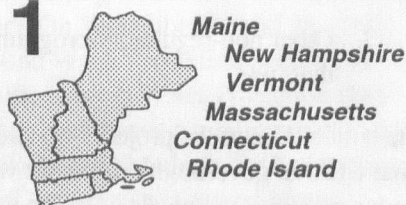


# The Water Monitor

## REGIONAL AND STATE ACTIVITIES

### Region 1



#### Regional Coordinators

**Monitoring, 305(b), Volunteer Monitoring:** Diane Switzer (617) 860-4377

**Waterbody System:** Tim Bridges (617) 860-4603

**303(d)/TMDL:** David Pincumbe (617) 565-3544

**Nonpoint Source:** Bob Moorehouse (617) 565-3513

**Clean Lakes:** Warren Howard (617) 565-3515

**MASSACHUSETTS: Site-Specific Criteria for Metals Under Development:** The Massachusetts Office of Watershed Management (OWM), in cooperation with the EPA Region 1 Environmental Services Division, is in the process of field testing protocols for the development of site-specific criteria for metals. The protocols roughly follow those outlined in a draft document recently released for comment by the EPA Duluth Laboratory on the determination and use of water effect ratios in generating site-specific metals.

Fathead minnows and ceriodaphnids are used to evaluate the acute toxicity of a specific metal in river

#### What's Inside . . .

Headquarters Activities.....	p. 7
On the Bookshelf.....	p. 8
Calendar Highlights.....	p. 10
Order and Comment Form.....	p. 12

water samples and in reconstituted laboratory water of similar hardness to the river water. The ratio of river water to lab water LC50s (the acute water effect ratio) provides an estimate of the river water's potential to alter the toxicity of the metal being evaluated. Information obtained from a number of these studies will be used to fine-tune existing test protocols, provide a method of developing permit limits, and generate a site-specific criterion for copper in the mainstem Blackstone River, which flows through central Massachusetts. A companion project to characterize organic-metal complexes and their relationship with toxicity is being conducted by the U.S. Geological Survey (USGS) office in Marlborough, MA, in cooperation with OWM and EPA. For more information, contact Gerald Szal (OWM) at (508) 792-7470, Peter Nolan (EPA) at (617) 860-4848, or John Colman (USGS) at (508) 490-5027.

### Region 2



#### Regional Coordinators

**Monitoring:** Randy Braun (908) 321-6692

**305(b), Waterbody System:** Xuan-Mai Tran (212) 264-3188

**Volunteer Monitoring:** Regina Harrison (908) 321-6807

**303(d)/TMDL:** Rosella O'Connor (212) 264-8479

**Nonpoint Source:** Mack Henning (212) 264-2059

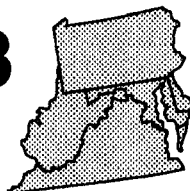
**Clean Lakes:** Terry Faber (212) 264-8708

**NEW YORK: Macroinvertebrate Sampling Techniques Demonstrated:** In September, entomologists from the Water Division of the New York Department of Environmental Conservation (NYDEC) demonstrated macroinvertebrate field

sampling techniques for the New York City Department of Environmental Protection staff. Analytical protocols were also reviewed at a later laboratory program. The city is investigating the benefits of biomonitoring as an element of its ambient monitoring of tributaries within its water supply watershed. For more information, contact Peter Mack at (518) 457-3495.

**National Sediment Inventory:** The NYDEC's Monitoring and Assessment Bureau has recommended to USEPA's Office of Science and Technology that the National Sediment Inventory be divided into two parts: a "confirmed" and a "provisional" list of sites. As planned, the "confirmed" list would consist of contaminated sediment sites identified based on hard data in EPA files (e.g., STORET). The "provisional" list would include those waters identified by softer data such as hazardous waste site studies. The NYDEC feels that this proposal would permit a more complete inventory of the contaminated sediment problem while ensuring the validity of the "confirmed" list. For more information, contact Peter Mack at (518) 457-3495.

