

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 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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- [Community-Based Restoration Partnerships](#) - This section highlights innovative community-based partnerships working to restore wetlands and river corridors.
- [Funding for Restoration Projects](#) - Here you'll find information pertaining to grants and other funding sources available to local watershed groups and other grassroots community organizations to implement restoration projects.
- [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

Secret Canyon Creek Is Revealed

The natural bed of Secret Canyon Creek had not seen the light of day for 60 years. In 1938, California transportation officials diverted Secret Canyon Creek through a culvert and filled in the canyon around it to provide a crossing for a road running between Redding and Central Valley, California. The natural creek environment was lost under approximately 10,000 cubic yards, or 1500 dump truck loads, of road fill.

In the Sulphur Creek Watershed Analysis of 1998, Sacramento Watersheds Action Group (SWAG) identified the road crossing at the creek as having a high likelihood of failure. If the crossing did fail, they estimated that about 4,000 cubic yards of sediment would flow from Secret Canyon Creek into Sulphur Creek and eventually into the Sacramento River. The sediment would degrade water quality and fish habitat and would lead to increased streambank erosion and sedimentation problems downstream.

SWAG decided to remove the road crossing and restore the creek before a failure could occur. To help fund the restoration project, SWAG collaborated with the Sulphur Creek Coordinated Management Planning Group, Shasta College, and the City of Redding to request grant funding from the Department of Water Resources (DWR), Urban Streams Restoration Program. The project was granted \$15,000 from the DWR to be matched with in-kind donations of labor and equipment from Shasta College and the City of Redding.

Shasta College implemented the initial portions of the restoration project as part of its watershed restoration practicum and heavy equipment operations classes. Students used several of the college's bulldozers and a hydraulic excavator to remove the fill from the excavated crossing and replace it on the slope from which it had been removed 60 years earlier. The excavation project took about 3 weeks, nearly twice as long as expected, because several large boulders complicated the fill removal process.

After the students finished grading the streambanks, they seeded the area with a native seed blend and covered the exposed soil with mulch. Students also made use of pine trees that had been growing in the fill dirt by removing tree limbs from the trunk and scattering them over the recently graded streambank. The limbs reduce raindrop erosion and provide wildlife cover while allowing natural process to decompose the brush leftover from the excavation work.

A community planting day brought out many Redding residents. Some 50 volunteers donated their time to plant native vegetation along the stream slopes. A few Shasta College classes and students from Sequoia Middle School joined community members to make the community planting day a success. After a winter of repairing small slumps and gullies, Shasta College students, Redding residents, and SWAG and the Sulphur Creek Coordinated Management Planning Group members can enjoy the fruits of their effort. Thanks to the contribution of \$15,000 from the DWR, and volunteer time from the community, 300 feet of stream channel have been transformed from a potential sedimentation problem to a stable tributary abounding with native vegetation. For more information, contact the Department of Water Resources, Urban Streams Restoration Program, 1416 Ninth Street, P.O. Box 942836, Sacramento, CA 94236. Information about the Urban Streams Grant visit the web site

<http://www.watershedrestoration.org/news/grants.htm>.

If you'd like your project to appear as our next Featured Article, e-mail a short description to restorationupdate@tetrattech-ffx.com.

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Five-Star Restoration Projects Update

The goal of EPA's Five-Star Restoration Program is to bring together citizen groups, corporations, youth conservation corps, students, landowners, and government agencies to undertake projects that restore streambanks and wetlands. The program provides challenge grants, technical support, and peer information exchange to enable community-based restoration projects. A few five-star restoration projects are being revisited to see if the modest amount of funding (between \$5,000 and \$20,000) has helped the local restoration partners achieve their goals.

Project Name: Little Linnville Wildlife Area Wetland Enhancement

Five Star Grant: \$10,000 (FY 2000)

Grant to: Phillips Petroleum Company

Location: Old Ocean, Texas

Project Description:

Phillips Petroleum Company will work with the Vernor Materials Company, the Sweeny and Wild Peach Independent School Districts, and others to enhance wetlands in the Little Linnville Wildlife Area on the site of the Sweeny Refinery. The project will provide feeding and resting areas for waterfowl and shorebirds and will serve as an outdoor classroom for use by local schools, community groups, and Phillips employees to enhance their environmental education. The school districts will develop an educational curriculum to be used during tours of the site.

