delaware  
Michigan  
Texas  
Utah  
Virginia

Best Management Practices (BMPs)

Delaware

Bio-criteria

Montana

Buffers

New Jersey

## Classification/Categorization

Alaska  
Arkansas  
Colorado  
Delaware  
Maine  
New Mexico  
Utah

## Cumulative Impacts

Maryland  
Massachusetts

## Endangered Species

Maine  
Massachusetts  
Pennsylvania

## Geographic Information Systems (GIS)

Florida  
Georgia  
Minnesota  
Missouri  
Navajo  
New Hampshire  
North Dakota  
Ohio  
Pennsylvania  
Rhode Island  
South Carolina  
Texas  
Utah  
Virginia  
West Virginia

## Local Programs

Maine  
Maryland  
Minnesota  
New Hampshire  
Vermont

## Mapping/Inventory

Alabama  
New Hampshire  
Vermont

## Mitigation/Mitigation Banking

Colorado  
Maryland  
Montana  
New Jersey  
North Carolina  
South Carolina  
Texas  
Texas

## Multi-Objective River Corridor Management (MORC)

California  
Kansas  
Montana

## Outreach/Training

Alabama  
American Samoa  
California  
Cherokee Nation of Oklahoma  
Colorado  
Connecticut  
Kansas  
Louisiana  
Montana  
North Dakota  
Ohio

Rhode Island  
Virginia

## Outstanding Resource Waters (ORW)

Connecticut

## Program Coordination

Idaho  
Missouri

## Riparian

Arizona  
Colorado  
Kansas  
Kansas  
Kansas  
Massachusetts  
Montana  
New Mexico  
Oklahoma

## State Program General Permits (SPGP)

New Hampshire  
North Carolina

## State Wetland Conservation Plans (SWCP)

Alabama  
Arkansas  
Confederated Salish and Kootenai Tribes of the  
Flathead Reservation  
Florida  
Illinois  
Montana  
Nebraska  
North Dakota  
Red Lake Band of Chippewa  
Vermont

Washington

## Status and Trends

New York  
Virginia

## Tribal Policy

Fort Peck Assiniboine and Sioux Tribes  
Santa Clara Pueblo

## Watershed Planning

California  
California  
Delaware  
Georgia  
Leech Lake Tribal Council  
Louisiana  
Maryland  
Massachusetts  
Michigan  
New Jersey  
North Dakota  
Oregon  
South Carolina  
Texas  
Tulalip Tribe  
Wyoming

## Wetland Water Quality Standards

Delaware  
Illinois  
Massachusetts  
Minnesota  
Missouri  
Montana  
Ohio  
Oklahoma  
Seminole Tribe of Florida

# APPENDIX II

## ANNOUNCEMENT OF GRANT AVAILABILITY STATE WETLANDS PROTECTION DEVELOPMENT GRANTS

### U.S. ENVIRONMENTAL PROTECTION AGENCY

#### Wetlands Program FY 92 Grant Guidance

In FY90 Congress first appropriated funds to establish a grant program specifically aimed at supporting State wetlands protection programs --development of new State wetlands protection programs or refinement/enhancement of existing State wetlands programs. The grant program provides financial support, through EPA regional offices and headquarters, to States and Indian Tribes to develop or improve wetlands protection programs.

#### FUNDING ELIGIBILITY

Grant funds are available for State agencies administering or developing wetlands protection programs. State agencies with wetlands related programs are also eligible to receive funding. These agencies can include, but are not limited to, the State water quality (Section 401) agency, State planning agencies, State scenic river agencies, fish and wildlife or natural resource agencies, State agriculture departments, coastal zone management agencies, and other wetlands related organizations.

Federally recognized Indian Tribes are also eligible for funding under this grant program. Indian Tribes do not have to have "treatment as a State" status to receive funding under this grant program.

Grant funds are allocated based on a competitive process. EPA is not required to provide grant funds to all States. Funding decisions will be based on the quality of the proposal received in response to a specific criteria.