## Region 3



Delaware  
Pennsylvania  
Maryland  
Virginia  
West Virginia

### Regional Coordinators

**Monitoring, Volunteer Monitoring:** *Chuck Kanetsky*  
(215) 597-8176

**305(b), Waterbody System:** *Margaret Passmore*  
(215) 597-6149

**303(d)/TMDL:** *Thomas Henry* (215) 597-8243

**Nonpoint Source, Clean Lakes:** *Hank Zygmunt*  
(215) 597-3429

**REGIONAL OFFICE: Great Lakes Pilot Project on Toxics Reduction:** On September 28, 1993, state, environmental, industrial, and municipal representatives held a meeting to discuss approaches to achieving "virtual elimination" of toxic substances in the Great Lakes (as defined by the 1987 Great Lakes Water

Quality Agreement with Canada). The group is considering a pilot pollution prevention project to include four chemicals or groups of chemicals: mercury, PCBs, a pesticide, and a chlorinated organic chemical. The first phase of the study will be information gathering on the following topics:

1. Ongoing activities that use/release the selected chemicals in the Region.
2. State/federal regulations that affect their use.
3. Other non-regulatory programs that affect their use.

The bottom line of the project is to attempt to determine whether government can work with the users/producers of the chemicals to lessen the amounts that enter the Great Lakes. For more information, contact Chuck Sapp at (215) 597-9096.

**Crum/Ridley Volunteer Water Monitoring Program:** On September 27, 1993, Peter Weber of the Ground Water Protection Section chaired the quarterly meeting of the Crum/Ridley Volunteer Water Monitoring Program. The guest speaker was Preston Luitweiler of the Philadelphia Suburban Water Company, whose service area includes two reservoirs on the Crum River. Area citizens and the company have

### Region 3 Clean Lakes Coordinators Meeting

The Clean Lakes Coordinators from states in Region 3 met with the EPA Clean Lakes Team in Philadelphia on September 29 to address issues associated with Lake projects and to set the direction of the Clean Lakes Program for the next two years. The group discussed key ingredients of effective watershed projects, program integration opportunities and barriers, the grant process with schedules for FY 1994 and 1995, and grant close out procedures. The coordinators also discussed effective project management and offered creative suggestions on how to get projects started and keep them on schedule. For more information, contact Teena Reichgott at (215) 597-3364.

formed a partnership; volunteers perform screening-level sampling throughout the two watersheds, and the company provides tours of its laboratory, assists in calibrating monitoring equipment, provides some analytical help, and suggests research projects for students affiliated with the volunteer program. The volunteer monitoring program's new Research Advisor was also introduced at the meeting. For more information, contact Peter Weber at (215) 597-4283.

**Workshop on Estimating Ground Water Discharge to Surface Water:** On September 27 and 28, 1993, the Region 3 Ground Water Protection Section, in cooperation with the Ground Water Protection Division at Headquarters, sponsored a training workshop for state personnel entitled "Methods for Estimating Nonpoint Source-Contaminated Ground Water Discharge to Surface Water." About 50 people attended, with representation from each of the Region 3 states and New Jersey.

Attendees included managers in the state nonpoint source programs, NPDES permit writers, and hydrogeologists with the ground-water programs. They were introduced to two "first-tier" screening-level approaches to estimating ground-water discharge to surface waters, as well as resulting ground-water contaminant loading estimates. For more information, contact Sumner Crosby at (215) 597-3424.

## Region 4



### Regional Coordinators

**Monitoring, 305(b), Waterbody System:** *Larinda Tervelt* (404) 347-2126

**303(d)/TMDL:** *Jim Greenfield* (404) 347-2126

**Volunteer Monitoring:** *Virginia Buff* (404) 347-2126 and *Connie Alexander* (404) 347-1740

**Nonpoint Source:** *Mary Ann Gerber* (404) 347-2126

**Clean Lakes:** *Howard Marshall* (404) 347-2126

**FLORIDA: State Departments Merge:** The Florida Department of Environmental Regulation has merged

with the Florida Department of Natural Resources to form the Florida Department of Environmental Protection (DEP).

**Surface Water Ambient Monitoring:** The Florida DEP and a number of groups involved in conducting ambient surface water monitoring throughout the state have been holding regional and statewide meetings to discuss monitoring and data storage improvements. Participants representing federal, state, county, and city agencies, universities, volunteer groups, and private consulting firms explored the possibility of forming a multi-agency statewide Surface Water Ambient Monitoring Program (SWAMP) network and storing all water quality data in the EPA Storage and Retrieval System (STORET). This would provide for much more accurate surface water quality reporting.