Project Update:

In short, the wetland project will continue because the area will become part of Phillips Petroleum's "Corporate Lands for Learning" program. The original partners on this project will continue their involvement as needed. An educational curriculum was developed, but it is not available to the public at this time. Site visits are conducted only by appointment.

Project Name: Camp Tukabatchee Riparian Restoration

Five Star Grant: \$10,000 (FY 2000)

Grant to: Tukabatchee Area Council, Boy Scouts of America

Location: Prattville, Alabama

Project Description:

Sponsored by the Tukabatchee Area Council of the Boy Scouts of America, the Camp Tukabatchee Restoration Project is designed to incorporate the mission and teaching of the Boy Scout program into a long-term, active environmental management project. The project partners, which include the Alabama Department of Environmental Management, the Central Alabama Electric Cooperative, and others, will remove invasive exotics and restore native plant communities within the floodplain of the Bridge Creek watershed. They will also prepare a comprehensive management plan for the area, which will incorporate science-based natural resource management, as well as the cultural and educational goals of the Boy Scouts. Education materials will be developed to teach visitors about the functions and values of the riparian area.

Project Update:

The Camp Tukabatchee Restoration project has been very successful. Since the start of the project, the Tukabatchee Area Council has received enormous support from throughout the community. To date, the project has focused mainly on animal and plant management; future plans include broadening the studies to include erosion and timber management. The area most involved includes two camps for the Cub Scouts and Boy Scouts. The partnership developed a ½-mile educational trail between the two camps. At several spots along the trail, they have posted information about the riparian area, including habitat and historical information. The partnership submitted a comprehensive management plan but believes that more time is necessary to enhance their studies and develop a more extensive plan to better manage the different resources in the area. The partnership would also like to make the area more accommodating for public use in the future.

For more information EPA's Five-Star grant program, visit

<http://www.epa.gov/owow/wetlands/restore/5star>.

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Community-Based Restoration Partnerships

Bureau of Reclamation Assists with Partnerships to Restore Dakota Wetlands

Established in 1902, the Bureau of Reclamation first worked to develop water projects including dams and canals to promote the economic development of the western states. Today, the Reclamation is the largest water wholesaler in the country, providing water to 1 out of 5 western farmers. Reclamation helps the western states and Native American tribes balance the competing uses for water in the west.

Reclamation initiated the Wetland Program in 1991 to address the loss of wetlands on Reclamation project lands. Under the Wetland Program, Federal, state, and local agencies, universities, tribes, water development interests, irrigation districts, water conservancy districts, and conservation and environmental organizations can form cost sharing partnerships and apply for Wetland Program Grant Funding and receive technical assistance in planning, design, and wetland construction from the Bureau of Reclamation.

Since the creation of the Wetland Development Program, Reclamation has been involved in over 100 wetland restoration, enhancement, development, and research projects. Notable projects include:

- **Anita Reservoir** - A cooperative agreement between the Bureau of Land Management and Ducks Unlimited to develop a 300-acre open water and wetland complex for migratory waterfowl in the Prairie Potholes Joint Venture in northern Montana.
- **Caddo Lake Initiative** - Caddo Lake is a 30,000 acre complex of open water, cypress swamp, emergent wetland, and bottomland hardwood forest in northeastern Texas that was recently recognized as the 13th wetland in the United States to be placed on the List of "Wetlands of International Importance, Especially for Waterfowl" under the Ramsar Convention. The project includes ongoing research, wetland restoration, sustainable development, outreach, and ecosystem management activities.
- **Billings Lake Refuge** - A partnership between Reclamation and the U.S. Fish and Wildlife Service to create a 26-acre wetland to improve wildlife habitat and flood storage in the Devils Lake Basin.
- **Pueblo Reservoir Wetland Enhancement** - A cooperative agreement between the Colorado Division of Wildlife and Ducks Unlimited to enhance habitat values for migratory and resident wildlife at Pueblo Reservoir in Colorado. The partnership expanded an existing wetland to provide a diverse habitat types for resident wildlife.

For more information contact the Great Plains Regional Office, P.O. Box 36900, Billings, MT 59107, 406-247-7614 or visit the web site, <http://www.usbr.gov/gp/>.

