



Office of Wetlands, Oceans and Watersheds Publications

★ 1992 ★
THE YEAR OF
CLEAN WATER



*Celebration +
Commitment*

OWOW



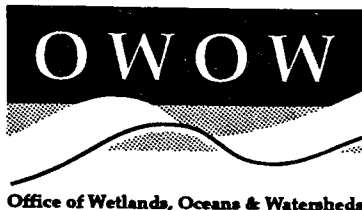
Office of Wetlands, Oceans & Watersheds



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Introduction

EPA's Office of Wetlands, Oceans and Watersheds (OWOW) was created in April 1991. OWOW combines EPA's responsibilities for addressing nonpoint source pollution, restoring and protecting wetlands, lakes, rivers, coastal and marine environments, and coordinating surface water monitoring and water quality assessment activities.



Office of Wetlands, Oceans and Watersheds Publications

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Instructions

Organization

The publications in this list are divided into seven topic areas. Each topic, except Bulletins, has two sections: General and Technical. *General publications* can be easily understood by the lay reader. *Technical publications* are scientific or regulatory in nature and require an understanding of the program area.

- ☐ **Wetlands:** wetlands uses, protection and regulation of wetlands
- ☐ **Oceans/Coastal:** ocean discharges, ocean surveys, marine and estuarine protection programs
- ☐ **Watershed Protection:** lake and reservoir protection and restoration, basin-wide protection approaches
- ☐ **Nonpoint Source:** prevention and treatment of agricultural and urban runoff
- ☐ **Data Management:** information systems documentation and data quality assurance/quality control (QA/QC) guidance
- ☐ **Water Quality Assessment & Monitoring:** citizen volunteer, ocean discharge, bioaccumulation, and water quality monitoring guidance
- ☐ **Bulletins:** cut across all topic areas, disseminate information to a targeted group of readers on a variety of production schedules

NOTE: Topic areas are broadly defined. Publications are not cross referenced. Since there may be some overlap, review the entire list.

Entry Format

Title

Publication Number

Publication Date

Description (Number of Pages)

Example:

***Progress in the National Estuary Program,
Report to Congress***

EPA503/9-90/005

2/90

Provides an overview of National Estuary Program activities and accomplishments through 1989. Summarizes research undertaken through the program. (44 pgs.)

NOTE: Some entries may not have a publication number or publication date.

Ordering Information

To order Wetlands publications, call the EPA Wetlands Protection Hotline at 1-800-832-7828. Hotline hours of operation are Monday - Friday, 9:00 am to 5:30 pm (EST).

To order all other General or Technical publications, use the Publications Order Form on page 21 of this booklet. Include the publication number and title. Due to limited supply, we can supply only one copy of each publication per person.

To subscribe to a Bulletin, place a check (✓) next to the title on the Bulletins Order Form on page 22.

Clearly print your name, address, and daytime telephone number. Return completed order forms to address indicated on order form.

If the Order Forms are missing, please submit your order on a plain piece of paper to: Office of Wetlands, Oceans, and Watersheds, U.S. Environmental Protection Agency, 401 M Street, SW (WH-556F), Washington, DC 20460.

******* All publications are free *******

Wetlands

***Agriculture and Wetlands :
A Compilation of Fact Sheets***
EPA 503/9-92/003
6/92

***America's Wetlands:
Our Vital Link Between Land and Water***
OPA-87-016
2/88

American Wetlands

***"Audubon's America" —
A Cooperative Conservation Project***
1991

***Beyond the Estuary:
The Importance of Upstream Wetlands
in Estuary Processes***
EPA20W-5003
6/90

General

Emphasizes the relationship between farming and wetlands protection, but provides important information in a concise manner to the non-farming public as well. Topics covered are listed below.

Finding Common Ground —

***The Roles and Responsibilities of Federal Agencies in
Protecting and Managing Wetlands —***

Opening Communications and Finding Answers —

Section 404 and Swampbuster —

***The Federal Manual for Identifying and Delineating
Jurisdictional Wetlands —***

Section 404(f) Exemptions and Nationwide General Permits

Studies and Research to Improve Our Knowledge —

Describes what wetlands are, the different types of American wetlands, and EPA's role in wetlands protection. Explains the values and ecological functions of wetlands, as well as protection methods. Summarizes the status and trends of wetland losses in the United States. (8 pgs.)

Explains what wetlands are and identifies the values and functions of wetlands. Prepared for the annual American Wetlands Month celebration held in May of each year, and lists groups that co-sponsored that event. Lists activities that individuals can undertake to celebrate American Wetlands. (2 pgs.)

Describes a proposal between EPA and the National Audubon Society to develop a cooperative public and private system of connected natural areas within a thirty-four state region. The goal of the project is to protect, conserve, restore, enhance, recognize, and commemorate the significant natural and cultural values of land and water areas where the renown naturalist John James Audubon lived, traveled, wrote, painted, and observed. (19 pgs.)

Identifies the types of wetlands that are located above estuaries, and briefly outlines the functions those areas perform. Describes the relationships between these upstream wetland functions and estuarine processes. Also describes activities threatening the upstream wetlands and mechanisms for their protection. (8 pgs.)

***Catalog of State Wetlands Protection
Grants: Fiscal Year 1991***

Lists descriptions of State Wetlands Protection Grants awarded in Fiscal Year 1991. The grants are available for a variety of purposes, including development of state wetlands conservation plans, wetlands water quality standards, and monitoring the status and trends of wetlands losses. Provides state agencies with examples of types of projects funded and grant application guidance. (46 pgs.)

***Environmental Backgrounder: Wetlands
EPA PIC
11/88***

Describes issues associated with wetlands and wetlands protection, including definition of wetlands, legal tools available, the Federal approach, EPA and state actions, and the role of the public. (6 pgs.)

***EPA Regional Office
Wetlands Contacts Directory
2/92***

Consists of a map of EPA Regions with a list of Wetlands Division contacts' names, addresses, and phone numbers within each Regional office. (1 pg.)