Colorado State University staff are reviewing the results of these meetings and will provide a final report for DEP use in developing and refining the SWAMP program. For more information, contact Jim Hulbert at (407) 894-7355.

**Volusia County Citizen Monitoring:** The Volusia County Environmental Management Department has prepared a Citizen Monitoring Training Manual as part of a citizen monitoring education program. The program is part of ongoing activities of the Halifax and Indian River Task Force and the Volusia County Enviro-Net Volunteers. This education program, which includes a training curriculum, training materials, data input training, and a newsletter, was funded by EPA under a Near Coastal Waters Program Cooperative Agreement. For more information, contact Hudson Slay at (404) 347-1740.

**GEORGIA: Walking the Watershed:** Alpharetta Environmental Services and Alpharetta Clean and Beautiful designed another special program in their Earth Wise Series called "Walking the Watershed - A Big Creek Expedition," held October 1, 1993. This initiative was planned to educate many different groups about water quality and wetlands impacts in the Big Creek Watershed and to emphasize the important responsibility of every individual in watershed management. For more information, contact Dee West at (404) 442-9057 or (404) 587-4413.

## Region 5



### Regional Coordinators

**Monitoring, 305(b):** Donna Williams (312) 353-6175

**303(d)/TMDL:** Robert Pepin (312) 886-1505

**Waterbody System:** Fouad Dababneh (312) 353-3944

**Volunteer Monitoring:** Donna Williams (312) 353-6175  
and Tom Davenport (312) 886-0209

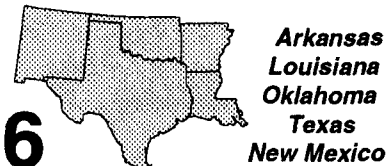
**Nonpoint Source, Clean Lakes:** Tom Davenport  
(312) 886-0209

**OHIO: Ohio Scenic Rivers Program's Stream Quality Monitoring Project:** In 1982, the Ohio Department of Natural Resources, Division of Natural Areas and Preserves initiated a volunteer stream quality monitoring project. The concept behind the project was to involve local schools, citizen groups, conservation organizations, and individuals in a program designed to provide basic environmental education about the value of Ohio's designated state scenic rivers. In addition, participants in the project would collect valuable stream health information.

Currently, 125 stations are monitored each year on Ohio's designated scenic rivers. Macroinvertebrate data and site assessments are entered into a computer database at the Ohio Scenic Rivers Program and annual reports are generated for use by volunteers, the Scenic Rivers Program, and the Ohio EPA. The project has been so successful that about 20 local Soil and Water Districts have become interested in conducting their own stream monitoring projects with local groups on nondesignated rivers in their areas. The project has been emulated by several other states and organizations.

For a Stream Quality Monitoring booklet write to:  
Ohio Department of Natural Resources, Division of  
Natural Areas and Preserves, Scenic Rivers Pro-  
gram, 1889 Fountain Square, Columbus, OH 43224.

## Region 6



### Regional Coordinators

**Monitoring:** Charlie Howell (214) 655-8354

**303(d)/TMDL:** Troy Hill (214) 655-6647

**305(b):** Russell Nelson (214) 655-6646

**Waterbody System:** Paul Koska (214) 655-8357

**Volunteer Monitoring:** Mike Bira (214) 655-6668 and  
Paul Koska (214) 655-8357

**Nonpoint Source:** Brad Lamb (214) 655-7140

**Clean Lakes:** Mike Bira (214) 655-6668

No material was submitted for October.

