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Agency

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EPA

TECHNOLOGY TRANSFER

from
Office of Research and Development
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New Technology Transfer Publications

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Manuals

Alternative Methods for Delivery and Recovery (625/R-94/003)

This manual presents information on alternatives to vertical wells for fluid recovery or delivery. Technologies described are horizontal wells, fracturing, and interceptor trenches. These technologies, in certain settings, may be more appropriate than vertical wells for remediation or gradient control. The manual will be of use to engineers, geologists, hydrogeologists, and scientists involved in ground water remediation or control. Information includes appropriate applications, design considerations, and construction methods. Several case studies are presented.

Recycling and Reuse of Material Found on Superfund Sites (625/R-94/004)

This manual encourages the recycling and reuse of materials found on sites. The National Contingency Plan (NCP) encourages recycling and reuse technologies. The manual will be useful to Superfund and Resource Conservation and Recovery Act (RCRA) waste treatment engineers and scientists since the EPA regional offices are reviewing Records of Decisions and Corrective Action Plans for these concepts. The manual provides information on the waste, process description, process maturity, advantages, disadvantages, and limitations for approximately 40 technologies. It contains a compendium matching a technology with waste types and a diagram containing recycling technologies for approximately 30 waste streams. The manual discusses product quality specification issues that must be addressed when reusing or recycling material from a contaminated site. The manual presents eight case studies using reuse and recycling of waste materials.

Handbook

Guide To Septage Treatment and Disposal (625/R-94/002)

This guide presents information on the handling, treatment, and disposal of septage in a format easily used by administrators of waste management programs, septage haulers, and managers or operators of septage handling facilities. The guide does not provide detailed engineering design information.

Septage is removed from a septic tank by pumping. This guide focuses on septage of domestic origin. Industrial septage containing toxic compounds or heavy metals requires special handling, treatment, and disposal methods, a description of which is beyond the scope of this document. Although some commercial septages may be appropriately treated with domestic septage, they must be evaluated on a case-by-case basis.

When properly managed, domestic septage is a resource. A valuable soil conditioner, septage contains nutrients that can reduce reliance on chemical fertilizers for agriculture. A good septage management program maximizes the benefits of septage.

This guide is divided into three parts.

Part I: Administrators' Guide is a guide for managing the collection and treatment of septage. Chapters in Part I cover the following topics:

Septage Handling Options (Chapter 2)
Regulatory Requirements (Chapter 3)
Local Responsibilities (Chapter 4)

Part II: Inspectors' and Haulers' Guide is for those involved in inspecting septic tanks and in pumping and transporting septage. Chapters cover the following:

Inspecting Septic Tanks (Chapter 5)
Pumping Septic Tanks (Chapter 6)
Regulatory Requirements (Chapter 7)

Part III: Facility Managers' and Operators' Guide provides information on operating and maintaining septage treatment and disposal facilities. Chapters cover the following:

- Septage Receiving (Chapter 8)
- Land Application (Chapter 9)
- Treatment at Wastewater Treatment Plants (Chapter 10)
- Independent Septage Treatment Facilities (Chapter 11)
- Odor Control (Chapter 12)

Appendix A contains key references and information sources for detailed information on system design and operation, federal regulations, and facility planning and management. Appendix B lists state and EPA regional septage coordinators. Appendix C gives an example of a local permit for septage disposal.

Although the information contained in Parts I, II, and III is targeted for the specific audiences described above, readers should review the entire guide to gain a broader understanding of the technical, administrative, and regulatory issues that a successful septage management program must address.

EPA is establishing a database of GRITS/STAT users. The database will be used to notify GRITS/STAT users of updates to the software and potential problems and solutions encountered in using the software. If you are a GRITS/STAT user, send your name, organization, address, and phone number to the following address:

Mary Bitney
WSTM/RCRA/GEOL
USEPA Region 7
726 Minnesota Avenue
Kansas City, KS 66101

EPA is pleased to offer you software we feel will enable you to analyze technical data efficiently. Since the software is currently being improved and expanded, send enhancement ideas for it or any problems encountered while using it to the above address. Hotline telephone support is available by calling 913-551-7074.

Seminar Publication

Design, Operation, and Closure of Municipal Solid Waste Landfills (625/R-94/008)

This publication contains information given during seminars conducted during 1992. These seminars were conducted to assist municipal solid waste landfill owners and operators in addressing the requirements in the RCRA Subtitle D regulations (40 CFR Part 258) published on October 9, 1991.

This publication gives technical guidance on procedures for designing, constructing, operating and closing a municipal solid waste landfill. The document addresses landfill siting, landfill design criteria, landfill operations, groundwater monitoring, release characterization and remediation, closure and post-closure care, and financial assurance.

This publication is for municipal solid waste landfill owners and operators, federal and state regulatory agency personnel, environmental consulting engineers, and other interested individuals.

