

Is Remediated Groundwater Meeting SDWA Requirements?

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and E. Timothy Oppelt

Treating groundwater for drinking purposes is quite different from treating it for site remediation. However, given that aquifer cleanup goals are becoming more stringent, it has been suggested that drinking water treatment technology be integrated into groundwater remediation strategies as a final polishing step and as a means of meeting the requirements of the Safe Drinking Water Act. This article discusses how traditional drinking water treatment technologies could be used for dealing with hazardous waste sites, including cost, performance, and applicability. Pump and treat technology as used in groundwater remediation is compared with that employed in drinking water applications.

Groundwater treatment concerns many water utilities and state, local, and federal programs, including drinking water, Superfund, underground storage tank, and Resource Conservation and Recovery Act programs. Frequently the same terms are used in the different programs with quite different meanings. For example, the phrase "pump and treat" means one thing when groundwater treatment for potable purposes is being considered and something quite

different for Superfund remediation. Another confusing term is "site remediation." Site remediation can mean different things to different people depending on their particular point of view. Other problems are the development and use of technology under one program that could be used effectively in another program. Institutional barriers frequently limit the transfer of useful research between programs. This article discusses the technological research

being conducted in the field of drinking water that might be useful to some of the other programs.

Once emergency remedial actions have been completed and long-term solutions are being evaluated, the decision-maker must be aware of the myriad regulations that need to be satisfied and the various treatment goals and objectives that federal, state, and local agencies want to accomplish. For example, the objective of an aquifer remediation program is usually to restore the aquifer to its original condition. Recent reviews of past remediations^{1,2} have shown that strategies that are effective in reducing tens or hundreds of milligrams per litre of various contaminants in highly polluted aquifers to a concentration of one milligram per litre or less can still leave behind groundwater that exceeds the maximum contaminant level (MCL) allowed by the Safe Drinking Water Act (SDWA). Therefore, additional treatment of the groundwater is required before the water can be consumed.

In contrast to an aquifer remediation program, the objective of water utilities and drinking water programs in pumping contaminated groundwater to the surface and then treating it is to provide potable drinking water and reduce consumers' exposure to the contaminants, without considering the changes in aquifer contamination. Pump and treat has been utilized in groundwater remediations to return the aquifer to its original condition. This is in essence a different application of pump and treat technology even though the terminology is the same. Aquifer and contaminant characteristics may prevent aquifer cleanup through simply pumping the water out, treating it, and pumping it back into the aquifer.

TABLE 1
Current regulatory programs^a

Regulation	Number of Contaminants Regulated	Explanation
VOCs	8	Initially 8 MCLs
SOCs, inorganics	37	30 MCLs for organic chemicals; 7 MCLs for inorganics, chemically
SOCs, inorganics, radionuclides	30	18 additional MCLs for organic chemicals; 7 additional MCLs for inorganic chemicals; 5 MCLs for radionuclides
Lead, copper	2	Regulations for lead and copper
Disinfection by products		Under development
Disinfection (groundwater)		Under development
Surface Water	5	Includes 5 microbiological standards
Treatment Rule		
Coliform Rule	1	Includes 1 additional microbiological standard
Total	83	

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**Robert L. Wubbena, AWWA Research
Foundation**



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Strategies and Technologies for Meeting SDWA Requirements R. Scott Summers, 1993-01-03 Waterborne Pathogens AWWA Staff, 2006 **Controlling Disinfection By-products and Microbial Contaminants in Drinking Water** Robert M. Clark, Brenda K. Boutin, 2001 **National Conference on Environmental Problem-Solving with Geographic Information Systems**, 1995 Handbook of Water and Wastewater Systems Protection Robert M. Clark, Simon Hakim, Avi Ostfeld, 2011-09-01

