

Welcome to the Biweekly Restoration Information Update Page. This web site

- Provides current information on wetland and river corridor restoration projects
- Recognizes outstanding restoration projects
- Provides a forum for information sharing

*We welcome the submission of articles and announcements related to your restoration project. Just send your write-up to EPA's contractor at [restorationupdate@tetrattech-ffx.com](mailto:restorationupdate@tetrattech-ffx.com) or mail it to Kathryn Phillips, Biweekly Restoration Update Coordinator, Tetra Tech, Inc., 10306 Eaton Place, Suite 340, Fairfax, VA 22030. We will carefully consider your submission for inclusion in a future update. If your submission is selected, please note that it might be edited for length or style before being posted. Because this web site is meant to be a public forum on restoration information, we cannot post any information that is copyrighted or information that serves or has the appearance to serve as advocating or lobbying for any political, business, or commercial purposes.*

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- [News and Announcements](#) - This section includes up-to-date information on regulatory issues affecting restoration, conference and workshop announcements, and other newsworthy tidbits.
- [Restoration-Related Web Sites](#) - Check out other groups on the Web that are helping in the effort to restore wetlands and river corridors.
- [Information Resources](#) - Books, journals, fact sheets, videos, and other information resources to aid you in your restoration project are provided here.
- [Ask a Restoration Question](#) - Post your restoration related question. Answers will be provided by the EPA and Bi-Weekly readers.

## Feature Article

### **Community Restores Flood Plain Function, Wetlands, and Riparian Vegetation at Dry Creek**

In a project that goes far beyond the general scope of urban stream restoration, the St. Vrain Valley School District, Queen of the River Fisheries, Rocky Mountain Consultants, Brisben Development, M. Timm Development, and the City of Longwood, Colorado, helped to restore the floodplain and associated riparian corridor of Dry Creek. The project began shortly after the St. Vrain Valley School District chose a site near Dry Creek, a creek originating in the foothills of the Rocky Mountains west of Longwood and flowing to the St. Vrain River, for the location of a new elementary, middle, and high school complex. At the point where the stream flows past the proposed school complex, it is severely degraded-extensive channelization and overgrazing have led to significant streambank erosion.

Federal Emergency Management Agency flood studies showed that additional flood capacity was needed to protect the proposed development as well as downstream areas. Instead of simply meeting the minimum flood capacity requirements, the project partners used the restoration project as an opportunity to create a pond to serve as a water supply for irrigation as well as a recreational fisheries resource; restore the historic function, pattern, and profile to the Dry Creek

stream channels; create a wetland along the stream channel, adjacent to the irrigation pond; reestablish a functioning floodplain and re-create a stable channel; and provide outdoor educational opportunities for nearby schools and community.

Before beginning the restoration project, the project team applied for a Nationwide 27 permit from the U.S. Army Corps of Engineers. These permits are granted to projects intended to restore historic wetland and riparian functions in a watershed. The receipt of this permit allowed the project to avoid the time consuming Individual 404 Permit process and substantially speed up their schedule. The project team completed preliminary grading to install meanders and restore floodplain areas in the fall of 2000 and recently completed the remainder of the project, including final grading, stream stabilization, fish habitat structures, and riparian and wetland planting.

The St. Vrain Valley School District oversaw the planting of numerous shrubs and trees, including Lance-leaf Cottonwood, Peachleaf Willow, American Plum, Common Chokecherry, Sandbar Willow, Red-osier Dogwood, Wood's Rose, Golden Currant, Sumac, and Common Snowberry as part of the habitat restoration around Dry Creek, and the School District will protect the habitat area by restricting mowing and other impacts. In addition to restoring original floodplain function, the newly planted vegetation will benefit birds, mammals, reptiles, amphibians, and fish that live in the area. Special status species expected to benefit from this project include the Bald Eagle, Ferruginous Hawk, Sandhill Crane, Long-billed Curlew, and Northern Leopard Frog.

