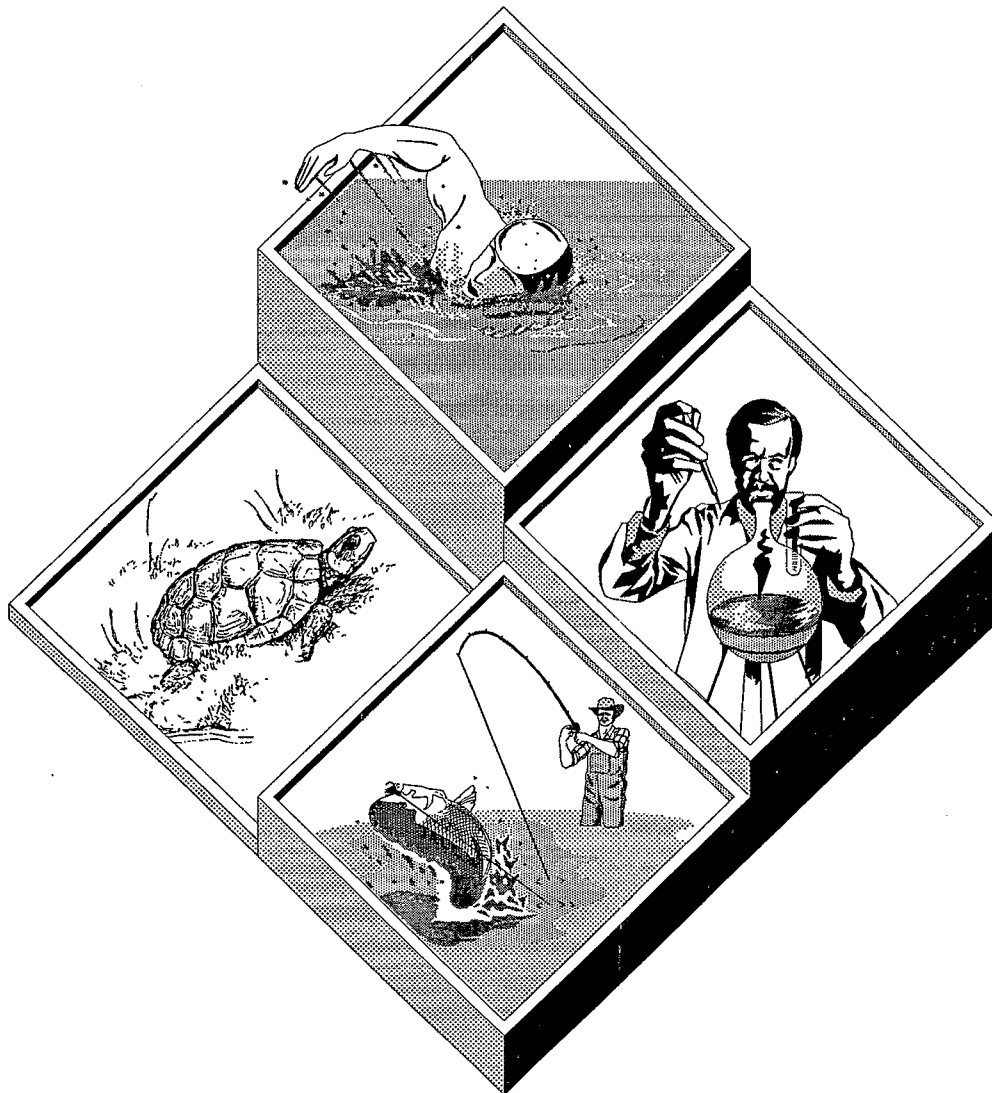




Water Quality Standards Handbook: Second Edition

Update #1



"... to restore and maintain the chemical,
physical, and biological integrity of the Nation's
waters."

Section 101(a) of the Clean Water Act





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 19 1994

OFFICE OF
WATER

Dear Colleague:

The following material contains the 1994 update to the document *Water Quality Standards Handbook - Second Edition*. Policy and technical changes to the *Handbook* are included for Chapters 3 and 4. Changes in Chapters 2, 3 and 7 also correct typographical and editorial errors. The Preface, Glossary, Introduction, and References Sections have been modified to reflect changes elsewhere in the *Handbook*.