## Region 7



### Regional Coordinators

**Monitoring:** Jerry Anderson (913) 551-5066

**305(b), 303(d)/TMDL:** John Houlihan (913) 551-7432

**Waterbody System:** Jerome Pitt (913) 551-7766

**Volunteer Monitoring:** Jerome Pitt (913) 551-7766 and  
Donna Sefton (913) 551-7500

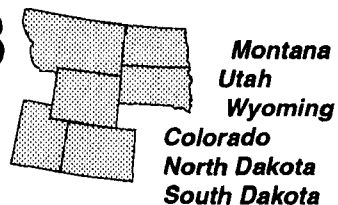
**Nonpoint Source:** Julie Elfving (913) 551-7475

**Clean Lakes:** Larry Sheridan (913) 551-7439

**REGIONAL OFFICE: Interagency Effort to Address Metal Speciation and In-Stream Impacts:** Staff from EPA Region 7 engaged in a cooperative effort with staff from the U.S. Fish and Wildlife's National Fisheries Contaminant Research Center (NFCRC) to gather biological and chemical stream data addressing metal speciation and in-stream impacts. The stream site is in southeast Missouri and receives wastewater from a lead smelter as well as drainage from an abandoned lead-zinc mine. NFCRC collected fish for specific analysis for metal impacts including blood and whole fish.

Subsequently, Region 7 gathered water column and sediment data to address metal speciation and bioavailability of toxic metals (Pb, Cd, Zn). The biological and chemical data will be incorporated into a water quality modeling effort to address relationships between toxic metal species and biological indicator data. For more information, contact Jerry Pitt at (913) 551-7766.

## Region 8



### Regional Coordinators

**Monitoring, 305(b):** *Phil Johnson (303) 293-1581*

**303(d)/TMDL:** *Bruce Zander (303) 293-1580*

**Waterbody System:** *Toney Ott (303) 293-1573*

**Volunteer Monitoring:** *Paul McIver (303) 293-1552 and Phil Johnson (303) 293-1573*

**Nonpoint Source:** *Carol Russell (303) 293-1449*

**Clean Lakes:** *Dave Rathke (303) 293-1703*

### REGIONAL OFFICE: Flood Monitoring in

**Region 8:** The Regional Office is working with its states to address the problems caused by the Midwest flood of 1993. Both North and South Dakota have been addressing the tremendous economic and environmental damage caused by the flooding. In North Dakota, the flood affected the Missouri River, including the James River basin, the Red River basin, and the Devils Lake basin. South Dakota has identified three major watersheds that suffered substantial impacts—the Big Sioux River, the James River, and the Vermillion River. The effects may be felt for years to come. Severe flooding is expected in the spring of 1994 due to saturated conditions in most of the flooded river basins in the states.

In an effort to characterize some of the short- and long-term effects of the flood, the states are preparing a list of projects to be funded through EPA's 1993 Emergency Supplemental Appropriation for Flood Assistance. A substantial portion of the monies will be used for monitoring activities to evaluate ambient water quality conditions and trends for both surface and ground-water resources. Spe-

cific parameters monitored will depend on factors such as the degree of damage to water and wastewater treatment facilities and land use patterns in the affected areas. However, pesticide residues and wastewater-related parameters will be the primary focus of the investigations. The Region is working closely with affected states and Headquarters to ensure that monies are directed to the highest-priority areas. Similar assessments are also being conducted in tribal lands affected by the flooding in the Yankton Sioux, Cheyenne River Sioux, Devils Lake Sioux, and Lake Traverse Sioux reservations. For more information, contact Rick Claggett, Chief, Watershed Section, Region 8, at (303) 293-1572.

## Region 9



### Regional Coordinators

**Monitoring, 305(b), Waterbody System:** *Chris Faulkner (415) 744-2012*

**303(d)/TMDL:** *David Smith (415) 744-2019*

**Volunteer Monitoring:** *Clarice Olson (415) 744-1489 and Chris Faulkner (415) 744-2012*

**Nonpoint Source:** *Jovita E. Pajarillo (415) 744-2011*

**Clean Lakes:** *Wendell Smith (415) 744-2018*

### CALIFORNIA: California's Section 305(b)

**Water Quality Assessment Report:** On September 29, 1993, California's State Water Resources Control Board held a meeting with EPA Region 9 and the state regional boards to discuss monitoring and water quality assessments. California committed to converting from its state water quality assess-

*The Water Monitor* is produced monthly to exchange surface water assessment information among states and other interested parties. If you would like more information or want to be added to the mailing list, please fill out the order and comment form on page 12.

ment tracking system to the Section 305(b) Waterbody System (WBS). EPA's WBS contractor will work on Reach Indexing California's waterbodies to the Reach File 3 locational database. In addition, EPA Headquarters hopes to support a WBS data entry workshop for California's regional board staff in the winter of 1994. For more information, contact Chris Faulkner at (415) 744-2012.