The restored area also has significant educational value. The restoration team established an extensive trail system throughout the restored area that not only allows local residents to enjoy the area without adversely impacting the newly created habitat, but also educates them about the importance of natural stream corridors, riparian areas, wetlands, water quality protection, and wildlife conservation. The restored area also provides an outdoor classroom for local elementary, middle, and high school students. In the future, the City of Longmont plans to use the restoration area as a demonstration site for other stream restoration projects within the city and in neighboring municipalities. For more information, visit the web site

[www.coloradoriparian.org/GreenLine/V12-1/DryCreek.html](http://www.coloradoriparian.org/GreenLine/V12-1/DryCreek.html) or e-mail the Colorado Riparian Association at [riparian@webspinners.com](mailto:riparian@webspinners.com).

*If you'd like your project to appear as our next Featured Article, e-mail a short description to [restorationupdate@tetrattech-ffx.com](mailto:restorationupdate@tetrattech-ffx.com).*

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## Community-Based Restoration Partnerships

### **Canastota Muckland Education Project Preserves 250 Acres of Wetlands**

The community of Canastota lies in upstate New York in the Cowaselon Creek Watershed District. The village and surrounding rural area, covering approximately 10 square miles, have a population of some 8,000 people. The area, located along the Atlantic Coast flyway, once consisted of forest and wetland, but over the years, a majority of the wetlands were drained to increase farmable land.

Several groups are now partnering to restore some of the lost wetlands. The Great Swamp Conservancy, Inc., a nonprofit organization dedicated to preserving biodiversity in the Oneida Lake and Lake Ontario watersheds, recently founded the Canastota Muckland Project. The project seeks to educate local residents about wetland restoration and encourage them to enroll some of their land in habitat programs available through the U.S. Department of Agriculture's Wetlands Restoration Program and the U.S. Fish and Wildlife Service's Partners for Fish and Wildlife Program. The Cub Scouts of America Pack 44, Madison County 4-H, and Canastota Central School have offered their time to assist with conservation-related work.

In 1999, the Great Swamp Conservancy acquired and preserved 250 acres of land for a Nature Education Center. The Conservancy has designed the center to educate the public through nature trails and interpretive programs that highlight wetland restoration and management practices. Other completed restoration projects around the town of Canastota have resulted in a large increase in both plant and animal species. Before the project is complete, partners hope to restore an additional 3,600 acres of abandoned farmland to native wetland and establish a

monitoring and management program to combat invasive species. To learn more, visit the web site [www.nwf.org/habitats/community/sample/canastota.cfm](http://www.nwf.org/habitats/community/sample/canastota.cfm).

### **Lake Seldom Wetland Restoration**

Thanks to a unique partnership, residents of the City of Holdrege, Nebraska, now have access to an additional 125 acres of green space. Many partners, including the Rainwater Basin Joint Venture, Tri-Basin Natural Resources District, U.S. Department of Agriculture Natural Resources Conservation Service, U.S. Fish and Wildlife Service participated in various stages of land acquisition and planning. The Nebraska Environmental Trust, Ducks Unlimited, and Fish and Wildlife Foundation funded the project.

Before the partnership was formed, the green space land belonged to the Schrock family. After years of marginally successful farming and numerous efforts to improve the drainage of the land, the family realized the land would never be well-suited for farming. Instead of continuing to farm the land, the Schrocks looked for more economic land use alternatives. They enrolled the most saturated portions of the cropland in the Conservation Reserve Program as shallow water habitat and sold the remaining land to the city. As part of the transaction, deed restrictions were placed on the property to protect it from long-term development.

In the next phase of the project, the Natural Resources Conservation Service, U.S. Fish and Wildlife Service, and Nebraska Game and Parks Commission provided the technical expertise necessary to remove hydrologic modifications on the land and return it to wetland habitat. The partners then implemented a vegetation management plan to restore habitat for migratory waterfowl and other wetland wildlife. The city also uses the land as an outdoor classroom and for a variety of low-impact recreational opportunities, including wildlife observation and walking and jogging trails. To learn more, visit the web site [www.ngpc.state.ne.us/wildlife/rwbjv/lakeseld.htm](http://www.ngpc.state.ne.us/wildlife/rwbjv/lakeseld.htm) or contact Steve Moran at Rainwater Basin Joint Venture, 1233 N. Webb Road Suite 100, Grand Island, NE 68803, Phone: (308) 385-6465.