Additions to Chapter 3 include:


- Section 3.6 incorporates EPA's policy on aquatic life metals criteria as modified by the *Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria* (USEPA, 1993f). This policy was signed as the 1993 printing of the *Handbook* went to press and we promised you revisions to reflect it (p. iv).
- Section 3.7 adds guidance on site-specific aquatic life criteria as modified by the *Interim Guidance on Determination and Use of Water-Effect Ratios for Metals* (included as new Appendix L), which provides interim guidance concerning the experimental determination of water-effect ratios (WERs) for metals and supersedes all guidance concerning water-effect ratios and the Indicator Species Procedure in USEPA, 1983a and in USEPA, 1984f. It also supersedes the guidance in these earlier documents for the Recalculation Procedure for performing site-specific aquatic life criteria modifications.

Conforming changes have also been made to other Sections of Chapter 3.

Section 4.6 has been added to Chapter 4 and includes guidance on the interpretation of the EPA's antidegradation policy as it relates to nonpoint sources as presented in the guidance memorandum *Interpretation of Federal Antidegradation Regulatory Requirement* (USEPA, 1994a).

Several Appendices have also been added or modified. New Appendix J provides additional material on EPA's policy on aquatic life criteria for metals. New Appendix L adds the *Interim Guidance on Determination and Use of Water-Effect Ratios for Metals*. Appendices U and V update the list of EPA Regional water quality standards coordinators and Standards and Applied Science Division document request forms, respectively. Appendix X has been added as a repository for this and future update instruction sheets so that a record of updates is maintained in the *Handbook*.

Please follow the instructions on the reverse.


David K. Sabock, Chief
Water Quality Standards Branch



Printed on Recycled Paper

WATER QUALITY STANDARDS HANDBOOK

SECOND EDITION - UPDATE #1

AUGUST 1994

FILING INSTRUCTIONS

Follow the instructions below carefully.

- ♦ With the addition of the new Appendices, the *Handbook* will require two 3-ring binders. Place the *Handbook* through page REF-6 in a 1" binder and the Appendices in a 3" binder before making the changes below.
- ♦ Proceed row by row down the chart following the instructions in both the "REMOVE" and "INSERT" columns for each row.
- ♦ Remove the obsolete pages listed in the "REMOVE" column from the *Handbook*.
- ♦ Insert the pages in the "INSERT" column in the appropriate places in the *Handbook*. These are the new or replacement pages contained in this package.

SECTION	REMOVE	INSERT
HANDBOOK		
Cover	Handbook cover	New Handbook cover
Title Page	Title Page	Title Page
Preface	pp. iii through viii	pp. iii through viii
Glossary	pp. GLOSS-3 through GLOSS-8	pp. GLOSS-3 through GLOSS-8
Introduction	pp. INT-7 and INT-8	pp. INT-7 and INT-8
Chapter 2	Chapter Table of Contents	Chapter Table of Contents
	pp. 2-5 and 2-6	pp. 2-5 and 2-6
Chapter 3	Chapter Table of Contents	Chapter Table of Contents
	pp. 3-1 through 3-48	pp. 3-1 through 3-45
Chapter 4	Chapter Table of Contents	Chapter Table of Contents
	pp. 4-7 through 4-13	pp. 4-7 through 4-14
Chapter 7	Chapter Table of Contents	Chapter Table of Contents
	pp. 7-7 through 7-13	pp. 7-7 through 7-13
References	pp. REF-1 through REF-9	pp. REF-1 through REF-9
APPENDICES		
Cover	none	Document cover for Appendices
Appendix J	Title Page (reserved)	Title Page and new Appendix J
Appendix L	Title Page (reserved)	Title Page and new Appendix L
Appendix U	WQS Coordinator list	WQS Coordinator list
Appendix V	all pages	new Document Request Forms
Appendix W	Update Request Form	new Update Request Form
Appendix X	none	Title Page and this page of instructions

If you have any trouble with missing pages or have other questions about this update to the Water Quality Standards Handbook, please call Bob Shippen at 202-260-1329.