Based on experience gained from previous years, we offer the following components/limitations on funding eligibility.

-- This grant program cannot fund land acquisition or purchase of easements.

-- Wetlands inventory and assessment projects are eligible for funding if they are part of a State Wetlands Conservation Plan, a Watershed Protection Demonstration Project, a geographic targeted or local wetlands management plan, or if the results directly input into development of a State wetlands protection program. Inventory for the sole purpose of locating wetlands within a State or area is not

eligible for funding under this grant program. Purchase of NWI maps is eligible if their use is incorporated into the development of a State Wetlands Conservation Plan, Watershed Protection Demonstration Project, or geographic targeted or local wetlands management plan.

-- While contractual efforts can be a part of these grants, each grant must have significant involvement by the State agency receiving the grant. While it is hard to establish a firm cut off point, these grants should not be used to simply pass money through to other entities.

-- Universities; interstate entities, compacts, or commissions; non-profit organizations; local governments, and other similar entities are not eligible for direct funding. However, they can receive funding through a State agency as long as the State agency actively participates in the project and has a significant role in the project.

-- The State agency receiving the grant funds should have significant involvement in the project. The State agency should commit adequate staff time to actively participate in the project. State staff should be involved in the project to manage and participate in the project.

-- If the project involves multiple entities (for example, other State agencies or local governments), the other entities should be included in the grant application and should indicate their commitment to the project by either participating in the project or indicating in writing their support for the project.

## **MATCHING REQUIREMENTS**

States will be required to provide at least a 25% match for the Federal funds awarded through this grant program. The State's matching money can be provided by entities other than the State agency, i.e., local governments or non-governmental/non-profit agencies. Other Federal money cannot be used as the match for this grant program.

## **FUNDING STANDARDS**

These grants are awarded under the authority of Section 104(b)(3) of the Clean Water Act. This grant authority is for research, investigations, experiments, training, demonstrations, surveys, and studies related to development of State wetlands protection programs. These grants are for the development of and not for operational support of State wetlands protection programs.

Each grant project must be completed with the initial award of funds; incremental or continuation funding will not be approved. States should request the entire amount of money needed to complete the project in the original application. Project and budget periods can be for more than one year so larger, long-term projects can continue over more than one year.

## **SELECTION CRITERIA**

Regional Offices and Headquarters will use the following criteria in reviewing and selecting projects for funding:

1. Likelihood of success.

Projects with reasonable expectation of being successful and implementable will receive priority over project with less likelihood of succeeding.

2. Success of previous projects.

EPA will consider the success of any previous projects funded in the first two years of this grant program. States that have successfully completed previous projects will be given preference over States whose projects were not successful or completed as scheduled. Success will be measured by determining if previously funded projects have been completed and have accomplished what was proposed. States who have not received funding under this grant program will not be penalized under this criteria.

3. Transferability to Other States.

EPA will give emphasis to projects whose methodology or results can be adapted by other States.

4. Action oriented.

Projects should result in real, not theoretical, wetlands protection. Planning and strategies to protect wetlands should include a definitive implementation strategy.

5. Potential environmental results.

These projects which are likely to result in direct protection of wetlands resources will receive priority over projects with more speculative results.

## **PROCEDURES**

Complete grant applications should be sent to the appropriate EPA Regional office by February 3, 1992. The regional office will review all grant applications received and select the ones for funding. The grants selected for funding by the regional offices should be forwarded to Headquarters for review and financial processing by February 29, 1992.

EPA Headquarters will direct a portion of the State grants budget toward particularly meritorious proposal for development of State Wetland Conservation Plans and Strategies, State Section 404 Assumption Support, and Watershed Protection Demonstration Projects.

Regional office staff are available to advise States about funding eligibility for potential projects and to provide assistance in developing grant proposals. A regional contact list is attached to the end of this document.

The Standard Application Form (SF 424), Non-Construction Grant form should be used to apply for these grants. These forms are available in the regional grants offices. Quality Assurance Control and peer review are not applicable for these grants (40 CFR 31.45).