*If you are part of an innovative community-based partnership that is working to restore river corridors or wetlands, we'd like to hear from you. Please send a short description of your partnership to [restorationupdate@tetrattech-ffx.com](mailto:restorationupdate@tetrattech-ffx.com).*

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## **Achieving Restoration Results**

### **Oregon Farmer Cleans Up His Wetlands**

Five years ago Mark Knaupp, an Oregon Farmer, enrolled 320 acres of his farm in the Wetlands Reserve Program. Today the site is a thriving wetland located 10 miles west of Salem.

Knaupp's wetland deserves special attention because it is almost free of invasive non-native species, unlike virtually every other wetland in Willamette Valley. The absence of invasive species is partially due to the location of the Knaupp farm--near the top of a drainage system that has no major upstream sources of non-native seeds--but it is also due to Knaupp's vigilance. He routinely walks through the wetlands and marks the location of invasive reeds with yellow flags and returns later to eliminate them with a shot of herbicide.

The absence of invasive species has left plenty of room for numerous species of wetland plants, including a healthy population of Nelson's checkermallow, a purple flowered plant listed as threatened under the federal Endangered Species Act. A wide variety of waterfowl, including geese, ducks, dunlin, yellow-headed blackbirds, pie-billed grebes, and white faced ibis, have found a home on Knaupp's property. Because of his initial success with wetland restoration efforts, he placed additional land into the Wetlands Reserve Program last year. To learn more, contact Oregon Wetlands Joint Venture, 1637 Laurel Street, Lake Oswego, OR 97034. Phone: (503) 697-3889.

### **U.S. Fish and Wildlife Bird Habitat Conservation Grant Highlights**

The North American Wetlands Conservation Act (NAWCA) of 1989 was passed as part of an effort to support wetlands restoration activities under the North American Waterfowl Management Plan, an international agreement for the long-term protection of wetlands needed by waterfowl and migratory birds in North America. Congress appropriated \$40 million for Wetlands Conservation Act projects in Fiscal Year 2001.

From 1991 through July of 2001, more than 1,435 partners have been involved in 804 act-supported projects under the Small Grants or Standard Grants Programs of the NAWCA. Grants awarded in 2001 alone have restored or protected over 200,000 acres of wetland. Some projects funded under the grants include:

- *The Southern Lake Michigan Coastal Wetlands Project III.* This project acquired 710 acres of wetland in Indiana's Blake, Porter, and LaPorte Counties located at the southern tip of Lake Michigan. The land will link nearby habitat areas and help reduce habitat fragmentation in the area. This program will renew connections between over 60 acres of wetlands.
- *Red Slough Enhancement and Restoration Project.* Project partners acquired 2,119 acres of wetlands in the heart of Red Slough in southeastern Oklahoma. Four pools, with a combined area of 955 acres, will be enhanced to help the Red Slough managers control the water level. The pools provide habitat for seasonal wading birds and endangered species ranging from piping plovers to the American alligator.
- *Pingree Forest Partnership Wetlands Project.* The Pingree Forest Partnership lands include six major wetland habitat types, including fens, riverside seeps, and bog habitats. This project focuses on protecting land in the Pingree Forest in Aroostook, Franklin, Oxford, Penobscot, Piscataquis, and Somerset Counties in Maine. Partners will acquire easements on 108,389 acres of wetland and associated upland habitats, including critical migration, breeding, and nesting habitat for over 200 species of waterfowl, shorebirds, and rare and endangered species.

For more information, visit <http://northamerican.fws.gov/index.htm> or contact the U.S. Fish and Wildlife Service, Division of Bird Habitat Conservation, 4401 North Fairfax Drive, Room 110, Arlington, VA 22203, Phone: (703) 358-1784.