***EPA's Wetlands Protection Program
9/89***

Describes EPA's role in the Section 404 program and wetlands protection. Also outlines wetlands functions, values, threats to wetlands, and wetlands losses. (Compilation of fact sheets - 14 pgs.)

***Financing State Wetlands Programs
11/90***

Reviews traditional funding mechanisms for wetlands protection, such as Federal regulatory and non-regulatory programs. Discusses several alternative funding mechanisms, including taxes, fees, and fines. Discusses factors states may want to consider when selecting financing mechanisms. Prepared by APOGEE Research Inc. (88 pgs.)

***A Guide to Agricultural
Wetlands Protection —
National Governors Association
1991***

Briefly describes the Section 404 program and lists the agricultural exemptions. (14 pgs.)

***Highlights of Section 404
10/89***

Provides a basic understanding of the Clean Water Act Section 404 program. Describes the geographic scope of Section 404 and the activities regulated under this section. (9 pgs.)

***Steps in State
and Local Greenway Planning
2/88***

Explains a river corridor planning process and the greenway conservation strategy. Reprint of article prepared for an EPA Conference on Multiobjective Greenways and the Coordination of Wetlands and Floodplain Programs in February 1988 (19 pgs.)

***Summary of Section 319(h) Wetlands
and Riparian Projects:
Fiscal Years 1990 and 1991
EPA843-S-92-001
3/92***

Briefly describes the wetlands or riparian component in state nonpoint source projects funded under Section 319(h) in FY 1990 and 1991. Organized into five sections: restoration and protection projects, program administration, education and technical training, constructed wetlands, and other projects of interest. Identifies an EPA Regional or state contact for each project. (52 pgs.)

***Wetland and 401 Certification
(Opportunities and Guidelines
for States and Eligible Indian Tribes)***
4/89

Examines the Section 401 state water quality certification process and how it applies to wetlands. States are encouraged to use this handbook when establishing a wetlands protection program or improving wetlands protection tools. (64 pgs.)

Wetlands Hotline Fact Sheet
5/91

Describes the functions of the Wetlands Protection Hotline, and provides the Hotline's hours of operation, telephone number, and address. (1 pg.)

***Wetlands Protection:
A Local Government Handbook***
9/91

Contains a review of wetlands values and functions, Federal wetlands regulations, and examples of state and local regulations. Provides local officials, planners, and citizens with a background for understanding wetlands issues, and illustrates that actions at the local level can help achieve the goal of no net loss of wetlands. Produced by the American Planning Association. (31 pgs.)

Technical

***Environmental Protection Agency:
404(b)(1) Guidelines***
12/80

Contains the substantive environmental criteria used by EPA and the Army Corps of Engineers in evaluating discharges of dredged or fill material under Section 404 of the Clean Water Act. Codified under 40 CFR Part 230. This document is a reprint of the rule published on December 24, 1980 (45 FR 85336) titled "Guidelines for Specification of Disposal Sites for Dredged or Fill Material." (22 pgs.)

***Memorandum of Agreement
(MOA) on Enforcement***
1/89

Establishes policy and procedures pursuant to which the Department of the Army and EPA will undertake Federal enforcement of the Section 404 dredge and fill material permit requirement. Issued jointly by the Department of the Army and EPA. (9 pgs.)

***Memorandum of Agreement
(MOA) on Jurisdiction/Exemptions***
1/89

Establishes the policy and procedures pursuant to which the Department of the Army and EPA will determine the geographic jurisdictional scope of waters of the United States and the application of the exemptions under Section 404(f) of the Clean Water Act. Issued jointly by the Department of the Army and EPA. (6 pgs.)

***Memorandum of Agreement
(MOA) on Mitigation***
2/90

Explains the policy and procedures to be used in determining the type and level of mitigation necessary to demonstrate compliance with the Clean Water Act Section 404(b)(1) Guidelines. Issued jointly by the Department of the Army and EPA. (6 pgs.)

***Proposed Revisions to the Federal Manual
for Identifying and Delineating
Jurisdictional Wetlands (56 FR 40446)***
8/91

Includes questions and answers on proposed revisions to the 1989 Federal Manual for Identifying and Delineating Jurisdictional Wetlands, the White House fact sheet entitled "Protecting America's Wetlands," and a side-by-side comparison of the 1989 Manual and the Proposed Revised Manual. Contains the August 14, 1991, Federal Register notice (56 FR 40446) of the revisions proposed by EPA, Army Corps of Engineers, Department of Agriculture Soil Conservation Service, and Department of Interior Fish and Wildlife Service. (76 pgs.)

***Regulations on Permit Exceptions and State
Program Assumption (40 CFR 232 & 233)***
6/88

Contains 404 program definitions, 404(f) permit exemptions, and the procedures and criteria used in approving, reviewing, and withdrawing approval of state 404 programs. This final rule was issued by EPA on June 6, 1988. (24 pgs.)

*To order Wetlands Publications, call the EPA Wetlands Protection Hotline (see back cover).
To order all other publications see order form on page 21.*

Oceans/Coastal

General

Coastal America
EPA842-K-91-100

Identifies primary threats shared by many coastal regions. Explains multi-agency initiative to protect America's coastal resources. Highlights cooperative efforts among Federal agencies with principle responsibility for stewardship of coastal living resources.

Enforcement for Coastal Protection
EPA842-K-91-001
10/91

Explains coastal resources at risk, sources and impacts of degradation, and federal laws protecting coastal resources. Presents an integrated approach to enforcement with specific examples and success stories.

***EPA Journal:
Can Our Coasts Survive More Growth?
Volume 15 Number 5***
EPA842-N-89-100
9-10/89

Explores problems of coastal environments and possible solutions. Includes specific impacts on coastal wetlands, estuaries, and beaches. Describes EPA's programs and policies for coastal zone protection. (56 pgs.)

***EPA Journal:
Saving the Nation's Great Water Bodies;
Volume 16 Number 6***
EPA842-N-90-101
11-12/90

Identifies water quality problems in 13 major water bodies, and outlines solutions which have been tailored for these water bodies. Includes methods to assess water quality. Presents the Office of Water's vision for the nation's water quality efforts. (64 pgs.)