Guides to Cleaner Technologies

Organic Coating Replacements (625/R-94/006)

This guide describes available and emerging cleaner technologies that can be used to reduce emissions and wastes from paint and coatings applications. Environmental concerns and increasing costs of organic chemicals and metals are leading to changes in the formulation of organic coatings that reduce or eliminate the use of volatile solvents, heavy metals, and the generation of hazardous paint residues and waste.

This guide gives information in choosing cleaner technologies for further analysis and in-plant testing. It is intended for facilities in all segments of the paints and coatings industry including applicators of architectural coatings, finish coatings for parts and assemblies, and maintenance coatings. Although the guide discusses reformulations of paints and coatings, the primary focus is on applications. Process descriptions allow engineers to evaluate options for alternative coating materials or equipment that can be considered for existing facilities, and is useful for evaluating opportunities for pollution prevention.

Categories of technologies discussed include high solids coatings, powder coatings, waterborne coatings, electrodeposition, and ultraviolet/electronbeam radiation-cured coatings. Emerging technologies discussed include vapor injection cure coatings, supercritical carbon dioxide as a solvent, radiation induced thermally-cured coatings and emerging new paint formulations that will require further field testing.

The pollution prevention strategy section discusses approaches to VOC reductions and presents an outline that allows the industry to examine specific emission coatings issues and form a plan to move to cleaner pollution prevention technologies. A list of trade associations is presented to assist in further follow-up on these technologies.

Alternative Metal Finishes (625/R-94/007)

This guide describes cleaner technologies that can be used to reduce waste and emissions from metal finishing operations. All metal finishing processes generate wastes. This guide addresses processes using toxic or carcinogenic ingredients that are hard to destroy or stabilize and dispose of in an environmentally sound manner. This guide is valuable to metal finishing firms that use all types of metal finishes on both metallic and nonmetallic components, firms that use cadmium and chromium finishes, and finishers that use cyanide-based baths or copper/formaldehyde solutions.

This guide is organized into five sections. Sections One and Two discuss metal finishing and pollution prevention issues and identify processes that cause environmental concerns and serve as background to subsequent sections. Discussions of available and emerging cleaner technology alternatives are addressed in Sections Three and Four. Section Five is a strategy section that gives an overview for using cleaner technologies and addresses environmental concerns of metal finishing facilities.

The available alternative technologies discussed in this guide include Non-Cyanide Copper Plating, Non-Cyanide Metal Stripping, Zinc/Zinc-Alloy Electroplating, Blackhole Technology, Ion Vapor Deposition, Physical Vapor Deposition, Chromium-Free Aluminum Surface Treatments and Metal Spray Coating. Emerging technologies discussed include Nickel-Tungsten-Silicon Carbide, Nickel-Tungsten-Boron and In-Mold Plating. Information sources are also listed that identify various trade associations that can provide further technical details on these technologies as well as other types of information support to various segments of the metals finishing industry.

ORD BBS Update

[Call 513-569-7610 to access the ORD Electronic Bulletin Board System]

Bioremediation in the Field Search System (BFSS)

BFSS is an information-sharing resource for federal and state regulators, consulting engineers, industry personnel, and researchers interested in the field application of bioremediation. It is a PC-based software product that provides access to a database of information on waste sites across the country where bioremediation is being tested, implemented, or has been completed. BFSS allows users to search the database electronically, view data on specific types of bioremediation sites, and print reports of selected information.

BFSS currently provides electronic access to information on over 160 bioremediation sites nationwide. The database spans both full-scale remediation efforts and treatability and feasibility studies, and covers sites under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Resource Conservation and Recovery Act (RCRA); Toxic Substances Control Act (TSCA); and Underground Storage Tank (UST) authority. Data include the following:

Location
Region, state, and city or county

Media
Soil, surface and ground water, sediments, and sludge

Contaminants
Wood preserving wastes, petroleum, solvents, pesticides, and others

Ex-situ and in-situ technologies
Reactor treatments, aerated lagoon treatment, land treatment, composting, air sparging, and bioventing

Cost and performance
Capital and operation and maintenance costs, rate of contaminant degradation, and lowest contaminant concentration achieved

BFSS is available on EPA's Alternative Treatment Technology Information Clearinghouse (ATTIC) (703-908-2138), Cleanup Information (CLU-IN) (301-589-8366), and the ORD BBS. The software is designed to be downloaded and operated from a hard disk or a local area network (LAN). As a registered user, you will receive EPA's quarterly bulletin, *Bioremediation in the Field,* and notices of system updates.

Download the file BFSSPAK.EXE, copy it to a directory on your hard drive, and run it. Two files will be created: BFSSINST.EXE and BFSSREAD.ME. Print the BFSSREAD.ME file for instructions of how to install and run BFSS.

BFSS is designed to be run on IBM-compatible PCs, 286 or better, with DOS version 3.3 or higher.