*If you are part of an innovative restoration project that has positive results, we'd like to hear from you. Please send a short description of your partnership to [restorationupdate@tetratex-ffx.com](mailto:restorationupdate@tetratex-ffx.com).*

## Funding for Restoration Projects

### New Listings:

#### **Coastal Wetlands Planning, Protection, and Restoration Act**

The U.S. Fish and Wildlife Service administers grants under the Coastal Wetlands Planning, Protection, and Restoration Act to states bordering on the Atlantic and Pacific Oceans, the Gulf of Mexico (except Louisiana), and the Great Lakes, as well as to Puerto Rico, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, the Trust Territories of the Pacific Islands, and American Samoa. Grants are awarded on a competitive basis and range from \$138,875 to \$1,000,000. Funds must be used for restoration, enhancement, or management of coastal wetlands ecosystems on a competitive basis with all coastal states. Visit the U.S. Fish and Wildlife's National Coastal Wetlands Conservation Grants Program web site at [http://fa.r9.fws.gov/cw/cw\\_jul97.html](http://fa.r9.fws.gov/cw/cw_jul97.html), or for a brief summary of the grant program, visit [www.cfda.gov/public/viewprog.asp?progid=448](http://www.cfda.gov/public/viewprog.asp?progid=448).

#### **EPA Wetland Program Development Grants**

EPA Wetland Grants are intended to encourage wetlands program development and to build the capacity of states, tribes, local governments, or associations to effectively protect wetland and riparian resources. The projects funded under this program should support the initial development of a wetlands protection, restoration, or management program or support the enhancement or refinement of an existing program. Grant awards range from \$1,500 to \$489,000. All state, tribal, or local government agencies, interstate/intertribal entities and associations and not-for-profit organizations, are eligible to apply. Visit the Wetlands Program Development Grants web site at <http://www.epa.gov/owow/wetlands/grantguidelines/index.html>.

#### **Listings with Upcoming Deadlines:**

#### **Wetlands Challenge Grant Deadline Nears**

The National Fish and Wildlife Foundation awards challenge grants to projects that address priority actions promoting conservation of fish and wildlife and the habitats on which they depend, work proactively to involve other conservation and community interests, leverage Foundation-provided funding, and evaluate project outcomes. Grants range from \$10,000 to \$150,000 and are awarded only if applicants can raise \$2 in challenge funds for every federal matching dollar requested. Eligible grant recipients include federal, state, and local governments; educational institutions; and nonprofit conservation organizations. **Preproposals are due on October 15, and full proposals are due on December 1.** Challenge grant instructions can be accessed through the NFWF home page at [www.nfwf.org/programs/guidelines.htm](http://www.nfwf.org/programs/guidelines.htm). For more information, contact the National Fish and Wildlife Foundation, 1120 Connecticut Avenue, NW, Suite 900, Washington, DC 20036. Phone: (202) 857-0166.

Please send any news you have on funding mechanisms available to local community organizations to [restorationupdate@tetratex.com](mailto:restorationupdate@tetratex.com).

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## News and Announcements

### Proposal to Reissue and Modify Nationwide Permits

Section 404(e) of the Clean Water Act allows the Army, after notice and opportunity for public hearing, to issue permits for any activities involving discharges of dredged or fill material into the waters of the United States. Activities authorized under section 404 must cause only minimal adverse environmental impacts and have minimal cumulative adverse effects on the aquatic environment. The Nationwide Permit (NWP) Program was designed to help provide timely authorization for activities regulated under section 404. Because of some revisions made to the NWP process that took effect in June 2000, only some of the NWPs will expire in 2002. To reduce confusion regarding the expiration of the NWPs, the Corps intends to reissue all NWPs and General Conditions, including those not scheduled to expire on February 11, 2002. Thus, all issued, reissued, and modified NWPs and General Conditions contained in the August 9th *Federal Register* notice will become effective and expire on the same date. To read the complete federal register notice, visit <http://www.aswm.org/01nwp.htm> [Link no longer available, October 2003].

### Grants Awarded to Ducks Unlimited to Support Habitat Restoration Work

Ducks Unlimited, Inc. (DU) has received several grants supporting their habitat enhancement and wetland restoration work in the San Francisco Bay area and California's Central Valley.

