

Heterogeneous Wastes Characterization: Methods and Recommendations

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Heterogeneous Wastes Characterization

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Heterogeneous Wastes Characterization:

Heterogeneous Wastes Characterization Epa/Envir Syst Monit,U.S. Dept. of Energy,1992-11-18 Heterogenous Wastes Characterization Methods and Recommendations addresses the problems faced by investigators when attempting to characterize heterogenous wastes contaminated with hazardous chemicals and or radionuclides The book is the result of a workshop conducted by the U S Environmental Protection Agency and the U S Department of Energy to devise methods for cleaning up waste sites including landfills and drum dumps where these chemicals have been spilled or improperly stored The book summarizes study planning tools sampling design strategies and field and laboratory methods now in use It also identifies the advantages and disadvantages of each method In addition the book identifies areas that would benefit from methodological research or development or the adoption of new approaches Pertinent regulatory definitions have been assembled and augmented with practical working definitions Heterogenous Wastes Characterization Methods and Recommendations is essential for personnel who work with hazardous wastes or in sanitary engineering firms Handbook of Vadose Zone Characterization & Monitoring L. Gray Wilson,Lorne G. Everett,Stephen J. Cullen,2018-05-02 This book is written in a simple straightforward manner without complicated mathematical derivatives Compiled by experienced practitioners this guide covers topics such as basic principles of vadose zone hydrology and prevalent monitoring techniques Case studies present actual field experiences for the benefit of the reader The Handbook provides practitioners with the information they need to fully understand the principles advantages and limitations of the monitoring techniques that are available The Handbook of Vadose Zone Characterization Monitoring expands and consolidates the useful and succinct information contained in various ASTM documents EPA manuals and other similar texts on the subject making it an invaluable aid to new practioners and a useful reference for seasoned veterans in the field *Characterization of Remote-Handled Transuranic Waste for the Waste Isolation Pilot Plant* National Research Council,Division on Earth and Life Studies,Board on Radioactive Waste Management,Committee on the Characterization of Remote-Handled Transuranic Waste for the Waste Isolation Pilot Plant,2002-09-28 The U S Department of Energy DOE disposes of plutonium contaminated debris from its 27 nuclear weapons facilities at the Waste Isolation Pilot Plant WIPP an underground repository in Carlsbad New Mexico After four years of operational experience DOE has opportunities to make changes to the costly and time consuming process of characterizing the waste to confirm that it is appropriate for shipment to and disposal at WIPP The report says that in order to make such changes DOE should conduct and publish a systematic and quantitative assessment to show that the proposed changes would not affect the protection of workers the public or the environment Technical Approaches to Characterizing and Redeveloping Brownfields Sites ,2002 *Improving the Characterization Program for Contact-Handled Transuranic Waste Bound for the Waste Isolation Pilot Plant* National Research Council,Division on Earth and Life Studies,Board on Radioactive Waste Management,Committee on Optimizing the Characterization and Transportation of

Transuranic Waste Destined for the Waste Isolation Pilot Plant, 2004-02-15 As operational experience is gained in the disposal of transuranic waste from nuclear weapons facilities at the Waste Isolation Pilot Plant in New Mexico the Department of Energy DOE has opportunities to change how it characterizes waste to confirm that it is appropriate for shipment to and disposal at the underground repository The waste shipped to the facility includes gloves rags tools and other debris or dried sludge that has been contaminated by radioactive elements including plutonium during production or cleanup activities in the DOE weapons complex However before the DOE seeks regulatory approval for changes to its characterization program the agency should conduct and publish a systematic and quantitative assessment to show that the proposed changes would not affect the protection of workers the public or the environment according to the committee The assessment should take into account technical factors societal and regulatory impacts and the time and effort required to make the changes

Technical Approaches to Characterizing and Cleaning Up Automotive Repair Sites Under the Brownfields

Initiative, 1999 Proposed Actinide Source-term Waste Test Program, Environmental Assessment (EA), 1995 **An Introduction to Environmental Hazard Investigations for Professional Engineers** J. Paul Guyer, P.E., R.A., 2023-02-10 Introductory technical guidance for professional engineers interested in environmental hazard investigations Here is what is discussed 1 FIELD INVESTIGATION 2 ASBESTOS CONTAINING MATERIALS 3 PAINT 4 BERYLLIUM 5 RADON 6 POLYCHLORINATED BIPHENYLS 7 LOW LEVEL RADIOACTIVE COMPONENTS 8 ANIMAL DROPPINGS 9 MOLD AND SPORES 10 STORAGE TANKS 11 CONTAMINATED SOIL OR GROUNDWATER 12 CONTROL AND MANAGEMENT OF SOLID AND HAZARDOUS WASTE 13 OTHER ENVIRONMENTAL REQUIREMENTS 14 CHLORDANE Site Characterization HMTRI (The Hazardous Materials Training and Research Institute), 1997-10-31 Site Characterization Sampling and Analysis HMTRI Site Characterization Sampling and Analysis is an introductory environmental sampling textbook intended for use in community technical college environmental technology curricula or in industrial training programs Comprehension of the subject matter is enhanced by associated coursework in chemistry biology environmental regulations and college level mathematics The goal of the present textbook is to provide the environmental technician with the knowledge and skills necessary to assist a site characterization project planner in the sampling and monitoring process Among the tasks the students will learn how to perform are assisting the research of a site's background for data that a project manager will use in the development of a site sampling plan meeting representative sampling objectives and quality control quality assurance objectives preparing to go onsite for a sampling event monitoring a site for potentially hazardous atmospheres following the sampling plan in collecting samples from various media e.g. soil surface water ground water and containers troubleshooting under unforeseen circumstances preparing samples for transport to the laboratory documenting field activities communicating with laboratory personnel interpreting lab reports including the validation of quality control data The text contains photographs and line drawings to help students visualize equipment and processes Included are

instructional aids such as chapter objectives concept statements before major sections review questions as well as application and critical thinking activities after each section and a glossary of the terminology