Communities Work Together to Protect Ipswich Bay

Nine communities—Rockport, Gloucester, Essex, Ipswich, Rowley, Newbury, Newburyport, Salisbury, and Amesbury—have joined together to form Eight Towns and the Bay (8T&B) a coalition seeking to bring the local watershed issues in Ipswich Bay, Massachusetts, to the attention of state and federal agencies. The coalition is made up of educators, state and local officials, nonprofit organizations, and interested citizens who are concerned about protecting and restoring the area's coastal environment.

Of special concern to 8T&B is a 15,000-acre salt marsh known as the Great Marsh. The group recently undertook a project to reduce the impacts of road and rail crossings that restrict tidal flows to upstream marshes. Reduced tidal flows contribute to changes in plant species composition, flooding in storm conditions, excessive bank erosion, reduced wetland productivity, and diminished nutrient exchange. Working with the Parker River Clean Water Association (PRCWA), the two groups prepared a comprehensive report on tidal restrictions to the Great Marsh. The report identified more than 125 crossings, nearly half of which were determined to be too small to allow sufficient tidal flow. The report also recommended steps needed to improve tidal flow for some of the most restrictive crossings. As a result of the report, the groups implemented three tidal restoration projects — Gloucester (Long Wharf), Ipswich (Argilla Road), and Essex (Conomo Point Road). In the Long Wharf project, 8T&B committee member Dave Sargent spearheaded an effort to install a large box culvert that reintroduces tidal flow to portions of the Great Marsh, allowing native species to thrive and acting as a conduit for anadromous fish. To learn more about the work of 8T&B, visit the web site

http://www.mvpc.org/services_sec/mass_bays/8T&B.htm.

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.

Achieving Restoration Results

Wetland Loss Slowed in the Lake Ponchartrain Basin

Federal agencies have joined forces with the State of Louisiana to slow the loss of wetlands in the Lake Ponchartrain Basin located in southeastern Louisiana just north of the Mississippi River. The Lake Ponchartrain Basin, consists predominantly of three lakes—Maurepas, Ponchartrain, and Borgne that are separated by cypress swamp and fresh and intermediate marsh. The basin contains 483,390 acres of wetlands, consisting of freshwater marsh, intermediate marsh, brackish marsh, saline marsh, and cypress swamp. Since 1932 more than 22 percent of the existing marsh, more than 66,000 acres, has been converted to open water in the Ponchartrain Basin. The loss is primarily due to human activities that degrade the natural estuarine processes. The number one cause of marsh loss is the increased salinity caused primarily by the Mississippi

River levees, which significantly limit the input of fresh water, sediment, and nutrients into the basin. The second most serious cause of wetland loss is ship-induced waves that cause shoreline erosion at a rate of 15 feet per year. The third critical problem is the potential loss of the land bridges separating the Maurepas and Borgne lakes. Estuarine processes such as severe shoreline retreat and rapid tidal fluctuations have caused the loss of these highly erodible soils. To combat the rapid loss of wetland areas in the Lake Ponchartrain Basin, the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) has funded a number of shoreline and wetland restoration and projects. Five federal agencies—U.S. Army Corps of Engineers, U.S. Department of Agriculture Natural Resources Conservation Service, U.S. Department of Commerce National Marine Fisheries Service, U.S. Fish and Wildlife Service, and EPA—and the state of Louisiana are working together to implement restoration projects funded under CWPPRA. Restoration projects have included the use of dredged material to recreate wetland areas from open water areas, restored dikes to reduce shoreline erosion, regulated water levels with low lift pumps, and improved hydrologic conditions through culvert installation. The restoration efforts have created and protected close to 5000 acres of marsh areas. Additional restoration projects are planned to slow the loss of Louisiana's coastal marshes. To learn more about restoration efforts in the Lake Ponchartrain Basin, visit <http://www.lacoast.gov/cwppra/projects/pontchartrain>.

PSEG Shows Commitment to Estuary Enhancement in Northern New Jersey

Public Service Enterprise Group (PSEG) is a publicly traded diversified energy company that supplies gas and electricity to residential and business customers throughout New Jersey. As part of PSEG's commitment to environmental restoration, the company created the Estuary Enhancement Program (EEP). The focus of the EEP is the restoration, enhancement, and preservation of more than 20,000 acres of degraded coastal wetlands along the Delaware Estuary in New Jersey and Delaware. These wetlands are essential to the ecology of the area, providing nursery, food, shelter, and habitat for fish and wildlife.