***Financing Marine and Estuarine
Programs: A Guide to Resources***
EPA503/8-88/001
9/88

Presents 11 case studies demonstrating innovative and successful approaches to finance environmental programs. (101 pgs.)

The National Estuary Program After Four Years: A Report to Congress
EPA503/9-92/007
7/92

Provides an update on the National Estuary Program (NEP) and work being done in 17 sites across the nation. The NEP addresses critical problems of the nation's estuaries and coastal areas, particularly those related to cumulative impacts of growth and development, nonpoint source pollution, and loss of natural habitats. (97 pgs.)

Portraits of Our Coastal Waters — Supplement to the National Water Quality Inventory
EPA503/2-91/004
6/91

Contains eight descriptive narratives highlighting coastal and estuarine environmental problems for unique geographic areas. Provides an assessment of the diverse and complex environmental problems encountered in these areas. Describes programs and initiatives designed to improve and protect the nation's coastal waters. (31 pgs.)

Progress in the National Estuary Program, Report to Congress
EPA503/9-90/005
2/90

Provides an overview of National Estuary Program activities and accomplishments through 1989. Summarizes research undertaken through the program. (44 pgs.)

Protecting Our Nation's Marine and Coastal Waters: OSV Peter W. Anderson
EPA503/9-91/001
11/90

Describes the activities of the Ocean Survey Vessel Peter W. Anderson. (2 pgs.)

Report to Congress on Implementation of Section 403(c) of the Federal Water Pollution Control Act
EPA503/6-90/001
6/90

Describes EPA activities for implementing Section 403(c) of the Clean Water Act and for achieving compliance with guidelines promulgated under Section 403(c), including an estimate of resources required. Section 403(c) applies to discharges into the waters of the territorial sea, the contiguous zone, and the oceans. (131 pgs.)

Report to Congress on Ocean Dumping 1987-1990
EPA503/9-91/009
9/91

Summarizes EPA's activities in regulating and monitoring incineration-at-sea and ocean disposal of sewage sludge, industrial waste, and dredged materials. (58 pgs.)

Strategic Assessment of Near Coastal Waters: Northeast Case Study
EPA503/6-88/000

Contains the results of a joint EPA-National Oceanic and Atmospheric Administration case study in 17 estuaries of the northeast United States. Presents resource assessments in the following areas: physical and hydrological characteristics, land use and population, nutrient discharges to estuaries, classified shellfish waters, toxic discharges to estuaries and hazardous waste disposal sites, coastal wetlands, and public outdoor facilities. (175 pgs.)

Technical

Economics of Improved Estuarine Water Quality: An NEP Manual for Measuring Benefits
EPA503/5-90/001
9/90

Helps managers evaluate the economic benefits of various water pollution abatement options. Presents concepts of economic benefit, describes how pollution abatement can generate benefits, and explains methodologies for measuring benefits. (79 pgs.)

***Evaluation of Dredged Material Proposed
for Ocean Disposal — Testing Manual***
EPA503/8-91/001
2/91

Contains technical guidance for determining the suitability of dredged material for ocean disposal through chemical, physical, and biological evaluations. Provides national technical guidance for use in making limiting permissible concentration compliance determinations for proposed discharges of dredged material. Intended for use by dredging applicants, laboratory scientists, and regulators in evaluating dredged material compliance with the United States Ocean Dumping Regulations. Commonly referred to as the "Green Book." Prepared in conjunction with the Army Corps of Engineers.

***Initial Mixing Characteristics of Municipal
Ocean Discharges:
Volume I. Procedures and Applications***
EPA600/3-85/073a

Describes the behavior of wastewater plumes. Contains analytical solutions and descriptions of five mathematical models that provide the initial dilution and rise-height of the plume for a variety of discharge, diffuser, and receiving water characteristics. (90 pgs.)

***Initial Mixing Characteristics of Municipal
Ocean Discharges:
Volume II. Computer Programs***
EPA600/3-85/073b

Describes the behavior of wastewater plumes. Contains a description of the universal data file and complete program listings of five mathematical models that provide flux-average dilution and rise-height of a wastewater plume discharged into waters of greater density. (100 pgs.)

***INSEA User's Manual:
Environmental Performance Model
of Incineration at Sea Operations***
EPA556/1-87/001
8/87

Describes screening tools to estimate the maximum allowable concentration of waste that can be incinerated at sea without exceeding standards for marine aquatic life. Based on 1986-87 data. (161 pgs.)

***Monitoring Guidance for the National
Estuary Program Interim Final***
EPA503/8-91/002
8/91

Identifies the steps involved in developing and implementing estuarine monitoring programs, and provides a technical basis for discussions on the development of monitoring program objectives, the selection of monitoring program components, and the allocation of sampling effort. Discusses the integration of existing monitoring efforts into the estuary monitoring program. Includes two case studies. Intended for members of the management conference, the program coordinators, and the scientific staff of the individual estuary programs.

***Proceedings of the Workshop
on the Sea-Surface Microlayer
in Relation to Ocean Disposal***
EPA556/1-87/005
8/87

Contains proceedings, results, recommendations, and technical papers from a workshop to assess the impacts of ocean waste disposal on the sea surface microlayer, the upper millimeter or less of the water surface. Relates basic conceptual models to the fate and potential effects of residuals from ocean disposal, identifies research needs and approaches, and describes a scientifically-defensible monitoring program for the sea-surface microlayer.

***A Simplified Deposition Calculation
(DECAL) for Organic Accumulation
Near Marine Outfalls***
EPA430/9-88/001
9/87

Predicts particle deposition and accumulation of organic material in sediments near municipal ocean outfalls. Formulated on the basis of coastal transport, particle transport, and organic carbon cycles. Includes the effects of coagulation and settling of effluent particles and natural organic material. (84 pgs.)