**Biological Monitoring:** State field staff and the Campo Band of the Kumeyaay tribe near the town of Zareas will hold a workshop this winter in support of the biological monitoring program. The purpose of this workshop is to adapt the Rapid Bioassessment Protocols for Streams to ecoregions within California. For more information, contact Chris Faulkner at (415) 744-2012.

## Region 10



### Regional Coordinators

**Monitoring, Waterbody System:** *Gretchen Hayslip* (206) 553-1685

**305(b):** *Donna Walsh* (206) 553-1754

**303(d)/TMDL:** *Bruce Cleland* (206) 553-2600

**Volunteer Monitoring:** *Susan Handley* (206) 553-1287

**Nonpoint Source:** *Elbert Moore* (206) 553-4181

**Clean Lakes:** *Judith Leckrone* (206) 553-6911

**WASHINGTON: Willapa Bay Watershed - State, Federal, and Local Efforts to Find Solutions:** The Washington Department of Ecology (Ecology) recently published a report, funded largely by EPA Region 10, Near Coastal Waters Program, entitled *Willapa Bay Watershed Bacterial Evaluation and Preliminary Control Strategy*. The purpose of this report is to evaluate the bacterial problem in Willapa Bay, Washington, and to recommend an effective watershed control strategy. Washington State is the Nation's leading shellfish supplier, and the Willapa Bay shellfish industry produces over 50 percent of the shellfish harvested in the state. The past two

**The Water Monitor** is always looking for information on upcoming conferences or recent monitoring-related publications. If you have information you'd like us to include, send an announcement (you can use the form on p. 12) to Alice Mayo, Editor, The Water Monitor, USEPA (4503), 401 M St. SW, Washington, DC 20460 or fax it to her at (202) 260-7024. Include the following information:

**For upcoming conferences:**

Date, name of conference, location, and contact for more information and registration.



**For recent publications:** Title, issue (if relevant), brief description, number of pages, and contact for readers who would like more information or a copy.

Don't forget to include your name and phone number in case we have to get back to you. The deadline for submittal is the first week of each month.

305(b) water quality reports have identified Willapa Bay and the Willapa River (below river mile 18.2) as "water quality limited" due to fecal coliform violations. The Willapa Bay watershed encompasses 1,100 square miles (primarily in Pacific County) in southwest Washington State.

Pacific County government agencies and citizens have been active in water resource management and planning since 1972 and have created the Willapa Bay Water Resource Coordinating Council (WBWRCC). The WBWRCC is a 17-member advisory body to the county commission with representatives from agriculture, aquaculture, city government, Native American tribes, commercial fisheries, development, education, industry, forestry, recreation,



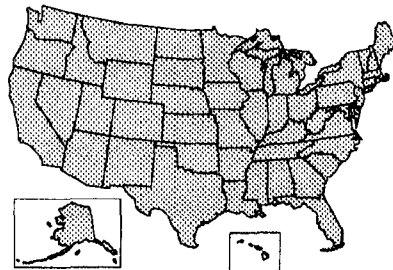
and concerned citizens. It is charged with addressing and implementing water resource policy, coordinating multi-agency activities, and providing a public forum to discuss and solve local water resource problems. Through the WBWRCC, the Pacific Conservation District and Pacific County government agencies have made great strides in educating and involving those who are immediately affected by water quality control measures and management practices. It is evident that a control strategy for a basin as large as Willapa will need the resources and active participation of state and federal regulators, as well as local governments and citizen groups.

Some recommendations of this report include:

- Bring together state, federal, and local governments and citizens to develop a clear and concise strategy to fulfill the primary goal of controlling bacterial contamination in the watershed;
- Ensure that education and outreach are included in the strategy to encourage citizen support, keep citizens and local groups aware of control strategy actions and plans, encourage voluntary compliance with best management practices, and foster local stewardship and individual awareness;
- Establish a long-term monitoring plan for water quality to provide data for setting strategy priorities and for trend analysis as a way to evaluate the overall effectiveness of actions undertaken under the bacterial control strategy, and;
- Accelerate long-term efforts at documenting and tracking land use and shellfish growing data.