The EEP is working to restore wetlands at eight sites in New Jersey and Delaware. Over the past 100 years, area farmers drained many of the sites and installed dikes to control tidal waters and make way for salt hay farming. Restoration efforts have included restoring tidal flow to drained and diked wetlands, controlling the invasive species Phragmites, and restoring native wetland vegetation and wildlife.

PSEG has experienced success in its restoration efforts. The restored tidal flow has allowed fish, shellfish, and other aquatic life to once again inhabit the coastal wetlands. Other wildlife, including many species of birds and other animals, have also taken refuge in the restored areas. To learn more about the EEP and the wetland sites restored by PSEG, visit the

www.pseg.com/companies/nuclear/estuary/.

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.

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Funding for Restoration Projects

New Listings:

Nutrient Fate and Transport Through a Watershed

A collaborative, interagency effort between the Cooperative State Research, Education, and Extension Service (CSREES) of the U.S. Department of Agriculture and the National Center for Environmental Research (NCER) of the U.S. Environmental Protection Agency is accepting proposals for the Nutrient Science for Improved Watershed Management Program. Approximately \$7 million is anticipated to be available for fiscal year 2002. Proposals should integrate research and extension activities aimed at addressing nutrient management issues at the watershed scale. CSREES and NCER are also soliciting input from interested parties regarding the Nutrient Science for Improved Watershed Management Program to use in the development of future requests for proposals. The deadline for the receipt of proposals is November 6, 2001. To read the full request for proposals, visit http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=2001_register&docid=01-19831-filed.

Wildlife Conservation and Restoration Program Provides Funds for Conservation Efforts

The U.S. Fish and Wildlife Service has announced that all 50 states, the District of Columbia, and five territories are now eligible to take part in the new Wildlife Conservation and Restoration Program. This is a new grants program established by Congress through Title IX of the Commerce, Justice and State Appropriations Act. Under the act, \$50 million in grant money is available to states and territories for programs that benefit wildlife conservation, education, and wildlife-associated recreation projects. To be eligible for grant money, states and territories must present their wildlife conservation plans to the Service. The Service's announcement confirms that all states and territories have successfully presented their conservation plans. The funding will be distributed according to a formula that incorporates the state's or territory's land mass and population size in relation to the remaining states and territories. For additional information, visit <http://news.fws.gov/newsreleases/display.cfm?NewsID=969AF47A-C813-4604-AA4D4C392E15F380>

Listings with Upcoming Deadlines:

Chesapeake Bay Trust Pioneer Proposal Program

The Chesapeake Bay Trust (CBT) is accepting grant proposals to fund techniques and programs that develop innovative approaches to Chesapeake Bay protection and restoration. CBT may fund up to \$10,000 for each successful pioneer proposal. Concept letters are due by September 21, 2001. To be eligible, programs must involve the Chesapeake Bay and its tributaries. For more details, visit the web site <http://www.chesapeakebaytrust.org/grantprograms.html>.

California State Parks Habitat Conservation Fund

The California State Parks Habitat Conservation Fund has grants available to cities, counties, and districts for habitat conservation projects including

- Habitat for rare and endangered, threatened, or fully protected species
- Wetlands
- Aquatic habitat for spawning and rearing of anadromous salmonids and trout resources
- Riparian habitat

Funding for this program is approximately \$2 million, with most grants consisting of about \$100,000. Each program requires a dollar-for-dollar match. Applications are due October 1. For more information visit http://www.parks.ca.gov/default.asp?page_id=21361 or e-mail: localservices@parks.ca.gov or call 916-653-7423.

Please send any news you have on funding mechanisms available to local community organizations to restorationupdate@tetratex.com.