Watershed Protection

General

***Clean Lakes Demonstration Program:
1989 Annual Report to Congress***
EPA440/4-90/009
8/90

Outlines the accomplishments and progress of the Clean Water Act Section 314(d) demonstration program. (17 pgs.)

Clean Lakes Program: 1988 Annual Report
EPA440/5-89/001
2/89

Summarizes the accomplishments and highlights of the Clean Lakes Program during FY 1988. Prepared for EPA by the North American Lake Management Society. (23 pgs.)

Clean Lakes Program: 1989 Annual Report
EPA841-S-89-100
1989

Summarizes the accomplishments and highlights of the Clean Lakes Program during FY 1989. Prepared by the North American Lake Management Society. (24 pgs.)

Clean Lakes Program: 1990 Annual Report
EPA841-S-90-101
1990

Summarizes the accomplishments and highlights of the Clean Lakes Program during FY 1990. Prepared by the Terrene Institute. (31 pgs.)

Clean Lakes Program: 1991 Annual Report
EPA841-S-91-102
1991

Summarizes the accomplishments and highlights of the Clean Lakes Program during FY 1991. Prepared by the Terrene Institute. (32 pgs.)

Lake Conservation Handbook
EPA841-B-88-100
11/88

Describes how to develop a comprehensive information and education program for communities as part of an overall effort to restore, manage, and protect lakes. Prepared for EPA by the North American Lake Management Society. (20 pgs.)

Organizing Lake Users: A Practical Guide
EPA841-B-91-101
6/91

Assists in organizing a local lake organization. Prepared by the Terrene Institute in cooperation with EPA and TVA. (78 pgs.)

***The Watershed Protection Approach:
An Overview***
EPA503/9-92/002
12/91

Describes the Watershed Protection Approach, a basin-wide approach to water protection that encompasses dynamic ecological relationships. Presents watershed protection programs at various government levels. (8 pgs.)

Technical

***Guidance for Water Quality-Based
Decisions: The TMDL Process***
EPA440/4-91/001
4/91

Provides program policy guidance and procedures for carrying out the water quality planning process under Section 303(d) of the Clean Water Act. Describes EPA and state policies for identification of waters needing water quality-based controls, priority-setting and targeting, and development of pollution control plans, referred to in the Clean Water Act as Total Maximum Daily Loads (TMDLs). (58 pgs.)

**Lake Restoration: Proceedings
of a National Conference**
EPA440/5-79/001
1979

Compilations of presentations from a national conference on lake protection, management, and restoration issues.
(254 pgs.)

**The Lake and Reservoir Restoration
Guidance Manual (Second Edition)**
EPA440/4-90/006
8/90

Written for informed citizens who are interested in protecting, restoring, and managing lakes. Focuses on four areas: identifying lake problems, evaluating management practices for addressing problems or for protecting water quality, developing a site-specific management plan, and implementing and evaluating lake management plans. Includes a hypothetical case study, point source techniques, best management practices, and state and provincial lake management programs. (326 pgs.)

**Modeling Phosphorous Loading
and Lake Response Under Uncertainty:
A Manual and Compilation
of Export Coefficients**
EPA440/5-80/011
1980

Presents an illustrated, step-by-step procedure that may be used to quantify the relationship between land use and lake trophic quality. Aids the analyst in the selection of appropriate export coefficients and in the interpretation of the results of an application of this methodology. Includes a section on estimating nonparametric prediction intervals.

**Monitoring Lake and Reservoir Restoration:
Technical Supplement to the Lake
and Restoration Guidance Manual**
EPA440/4-90/007
8/90

Explains how to design and implement a lake monitoring program during and following a lake restoration project. Describes monitoring methods for both the waterbed and the watershed. Provides recommendations for consistent monitoring methods and quality assurance procedures to assist lake managers and researchers. Includes a fold-out Geological Survey map illustrating the average annual runoff in the United States. (130 GPs.)

**National Conference on Enhancing States'
Lake Management Programs 1988**
EPA841-S-88-103
5/88

Proceedings from the 1988 conference of state lake program managers covering issues relevant to lake protection, restoration, and management. Prepared by the Northeastern Illinois Planning Commission and the North American Lake Management Society in cooperation with EPA. (148 pgs.)

**National Conference on Enhancing
the States' Lake and Wetland
Management Programs 1989**
EPA841-S-90-104
2/90

Proceedings from the 1989 conference of state lake program managers covering issues relevant to lake protection, restoration, and management. Prepared by the Northeastern Illinois Planning Commission and the North American Lake Management Society in cooperation with EPA. (166 pgs.)

**National Conference on Enhancing the
States' Lake Management Programs 1990**
EPA841-S-91-105
1/91

Proceedings from the 1990 conference of state lake program managers covering issues relevant to lake protection, restoration, and management. Prepared by the Northeastern Illinois Planning Commission and the North American Lake Management Society in cooperation with EPA. (98 pgs.)

**Quantitative Techniques for the
Assessment of Lake Quality**
EPA440/5-79/015
1979

Covers data analysis and sampling design, models, and lake classification in reference to phosphorus loadings in lakes.
(146 pgs.)

Workshop on the Water Quality-Based Approach for Point Source and Nonpoint Source Controls — Meeting Summary
EPA503/9-92/001
10/91

Contains summaries of technical presentations and the findings and recommendations from a workshop on predictive modeling. Topics included watershed scale models, nonpoint sources, ecological restoration modeling, and the role of remote sensing and GIS. (116 pgs.)

Nonpoint Source (NPS)

General

Creating Successful Nonpoint Source Programs: The Innovative Touch
EPA841-B-88-102
8/88

Presents 16 examples of successful innovative NPS programs and identifies techniques for developing innovative programs. (12 pgs.)

EPA Journal: Nonpoint Source Pollution — Runoff of Rain and Snowmelt, Our Biggest Water Quality Problem; Volume 17 Number 5
EPA841-N-91-100
11-12/91

Outlines the NPS water pollution problem, including the effects of agricultural chemicals, agricultural sediment, urban runoff, logging, abandoned mines, and construction. Presents issues and policy from the perspective of EPA, the Department of Agriculture, and the Office of Management and Budget. Describes possible solutions, and offers educational material for use in the classroom. (64 pgs.)