- The Board of California State Coastal Conservancy awarded a \$315,000 grant to restore habitat around the Napa/Sonoma Marshes Wildlife Area. DU will restore native grasses in the area and place interpretive signs in the wildlife area.
- The Coastal Conservancy also awarded DU a \$160,000 grant supporting the Suisun Marsh Waterfowl Production Program. With the funds, DU will restore breeding waterfowl habitat on private property throughout the Suisun Marsh.
- The Wetlands Conservation Board granted \$19,000 to DU to restore wetland habitat on three private ranches near Los Banos, California. About 637 acres of seasonal wetlands will be improved through this project.
- The Wetlands Conservation Board also awarded DU \$324,000 to restore 2,000 acres of seasonal wetlands in the East Grasslands area of California. This project will focus on restoring 4 miles of slough channels that had been degraded by cattle ranching operations.

For more information, contact the Ducks Unlimited Western Regional Office, 3074 Gold Canal Drive, Rancho Cordova, CA 95670-6116. Phone: (916) 852-2000. Internet: [www.ducks.org](http://www.ducks.org).

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**Upcoming Conferences and Events:**  
**NEW LISTINGS:**

## **Stream & Floodplain Management in Urbanizing Watersheds**

**October 29-30, 2001**

**Tampa, Florida**

The Association of State Floodplain Managers is hosting a workshop for local government, state, and federal agency staff, non-profit organizations, academics, consultants, landowners, and others who work with streams in urbanizing watersheds. The first day of the workshop will provide background on stream management and restoration efforts undertaken to date throughout Florida and the nation. The day will begin with an overview of restoration engineering, fluvial geomorphology, and soil bioengineering design methods and introduce restoration processes and methods pertinent to urbanizing watersheds. The second day will discuss the concepts and methods for designing stream restoration projects, review recent cases in innovative stream management and restoration project designs, and tour local stream sites. For more information, visit [www.floods.org](http://www.floods.org) or contact the Association of State Floodplain Managers, 2809 Fish Hatchery Rd., Madison, WI 53713, (608) 274-0123.

## **Plant Identification**

**October 16-19, 2001**

**New Orleans, Louisiana**

This is a field class on the identification of plants that commonly occur in different wetlands around New Orleans, Louisiana. Participants will learn general plant identification principles and will be given diagnostic field characteristics of each species. The characteristics will readily enable them to distinguish between species with very similar appearances. Many of these characteristics are in addition to those noted in field guides. For more information regarding this course, contact the Wetland Training Institute, Inc. at 877-792-6482, or visit the web site [www.wetlandtraining.com](http://www.wetlandtraining.com), or e-mail [getinfo@wetlandtraining.com](mailto:getinfo@wetlandtraining.com).

## **Wetlands Regulatory Workshop**

**October 30 - November 2, 2001**

**Atlantic City, New Jersey**

U.S. Environmental Protection Agency Region III is sponsoring the Fourth Annual Wetlands Regulatory Workshop. This workshop will investigate contemporary wetland regulatory issues, and will work to increase dialogue and foster partnerships between federal, state, and local regulatory agencies, nongovernment organizations and the regulated community. The workshop will address

TMDLs and wetland protection, isolated waters, new nationwide permits, development of state wetland programs, delineation and identification tools, and regional general permits.

Representatives from federal, state, and local governments; academia; nongovernmental organizations; and the private sector are encouraged to attend. For more information, visit the website <http://www.sws.org/training/listings2001/May21-01F10D28B5.html>.

## **PREVIOUS LISTINGS**

### **Wetland Delineation Workshop**

**October 15-18, 2001**

**Leesburg, FL**

This 4-day course covers the wetland delineation procedure, as defined by Florida State laws, used by the Florida Department of Environmental Protection and the state of Florida's water management districts. Differences between the federally approved wetland delineation methodology used by the U.S. Army Corp of Engineers and Florida's delineation protocols will be discussed, with emphasis on Florida's procedures. Participants will be instructed in techniques used in identifying wetland field indicators for wetland hydrology, soils, and vegetation as well as mapping techniques used in mapping wetland boundaries. This course is designed for those professionals in the private sector or governmental agencies who are responsible for the marking and mapping of wetlands as defined by the state of Florida. For more information, visit

[www.fsms.org](http://www.fsms.org).