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News and Announcements

Conservation Reserve Enhancement Program Agreement Signed at the Iowa State Fair

Iowa signed a Conservation Reserve Enhancement Program (CREP) agreement with the U.S. Department of Agriculture (USDA) during a ceremony at the Iowa State Fair on August 17, 2001. Iowa CREP is a local, state, federal, and private partnership to provide incentives to landowners to voluntarily establish wetlands for water quality improvement. The program is designed to reduce the movement of nitrate and other agricultural chemicals from croplands to streams and rivers. In addition, the wetlands established will provide wildlife habitat and recreational opportunities. This 10-year, \$89 million dollar program will help establish wetlands as a common conservation buffer alternative.

Restoring Wetlands Means Requires More Than Just Adding Water

Wetlands lost to agricultural development can be reflooded with relative ease, but they will not regain their former flora and fauna without a huge effort, shows research at the University of Minnesota. Susan Galatowitsch, an associate professor of horticulture, and John Mulhouse, an assistant scientist in applied ecology, conducted an extensive study on prairie potholes in Minnesota, South Dakota, and Iowa and found that restored prairie potholes were quickly

colonized by waterfowl-dispersed plants but were slow to acquire a diverse plant community resembling the original wetlands. The difficulty in establishing a diverse plant community will increase the estimated cost of restoring prairie potholes to resemble original wetlands.

Louisiana Unites to Support Coastal Restoration

The Louisiana Governor's Coastal Summit 2001: Reaching to the Future provided an opportunity for business, industry, governmental leaders, university scientists, and other persons concerned about coastal wetlands loss in Louisiana to join in discussing the next steps for Louisiana's Coastal restoration. The highlight of the day-long summit included a speech by Louisiana Governor Mike Foster, in which he committed to raising the importance of coastal restoration during the last 2.5 years of his administration. Foster plans to announce a commission to obtain funding for Louisiana similar to the Commission of South Florida, which was instrumental in getting \$8 billion in funding for the Everglades restoration project. Prominent Louisiana businessman and president of Whitney National Bank, King Milling, emphasized the need for the involvement of the private sector in the coastal restoration effort. To end the day, Terry Ryder, the Governor's Deputy Chief of Staff, reviewed Louisiana's future plans to restore coastal wetlands. Speakers throughout the day emphasized efforts by the state to demonstrate leadership and commitment to protecting and restoring Louisiana's coastal resources. For more information about Coastal Summit 2001, visit www.aswm.org/010903a.htm [Link no longer available, October 2003].

USFWS Proposes Guidelines for Coastal Wetlands Conservation Grant Program

The U.S. Fish and Wildlife Service has developed a scoring process to facilitate the awarding of the National Coastal Wetlands Conservation Grant Program. All grants are awarded through a competitive process, and the new scoring process encourages cooperative efforts. The scoring process is designed to improve the efficiency of the program and is expected to be implemented in the fiscal year 2003 grant cycle, which begins in March 2002. For the complete press release, visit <http://news.fws.gov/newsreleases/display.cfm?NewsID=94182753-6F84-46A1-BF41AC3740B5D695>

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Upcoming Conferences and Events:

NEW LISTINGS:

Stream and Floodplain Restoration

September 24–25, 2001

Albany, New York

This 2-day workshop presented by the Association of State Floodplain Managers emphasizes the practical aspects of stream restoration as a strategy to meet the concerns of professionals who address flood, habitat, water quality, biological diversity, and erosion concerns as part of their jobs. The first day of the workshop will provide background on stream management and restoration efforts and an overview of restoration engineering, fluvial geomorphology and aquatic ecosystems, and the relationship between storm water management and stream morphology. The second day will include a discussion of the concepts and methods for designing stream restoration projects, review recent cases of innovative stream management, and tour local stream sites. For more information, visit www.floods.org/.

Wetland Conservation and Sustainability Workshop

October 18, 2001

Sioux Falls, South Dakota

The Sioux Falls Chapter of the Izaak Walton League and the League's national office is sponsoring this workshop to discuss wetland ecology, functions and values, and stewardship. Participants will learn about wetland regulations and policies and examine wetland plants, soils, hydrology and wildlife in the field. Anyone who encounters wetlands in their work or free time, including volunteers, non-profit organizations, developers, landowners, farmers, students, teachers, government agency personnel, consultants, and business professionals may attend. The registration fee, which includes lunch, light breakfast, workshop materials, and a copy of the Handbook for Wetlands Conservation and Sustainability is only \$15. To register, or for more information, contact Roger Parham at 605-332-6409.