The State of Development of Waste Forms for Mixed Wastes National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Mixed Wastes, 1999-07-02 *Hazardous and Industrial Solid Waste Testing* James K. Petros, William J. Lacy, 1985 *Technical Approaches to Characterizing and Cleaning Up Brownfields Sites* United States. Environmental Protection Agency, 2001 *Institute of Energy and Climate Research IEK-6: Nuclear Waste Management & Reactor Safety Report 2009/2010 Material Science for Nuclear Waste Management*, 2011 *Practical Handbook of Soil, Vadose Zone, and Ground-Water Contamination* J. Russell Boulding, Jon S. Ginn, 2016-04-19 A synthesis of years of interdisciplinary research and practice the second edition of this bestseller continues to serve as a primary resource for information on the assessment remediation and control of contamination on and below the ground surface *Practical Handbook of Soil Vadose Zone and Ground Water Contamination Assessment* Prev *Radioactive Waste Management*, 1981

Advances in Solid and Hazardous Waste Management Sudha Goel, 2017-08-03 This book presents reviews examples and case studies of innovative applications in solid and hazardous waste management The economics of waste management have since become a significant research area in their own right and two chapters address these issues In addition dedicated chapters cover specific categories of waste such as biomedical and institutional waste plastics and e waste The book subsequently discusses newer analytical methods like SEM EDX XRD and optical microscopy along with selected older methods for sampling and characterizing different types of waste The various applications of mathematical tools like linear optimization various software models like WISCLeach and DRASTIC and tools like remote sensing and GIS are illustrated in many of the chapters Lastly since composting is one of the most popular treatment methods for managing the organic component of municipal solid waste the book provides an overview of composting and the fundamentals of microbiology that are essential to understanding waste related biological processes The book was primarily written for students and practitioners in the field who are already familiar with the basics All chapters were prepared by practicing experts and scholars in the field and are intended to help readers better understand and apply these principles and practices in their own endeavours Key topics covered in the book The circular economy and the economics of solid waste management Various remote sensing and GIS applications for managing municipal solid waste coal fires in mines changes in land use and land cover in industrial areas etc Treatment and management of different types of solid waste institutional including biomedical residential e waste plastic and ash from thermal power plants Sampling and characterization of municipal waste and compost Fundamentals of microbiology Overview of environmental regulations especially those pertaining to solid and hazardous waste management

Technical Landfills and Waste Management Abdelkader Anouzla, Salah Souabi, 2024-03-16 A zero waste society and the circular economy trend are urgently needed Even if achieving

100% trash recycling and a fully circular economy may not always be attainable aiming toward this goal might result in a sustainable future Municipal solid wastes pose a hazard to the environment because of open burning landfills reckless disposal and many other factors Waste is being thrown away in more significant quantities and is made up of several different materials Municipal solid waste MSW characteristics must be carefully considered when developing implementing or modifying solid waste management systems Local waste variables that vary with cultural climatic socioeconomic and institutional capacities are crucial for developing efficient waste management techniques This book provides a comprehensive overview of landfills situation their categories and the types of garbage they receive The final section of the study provides an overview of prospective waste management techniques their restrictions and the potential areas for further research on landfill sites This book has the advantage that world class experts in their respective fields have written each chapter As a result this book presents a balanced picture across the whole spectrum of chapters on municipal solid wastes

Improving Operations and Long-Term Safety of the Waste Isolation Pilot Plant National Research Council, Commission on Geosciences, Environment, and Resources, Board on Radioactive Waste Management, Committee on the Waste Isolation Pilot Plant, 2000-05-20 The National Research Council convened a committee of experts to advise the U S Department of Energy DOE on the operation of the Waste Isolation Pilot Plant WIPP a geologic repository for disposal of defense transuranic TRU waste near Carlsbad New Mexico The committee was asked to provide recommendations on the following two issues 1 a research agenda to enhance confidence in the long term performance of WIPP and 2 increasing the throughput efficiency and cost benefit without compromising safety of the National TRU Program for characterizing certifying packaging and shipping waste to WIPP The committee has written this interim report to provide DOE with recommendations on several issues that the committee believes merit immediate consideration and action In developing this report the committee has been guided by the principle of reasonableness with respect to risks costs and the ALARA as low as reasonably achievable principle In the committee s judgment implementing the recommendations contained in this report will contribute to the continued safe operation of WIPP

Yucca Mountain Site Characterization Project Bibliography, 1994-1995, 1996 **Novel Applications of Chemometrics in Analytical Chemistry and Chemical Process Industry** Alessandra Biancolillo, Angelo Antonio D'Archivio, Federico Marini, Raffaele Vitale, 2022-06-01

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