For more information on the report, contact either Hellen Seyferlich or Joe Joy of the Washington Department of Ecology at (206) 753-2889. For information concerning EPA Region 10's involvement in the Willapa Bay watershed, contact Jerry Larrance at (206) 553-2581.

## HEADQUARTERS ACTIVITIES



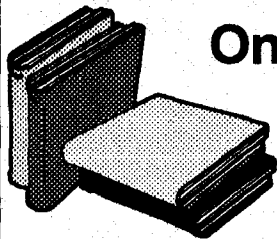
### OFFICE OF WETLANDS, OCEANS AND WATERSHEDS (OWOW)

#### *Assessment and Watershed Protection Division (AWPD)*

**Mississippi River Flood Activities:** The Water Workgroup of the Flood Environmental Committee, chaired by AWPD, is completing a guidance document to assist the Regions and states in applying for funds for flood water quality monitoring. Using the guidance

#### **Nonpoint Source Watershed Project Workshop**

In cooperation with EPA, the U.S. Department of Agriculture (USDA), the U.S. Geological Survey, and others, the North Carolina Cooperative Extension Service hosted a watershed project workshop in Charlotte, NC, on September 13-16. This workshop, originally designed to support watershed projects funded under CWA section 319, was expanded to support USDA and other nonpoint source water quality projects. A plenary session was followed by several technical sessions on planning, best management practices, implementation, institutional arrangements, and experimental approaches to monitoring and evaluating water quality and land treatment. A 1-day field trip in the Long Creek watershed project showed participants the monitoring being conducted in this National Monitoring Program project under section 319. Planning has begun for follow-up workshops and possible training. For more information, contact Steve Dressing at (202) 260-7110.



## On the Bookshelf . . .

**Alabama Water Watch, Vol. 1, No. 2, September 1993.** This newsletter is published quarterly and discusses the activities of Alabama Water Watch, a statewide volunteer monitoring program. This issue discusses topics such as the Lake Martin Lake Watch program, resources for educators and monitors, and upcoming training workshops. For a copy, contact Michael Mullen, Editor, Alabama Water Watch, CERS, Troy State University, Troy, AL 36082.

**Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Vol. 1: Fish Sampling and Analysis.** This 350-page technical document provides guidance to state agencies on methods for sampling and analyzing chemical contaminants in fish and shellfish tissues. To obtain a copy, contact the USEPA, Fish Contamination Section (4305), 401 M St., SW, Washington, DC 20460.

**Nonpoint Source News Notes, October 1993.** The theme of this issue is the management of western and related resources. Other articles include topics such as the new federal wetlands policy, an interagency/volunteer monitoring project on the Santa Cruz River, and notes on environmental

education. For a copy or to get on the mailing list, fax your request to FAX (202) 260-1517.

**Texas Watch, Summer 1993.** This newsletter of volunteer environmental monitoring programs in Texas updates readers on new initiatives, spotlights staff and volunteers, and announces upcoming workshops and activities. The theme of this issue is quality assurance/quality control for volunteer data. For a copy, write to Texas Watch, Texas Natural Resource Conservation Commission, Community Support Programs, P.O. Box 13087, Austin, TX 78711-3087.

**Watershed Management Council Newsletter, Fall 1993.** This newsletter is published by the Watershed Management Council. It contains in-depth articles on watershed restoration and management. Articles in this issue are on topics such as restoration costs; problems, pitfalls, and possible solutions in watershed restoration; and road restoration in Lake Tahoe. For information, contact the Watershed Management Council, c/o Neil Berg, USFS, PSW Station, P.O. Box 245, Berkeley, CA 94701 (the newsletter is for dues-paying members).

**Willapa Bay Watershed Bacterial Evaluation and Preliminary Control Strategy.** See article under Region 10, page 6. For a copy, contact Hellen Seyferlich or Joe Joy, Washington Department of Ecology, (206) 753-2889.





document, the Regions will work with the states to prepare work plans, define the purpose of activities, and outline reporting requirements for ambient monitoring activities. Since August, workgroup members have conducted weekly conference calls with the regional flood monitoring points of contact to coordinate Headquarters, Regional, and interagency activities relating to flood water quality monitoring.

