

Reuse *of* Surfactants *and* Cosolvents *for* NAPL Remediation

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Surfactants And Cosolvents For Npl Remediation

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Surfactants And Cosolvents For Napl Remediation:

Surfactants and Cosolvents for NAPL Remediation A Technology Practices Manual Donald F. Lowe, Carroll L. Oubre, C. H. Ward, 1999-03-26 A 19.3 million Department of Defense grant to Rice University funds the Advanced Applied Technology Demonstration Facility AATDF. One of the project goals is the development of reduction strategies for nonaqueous phase liquids (NAPLs) in the subsurface. *Surfactants and Cosolvents for NAPL Remediation* records the results of AATDF research. The manual is a guide to the practical application of surfactants and cosolvents for in situ remediation. It is targeted to decision makers and anyone concerned with the design or implementation of these technologies. The book discusses the situational viability of surfactants and cosolvents, the possible results, design, and operation. It includes case studies, step-by-step guidance, and project cost worksheets. The successful results of the AATDF research, as documented in *Surfactants and Cosolvents for NAPL Remediation*, are an invaluable contribution to the future of subsurface remediation. Without source NAPL reduction, the alternative is decades of plume management through pump and treat. *Surfactants and Cosolvents for NAPL Remediation* Donald F. Lowe, Carroll L. Oubre, Calvin Herbert Ward, 1999. *Reuse of Surfactants and Cosolvents for NAPL Remediation* Jeffrey H. Harwell, 2000. This monograph explores new and unconventional methods of in situ ground water remediation treatment. The editors provide the results of laboratory studies and field tests of the new technology and discuss its performance and potential applications. They also give a costs and an economic analysis of its use. *NAPL Removal: Surfactants, Foams, and Microemulsions* C. H. Ward, 2016-04-19. Complete and quantitative NAPL removal: surfactants, foams, and microemulsions belongs to a ten monograph series that records the results of the Department of Defense Advanced Applied Technology Demonstration Facility environmental technology demonstrations. It presents the outcome of field demonstrations of innovative in situ remediation technology. *Modular Remediation Testing Systems* C. H. Ward, Katharine Balshaw-Biddle, Carroll L. Oubre, 1999-08-23. *Modular Remediation Testing Systems* documents a unique modular testing environment designed for use in the development of remediation technology and for on-site selection of remedial technologies. This complete design and operation manual gives you the tools you need to conduct successful, cost-effective remediation projects. The major attributes of this system, the Experimental Controlled Release System (ECRS), that distinguish it from past test facilities include the following: Portable: shippable to the researcher's location or remediation site. Tightly sealable: facilitates mass balance. Large pilot scale facility: step below full scale demonstration. Flexible testing conditions: vadose zone or aquifer, chemical release or contaminated soil, air sparging or SVE. Easy to construct: design drawings developed. Standard equipment: Easy to operate and maintain. Easy access: standard equipment. Affordable: easily shipped and set up. Reduced regulatory requirements: minimal maintenance. Faster tests: reduced or eliminated permitting. Operate within one week of arrival: programmable for 24-hour duration. This monograph presents key information needed to design, construct, and operate similar modular remediation testing systems or to utilize the two existing modular ECRS.

facilities The well sealed above ground modular system design minimizes leaks to the environment facilitates mass balances and controls test conditions This allows for multiple uses with minimal permitting Modular Remediation Testing Systems is a comprehensive reference for researchers in environmental engineering and for engineering consultants and regulators looking for a pilot scale system These pilot scale systems are uniquely suited to both research development and real world application at remediation sites

Remediation of Firing Range Impact Berms C. H. Ward, 2016-04-19 A part of the continuing effort to provide innovative in situ remediation techniques Remediation of Firing Range Impact Berms presents the results of a soil washing and leaching project The demonstration set as its primary objective providing reliable detailed performance data to evaluate the feasibility and cost of implementing a full scale sys

Phytoremediation of Hydrocarbon-Contaminated Soils Stephanie Fiorenza, Carroll L. Oubre, C. H. Ward, 2020-12-17 Interest in phytoremediation as a solution for contaminants in groundwater and soil has exploded The project documented in Phytoremediation of Hydrocarbon Contaminated Soils presents innovative technology for environmental clean up using in situ treatment It describes the results of a field study focusing on hydrocarbon contamination especially polynuclear aromatic hydrocarbons in surface and near surface soils The field demonstration used soils contaminated with aged diesel fuels The random block design enabled the investigators to test the statistical difference in the effects of different vegetated and unvegetated treatments They tested the degradation of diesel and polynuclear aromatic hydrocarbon components in plots containing three different vegetation treatments two grasses and a legume and a non vegetated control Part one of the monograph gives a complete and thorough account of the results of the field study Part two covers the design and potential costs of a full scale implementation of the demonstration system as well as the performance and potential application of the new technology Phytoremediation of Hydrocarbon Contaminated Soils supplies quantitative results about the use of vegetation in soil remediation The information given on the niches and limitations of the technologies allows for a more informed selection of remedial solutions for environmental cleanup

