Contents

Introduction: Water History is World History ix
_Terje Tvedt and Eva Jacobsson_

**Part I: Great Plans**

1. Seizing Favours from Nature: The Rise and Fall of Siberian River Diversion
   _D.F. Duke_ 3

2. The World’s Largest Contiguous Irrigation System: Developments, Successes and Challenges of the Indus Irrigation System in Pakistan
   _M.A. Kaibloun, A.D. Khan and M. Azam_ 35

3. Of Flumes, Modules and Barrels: The Failure of Irrigation Institutions and Technologies to Achieve Equitable Water Control in the Indus Basin
   _G.E. van Halsema and L. Vincent_ 55

   _D.A. Pietz_ 92

5. The Chinese Way of Harnessing Rivers: The Yangtze River
   _F. Padovani_ 120

6. Water Control and Agricultural Development: Crafting Deltaic Environments in South-East Asia
   _F. Molle and D.T. Tuân_ 144

   _F. Miller_ 172

8. Living with Water: Bangladesh Since Ancient Times
   _A. Kamal_ 194
Part II: River Biographies

9. The History of the Tama River: Social Reconstructions
   M.W. Steele 217

10. 'Seeing Like the Prussian State': Re-engineering the Rivers of Rhineland and Westphalia
    M. Cioc 239

11. The River has Recorded the Story, Living with the Hawkesbury River, Sydney, NSW, Australia
    B. Simmons and J. Scott 253

12. Poverty, Water and Environmental Degradation: The Langat River Basin, Malaysia
    C. Siwar and S. Idrus 277

Part III: Water in Cities

13. Water and Wastes in Medieval London
    R.J. Magnusson 299

14. Critical Decisions in Pittsburgh Water and Wastewater Treatment
    J.A. Tarr and T.F. Josie 314

15. Water, Modernity and the Demise of the Bacteriological City
    M. Gandy 347

16. Socio-Economic Implications of Water Supply in Nigerian Urban Centres: The Case of Ibadan
    I.O. Adelekan 372

17. The Political Ecology of Water Supply in Chennai, South India
    E. Weber 388

Part IV: Organizing Water

18. Keeping Running Water Clean: Mining and Pollution in Preindustrial Japan
    P.G. Sippel 419

19. Management of Wetlands in Relation to River Basins – a Study from South-West India
    E.J. James 437
20. Public Water Supply in Guernsey, Channel Islands: Engineers, Entrepreneurs, Ownership and Control in an Island Setting
   V. Gardiner 460

21. The Mfongo Irrigation Systems on the Slopes of Mt Kilimanjaro, Tanzania
   M. Tagseth 488

22. Alkalinity, Salinity and California Irrigation: The Role of Eugene Woldemar Hilgard
   W.E. Pittman 507

Part V: Debating Water

23. The Rescue of English Coastal Waters and the Role of Environmental Pressure Groups
   J. Hassan 525

24. Management of the Mekong River Basin: Contesting its Sustainability from a Communication Perspective
   M.T. Lang 552

25. The Bío–Bío Project and the Mapuche-Pehuenche People of Chile
   I. Norbø 581

Contributors 609

Index 613