In addition, the Flood Public Health Committee held a meeting on October 7-8 in Des Moines, Iowa, to discuss ongoing flood activities related to public health issues. State public health and environmental officials from 9 flooded states, as well as representatives from the various federal agencies involved in flood activities, attended the meeting. For more information, contact Mary Belefski at (202) 260-7061, or Franz Schmidt at (202) 260-7104.

#### **Regional Monitoring Coordinators' (RMCs)**

**Meeting:** On November 16 and 17, RMCs will be in Philadelphia for their first of two FY94 meetings. The purpose of this meeting will be to discuss FY94 activities, specific HQ and Regional workplans to implement the water monitoring strategy, and QA/QC issues. Regional QA/QC officers have been invited to participate and are working with HQ and Region 3 (host for the meeting) to develop the agenda. For more information, contact Mary Belefski at (202) 260-7061 or Chuck Kanetsky (R.3) at (215) 597-8176.

**CWA Section 319 National Monitoring Project Approved for Funding:** AWPDP, in coordination with Region 9 staff, has approved the sixth long-term National Monitoring Program project funded under CWA section 319. The Morro Bay project, located on California's central coast, incorporates the following studies over the next ten years: 1) a paired-watershed study to evaluate the water quality benefits of riparian area protection on grazing lands; 2) an upstream-downstream study to measure the benefits of reestablishing a floodplain and riparian forest; 3) an upstream-downstream study to assess the benefits of riparian exclosure; and 4) a single-station study to assess the effects of time-controlled grazing. For more information, contact Steve Dressing at (202) 260-7110.

**Electronic Bulletin Board News:** Back issues of

*The Volunteer Monitor*, the national newsletter of volunteer environmental monitoring, are now available electronically in AWPDP's Nonpoint Source Bulletin Board System (NPS BBS). The NPS BBS contains a Volunteer Monitoring Special Interest Group (SIG) forum that enables volunteers to exchange messages, read bulletins and files on volunteer monitoring issues, and dip into databases such as a bibliography of volunteer monitoring-related publications. Individual articles from *The Volunteer Monitor* are in file area 3 and are listed by file name, title, author, and issue.

In addition, the NPS BBS is now accessible through INTERNET, thanks to FedWorld, a project set up by the National Technical Information Service. FedWorld allows INTERNET users to connect up with more than 100 federal computer bulletin boards. To reach the FedWorld gateway from INTERNET, enter TELNET FEDWORLD.GOV from your INTERNET prompt. The IP address for FedWorld is 192.239.92.201. To reach the NPS BBS from FedWorld, select Gateway option from the main menu. After entering the Gateway, type "D 79" to reach the NPS BBS.

Currently, NPS BBS message functions, bulletins, database Doors, and SIGs are available through this link. File transfer capabilities and INTERNET E-mail are still under development.

If you have questions about the INTERNET connection, call FedWorld's voice help line at (703) 487-4608 or NPS BBS's Elaine Bloom at (202) 260-3665. A user's manual for the NPS BBS is available from USEPA, AWPDP (4503), NPS Information Exchange, 401 M St. SW, Washington, DC 20460.

### ***Oceans and Coastal Protection Division (OCPD)***

**OCPD Conducts Training for New National Estuary Programs:** Representatives of the four latest estuaries added to the National Estuary Program (NEP) met in Corpus Christi, Texas, on September 20-23 to receive detailed instruction, information and recommendations on how to initiate and conduct their programs. The estuaries are: Peconic Bay in NY; San Juan Harbor in PR; Corpus Christi in TX; and Tilla-