Handle with Care: Your Guide to Preventing Water Pollution
EPA841-B-91-103
1991

Describes NPS pollution generated by everyday activities. Contains household tips for reducing and preventing water pollution. Identifies state, Regional, and Federal NPS contacts. Prepared by the Terrene Institute. (36 pgs.)

Managing Nonpoint Source Pollution: Final Report to Congress on Section 319 of the Clean Water Act (1989)
EPA841-R-92-101
1/92

Focuses on the state of the national effort to control NPS pollution as of October 1, 1989. Includes state NPS assessment findings, state programs for addressing problems identified in the assessments, related activities of EPA, other Federal agencies, and others, and achievements to date on controlling NPS pollution. (197 pgs.)

Nonpoint Source Education/Demonstration Project Evaluation Report
EPA841-B-91-104
2/91

Details 33 NPS abatement projects that were funded by the Ohio EPA from 1981 to 1987 to reduce NPS pollution by changing practices of individual landowners. Projects include efforts to reduce NPS pollution from crop and livestock production, on-site sewage disposal, and abandoned mine land. Prepared by Ohio EPA. (67 pgs.)

Nonpoint Source Pollution: Land Use and Water Quality
EPA841-B-79-105

Provides an overview of the NPS pollution problem and some possible solutions. Describes the agencies and programs involved in reducing NPS pollution. Contains references to the Wisconsin Nonpoint Source Program. Prepared by the Washington County (Wisconsin) Project with funds from EPA Region 5. (48 pgs.)

Nonpoint Sources Agenda for the Future

EPA841-S-89-006

1/89

Defines EPA's commitment to a national NPS program during the five-year period 1989-1994. Outlines actions necessary to solve the problem of NPS in rivers, lakes, and streams. (30 pgs.)

Polluted: Every Little Bit Hurts

EPA841-F-90-100

1990

Indicates sources and effects of water pollution. Provides methods to prevent water pollution. (2 pgs.)

Report to Congress: Activities and Programs Implemented Under Section 319 of the Clean Water Act —

Fiscal Year 1988

EPA506/9-89/003

8/89

Summarizes the state and Federal NPS pollution control activities undertaken in Fiscal Year 1988. Describes progress in reducing NPS pollution and improving the quality of navigable waters. Includes an assessment of NPS problems and a history of NPS control efforts in the United States. (73 pgs.)

Report to Congress:

Nonpoint Source Pollution in the U.S.

EPA841-R-84-100

1/84

Examines the nature and magnitude of NPS water quality problems, and outlines the key components of state strategies to prevent and control such pollution. Identifies NPS control approaches that are likely to result in the greatest water quality improvements. Compares point and NPS pollutant loadings nationally. (123 pgs.)

Rural Clean Water Program

EPA440/4-90/012

9/90

Aids state and local managers in developing management plans for controlling agricultural NPS pollution. Describes the successes, failures, and lessons learned in the Rural Clean Water Program (RCWP). Presents profiles of RCWP projects, and identifies RCWP contacts. (29 pgs.)

Selecting Priority Nonpoint Source Projects: You Better Shop Around

EPA506/2-89/003

8/89

Presents 6 examples of how states identify their priorities for treatment of NPS impaired or threatened water bodies. (39 pgs.)

Seminar Publication: Nonpoint Source Watershed Workshop

EPA625/4-91/027

9/91

Contains papers presented at the Nonpoint Source Watershed Workshop held on January 29-31, 1991, in New Orleans. Includes case studies used in guide group discussions, and presents conclusions reached by workshop participants. (209 pgs.)

Technical

Best Management Practices for Agricultural Nonpoint Source Control: IV. Pesticides

EPA841-S-84-107

9/84

Describes the factors and available research results relevant to selecting the most appropriate pesticide Best Management Practices (BMPs) and BMP systems. Prepared for the Department of Agriculture and EPA by the Biological and Agricultural Engineering Department at North Carolina State University. (87 pgs.)

***Coastal Nonpoint Pollution Control
Program: Proposed Program Development
and Approval Guidance***

EPA841-B-91-106

10/91

Contains proposed guidance for states in developing and implementing coastal nonpoint programs. Describes the requirements that must be met, including geographic scope of the program, pollutant sources to be addressed, types of management measures used, establishment of critical areas, technical assistance, public participation, administrative coordination, and the process for program submission and Federal approval. Also contains the criteria by which the National Oceanic and Atmospheric Administration (NOAA) and EPA will review the states' submissions. Accompanies Proposed Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters (see below). Prepared in conjunction with NOAA. (43 pgs.)

Guide to Nonpoint Source Pollution Control

EPA841-B-91-107

7/87

Assists in decisions among techniques for approaching NPS pollution control. Contains a general evaluation of NPS modeling and assessment techniques, an assessment of commonly-used models, and a summary of best management practices (BMPs). (121 pgs.)

***Methodology for Analysis of Detention
Basins for Control of Urban Runoff Quality***

EPA841-B-86-108

9/86

Describes a probabilistic methodology to analyze the performance characteristics of techniques that control pollution discharges from urban stormwater runoff. Provides data and analysis procedures to guide planning decisions. (64 pgs.)

***Nonpoint Source Impacts on Aquatic Life —
Literature Review***

EPA841-S-88-108

7/88

Provides an overview of 68 research papers and reports exploring the impact of NPS pollution on aquatic life. Discusses regional trends in NPS pollutants. (250 pgs.)

***Proposed Guidance Specifying Management
Measures for Sources of Nonpoint Pollution
in Coastal Waters***

EPA841-B-91-109

5/91

Assists states in developing coastal nonpoint pollution programs by providing technical guidance on the best, economically-achievable measures available to protect coastal waters from NPS pollution. Discusses five categories of NPS pollution: agriculture, silviculture, urban, marinas, and hydromodification. Contains additional information on other available tools to address many source categories of NPS pollution, including vegetated filter strips, forested buffer strips, and wetlands. (325 pgs.)