### **Restoring Streams, Riparian Areas, and Floodplains in the Southwest: Improving Landowner Assistance and Incorporating Scientific Advances**

**October 29-31, 2001**

**Albuquerque, New Mexico**

This conference will focus on improving the effectiveness of riparian areas and stream and floodplain restoration. Information will be provided on the application of scientific advances to restoration; improvement of landowner assistance; formation of local, tribal, state, and federal restoration partnerships; and recommendations for cooperative restoration on public, private lands, and tribal lands utilizing the Little Colorado Watershed Multiobjective Management Effort and other efforts. This conference is designed for a technical and semitechnical audience, including federal, state, tribal, and local agency staff (stream, wetland, riparian area, land management, and watershed management); environmental nonprofit organization staff; and academic staff and students. Landowners are also welcome to attend. The conference is hosted by the New Mexico Riparian Council and sponsored by the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, USDA's Natural Resources Conservation Service, the Bureau of Reclamation, and Little Colorado River Multiobjective Management. For more information, visit <http://www.aswm.org/meeting/stream01.htm> [Link no longer available, October 2003] or contact the Institute for Wetland Science and Public Policy, Association for State Wetland Managers, P.O. Box 269, Berne, NY 12023-9746; call (518) 872-1804; or e-mail: [aswm@aswm.org](mailto:aswm@aswm.org).

**Alliance for Marine Remote Sensing's Nearshore and Inland Waters Workshop  
October 22-24, 2001  
Nova Scotia, Canada**

The U.S. Geological Survey's National Wetlands Research Center will sponsor the upcoming Alliance for Marine Remote Sensing (AMRS) Workshop: Remote Sensing & Resource Management in Nearshore and Inland Waters. The workshop will bring together international representatives associated with freshwater resource management. It will also provide a forum for discussing such topics as water quality; new sensor developments; satellite, airborne, land-based, and in situ sensors; pollution monitoring; flood monitoring; methodology and analysis techniques; and wetlands.

For more information, contact Gaye Farris at 337-266-8650 or [gaye\\_farris@usgs.gov](mailto:gaye_farris@usgs.gov) or visit [www.nwrc.nbs.gov/releases/pr01\\_076.htm](http://www.nwrc.nbs.gov/releases/pr01_076.htm).

***To post your restoration news and announcements, please send information to [restorationupdate@tetratex.com](mailto:restorationupdate@tetratex.com).***

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**Restoration-Related Web Sites**

[www.srs.fs.fed.us/charleston/Restoration.html](http://www.srs.fs.fed.us/charleston/Restoration.html)

**Restoration Publications List.** A list of publications written between 1996 and 2000 addressing a range of wetland restoration topics, from assessing storm damage in forested wetlands, to soil and organic matter formulation. The website is maintained by the Center for Forested Wetlands Research. *This site is useful for someone looking for scientific studies on wetland restoration.*

[www.ecr.gov/index.htm](http://www.ecr.gov/index.htm)

**The U.S. Institute for Environmental Conflict Resolution** assists parties around the country in resolving environmental conflicts that involve federal agencies or interests. The Institute was designed to provide a neutral place where public and private interests can come together to reach common ground. The institute has handled disputes involving watershed management and wetlands protection. *The institute provides consensus based assistance and training that would be useful to any groups affected by proposed federal policies.*

[www.sws.org/wetlands/journalsearch.html](http://www.sws.org/wetlands/journalsearch.html)

**Society of Wetland Scientists Journal Page** is a collection of Society of Wetland Scientists Journal articles that can be searched by keyword. This site contains a large number of articles on a wide variety of wetlands restoration

topics. *This site would be useful for wetland scientists and others looking for technical information on specific restoration topics.*

[www.sonoran.org](http://www.sonoran.org)

**The Community Stewardship Exchange** includes information, contact people, and practical examples to promote community-based strategies that preserve the ecological integrity of protected lands and, at the same time, meet the economic aspirations of adjoining landowners and communities. The site also contains a link to a searchable database of grants, cost sharing, and technical assistance available for conservation and restoration projects in the western United States. *This site is a good resource of contact information for people interested in community-based conservation projects.*