Following the events of 9 11 the Administrator of the US Environmental Protection Agency created the Water Protection Task Force WPTF which identified water and wastewater systems as a major area of vulnerability to deliberate attack The WPTF suggested that there are steps that can be taken to reduce these vulnerabilities and to make it as difficult as possible for potential saboteurs to succeed The WPTF recommended that be scrutinized with renewed vigor to secure water and wastewater systems against these possible threats It also recommended that water and wastewater systems have a response plan in place in the event an act of terrorism occurs The WPTF identified water distribution networks as an area of special vulnerability and highlighted the need for rapid on line detection methods that are accurate and have a wide detection range As a result of these recommendations novel technologies from various fields of science and engineering are now addressing water security issues and water and wastewater utilities are looking for innovative solutions Once such technologies are available there will be a rapid implementation process that will present many business opportunities for the private sector However in addition to terrorist threats water and wastewater systems are inherently vulnerable to natural disasters such as earthquakes and floods This volume will address the problems associated with both intended terrorist attacks and natural disasters affecting water or wastewater systems The book is divided into parts based on the kinds of threats facing water and wastewater systems 1 a direct attack on water and wastewater infrastructure storage reservoirs and distribution and collection networks 2 a cyber attack disabling the functionality of the water and wastewater systems or taking over control of key components which might result in system failures and 3 a deliberate chemical or biological contaminant injection at one of the water distribution system s nodes It will examine unique plans technological and managerial innovations for protecting such systems and includes descriptions of projects that were implemented to respond to natural disasters Case studies are presented that discuss existing projects and evaluate their performance with an emphasis on providing guidelines and techniques that can be implemented by water and wastewater planners and managers to deal with natural and manmade disasters should they occur **Stantec's Water Treatment** John C. Crittenden, R. Rhodes Trussell, David W. Hand, Kerry J. Howe, George Tchobanoglous, 2022-11-08 The updated third edition of the definitive guide to water treatment engineering now with all new online content Stantec s Water Treatment Principles and Design provides comprehensive coverage of the principles theory and practice of water treatment engineering Written by world renowned experts in the field of public water supply this authoritative volume covers all key aspects of water

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Microbial Quality of Water Supply in Distribution Systems Edwin E. Geldreich, 2020-07-26 Hidden problems buried deep in the pipe networks of water distribution systems are very serious potential threats to water quality Microbial Quality of Water Supply in Distribution Systems outlines the processes and issues related to the degradation of water quality upon passage through networks of pipes storage reservoirs and standpipes on its way to the consumer The risks associated with biofilm accumulation bacteria and other contaminants are discussed in great detail In addition to its excellent microbiological coverage of organisms in drinking water and biofilms in distribution systems Microbial Quality of Water Supply in Distribution Systems provides clear treatments of the technical and public communication issues most commonly affecting the quality of water and water supply systems The inclusion of numerous case histories in this new book makes it a complete reference source for anyone concerned with water quality and water distribution systems **Adsorption Technology in**

Water Treatment Eckhard Worch, 2021-04-19 This book treats the theoretical fundamentals of adsorption technology for water treatment from a practical perspective It presents all the basics needed for experimental adsorption studies as well as for process modeling and adsorber design According to the increasing importance of micropollutants in the water cycle particular attention is paid to their competitive adsorption in the presence of background organic matter The current edition considers recent developments in adsorption theory and practice *Risk Assessment for Water Infrastructure Safety and Security* Anna Doro-on, 2011-08-17 One of the seventeen critical infrastructures vital to the security of the United States the water supply system remains largely unprotected from the threat of terrorism including possible revenge by Al Qaeda over the killing of Osama Bin Laden Recognizing and identifying prospective events of terrorism against the water infrastructure

is critical to the protection of the nation as the consequences triggered by a terrorist attack on the water supply would be devastating Risk Assessment for Water Infrastructure Safety and Security provides a unique quantitative risk assessment methodology for protection and security against terrorist contamination vandalism attacks against dams and other threats to water supply systems Focusing on the human safety environmental and economic consequences triggered by potential terrorist attacks and other threats the book presents The development of an integrated approach of risk assessment based upon the cumulative prospect theory The qualitative quantitative processes and models for security and safe facility operations as required by EPA DHS and other governmental and regulatory agencies The application of an integrated model to the risk assessment of surface water dams wells wastewater treatment facilities reservoirs and aqueducts of large urban regions The development of intelligence analysis incorporating risk assessment for terrorism prevention Finally the book presents the legal and regulatory requirements and policy related to the protection and security of water infrastructure from terrorism and natural hazards to both human health and the environment By analyzing potential terrorist risks against the water supply strategic improvements in U S water infrastructure security may be achieved including changes in policy incorporation of intrusion detection technology increased surveillance and increased intelligence More information can be found on the author s website

Characterization and Modeling of Chlorine Decay in Distribution Systems John J. Vasconcelos, Paul F. Boulous, Walter M. Grayman, 1996 Small System Compliance Technology List for the Non-microbial Contaminants Regulated Before 1996, 1998 Haloforms and Related Compounds in Drinking Water Anastasia