***Results of the Nationwide
Urban Runoff Program***

EPA841-S-83-109

12/83

Consists of two sections: Executive Summary and Volume 1 Final Report. Summarizes the results of project studies of urban runoff conducted by the National Urban Runoff Program (NURP) from 1978 to 1983. Examines quality characteristics of urban runoff, the extent to which urban runoff contributes to national water quality problems, and the overall effectiveness of management practices to control pollutant loads from urban runoff. (Executive Summary — 24 pgs., Volume 1 - Final Report — 190 pgs.)

**Rural Clean Water Program
1988 Workshop Proceedings:
National Water Quality
Evaluation Project**
EPA506/9-89/001
12/88

Contains technical papers and presentations from the Rural Clean Water Program Workshop held September 12-15, 1988, in St. Paul, Minnesota. Identifies NPS project priorities of workshop participants. Prepared by the National Water Quality Evaluation Project of the Water Quality Group, North Carolina State University. (190 pgs.)

**Setting Priorities:
The Key to Nonpoint Source Control**
EPA841-B-87-110
7/87

Presents guidelines and suggestions for designing and implementing a targeted NPS pollution control program to achieve improvements in water quality. Prepared for EPA by the Biological and Agricultural Engineering Department at North Carolina State University. (51 pgs.)

**U.S. EPA Nonpoint Source
Information Exchange Computer Bulletin
Board System (BBS) — User's Manual**
EPA503/8-92/002
1/92

Describes how to access and use the major capabilities of the BBS, and presents a guided tour of an on-line session. The BBS will provide state and local agencies, private organizations, businesses, and concerned individuals with timely, relevant NPS information, a forum for open discussion, and the ability to exchange computer text and program files. (64 pgs.)

**Urban Targeting and BMP Selection:
An Information and Guidance Manual
for State Nonpoint Source Program Staff
Engineers and Managers**
EPA841-B-90-111
11/90

Assists state and local agency personnel in targeting and prioritizing areas within their jurisdiction which require abatement of urban runoff water quality problems. Consolidates existing information, and describes a noncomputerized technology for targeting areas for control. (54 pgs.)

Data Management

**Guide for Preparation of Quality Assurance
Project Plans for the
National Estuary Program**
EPA556/2-88/001

Serves as a quality assurance/quality control checklist for research and data collection under the National Estuary Program. (31 pgs.)

**Ocean Data Evaluation System (ODES)
Data Submissions Manual**
EPA503/9-90/006
1988

Explains the quality assurance/quality control (QA/QC) cycle that must be completed before a data set can be loaded into ODES, and provides detailed instructions for entering individual data sets onto coding forms, magnetic tape, or floppy diskette for submission to ODES.

**Ocean Data Evaluation System (ODES):
User Guide**
EPA503/8-90/007
1987

Provides directions for accessing information stored in ODES and for using ODES tools to produce analytical reports. ODES includes an integrated database which combines source input information with marine and estuarine environmental information, including water quality data, physical/chemical and oceanographic data, biological data, and sediment pollutant data. ODES also features a wide range of analytical tools for scientific and statistical analyses, and for reporting the results in a convenient format.

Technical

**Technical Support Document for
ODES Statistical Power Analysis**
EPA430/9-87/005
6/87

Reviews the basic concepts of hypothesis testing and statistical power analysis. Describes the types of power analyses that can be conducted using the Ocean Data Evaluation System (ODES). Provides several examples demonstrating the Statistical Power Analysis Tool contained in ODES and used in the design of new monitoring programs and in the interpretation of analysis of variance (ANOVA) test results. (36 pgs.)

Water Quality Assessment and Monitoring

General

Citizen Volunteers in Environmental Monitoring: Summary Proceedings of the Second National Workshop, New Orleans, Louisiana
EPA503/9-90/009
8/90

Contains presentations, panel discussion summaries, and recommendations from the December 1989 Citizen Monitoring Workshop held in New Orleans. (60 pgs.)

National Directory of Citizen Volunteer Environmental Monitoring Programs, Third Edition
EPA503/9-90/004
4/90

Lists volunteer monitoring programs throughout the United States. Includes contact names and a brief description of each program. (43 pgs.)

National Water Quality Inventory — 1988 Report to Congress
EPA440/4-90/003
4/90

Summarizes state-reported water quality data under Section 305(b) of the Clean Water Act with supplemental EPA data. Describes the quality of rivers, lakes, estuaries, Great Lakes, coastal waters, wetlands, and ground water. Includes information on special concerns such as fishing restrictions and fish kills. Summarizes point and nonpoint source programs and surface water monitoring programs. (228 pgs.)

National Water Quality Inventory — 1990 Report to Congress
EPA503/9-92/006
3/92

Summarizes state-reported water quality data under Section 305(b) of the Clean Water Act with supplemental EPA data. Describes the quality of rivers, lakes, estuaries, Great Lakes, coastal waters, wetlands, and ground water. Includes information on special concerns such as fishing restrictions and fish kills. Summarizes point and nonpoint source programs and surface water monitoring programs. (208 pgs.)

The Quality of Our Nation's Water: 1990
EPA841-K-92-001
6/92

Summarizes the results of the 1990 National Water Quality Inventory in an easy to understand format for the general reader. Introduces key water quality concepts. Discusses pollution of rivers, lakes, estuaries, coastal waters, wetlands, and ground water. Discusses how individual citizens can make a difference in solving the Nation's pollution problems. (27 pgs.)2

***The Quality of Our Nation's Water.
A Summary of the 1988
National Water Quality Inventory***
EPA440/4-90/005
5/90

***Report to Congress:
Water Quality of the Nation's Lakes***
EPA440/5-89/003
1989

***Volunteer Lake Monitoring:
A Methods Manual***
EPA440/4-91/002
12/91

***Volunteer Water Monitoring:
A Guide for State Managers***
EPA440/4-90/010
8/90

***301(h) Permit Reissuance Guidance
Document for Small Dischargers***
EPA503/9-90/008
1988

***Analytical Methods for U.S. EPA Priority
Pollutants and 301(h) Pesticides
in Estuarine and Marine Sediments***
EPA503/6-90/004
5/86

***Bioaccumulation Monitoring Guidance:
1) Estimating the Potential for
Bioaccumulation of Priority Pollutants and
301(h) Pesticides Discharges into
Marine and Estuarine Waters***
EPA503/3-90/001
9/85

Introduces water quality issues, and summarizes the key findings of the 1988 National Water Quality Inventory for the general reader. Covers pollution of lakes, rivers, estuaries, coastal waters, and ground water. (24 pgs.)

