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## George Cole, Water Boundaries

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last factor effecting recovery is soil salinity and its effects on plant growth. Briggs also provides information on how to obtain soil surveys and what information can be obtained from these surveys. This chapter includes a table of soil salinity tolerances of selected plant species.

Once all of these factors are delineated and the reader has a better understanding of them, Briggs devotes a chapter to developing a site specific recovery plan. He stresses the importance of developing project objectives, investigating the local, state, and federal permit requirements, community involvement, and post project evaluation and monitoring of the recovery effort.

This guidebook is easy to understand and provides information that could be readily applied to any reader's specific area of interest. The author provides guidance throughout the book on how and where to obtain critical diagnostic information. In addition, he includes informative charts, graphs, diagrams and a useful glossary. Finally, an extensive bibliography (part of which is arranged to present background literature by state, and by agency) makes it easier to access additional information on specific aspects of riparian ecosystem recovery.

*Tracy Rogers*

**GEORGE COLE, WATER BOUNDARIES**, John Wiley and Sons, Inc., New York (1997); \$55.00; 193pp; ISBN 0-471-17929-9, hardcover.

*Water Boundaries* presents a technical explanation of the accepted theories and techniques for locating legally defensible water boundaries. It includes mathematical equations and applications, as well as diagrams, charts and maps. In Cole's words, this treatise is an attempt "to provide a comprehensive overview of both the legal and technical aspects of the unique and specialized area of water boundaries." It is intended to be helpful to surveyors, attorneys involved with water boundary issues, public land managers, title and real estate professionals and others dealing with land planning, land development, offshore mineral extraction.

The text focuses primarily on coastal land boundaries, although there is some reference to river and lake boundaries. Cole explains that the surfaces of most water bodies are constantly changing due to tides and/or meteorological conditions. Also, the shoreline in many areas is subject to erosion and accretion caused by waves and currents. Therefore, water boundaries must be considered as four dimensional, including both height and time—dimensions not considered when determining land boundaries.

The information is divided into eleven chapters. Each chapter discusses a different type of geographic water body or type of boundary ownership. The first two chapters distinguish tidal sovereign from non-tidal sovereign water boundaries. Tidal sovereign boundaries are held under the generally accepted practice that the individual states hold title on behalf of the public to most of the submerged lands under navigable waters within their respective boundaries by virtue of the

public trust doctrine. The same doctrine holds true for non-tidal sovereign water boundaries within the individual states. Both chapters present techniques for locating these water boundaries, as well as case studies that further illustrate the techniques.

Later chapters explain which waters are sovereign, and discuss state, federal and national water boundaries. Cole's description of the boundaries between water bodies includes an in-depth discussion of bays. The final chapter provides a discussion of non-sovereign water boundaries. With the exception of the final chapter, the treatise primarily focuses on governmental ownership of water boundaries.

The appendix provides technical specifications for the survey of boundaries between public trust tidelands, submerged lands and adjacent uplands. Cole warns that these procedures should be determined on a case-by-case basis. All case citations are fully indexed, and references to journal articles, surveying information, and other material are provided. An index of terms comprises the final pages.

*Laurie Lingle*

**LYNN GALLAGHER AND LEONARD MILLER, CLEAN WATER HANDBOOK,** Government Institutes, Inc., Rockville, Maryland (1996); 439pp; (\$89.00); ISBN 0-86587-512-X, softcover.

The *Clean Water Handbook* is a theoretical and practical guide to a clear understanding of federal clean water law. Lynn Gallagher and Leonard Miller have written a general handbook to guide practitioners and other interested persons through the comprehensive and complex structure of the Clean Water Act. The authors have extensive experience in environmental law. They previously co-authored the *NPDES Permit Handbook* (Government Institutes, 2nd ed., 1992). Mr. Miller, while working for the U.S. Environmental Protection Agency ("EPA") in 1976, directed changes in the NPDES permit program. From 1979 to 1980, he was the Acting Deputy Assistant Administrator responsible for enforcement of the EPA's water quality and hazardous waste rules.

The handbook is segmented into nine chapters, or sections, beginning with a brief overview of the various laws which culminated in the passage of the Federal Clean Water Act ("Act"). The first chapter includes elements of the Act, key terms, and statutory and regulatory definitions. The other chapters discuss the NPDES permit program; effluent limitations; effluent toxicity control; pre-treatment programs; storm water and non-point source discharges; preventing, reporting and responding to spills; wetlands and the dredge and fill permit program; and enforcement under the Act. Two helpful appendices contain a list of acronyms and a copy of the Act itself. The writing is clear and avoids legalese, yet without compromising detail. Each section begins with a content box which overviews the material presented at a glance. Pertinent regulations are discussed, as is relevant case law.

Chapter two, which is on the NPDES permit program, covers the various responsible authorities involved in obtaining a permit; the steps involved in completing the permitting process; and includes ref-