Chlorinated Solvent Source Zone Remediation Bernard H. Kueper, Hans F. Stroo, Catherine M. Vogel, C. Herb Ward, 2014-04-22 The purpose of this book is to help engineers and scientists better understand dense nonaqueous phase liquid DNAPL contamination of groundwater and the methods and technology used for characterization and remediation Remediation of DNAPL source zones is very difficult and controversial and must be based on state of the art knowledge of the behavior transport and fate of nonaqueous phase liquids in the subsurface and site specific geology chemistry and hydrology This volume is focused on the characterization and remediation of nonaqueous phase chlorinated solvents and it is hoped that mid level engineers and scientists will find this book helpful in understanding the current state of practice of DNAPL source zone management and remediation

Subsurface Contamination Monitoring Using Laser Fluorescence Katharine Balshaw-Biddle, Carroll L. Oubre, C. H. Ward, 2019-08-16 While innovative technologies in remediation need to be developed so do innovative ways of site assessment This monograph

describes the development testing and performance of a new laser induced fluorescence soil probe A screening tool for site characterization this probe has the potential to provide an economical rapid assessment of contaminated sites Cone Penetrometer testing equipment advances the probe into the subsurface The probe identifies hydrocarbon classes using a multi channel excitation emission matrix This technique facilitates the collection of significant amounts of subsurface information surpassing conventional data collection methods that can be used to rapidly identify areas of concern beneath a site The technology has significant application for the following Rapid environmental site assessment Monitoring remediation programs Monitoring manufacturing processes and industrial waste water operations Subsurface Contamination Monitoring Using Laser Fluorescence provides comprehensive reference material for researchers and engineers as well as engineering consultants interested in subsurface monitoring techniques or further development of this technology It describes innovative technology that focuses on finding cost effective solutions for site assessment and remediation Soil Vapor Extraction

Using Radio Frequency Heating Donald F. Lowe,Carroll L. Oubre,C. H. Ward,2023-05-31 One of the most widely used techniques for treating soils contaminated with volatile organic compounds soil vapor extraction SVE can also be applied to semi volatile organic compounds SVOCs if the soil is heated by applying electromagnetic energy in the radio frequency FR range to increase the vapor pressure of the contaminants Although RF SVE systems used in previous field demonstrations have had varying degrees of success questions remain concerning its viability and cost effectiveness Soil Vapor Extraction Using Radio Frequency Heating Resource Manual and Technology Demonstration covers detailed scientific and engineering information that answers these questions The book includes the necessary databases equations and example calculations for RF heating The theoretical and practical information included will facilitate future testing of RF SVE treatment of soils Additionally the book provides information for a full scale engineering design of potential RF SVE applications The authors use this information to examine predicted performance magnitude of costs and modifications to the design that may decrease cost Soil Vapor Extraction Using Radio Frequency Heating Resource Manual and Technology Demonstration gives an economic analysis of this innovative technology and considers other possible applications for it Features **Contaminant**

Hydrogeology C. W. Fetter,Thomas Boving,David Kreamer,2017-10-24 Tremendous progress has been made in the field of remediation technologies since the second edition of Contaminant Hydrogeology was published two decades ago and its content is more important than ever Recognizing the extensive advancement and research taking place around the world the authors have embraced and worked from a larger global perspective Boving and Kreamer incorporate environmental innovation in studying and treating groundwater soil contamination and the transport of those contaminants while building on Fetter s original foundational work Thoroughly updated expanded and reorganized the new edition presents a wealth of new material including new discussions of emerging and potential contaminant sources and their characteristics like deep well injection fracking fluids and in situ leach mining New sections cover BET and Polanyi adsorption potential theory vapor

transport theory the introduction of the Capillary and Bond Numbers the partitioning interwell tracer testing technique for investigating NAPL sites aerial photographic interpretation geophysics immunological surveys high resolution vertical sampling flexible liner systems groundwater tracers and much more Contaminant Hydrogeology is intended as a textbook in upper level courses in mass transport and contaminant hydrogeology and remains a valuable resource for professionals in both the public and private sectors **Geoenvironmental Engineering** Raymond N. Yong, Raymond Nen Yong, H. R.

