Table of Contents

SAN FRANCISCO BAY: USE and PROTECTION

Edited by
William J. Kockelman, T. John Conomos, and Alan E. Leviton

FOREWORD, Alan E. Leviton ................................................................. 5

INTRODUCTION, William J. Kockelman .................................................. 7

KEYNOTE, Man’s Effects on Estuarine Shorelines—New York Harbor, A
Case Study, M. Grant Gross ................................................................. 9

IN RETROSPECT, The San Francisco Bay Ecosystem: A Retrospective Overview,
Curtiss O. Davis ................................................................................. 17

SESSION I: THE SHORE ZONE
Problems of Permit Processing in the San Francisco Bay Area,
Michael H. Cheney ............................................................................. 39

Improved Coordination for Planning and Granting Permits in Coastal Areas,
H. Grant Dehart and Michael Glazer ................................................ 43

Physical and Biological Constraints on Man’s Use of the Shore Zone of the
San Francisco Bay Estuary, Michael N. Josselyn and Brian F. Atwater .......... 57

Regional Planning for San Francisco Bay—An Experiment in Coastal Zone
Management, Jack Knecht and Stanley R. Euston .................................. 85

Bay Conservation and Development Commission’s Experience in
Shoreline Management: Problems and Opportunities, Michael B. Wilmar ......... 99

Protecting Suisun Marsh—85,000 Acres of Aquatic and Wildlife Habitat,
William J. Kockelman and Jeffry S. Blanchfield ..................................... 109

Shoreline Management: Use of a Different Criterion, Joseph E. Tieger ............. 117
Discussion for Session I, William J. Kockelman, Chair ........................................121

SESSION II: WASTE DISPOSAL
Water and Waste Inputs to San Francisco Estuary—An Historical Perspective, Peter P. Russell, Taras A. Bursztynsky, Lorene A. Jackson, and Eugene Y. Leong ................................................................................................................127

The Impact of Waste-Water Discharge on Biological Communities in San Francisco Bay, S.N. Luoma and J.E. Cloern .............................................................137

The Impact of Waste-Water Disposal in the San Francisco Bay Area, Philip G. Hal...161

Discussion for Session II, Jean Auer, Chair ..........................................................163

SESSION III: DIVERSIONS AND DRAINS
A History of Diversions, Gerald H. Meral ..............................................................165

The Expanding California Water System, Richard Walker and Michael Storper ......171

The Fable of the Old Man and the Water King, William J. Miller ................. 191

Increased Diversions from the Sacramento-San Joaquin Delta/San Francisco Bay System: A Prescription for Environmental Disaster, Thomas J. Graff .............197

Factors Related to the Number of Striped Bass in the Sacramento-San Joaquin Estuary, Thomas C. Cannon .................................................................201

Biological Effects of Water Projects on the Sacramento-San Joaquin Estuary, H.K. Chadwick .................................................................215
Solving the Delta Problem, Don W. Kelley .....................................................221

Discussion for Session III, Erwin Siebel, Chair ............................................. 227

SESSION IV: SHIP CHANNELS
Overview of the Port of Oakland’s Development as a Container Terminal:
1965 to 1980, Charles R. Roberts......................................................................231

Analysis of Petroleum Terminals in the San Francisco Bay Region, San
Francisco Bay Conservation and Development Commission ...................... 235

Dredging, Michael J. Giari .............................................................................243

A Method for Assessing the Potential Impacts of Discharges of Dredged
Material into San Francisco Bay, Calvin C. Fong, Karen L. Daniels, and
Wendy W. N. Lee .........................................................................................259

Sediment Circulation in San Francisco Bay, John f. Sustar ..............................271

Discussion for Session IV, John F. Sustar, Chair ............................................281

SUMMARY, T. John Conomos .......................................................................285

APPENDIX, Excerpts from the San Francisco Bay Conservation and
Development Commission “Bay Plan” .............................................................287

ISBN 0-934394-04-0;1982, paper, 310pp. $17.95