## **PRIORITY PROJECTS**

EPA has established priority projects that will receive preferential treatment in funding decisions for the FY92 State Wetlands Grants Program. These categories support agency priorities and initiatives. Regional Offices will be asked to give priority to projects within these categories. Other types of projects will be funded with the remaining funds.

The priority wetlands projects for FY 92 are:

- State Wetlands Conservation Plans and Strategies

The National Wetlands Policy Forum recommended that all States undertake the preparation of State Wetland Conservation Plans (SWCP). EPA has established a goal to assist all 50 States, on a voluntary basis, in the development of SCWP's by the year 2000. The purpose of a SWCP is to improve the effectiveness and efficiency of government programs and private sector efforts to protect, restore, and create wetlands in a State. A SWCP should incorporate both regulatory and non-regulatory approaches to wetlands protection. Although each State is unique and requires a strategy specifically tailored to it, a SWCP should generally include the following components:

### 1. Statement of Need, Goals, and Objectives

Briefly describe the purpose of the plan or strategy; identify the goals to define the purpose and direction of the SWCP; include more specific time horizons for achieving the goals.

### 2. Inventory and Assessment of Wetlands Resources

Identify the State's wetland resources based on available or easily obtainable information; summarize information on status and trends.

### 3. Evaluation of Protection Mechanisms

Identify existing public and private programs and mechanisms available to protect and restore wetland resources; identify gaps in programs and opportunities to increase efficiency and effectiveness of existing and new programs.

#### 4. Strategy Development and Implementation

Identify specific actions or changes, target dates for actions, and the implementation mechanisms to be used; geographic specific plans which can include location of areas generally suitable for development, restoration sites or acquisition; coordinate with applicable Federal, State, and local government programs and private sector efforts.

#### 5. Monitoring

Establish how the programs carrying out the recommendations will be monitored and reported.

#### 6. Plan Approval

Should identify a mechanism and entity (i.e., agency head, Governor, or other) for getting approval and/or acceptance of the recommendations and strategies included in the plan. Approval may vary depending on the purpose of the plan, i.e., plans developed to assist State efforts to assume the 404 program should be reviewed and approved by EPA with opportunity for review and comment by the Corps of Engineers, Fish and Wildlife Service, and National Marine Fisheries Service.

SWCP's can also be used as mechanisms to assess issues such as wetlands categorization, wetlands delineation, role of mitigation banking, and other wetland issues or concerns of a particular State.

- State Section 404 Assumption

The Clean Water Act provides for States to assume the Federal permit responsibility in certain waters of the U.S. The Clean Water Act and EPA regulations (40 CFR 233) establish the criteria and procedures for program assumption. Grant funds can be used to develop the legal authority and capability to assume the permit program, conduct outreach to develop understanding of and support for program assumption, and to develop the documentation needed to formally request program assumption. Tasks that are eligible include writing legislation to qualify the State to assume the program; developing implementing regulations; developing guidance, policies, and procedures for the State's permit program; conducting outreach and education efforts to government and private sector leaders and the public to develop understanding of and support for program assumption; and writing the documents needed to complete a formal program assumption request. Administrator Reilly has established working cooperatively with States interested in assuming the Section 404 program as an EPA priority.

For an application to be eligible for funding, the Governor of the State must indicate his/her concurrence for grant applications for State Section 404 Assumption assistance. Grant applications that do not include a request from the Governor will not be approved. The Governor's interest can be indicated by a letter transmitting the grant application to EPA.

- Watershed Protection Approach Demonstration Projects

The Office of Wetlands, Oceans and Watershed has established a Watershed Protection Approach. The objective of the Watershed Protection Approach is to re-orient EPA and State programs to address watershed protection in a holistic, integrated manner by promoting a geographically targeted approach so that Federal, State, local and private decision- makers can cooperatively focus resources on highest priorities, tailor efforts to the needs, coordinate and engage all participants, and address all problems.