## Calendar Highlights

### November

- 4-7 ***The Future of America's Rivers: A Celebration of the 25th Anniversary of the National Wild and Scenic Rivers Act***, Arlington, VA. Contact Jennifer Paugh, JT&A, 1000 Connecticut Ave., NW, Suite 802, Washington, DC 20036; (202) 833-3380. FAX: (202) 466-8554.
- 6 ***1st Annual Heartbeat Conference: Volunteers Providing Innovative and Credible Methods for Monitoring and Protecting Our Waters***, Owings Mills, MD. Contact Save our Streams, 258 Scotts Manor Dr., Glen Burnie, MD 21061, (410) 969-0084.
- 7-10 ***NADC Urban and Community Conservation Symposium: Partnership for Livable Communities***, Minneapolis, MN. Contact Debra Bogar, NADC Northeastern Region, P.O. Box 320, Leeds, MA 01053; (473) 585-8895. FAX: (413) 585-8697.
- 8-9 ***1993 Runoff Quantity and Quality Model Group Conference***, Reno, NV. Contact Jill Bicknell, Conference Coordinator, Kennedy Jenks Consultants, at (415) 243-2454.
- 14-18 ***14th Annual Meeting of the Society of Toxicology and Chemistry***, Houston, TX. Contact SETAC office at (904) 469-1500.
- 19 ***Wetland Issues in Resources Development in the Western U.S.***, Denver, CO. Contact Mark Holland, Rocky Mountain Mineral Law Foundation, Porter Admin. Bldg, 7308 E. 18th Ave., Denver, CO 80220; (303) 321-8100.
- 29-Dec 4 ***The 13th International Symposium of the North American Lake Management Society, "Lake Management and Diversity: Competing Values, Needs and Goals,"*** Seattle, WA. Contact Bob Schroeder, NALMS, P.O. Box 101294, Denver, CO, 80250; (303) 781-8287. FAX: (303) 781-6538.

### December

- 4 ***Kentucky Waterway Alliance Annual Conference***, Midway, KY. Contact Beth Stewart, (502) 863-1468, or Ken Cooke (1)(800) 928-0045.
- 5 ***American Water Works Association/Water Environment Federation Joint Residuals Management Conference***, Phoenix, AZ. Contact: Nancy Blatt, Water Environment Federation, 601 Wythe St., Alexandria, VA 22314-1994. (703) 684-2400.
- 9 ***2nd Annual Fertilizer Research and Education Conference***, Davis, CA. Contact: Jacques Franco, CDFA, 1220 N St., P.O. Box 94281, Sacramento, CA 94271-0001.
- 11-15 ***55th Midwest Fish and Wildlife Conference - New Agendas in Fish and Wildlife Management: Approaching the Next Millennium***, St. Louis, MO. Contact: Wayne Porath, MO Dept. of Conservation, 1110 S. College Ave., Columbia, MO 65201. (314) 882-9880.
- 13-14 ***Integrated Resource Management and Landscape Modification for Environmental Protection***, Chicago, IL. Contact: ASAE, 2950 Niles Road, St. Joseph, MI 49083-9659. (616) 429-0300.
- 31-Jan. 2 ***2nd Thematic Conference on Remote Sensing for Marine and Coastal Environments: Needs, Solutions, and Applications***, New Orleans, LA. Contact: ERIM, Marine Management Conference, P.O. Box 134001, Ann Arbor, MI 48113-4001. (313) 994-1200 ext. 3234. FAX: (313) 994-5123.

### January

- 14-15 ***Alabama Environmental Partnership Conference***, Birmingham, AL. Contact Legacy, Inc., P.O. Box 3813, Montgomery, AL 36109, (205) 250-2415 or (205) 271-7938.

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mook Bay in OR. The training sessions covered such topics as how to set up the Management Committee, the contents of required annual work plans, the minimum contents of the Comprehensive Conservation and Management Plans, public participation, and how to build an Action Plan. Each session included case studies, panel presentations, and extensive question periods. For more information, contact Darrell Brown at (202) 260-6426.

### **Wetlands Division (WD)**

**Guidance Issued for FY94 Wetlands Protection and Development Grants:** On September 21, 1993, the Wetlands Division issued its Wetlands Program FY94 Grant Guidance and sent copies to the Regions for distribution. Since this grant program was initiated in FY90, states and Indian tribes have applied for and received funding to support many projects to advance their efforts to protect their wetlands resources. Grant funds can be used either to develop new wetland protection

programs or to refine existing programs. The FY94 guidance details conditions for funding eligibility and includes information on Watershed Protection Approach Demonstration Projects and assessing and monitoring the biological integrity of wetlands. For a copy, contact the Wetlands Hotline at 1-800-832-7828.



### **A Note To Our Readers...**

Some of you may have noticed errors in your *Water Monitor* mailing address over the past several months. The problem resulted from efforts to modernize our mailing list updating process. The problem is nearly solved, but if you still find errors, please send in your corrections on the order and comment form on page 12. Thank you for your patience.