Summarizes state-reported data required by Section 314 of the Clean Water Act and reported in the state Section 305(b) reports. (23 pgs.)

Provides step-by-step methods for monitoring key lake water quality problems using citizen volunteers. Includes information on quality assurance/quality control (QA/QC) of data, data analysis and preservation, and equipment. (121 pgs.)

Describes existing volunteer monitoring programs. Focuses on the types of monitoring performed and the accuracy of results. Provides state environmental managers with recommendations for developing, implementing, and maintaining successful volunteer monitoring programs. (78 pgs.)

Technical

Identifies the regulatory requirements applicable to reissuance of 301(h) modified permits held by small dischargers, i.e., publicly-owned treatment works that have contributing populations under 50,000 and average dry weather flows of less than 5.0 million gallons per day. Discusses assessments and data analyses that are needed for small dischargers to satisfy applicable regulatory requirements and methods by which regulatory personnel may evaluate compliance with regulatory requirements. (88 pgs.)

Describes analytical methods which allow for sensitive analyses of the target compounds with a reasonable amount of laboratory effort. Discusses the analysis of extractable organic compounds, volatile organic compounds, metals, and metaloids.

Provides an overview of important environmental, biological, and chemical processes that affect bioaccumulation of chemical contaminants in marine and estuarine animals. Reviews predictive and empirical approaches used to determine the bioaccumulation potential of toxic chemicals. Describes a method for ranking EPA priority pollutants and 301(h) pesticides in terms of bioaccumulation potential. Provides guidance for selection of pollutants to analyze in 301(h) monitoring programs.

Bioaccumulation Monitoring Guidance:
2) Volume I. Selection of Target Species and
Review of Available
Bioaccumulation Data
EPA430/9-86/005
1985

Provides guidance for selecting target species for bioaccumulation monitoring studies to be conducted as part of the 301(h) sewage discharge program. Presents a compilation, evaluation, and summary of recent data on concentrations of priority pollutants in those species.

Bioaccumulation Monitoring Guidance:
2) Volume II. Selection of Target Species
and Review of Available
Bioaccumulation Data
EPA430/9-86/006
1985

Contains appendices which provide details of the compilation, evaluation, and summary of recent data on concentrations of priority pollutants in selected target species monitored for bioaccumulation.

Bioaccumulation Monitoring Guidance:
3) Recommended Analytical
Detection Limits
EPA503/6-90/001
1985

Reviews the factors that influence target pollutant detection units, and recommends minimum detection limits for bioaccumulation studies. Serves as a companion document to the recommended analytical protocols in the Bioaccumulation Monitoring Guidance series, although it is not designed to address specific analytical protocols.

Bioaccumulation Monitoring Guidance:
4) Analytical Methods for U.S. EPA
Priority Pollutants and 301(h) Pesticides in
Tissues From Estuarine & Marine Organisms
EPA503/6-90/002
5/86

Describes analytical methods which allow for sensitive analyses of the target compounds with a reasonable amount of laboratory effort. Discusses the analysis of extractable organic compounds, volatile organic compounds, metals, and metaloids.

Bioaccumulation Monitoring Guidance:
5) Strategies for Sample Replication and
Compositing
EPA430/9-87/003
6/87

Evaluates the applicability of alternative sampling strategies for bioaccumulation monitoring programs. Presents a statistical approach for determining the levels of difference in bioaccumulation that can be reliably detected with varying levels of sampling effort. Also presents example analyses from historical data to demonstrate the effects of alternative sampling designs. Uses the results of additional analyses employing simulation methods to provide a comparison of grab- and composite-sampling strategies. (51 pgs.)

Design of 301(h) Monitoring Programs
for Municipal Wastewater Discharges
to Marine Waters
EPA430/9-82/010
11/82

Provides guidance for designing monitoring programs that meet regulatory requirements in 40 CFR 125.62 and allow continuing assessment of the impact of less-than-secondary discharges on the receiving water marine environment. (135 pgs.)

Ecological Impacts of Sewage Discharges
on Coral Reef Communities
EPA430/9-83/010
9/83

Synthesizes current information on the ecological impact of sewage discharges on coral reefs. Addresses three major components of sewage pollution: eutrophication associated with high nutrient concentrations in discharged wastewaters, sedimentation of suspended solids, and toxic effects. (86 pgs.)

EPA Water Quality Progress
Reports/Water Quality
Program Highlights
EPA841-F-00-101

Documents EPA progress in improving water quality, and highlights monitoring and wasteload allocation activities. (Series of fact sheets)

Evaluation of Differential Loran-C for Positioning in Nearshore Marine and Estuarine Waters (Draft)
EPA842-S-88-100
1988

Examines the accuracy attainable using differential Loran-C for positioning ships based on data from historical studies and a field investigation off Southern California. Presents a methodology for determining the differential Loran-C error ellipse size at a number of United States coastal locations, allowing the permittee and regulatory agency staff to determine whether differential Loran-C accuracies are adequate at a particular discharge location.

Evaluation of Survey Positioning Methods for Nearshore Marine and Estuarine Waters
EPA430/9-86/003
3/87

Identifies navigational systems for use in particular situations, based on operating characteristics and cost. Provides descriptions and assessments of available location-finding techniques and equipment and provides assistance for minimizing measurement error.