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 or visit www.nwrc.nbs.gov/releases/pr01_076.htm.

Estuarine Research Federation 2001: An Estuarine Odyssey

November 4–8, 2001

Saint Pete Beach, Florida

The Estuarine Research Federation (ERF) is an international organization whose purpose is to promote research in estuarine and coastal waters, facilitate communication between members of affiliated societies, and provide advice in matters concerning estuaries and the coastal zone. The ERF is hosting a 5-day conference that will address estuarine change detection, estuarine health measurement, temperate/tropical comparisons, marine restoration/conservation, essential fish habitat, technological applications of estuarine science, estuarine processes modeling, and ecological impacts of invasive species and disease. For registration materials, visit www.erf.org.

PREVIOUS LISTINGS:

8th Annual Virginia Watershed Management Conference

September 26–28, 2001

Virginia Beach, Virginia

This conference will challenge participants to define and implement more innovative conservation solutions and will provide resources, case studies, and success stories about community engagement in watershed protection, storm water and urban issues, sustainable land use, environmental education, riparian restoration, low-impact development, and Total Maximum Daily Loads. This conference is geared toward officials, developers, consultants, local government representative, soil and water conservation district directors, and members of nonprofit organizations.

For more information, visit www.dcr.state.va.us/watershed/index.htm or call the Virginia Department of Conservation and Recreation at (757) 925-2468. Scholarships are available for citizens and representatives of nonprofit organizations.

11th International Conference on Aquatic Invasive Species

October 1–4, 2001

Alexandria, Virginia

The U.S. Army Engineer Research and Development Center is the host sponsor of the 11th International Conference on Aquatic Invasive Species. This 4-day conference will include the review of accumulated scientific knowledge; presentation of the latest field research; introduction of new technological developments for prevention, monitoring, control, and mitigation; and discussion of policy, legislation, public education, and outreach initiatives related to aquatic invasive species. For more information on the conference, visit the web site www.aquatic-invasive-species-conference.org or e-mail the conference administrator at profedge@renc.igs.net.

The Society for Ecological Restoration 13th Annual International Conference: Restoration Without Borders

October 4–6, 2001

Niagara Falls, Ontario, Canada

The Society for Ecological Restoration will host its annual conference on restoration issues that have worldwide applications. Topics addressed in the conference will include restoration and recovery in the Great Lakes, restoration issues on private and public lands, partnerships in restoration, invasive species control, and river and riparian restoration. For more information, contact ser201@niagarac.on.ca or call (905) 641-2252 x4473 and ask for Al.

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Restoration-Related Web Sites

www.aquaticinvaders.org

National Aquatic Nuisance Species Clearinghouse, an international library of research, public policy, and outreach education publications pertaining to invasive species in North America, has unveiled a new and enhanced web site. New features include expanded search capabilities, a shopping cart to order interlibrary loan copies of papers, and an expanded links page. *This site provide access to a wealth of scientific studies and reports about invasive fish, mollusks, crustaceans, invertebrates, and birds.*

www.ctic.purdue.edu/KYW/Brochures/Wetlands.html

Wetlands Information Network: Know Your Watershed is a campaign coordinated by the Conservation Technology Information Center, a nonprofit public/private partnership dedicated to the advancement of environmentally beneficial and economically viable natural resource systems. *This site provides a wide variety of general background information on wetlands, including the benefits and uses of wetlands, different types of wetlands, reasons to restore wetlands, and methods for restoring wetlands.*

www.wiscwetlands.org/

Wisconsin Wetlands Association(WWA) is a statewide, science-based education, training, and research organization dedicated to the protection, restoration, and enjoyment of Wisconsin's wetlands. WWA is the only statewide organization focused exclusively on wetland protection. The approximately 700 members include wetland scientists and educators, conservationists, outdoor enthusiasts, concerned citizens, and local and regional organizations. *This page provides a useful summary of Wisconsin's wetland protection legislation, as well as links to wetland restoration literature and web sites.*

www.savesfbay.org

Save San Francisco Bay is a project sponsored by a partnership between Restore America's Estuaries and the National Oceanic and Atmospheric Administration. Save the Bay seeks to preserve, restore and protect the San Francisco Bay and Sacramento/San Joaquin Delta Estuary as a healthy and biologically diverse ecosystem essential to the well-being of the human and natural communities it sustains. *This site contains information on the need for wetlands protection and provides information on the methods Save the Bay is using to protect the San Francisco Bay.*

