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Nota di contenuto	The Water Framework Directive; Contents; Series Preface; Preface; List of Contributors; SECTION 1 GENERAL WFD MONITORING FEATURES; 1.1 Water Status Monitoring under the WFD; 1.2 Chemical Monitoring of Surface Waters; 1.3 The Monitoring of Ecological Status of European Freshwaters; SECTION 2 CASE STUDIES ON MONITORING DIFFERENT AQUATIC ENVIRONMENTS UNDER THE WFD; 2.1 Lake Monitoring in Sweden; 2.2 River Monitoring; 2.3 Groundwater Monitoring: Implementation in Two Member States; 2.4 Coastal and Marine Monitoring; SECTION 3 ANALYTICAL TOOLS IN SUPPORT OF WFD MONITORING 3.1 Emerging Methods for Water Monitoring in the Context of the WFD 3.2 Diagnostic Water Quality Instruments for Use in the European Water Framework Directive; SECTION 4 MODELLING TOOLS IN SUPPORT OF WFD MONITORING; 4.1 Joint Modelling and Monitoring of Aquatic Ecosystems; 4.2 Integrated River Basin Management: Harmonised Modelling Tools and Decision-making Process; SECTION 5

HYDROGEOLOGICAL COMPONENTS AND GROUNDWATER STATUS; 5.1 Groundwater Quality Monitoring: The Overriding Importance of Hydrogeologic Typology (and Need for 4D Thinking) 5.2 Contribution of Hydrogeological Mapping to Water Monitoring Programmes 5.3 Establishing Environmental Groundwater Quality Standards; SECTION 6 SEDIMENT MONITORING; 6.1 Sediment Dynamics and their Influence on the Design of Monitoring Programmes; 6.2 Monitoring Sediment Quality Using Toxicity Tests as Primary Tools for any Risk Assessment; SECTION 7 RISK ASSESSMENT LINKED TO MONITORING; 7.1 River Basin Risk Assessment Linked to Monitoring and Management 7.2 Emerging Contaminants in the Water-sediment System: Case Studies of Pharmaceuticals and Brominated Flame Retardants in the Ebro River Basin 7.3 Assessment of Metal Bioavailability and Natural Background Levels - WFD Monitoring from the Perspective of Metals Industry; 7.4 Freshwater Ecosystem Responses to Climate Change: the Euro-impacs Project; SECTION 8 ENSURING DATA QUALITY; 8.1 NORMAN - Network of Reference Laboratories for Monitoring of Emerging Substances; 8.2 Data Quality Assurance of Sediment Monitoring; SECTION 9 REPORTING REQUIREMENTS 9.1 Reporting Requirements for Priority Substances SECTION 10 CONCLUSIONS; 10.1 Needs for an Operational Science-Policy Mechanism in Support of WFD Monitoring - National and Regional Examples; 10.2 Support for WFD Research Needs: Current Activities and Future Perspectives in the Context of RTD Framework Programmes; Index

Sommario/riassunto

Deals with new EC legislation - the Water Framework Directive; the main driver within Europe for groundwater monitoring which addresses integrated water resource management across 27 different countries Provides comprehensive approach and guidance on the theoretical and practical aspects for implementing the directive Edited by EC representatives involved in the setting up of the framework, along with colleagues in various water institutions who have the task of implementing the legislation Part of the Water Quality Measurement Series