The EPANET Water Quality Model

EPANET is a software package developed by U.S. EPA's Drinking Water Research Division for modeling hydraulic and water quality behavior within water distribution systems. Starting with a geometric description of the pipe network, a set of initial conditions, estimates of water usage, and a set of rules for how the system is operated, EPANET predicts all flows, pressures, and water quality levels throughout the network during an extended period of operation. In addition to substance concentration, water age and source tracing can also be simulated.

EPANET offers a number of advanced features including the following:

- modular, highly portable C language code with no preset limits on network size
- a simple data input format based on a problem-oriented language
- a full-featured hydraulic simulator
- improved water quality algorithms
- analysis of water quality reactions both within the bulk flow and at the pipe wall
- an optional graphical user interface running under Microsoft Windows

The Windows user interface allows one to edit EPANET input files, run a simulation, and view the results all within a single program. Simulation output can be visualized through the following:

- color-coded maps of the distribution system with full zooming, panning, and labeling capabilities and a slider control to move forward or backward through time,
- spreadsheet-like tables that can be searched for entries meeting a specified criterion,
- time series graphs of both predicted and observed values for any variable at any location in the network.

EPANET is currently being used to analyze a number of water quality issues in different distribution systems across the country. These include chlorine decay dynamics, raw water source blending, altered tank operation, and integration with real-time monitoring and control systems.

Download the file EPANET.ZIP, unzip it, and print the README file for instructions of how to install and run the program.

New in the Sludge Conference (Conference #11)

503.SUM.ZIP—a compressed (zipped) form of 503FINSM.993. This is a WP51 electronic copy of a 25-page simplified summary of the Standards for the Use or Disposal of Sewage Sludge, 40 CFR Part 503 (58 FR 32:9248-9415). It does not contain all details, requirements, or exceptions.

THC503.ZIP—a compressed (zipped) form of THC-FINL.GDN. This is a WP51 electronic copy of EPA 833-B-94-003, THC Continuous Emission Monitoring Guidance for Part 503 Sewage Sludge Incinerators. This publication is EPA's guidance document for monitoring of total hydrocarbons (THCs) at sewage sludge incinerators. It contains recommendations for compliance with the 40 CFR Part 503 regulations. Addressed are installation, calibration, operation, and maintenance procedures for sewage sludge incinerators in the areas of THC continuous emissions monitoring, oxygen, moisture, quality assurance, and recordkeeping.

New Database Available

EPA's Risk Reduction Engineering Laboratory (Cincinnati) and Environmental Research Laboratory (Duluth) have just released their Wetlands Treatment Database. The database contains information for wetlands treating wastewater at 178 locations in the United States and Canada. The database contains general information (e.g., names of contacts, dimensions, permit limits) as well as water quality data (e.g., BOD, TSS, N-series). The database consists of nine dBase files, and a user friendly, stand-alone computer program to allow anyone with DOS 3.3 or higher to access the data. A minimum of 640K of memory and 4 MB of free disk space is required to run the software. Download WETLANDS.ZIP, unzip it, and print the READ.ME file (It will show you how to install the program).

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Phosphorus Removal (Sept. 1987) 625/1-87/001
Land Treatment of Municipal Wastewater (Oct. 1981) 625/1-81/013
Supplement for Land Treatment of Municipal Wastewater (Oct. 1984) 625/1-81/013a
Dewatering Municipal Wastewater Sludges (Sept. 1987) 625/1-87/014
Land Application of Municipal Sludge (Oct. 1983) 625/1-83/016
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Manual: Nitrogen Control (Sept. 1993) 625/R-93/010
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The National Rural Clean Water Program Symposium 625/R-92/006
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Wellhead Protection: A Guide for Small Communities 625/R-93/002
Operational Parameters for Hazardous Waste Combustion Devices 625/R-93/008
◆ Design, Operation, and Closure of Municipal Solid Waste Landfills 625/R-94/008

BROCHURES

Environmental Pollution Control Alternatives: Drinking Water Treatment for Small Communities 625/5-90/025
Regional Environmental Monitoring and Assessment Program (R-EMAP) 625/R-93/012

HANDBOOKS

Septage Treatment and Disposal (Oct. 1984) 625/6-84/009
Control Technologies for Hazardous Air Pollutants (July 1991) 625/6-91/014

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Ground Water - Volume II: Methodology (July 1991) 625/6-90/016b
Retrofitting POTWs for Phosphorus Removal in the Chesapeake Bay Drainage Area (Sept. 1987) 625/6-87/017
Guide to Technical Resources for the Design of Land Disposal Facilities (Dec. 1988) 625/6-88/018
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Approaches for the Remediation of Federal Facility Sites Contaminated with Explosive or
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◆ Guide To Septage Treatment and Disposal (Oct. 1994) 625/R-94/002

GUIDES TO POLLUTION PREVENTION

The Pesticide Formulating Industry (Feb. 1990) 625/7-90/004
The Paint Manufacturing Industry (June 1990) 625/7-90/005
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