[www.comnet.org/HRWC/](http://www.comnet.org/HRWC/)

**The Huron River Watershed Council** is a coalition of Huron Valley residents and local governments established under Michigan's Local River Management Act. Its members seek to protect, rehabilitate, and sustain the Huron River System. *The site provides information on programs offered and opportunities to get involved, and is an example of a community-based watershed and wetland protection program.*

[www.wetland.org](http://www.wetland.org)

**Environmental Concern, Inc.**, established in 1972, is a Maryland based, non-profit organization that provides a variety of wetland services, including design consulting, construction, native wetland nursery plants, educational materials, professional courses, and horticultural research. *This site provides information useful for people working with on-the-ground restoration projects.*

[www.enveng.ufl.edu/wetlands/](http://www.enveng.ufl.edu/wetlands/)

**The Center for Wetlands** was founded in 1973 by H.T. Odum. His goal was to use the Center as a focal point for both basic ecological research on wetlands as well as their sustainable use in meeting environmental management needs in society. *This site provides access to several wetlands-related research publications.*

[www.wetlanded.com/](http://www.wetlanded.com/)

**Institute for Wetland and Environmental Education and Research** has trained environmental professionals for the last 7 years. The courses focus on developing and improving skills needed to excel in the environmental field. The website also provides an overview of basic wetland information and answers frequently asked questions. Course topics include plant identification, wetland regulations, wetland delineation, and wetland construction. *This site would be useful to environmental professionals seeking additional wetland training.*

[www.anr.state.vt.us/dec/waterq/wetlands.htm](http://www.anr.state.vt.us/dec/waterq/wetlands.htm)

**Vermont Department of Environmental Quality-Wetlands Homepage.** This site provides an overview of the programs conducted by the Vermont Wetlands

Office. It also contains some basic information on wetlands delineation and Vermont wetlands regulations. Links are available to other wetland resources. *This site provides information on the Vermont Wetlands Office and would be beneficial to anyone looking for wetland regulatory information.*

[www.buzzardsbay.org/wetlands.htm](http://www.buzzardsbay.org/wetlands.htm)

**The Buzzard's Bay Project Natural Estuary Program Wetland Protection Page** provides a wide range of information on the Buzzard's Bay Project in Massachusetts. Information includes specific steps planned to restore this estuary, constructed and restored wetland information, and program partnership information. *This site is a good example of a current large-scale estuary protection program.*

*Let us know about your restoration-related web site. Please send relevant URLs to [restorationupdate@tetrattech-ffx.com](mailto:restorationupdate@tetrattech-ffx.com).*

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## Information Resources

### ***A Driving Guide to Riparian and Wetland Restoration in Colorado***

Published by the Colorado Riparian Association, 2000

This guide was developed to highlight successful riparian and wetland restoration projects in Colorado and to provide a reference to projects that landowners and land managers can see firsthand. This 101- page guide features 46 projects, with two pages devoted to each project. It was written to be easy to read and contains minimal technical jargon. A grant from the U.S. Environmental Protection Agency allows the Guide to be purchased for \$6. For more information, visit the web site [www.coloradoriparian.org/DrivingGuide.html](http://www.coloradoriparian.org/DrivingGuide.html) or contact the Colorado Riparian Association, 2060 Broadway, Suite 230, Boulder, CO 80302. Attn: Gwen Kittel.

### ***Wetlands Outreach: Getting the Message Out - New Techniques and New Partners for the Millennium***

Published by the Association of State Wetland Managers, Inc., 2000

This report is a compilation of two days of discussion on wetland outreach among 45 wetland outreach professionals from around the country. Participants included representatives from state, federal, and local governments as well as nonprofit organizations. The report can be viewed in pdf format at [www.aswm.org/outreach.pdf](http://www.aswm.org/outreach.pdf) [Link no longer available, October 2003].

*If you'd like to publicize the availability of relevant information resources, please send information to [restorationupdate@tetrattech-ffx.com](mailto:restorationupdate@tetrattech-ffx.com).*