Projects should have a geographic or ecosystem focus, should have a substantial wetland component, should involve various levels of government and the private sector (Federal, State, and local governments, private groups, and landowners), techniques or approaches to identify and address the problems. These projects are intended to focus on comprehensive planning and assessment processes including watershed protection plans and comprehensive land and water resource management plans. A watershed protection plan or strategy can provide a blueprint for effectively managing wetlands resources in a geographic area; to coordinate and involve all appropriate parties in the effort; to consider environment and development needs; to have a strong public outreach component to reduce misinformation and increase awareness of the issues and needs; to address cumulative effects on a watershed basis; and to develop solutions based on analysis of needs, problems, regional resources, trends, stresses and values of a specific targeted area. These projects should include a definitive implementation strategy or action plan which outlines a specific implementation schedule, assigns lead agency or office responsibility, assigns responsibility for carrying out tasks, and criteria for measuring success.

## **OTHER POTENTIAL PROJECTS**

Funding priority will be given to projects in the above categories. However, other types of projects are eligible for funding as well. The list below of suggested fundable projects is intended as a guide to the types of projects eligible for funding under this grant program. It is not intended to be an exhaustive list, but just to give an idea of the projects that could be funded. EPA will give equal consideration to other types of projects, as long as they fit within the parameters of the grant program and merit funding.

- Water Quality Standards

The development of water quality standards for wetlands can be an important step for a wide range of regulatory and non- regulatory activities including Section 401 certification, monitoring, point and non point source controls, and RCRA/CERCLA actions. A project to develop water quality standards for wetlands can include a number of approaches:

--Develop water quality standards specifically for wetlands, designating wetlands uses and developing narrative and/or numeric criteria;

--Designate wetlands as outstanding resource waters, in which water quality must be maintained and

protected according to EPA's regulations on anti-degradation.

(NOTE: All States are expected to have water quality standards for wetlands in place by FY93.)

- Incorporate wetlands in Section 401 program

States may grant, deny, or condition "certification" for a federally permitted or licensed activity that may result in a discharge to waters of the U.S. The most important regulatory tools for effective implementation of Section 401 are a State's water quality standards regulations and guidelines implementing Section 401. There are a number of options for developing or strengthening State 401 programs:

--Adoption of formal regulations implementing State authority to grant, deny, or condition water quality certification;

--Development of water quality standards for wetlands (see previous example).

- Monitoring

States are now required to report the status of their wetland resources through the Clean Water Act Section 305(b) reports. There are often many sources of information related to physical inventory and functional integrity collated by universities, State agencies, and private organizations. States may wish to develop a monitoring program to coordinate existing and potential future monitoring efforts for inclusion into their 305(b) reports. This information would also be useful for States characterizing their wetlands and developing use classification systems for wetland water quality standards or other use within their program. States may also consider developing a status and trends methodology to assess wetlands losses within the State and develop a program to regulate these losses.

- Multi-objective river corridor management

Multi-objective river corridor (MORC) management is a planning process that integrates multiple use goals for rivers and adjacent areas, such as recreation, habitat protection, water quality, historic preservation, and flood loss reduction. The intent of these projects is to simultaneously achieve as many goals as possible, recognizing the interdependence of rivers and streams. Types of MORC projects may include (but are not limited to) river corridor strategies, greenway projects, riparian corridor projects, natural and cultural heritage projects, restoration projects, statewide river assessments, and statewide river management plans. Managing for multiple goals and objectives often requires creative, innovative approaches. Eligible MORC projects should include: river restoration and protection as one of the goals of the project, a broad public involvement component from the beginning, and address local resource issues and needs including private property rights and voluntary private sector wetlands protection efforts. Projects funded under this category should have a substantial wetlands protection component.

- Integration of wetlands into traditional water/natural resource programs

Many states can more effectively integrate wetlands protection into traditional water and natural resource management programs. States can develop a strategy and implementation plan to integrate wetlands protection into (1) traditional water programs such as nonpoint source control, floodplain management, stormwater management, water quality protection, or other surface programs and/or (2) traditional natural resource protection programs such as habitat protection/management, acquisition, and restoration.