

Chemical and Biological  
Characterization of  
**Municipal Sludges,  
Sediments,  
Dredge Spoils,  
and Drilling Muds**

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Lichtenberg/Winter/Weber/Fradkin

EDITORS

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# ***Chemical and Biological Characterization of Municipal Sludges, Sediments, Dredge Spoils, and Drilling Muds***

*James J. Lichtenberg, John A. Winter, Cornelius I. Weber,  
and Larry Fradkin, editors*



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## Foreword

This publication contains papers presented at the Symposium on Chemical and Biological Characterization of Municipal Sludges, Sediments, Dredge Spoils, and Drilling Muds, which was held in Cincinnati, OH, on 20-22 May 1986. The symposium was sponsored by the following U.S. Environmental Protection Agency (USEPA) Laboratories: the Environmental Monitoring and Support Laboratory (EMSL) and the Environmental Criteria and Assessment Office (ECAO) in cooperation with the Water Engineering Research Laboratory (WERL) all of Cincinnati, OH. The symposium was chaired by James J. Lichtenberg and cochaired by Cornelius I. Weber, John A. Winter of EMSL-Cincinnati, and Larry Fradkin of ECAO.

The publication is cosponsored by the EMSL-Cincinnati, ECAO, and ASTM Committees D19 on Water and D34 on Waste Disposal.

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# Contents

<b>Overview</b>	1
<b>Keynote Address—Sludge and Risk Assessment—DONALD J. EHRETH AND PETER R. JUTRO</b>	2
<b>EPA REVIEW OF REGULATIONS RELATED TO SEWAGE SLUDGE DISPOSAL, SEDIMENT QUALITY, AND ANALYTICAL METHODOLOGY</b>	
<b>U.S. Sludge Management Guidelines Explained—LARRY FRADKIN, RANDALL J. F. BRUINS, JERRY F. STARA, ALAN B. RUBIN, AND ELLIOT D. LOMNITZ</b>	9
<b>Status of the U.S. EPA's Sediment Quality Criteria Development Effort— CHRISTOPHER S. ZARBA</b>	13
<b>Regional and State Needs in Sampling and Analytical Methodology—JOHN A. LITTLE, JAMES H. FINGER, AND ROBERT W. KNIGHT</b>	18
<b>CHEMICAL CHARACTERIZATION</b>	
<b>Sediment Reference Materials and the Canadian Marine Analytical Chemistry Standards Program—P. GREIG SIM, W. DAVID JAMIESON, SHIER S. BERMAN, AND VICTOR J. BOYKO</b>	27
<b>A Computerized Data Management System for U.S. EPA QA/QC Methods— ANDREW W. PANKO AND TONY O. DIFRUSCIO</b>	35
<b>The Varlographic Experiment: An Essential Test for Optimizing Sampling Methodology in Monitoring Streams—FRANCIS F. PITARD</b>	44
<b>A Demonstration of a Universal Kriging Program for Monitoring Sediments in Lakes—PHILIP C. L. LIN AND JOSEPH F. ROESLER</b>	59
<b>Comparative Study of Methods for Estimating Bioavailable Particulate Phosphorus— THOMAS C. YOUNG, JOSEPH V. DE PINTO, AND BRYAN J. HUGHES</b>	69
<b>Characterization of Trace Metal Associations with Polluted Marine Sediments by Selective Extractions—WARREN S. BOOTHMAN</b>	81
<b>Distribution of Heavy Metals in Sewage Sludge: The Effect of Particle Size— JOHN A. CAMPBELL, JOHN V. TOWNER, AND RAJAH VALLURUPALLI</b>	93

<b>An Examination of Methods for the Concentration of Suspended Sediment for Direct Metal Analysis—ARTHUR J. HOROWITZ</b>	102
<b>Interpretation of Bed Sediment Trace Metal Data: Methods for Dealing with the Grain Size Effect—ARTHUR J. HOROWITZ AND KENT A. ELRICK</b>	114
<b>Development, Evaluation, and Use of the Toxicity Characteristic Leaching Procedure (TCLP)—TODD A. KIMMELL</b>	129
<b>Development of New Jersey State Approved Methods for the Analysis of Sludge—SUSAN H. DENGLE</b>	141
<b>Use of Gas Chromatography/Mass Spectrometry to Monitor Selected Priority Pollutant Levels in Landfill Simulator Leachates—JAMES W. STAMM, JAMES J. WALSH, WILLIAM JESS, AND JANET I. RICKABAUGH</b>	148
<b>Method Development for the Determination of Formaldehyde in Samples of Environmental Origin—MERLIN K. L. BICKING, W. MARCUS COOKE, FRED K. KAWAHARA, AND JAMES E. LONGBOTTOM</b>	159
<b>Total, Extractable, and Leachable Organic Halides in Soil and Sediments—JOHN T. MARTIN AND YOSHIHIRO TAKAHASHI</b>	176
<b>Trace Organic Analysis of Suspended Sediments Collected with an In-Stream Composite Sampler: the Need for a Standard Method—IRWIN H. SUFFET, KATHRYN HUNCHAK, ARNIE WICKLUND, AND THOMAS BELTON</b>	184
<b>Determination of Polychlorinated Compounds (Dioxins, Furans, and Biphenyls) by Level of Chlorination with Automated Interpretation of Mass Spectrometric Data—ANN L. ALFORD-STEVENSON AND WILLIAM L. BUDDE</b>	204
<b>Organic Chemical Waste Characterization for Marine Disposal of Black Rock Harbor Dredged Materials—PETER F. ROGERSON</b>	213
<b>Analysis for Diesel Oil Components in Drilling Fluids—DAVID F. TOMPKINS, EDWARD D. HANDEL, AND WILLIAM TELLIARD</b>	223
<b>Application of Analytical Pyrolysis and Cupric Oxide Oxidation to Characterization of Nonextractable Organic Constituents in Drilling Fluids and Sediments—THEADOR C. SAUER, JR., ALFONSO G. REQUEJO, JOHN S. BROWN, ROBERT C. AYERS, JR., AND PAUL D. BOEHM</b>	228