Thomas, 1999 Geoenvironmental engineering issues are of increasing importance around the world This international trend is apparent in the UK governments active encouragement of the use of brownfield sites for urban development to ease the pressure on the countryside This book contains the collected papers from the 2nd Geoenvironmental Engineering Conference organised by the British Geotechnical Society and Cardiff Universitys Geoenvironmental Engineering Research Centre

Handbook of Environment & Waste Management Yung-Tse Hung, 2014 The Handbook of Environment and Waste Management Volume 2 Land and Groundwater Pollution Control is a comprehensive compilation of topics that are at the forefront of many of the technical advances and practices in solid waste management and groundwater pollution control These include biosolids management landfill for solid waste disposal landfill liners beneficial reuse of waste products municipal solid waste recovery and recycling and groundwater remediation Internationally recognized authorities in the field of environment and waste management contribute chapters in their areas of expertise This handbook is an essential source of reference for professionals and researchers in the areas of solid waste management and groundwater pollution control and as a text for advanced undergraduate and graduate courses in these fields *Soil and Groundwater Contamination* Alex S.

Mayer, S. Majid Hassanizadeh, 2005-01-14 Accompanying CD ROM contains spreadsheets used in many of the example calculations color versions of some of the illustrations and movies illustrating the NAPL migration Page vi *Fundamentals of Environmental Site Assessment and Remediation* Yue Rong, 2018-07-03 Fundamentals of Environmental Site Assessment and Remediation examines all aspects of environmental site assessment and remediation and outlines the interdisciplinary skills needed to work in the field It provides a comprehensive overview for students environmental professionals and real estate developers and includes the latest environmental regulations environmental site assessment and remediation practices and industry standards It examines pollution sources and the related impacts on drinking water supplies the associated health risks and how to protect water resources The monitoring of surface water groundwater and soil is explained as well as vapor intrusion It will include several practical case studies throughout Features Includes the latest and best practices for environmental site assessment and remediation procedures Presents a multidisciplinary approach including environmental forensics nanotechnology microbiology DNA technology and isotopes etc Examines various pollutants and their related impacts on drinking water supplies the associated health risks and how to protect water resources Presents the best practices for the monitoring of surface water groundwater and soil Covers the latest environmental regulations and industry

standards *Management of Contaminated Site Problems, Second Edition* Kofi Asante-Duah, 2019-04-12 This book will outline the strategies used in the investigation characterization management and restoration and remediation for various contaminated sites It will draw on real world examples from across the globe to illustrate remediation techniques and discuss their applicability It will provide guidance for the successful corrective action assessment and response programs for any type of contaminated land problem and at any location The systematic protocols presented will aid environmental professionals in managing contaminated land and associated problems more efficiently This new edition will add twelve new chapters and be fully updated and expanded throughout Bioremediation of Recalcitrant Compounds Jeffrey Talley, 2016-04-19 This authoritative text addresses the latest in bioremediation technologies for three difficult to treat contaminant groups chlorinated solvents PCBs and PAHs one of the most complex and expensive areas of applied remediation engineering Bioremediation of Recalcitrant Compounds assesses innovative R D projects developed for each contam *Reuse of Surfactants and* C H Ward, 2000-06-01 Physicochemical Groundwater Remediation James A. Smith, Susan E. Burns, 2007-05-08 As we transition into the 21st century it is apparent that this is an exciting time for environmental engineers and scientists studying remediation technologies There has been a rapid development of new ways to clean up polluted groundwater Research activities of the past and next 10 years will have a dramatic impact on the quality of the subsurface environment for the next century In 20 or even 10 years from now our approach to subsurface remediation will probably be vastly different than it is today Many of the emerging technologies presented in this book will form the basis of standard remediation practices of the future Physicochemical Groundwater Remediation presents detailed information on multiple emerging technologies for the remediation of the contaminated subsurface environment All of these technologies apply our knowledge of physical and chemical processes to clean up ground water and the unsaturated zone and many if not all of these emerging technologies will help define standard practices in the future These technologies include in situ sorptive and reactive treatment walls surfactant enhanced aquifer remediation optimization analyses for remediation system design chemical electrochemical and biochemical remediation processes and monitored natural attenuation You will learn how palladium catalyzes the dehalogenation of chlorinated solvents You will find out how barometric pumping can naturally remove significant quantities of volatile organic pollutants from shallow ground water and the unsaturated zone You can learn about mobilizing non aqueous phase liquids NAPLs without risking significant downward migration of the NAPL You can find out how processes such as electroosmosis and electromigration can be exploited for groundwater remediation purposes and how zero valent iron and zeolite treatment walls can be used in situ to treat and control contaminant plume migration Contributors to this book are experts in groundwater remediation processes and they represent industry consulting academia and government If your work involves the clean up of contaminated soil and groundwater this book is an essential reference to keep you up to date on the most promising new developments in remediation research

Contaminated Soil 2000, 2000 This volume presents the proceedings of ConSoil 2000 the 7th International FZK TNO conference on contaminated soil in co operation with UFZ Leipzig Halle This series of conferences focuses on policies research and development regulations practical implementation and experiences related to contaminated sites Legal financial and insurance aspects of contaminated land are also included

Surfactants And Cosolvents For Napl Remediation Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Surfactants And Cosolvents For Napl Remediation**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence.

Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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