<http://watershedcouncil.org/>

Tip of the Mitt Watershed Council is a group of citizens, lake associations, businesses, and resort visitors working protect the waters of northern Michigan. The Council seeks to maintain the environmental integrity and economic and aesthetic values of the lakes, streams, wetlands, and ground water of northern Michigan. *The council provides water quality analysis and modeling, technical*

and consultation services, and conservation and resource planning to Antrim, Charlevoix, Cheboygan, and Emmet counties in Northern Michigan.

www.hort.agri.umn.edu/h5015/rrr.htm

Restoration and Reclamation Review. This site provides a listing of on-line student journals from the University of Minnesota, St. Paul, with restoration/reclamation-related articles from 1996 through 2000. *This site is useful for anyone seeking journal articles on large-scale restorations; agricultural, urban, and residential landscapes; drastically altered land; and environments with low resiliency.*

<http://mangrove.org>

Mangrove Replenishment Initiative provides technology, fosters education, and encourages proactive mangrove replenishment for the purpose of promoting biodiversity, creating habitat, mitigating the effects of pollution, curbing shoreline erosion, and improving the water quality of estuaries. *This site provides useful technical information about the replenishment of mangrove habitat.*

www.rollanet.org/~streams

Missouri Stream Team. Missouri's Stream Team program is an opportunity for residents near the Missouri River to get involved in river and stream conservation. Stream Team volunteers monitor water quality, conduct stream cleanups and restoration projects, and teach the public on how to better preserve our streams. *This site provides practical information for Missouri Stream Team members as well as those wishing to get involved in the Stream Team program.*

www.wildlifehc.org

The Wildlife Habitat Council. The Wildlife Habitat Council (WHC) is a nonprofit group of corporations, conservation organizations, and individuals dedicated to protecting and enhancing wildlife habitat. Created in 1988, WHC helps large landowners, particularly corporations, manage their unused lands in an ecologically sensitive manner for the benefit of wildlife. *This site provides opportunities for corporations to use their land in an ecologically sensitive manner, as well as opportunities for interested people to become involved in wildlife monitoring, remediation, and waterway projects.*

Let us know about your restoration-related web site. Please send relevant URLs to restorationupdate@tetrattech-ffx.com.

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Information Resources

2000 Progress Report: Restoring and Maintaining Riparian Ecosystem Integrity in Arid Watersheds: Meeting the Challenge through Science and Policy Analysis

Published by EPA's National Center for Environmental Research

The project discussed brings together experts from a broad range of disciplines—hydrology, ecology, economics, and law—involved in the restoration of riparian areas in the arid western United States. The objective is to further community-based environmental protection by

integrating hydrologic models, a riparian ecosystem integrity index, and economic analyses into a user-friendly decision support system (DSS). The project actively clarifying the hydrologic, ecological, economic, and legal characteristics of two endangered arid watersheds—the South Fork of the Kern River in California and the San Pedro River in Arizona—to construct a comprehensive DSS. For more information, visit

<http://es.epa.gov/ncer/progress/grants/98/water/maddock00.html>

An Aquatic Plant Identification Manual for Washington's Freshwater Plants

Published by the Washington State Department of Ecology

This manual, designed for field identification of freshwater aquatic plants, contains descriptions of more than 100 species. The manual provides useful field identification characteristics, relying on line drawings and informative color photographs to illustrate the plants at hand. Order copies from the Washington State Department of Printing at 360-753-6820 or visit their web site

<http://waprt.bizland.com/store/index.html>.

Putting It Back Together: Making Ecosystem Restoration Work

Published by Save San Francisco Bay Association

This report examines six large-scale ecosystem restoration projects across the nation and offers guidelines for restoration efforts in the San Francisco Bay-Delta region. The six projects studied are in the Columbia River, the Everglades, the Great Lakes, the Chesapeake Bay, the Upper Colorado River Basin, and the Delaware River Basin. Copies of the publication can be downloaded from the web site www.savesfbay.org/putting.html.

If you'd like to publicize the availability of relevant information resources, please send information to restorationupdate@tetrattech-ffx.com.