#### BIOLOGICAL CHARACTERIZATION

<b>Perspective on Risk of Waterborne Enteric Virus Infections—FLORA MAE WELLINGS</b>	257
<b>Round Robin Testing of Methods for the Recovery of Human Enteroviruses from Wastewater Sludges and Sewage Amended Soils—ASTM Consensus Standards Development—STEPHEN A. SCHAUB</b>	265

<b>Thermal Inactivation of Human Enteric Viruses in Sewage Sludge and Virus Detection by Nitrocellulose-Enzyme Immunoassay—</b> PHILIP C. LOH, ROGER S. FUJIOKA, AND WESLEY M. HIRANO	273
<b>Recovery of Naturally Occurring Rotaviruses during Sewage Treatment—</b> V. CHALAPATI RAO, THEODORE G. METCALF, AND JOSEPH L. MILNICK	282
<b>Mutagenic Potential of Municipal Sewage Sludge and Sludge Amended Soil—</b> KIRBY C. DONNELLY, KIRK W. BROWN, AND CINDY P. CHISUM	288
<b>Stream Impact Assessments Using Sediment Microbial Activity Tests—</b> G. ALLEN BURTON, JR.	300
<b>Biochemical Characterization of Estuarine Benthic Microbial Communities for Use in Assessing Pollution Impacts—</b> STEPHEN J. SCHROPP, F. GRAHAM LEWIS, WILLIS EUBANKS, KEVIN R. CARMAN, AND DAVID C. WHITE	311
<b>Variability of the Acute Toxicity of Drilling Fluids to Mysids (<i>Mysidopsis bahia</i>)—</b> PATRICK R. PARRISH AND THOMAS W. DUKE	326
<b>Toxicity Testing of Drilling Fluids: Assessing Laboratory Performance and Variability—</b> R. CLIFTON BAILEY AND BARRETT P. EYNON	334
<b>Acute Toxicity and Hydrocarbon Composition of a Water-Based Drilling Mud Containing Diesel Fuel or Mineral Oil Additives—</b> RONALD J. BRETELER, ADOLFO G. REQUEJO, AND JERRY M. NEFF	375
<b>Marine Sediment Toxicity Tests—</b> PETER M. CHAPMAN	391
<b>Toxicity of U.S. Waterway Sediments with Particular Reference to the New York Harbor Area—</b> R. ANNE JONES AND G. FRED LEE	403
<b>Toxicity Testing of Dredged Materials Using Multiple-Species Microcosms—</b> RAYMOND W. ALDEN, III AND ARTHUR J. BUTT	418
<b>Selecting an Appropriate Method for Estimating the Sediment Oxygen Demand Rate—</b> KATHRYN J. HATCHER	438
<b>Use of Benthic Oxygen Flux Measurements in Wasteload Allocation Studies—</b> WAYNE S. DAVIS, THOMAS M. BROSNAN, AND ROBERT M. SYKES	450

#### RISK ASSESSMENT

<b>Analytical Methods Necessary to Implement Risk-Based Criteria for Chemicals in Municipal Sludge—</b> RANDALL J. F. BRUINS, LARRY FRADKIN, JERRY F. STARA, W. BRUCE PEIRANO, VLASTA MOLAK, AND ELLIOT LOMNITZ	465
<b>The Regulation of Sludge Disposal Through Application of Risk Assessment Techniques—</b> GAYNOR W. DAWSON, CHARLES J. ENGLISH, AND LARRY FRADKIN	472



<b>Microbiological Risk Assessment for Land Application of Municipal Sludge—</b> PASQUALE V. SCARPINO, LARRY FRADKIN, C. SCOTT CLARK, NORMAN E. KOWAL, ELLIOT LOMNITZ, MICHAEL BASEHEART, JOHN M. PETERSON, RICHARD L. WARD, AND MARK HESFORD	480
<b>Assessment of Risks Associated with Enteric Viruses in Contaminated Drinking Water—CHARLES P. GERBA AND CHARLES N. HAAS</b>	489
<b>Index</b>	495



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