Framework for 301(h) Monitoring Programs
EPA430/9-88/002
9/87

Provides guidance for publicly-owned treatment works on conducting monitoring programs to ensure compliance with 301(h) modified National Pollutant Discharge Elimination System (NPDES) permits. Describes how to design, implement, evaluate, and modify a 301(h) monitoring program. (44 pgs.)

Guidance for Conducting Fish Liver Histopathology Studies During 301(h) Monitoring
EPA430/9-87/004
5/87

Provides guidance for designing and conducting quantitative field surveys of fish liver histopathology as part of 301(h) monitoring programs to assess potential impacts of permitted sewage discharges on marine biota. Discusses study design, field sampling, laboratory analysis, and data interpretation and analysis. Directed at non-pathologists, such as monitoring program reviewers, permit writers, permittees, and other organizations involved in nearshore monitoring studies. (166 pgs.)

Guidelines for the Preparation of the 1992 State Water Quality Assessment 305(b) Reports
EPA841-B-89-112
2/89

Assists states in preparing biennial assessments of water quality. Focuses on improving the consistency of reported information, improving data quality and utility, and improving reporting of sediment contamination and fishing/shellfish advisories. These assessments are used by EPA and Congress to evaluate progress in maintaining and restoring water quality and to identify remaining pollution problems. (39 pgs.)

Linking Estuarine Water Quality and Impacts on Living Resources: Shrinking Striped Bass Habitat in Chesapeake Bay and Albemarle Sound
EPA503/3-88/001
9/88

Seeks to develop strategies and priorities for stopping habitat degradation and restoring lost habitats in estuaries through identification of critical zones for maintaining living resources. Presents a summary of initial results of a study to link water quality and critical zones for striped bass in Chesapeake Bay and Albemarle Sound, North Carolina. Analyses and conclusions are tentative and are subject to revision. (39 pgs.)

**Quality Assurance/Quality Control
(QA/QC) for 301(h) Monitoring Programs:
Guidance on Field and Laboratory Methods**
EPA430/9-86/004
3/87

Provides the framework for making informed decisions with respect to the field and laboratory methods used when monitoring the effects of sewage discharge on marine and estuarine ecosystems. Ensures that samples are collected, processed, stored, shipped, and analyzed using acceptable and standardized procedures, that the quality of generated data is documented adequately, that results are reported completely and correctly, and that security of samples and data is maintained at all times.

**Rapid Bioassessment Protocols for Use in
Streams and Rivers: Benthic
Macroinvertebrates and Fish**
EPA440/4-89/001
5/89

Serves as a reference to help states conduct cost-effective biological assessments of lotic systems. Presents three macroinvertebrate and two fish protocols. (162 pgs.)

**Recommended Biological Indices for 301(h)
Monitoring Programs**
EPA430/9-86/002
3/87

Recommends indices that should be used in the interpretation of 301(h) biological monitoring data. Indices recommended were judged on biological meaning, ease of interpretation, and sensitivity to community changes caused by pollutant impacts. (17 pgs.)

**Report on the Implementation of
Section 301(h)**
EPA430/9-84/007
8/84

Summarizes EPA program activities and accomplishments in implementing Section 301(h) of the Clean Water Act from 1978 to mid-1984. Discusses the technical findings resulting from a review of the 1979 301(h) applications from the 25 largest dischargers. Also presents recommendations for future 301(h) efforts. (79 pgs.)

**Revised Section 301(h) Technical Support
Document**
EPA430/9-82/011
11/82

Provides technical support for the major changes made in the Section 301(h) regulations since 1979. Offers technical explanations of the assessments required to obtain a 301(h) modified discharge permit and guidance for completion of the application questionnaires for small and large dischargers. All information is advisory only. (241 pgs.)

**Summary of U.S. EPA — Approved
Methods, Standard Methods, and Other
Guidance for 301(h) Monitoring Variables**
EPA503/4-90/002

Provides a discussion of available methods to collect thirty-two biological, sediment, and water quality variables included in 301(h) monitoring programs to evaluate the impact of modified discharges on marine biota, to demonstrate compliance with applicable water quality standards, and to measure toxic substances in the discharge.

**Watershed Monitoring and Reporting for
Section 319 National Monitoring
Program Projects**
EPA841-B-91-113
8/91

Outlines state monitoring and reporting requirements for watershed projects funded under Section 319 of the Clean Water Act. Reviews selection criteria for National Monitoring Program Projects. Describes four information files used in reporting: Section 305(b) Waterbody System, Management File, Monitoring Plan File, and Annual Report File. Also includes the data input and reporting software package, Nonpoint Source Management System, Version 3.0, and hard copy report forms. (90 pgs.)

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Four Bulletins are available through OWOW. If you would like to subscribe to any of these bulletins, please complete the order form on page 22 and send it to the address indicated.

Coastlines
Bimonthly

Disseminates information about estuaries and near coastal water. Produced by the Alliance for the Chesapeake Bay.

News-Notes
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Explores issues dealing with the condition of the environment and control of nonpoint sources of water pollution. Includes contacts for more information on the subjects covered, a calendar of meetings and events, and calls for papers. Written for state and local water quality managers, other interested public officials, environmental groups, private industry, citizens, and academics.

Volunteer Monitor
Biannually

Includes articles for and by citizen volunteer water monitors on volunteer methods, organizational and planning issues, resources for volunteers, current activities, and progress. Supported by EPA and co-edited by volunteer monitoring groups.

The Water Monitor
Monthly

Highlights monitoring activities in the states and Regions, summarizes and announces meetings and publications, and provides updates on innovative research and program developments. Allows surface water monitoring staff in the states, EPA Regions, and EPA Headquarters to exchange information on their programs and activities.

Watershed Events
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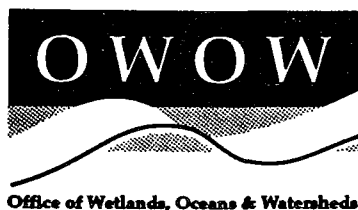
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