Nikolaou, 2012-12-06 Drinking water quality has been a matter of concern for several decades Disinfection of drinking water improves its microbiological quality and prevents disease outbreaks However continuously increasing scientific research concerns the presence of organic and inorganic contaminants in water Many of these compounds named haloforms originate from the procedure of disinfection being formed during reactions of disinfectants with natural organic matter present in water Haloforms may possess carcinogenic or mutagenic properties therefore minimization of their concentrations in drinking water is a critical issue Regulatory measures are becoming more and more stringent as new health effects become known and optimized high sensitivity analytical methodologies are being developed Up to date research findings concerning all these aspects have been collected critically reviewed summarized and are presented and discussed in the present book

Resources and References Donna S. Kocurek, Bayle Woodside, 1995-12-31 This guide book provides references and resources for the complex field of hazardous waste and hazardous materials management The book is divided into general topics such as air quality industrial wastewater pollution prevention and risk assessment under hazardous waste management and chemical hazards emergency planning and hazard communication under hazardous materials management Each individual section includes a list of annotated bibliographies of the most recent books by major publishers as well as established standard references Following the annotated titles are additional references of books and documents by

publishers technical associations and governmental agencies primarily the U S Environmental Protection Agency In general only references from 1986 onward are included since the technology and regulations affecting hazardous waste and materials are constantly evolving Additional resources included in the book are video tapes for training and instruction information services and databases libraries agency contacts technical journals and a list of publishers and ordering information This book will be a useful reference to professionals in the environmental field who need an extensive but concise source of technical information and contacts The book will be a valuable addition to individual libraries and will fill a current reference void in university libraries and technical libraries in industry and government At present there are very few technical bibliographies in the field and none has covered topics related to hazardous materials and hazardous waste as extensively as this book

Strategic Business Planning as a Water Resource Management Tool Robert L. Wubbena, AWWA Research Foundation, 2002

Waterborne Pathogens American Water Works Association, 1999 This addition to the AWWA Manual Library was developed to provide critical information regarding waterborne viral bacterial and parasitic pathogens Readers learn how to assess current levels of contaminants in source water contain them and then optimize treatment programs

Safe Drinking Water Act and Its Interpretation Thomas W. Carter, 2006 Key drinking water issues include problems caused by specific contaminants such as the gasoline additive methyl tertiary butyl ether MTBE perchlorate and lead as well as the related issue of the appropriate federal role in providing financial assistance for water infrastructure projects Congress last reauthorised the Safe Drinking Water Act SDWA in 1996 and although funding authority for most SDWA programs expired in FY2003 broad reauthorization efforts are not expected as EPA states and water utilities remain busy implementing the requirements of the 1996 amendments Concerns about perchlorate in drinking water also have returned to the congressional agenda after the past Congress enacted several provisions on this issue H R 213 has been introduced to require EPA to set a drinking water standard for perchlorate in 2007 and a January 2005 National Academy of Sciences report on the health effects of perchlorate has increased oversight interest in perchlorate regulatory activities at EPA Concerns over the security of the nation s drinking water supplies were addressed by the 107th Congress through the Bioterrorism Preparedness Act P L 107 188 which amended SDWA to require community water systems to conduct vulnerability assessments and prepare emergency response plans Subsequent congressional action has involved oversight and funding of water security assessment and planning efforts and research An ongoing SDWA issue involves the growing cost and complexity of drinking water standards and the ability of water systems especially small rural systems to comply with standards The issue of the cost of drinking water standards particularly the new arsenic standard has merged with the larger debate over the federal role in assisting communities with financing drinking water infrastructure an issue that has become more challenging in a time of tightened budgets Congress authorized a drinking water state revolving fund DWSRF program in 1996 to help communities finance projects needed to meet standards For FY2005 Congress provided 843 million

for the DWSRF program and the President has requested 850 million for FY2006 Notwithstanding this program studies show that a large funding gap exists and will grow as SDWA requirements increase and infrastructure ages **Federal Register**,2012-05 *Selected Water Resources Abstracts* ,1991-10 *A Strategic Assessment of the Future of Water Utilities* Edward G. Means,2006 Forty three 43 water professionals met to discuss and develop the ten top future trends and formulate the strategies to deal with each trend Nineteen trends are presented within this paper The top ten trends are described along with potential implications and coping strategies are Energy Drinking Water Industry Employment and Workforce Issues Political Environment Population and Demographic Trends Regulatory Trends Total Water Management Customer Expectations Information Technology Utility Finances Information Security The nine future trends identified and discussed are Automation Climate Change Health Trends Medical Trends Regionalization Trends Drinking Water Treatment Technology Issues Economic Trends Private Sector Participation Physical Security CD is included **Planning, Design and Operation of Effluent Disinfection Systems** ,1993

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