CONTENTS

Real Time Simulation of Nitrogen Cycle in an Estuary by Tavit O. Najarian and Donald R. F. Harleman	523
Variations in Nitrogen and Organics in Wastewaters by Stephen J. Randtke and Perry L. McCarty	539
Salt Removal Efficiencies on Land Disposal of Swine Waste by Harold E. Grier, Gian C. Gupta, and Suresh C. Tiwari	551
Evaluation of Solid Waste Baling and Landfilling by Ralph Stone and Richard Kahle	557
Modeling Effects of Aquatic Plants in Rivers by J. Christopher Rutherford	575
Denitrification Using Thiosulfate and Sulfide by James J. Bisogni, Jr. and Charles T. Driscoll, Jr	593
Prediction of Mercury Distribution in River Sediments by Akira Kudo, Ronald D. Townsend, and Donald R. Miller	605
Characterization of Coarse Porous Media by Frank H. Pearson and Archie J. McDonnell	615
Activated Sludge Process Design by Donald T. Lauria, Jan B. Uunk, and James K. Schaefer	625
Aerobic Bio-Treatment of a High-Strength Leachate by Victor C. Uloth and Donald S. Mavinic	647

The Society is not responsible for any statement made or opinion expressed in its publications.

This Journal is published bimonthly by the American Society of Civil Engineers. Publications office is at 345 East 47th Street, New York, N.Y. 10017. Address all ASCE correspondence to the Editorial and General Offices at 345 East 47th Street, New York, N.Y. 10017. Allow six weeks for change of address to become effective. Subscription price to members is \$10.00. Nonmember subscriptions available; prices obtainable on request. Second-class postage paid at New York, N.Y. and at additional mailing offices. EE, EM, TE.

Projections of Phosphorus Levels in White Lake by Wu-Seng Lung and Raymond P. Canale	663
Reduction of Aqueous HOCl with Activated Carbon by Makram T. Suidan, Vernon L. Snoeyink, and Roger A. Schmitz	677
Virus Sampling in Wastewater—Field Experiences by Michael W. Selna and Robert P. Miele	693
Automatic Dissolved Oxygen Control by Michael J. Flanagan, Brian D. Bracken, and Joseph F. Roesler	707
TECHNICAL NOTES	
Proc. Paper 13098	
Integrated Automatic Water Sample Collection System by P. David Fisher and James E. Siebert	725
Proposed Modification of K_2 -Temperature Relation by Robert H. L. Howe	
DISCUSSION	
Proc. Paper 13092	
Transport Phenomena Applied to Sludge Dewatering, by Peter Kos and Donald Dean Adrian (Dec., 1975. Prior Discussions: Dec., 1976). closure	737
Performance of Single Household Treatment Units, by Richard J. Otis and William C. Boyle (Feb., 1976. Prior Discussions: Dec., 1976). closure	737
Land Use and Water Quality in New York Rivers, by Douglas A. Haith (Feb., 1976. Prior Discussions: Oct., Dec., 1976). closure	740
Persistence of Virus on Sewage Irrigated Vegetables, by Edward P. Larkin, John T. Tierney, and Robert Sullivan (Feb., 1976. Prior Discussions: Dec., 1976).	
closure	742

1976. Prior Discussions: Dec., 1976). closure	743
Sanitary Landfill Leachates and Their Treatment, by Edward S. K. Chian and Foppe B. DeWalle (Apr., 1976. Prior Discussions: Dec., 1976).	
closure	744
Disease Risks of Occupational Exposure to Sewage, by C. Scott Clark, Edward J. Cleary, Gilbert M. Schiff, Calvin C. Linnemann, Jr., John P. Phair, and Terrence M. Briggs (Apr., 1976. Prior Discussions: Oct., Dec., 1976).	
by Eliyahu Katzenelson and Hillel I. Shuval	746
Role of Eddy Diffusivity in Thermocline Formation, by Brian Henderson-Sellers (June, 1976). by Narendra K. Pareek	749
	149
Equalization of Time Variable Waste Loads, by Vladimir Novotny and Robert M. Stein (June, 1976). by Dominic M. DiToro and Paul R. Paquin	751
Estimating Flow Conditions for River Models, by William J. Grenney and Davis S. Bowles (Aug., 1976). errata	754
	754
Analytical Solution for 3-D Diffusion Model, by Edward Y. T. Kuo (Aug., 1976). by Hung Tao Shen and Haley H. Shen	754
Reaeration and Velocity Prediction for Small Streams, by Edward G. Foree (Oct., 1976). by Walter J. Su	757
Coal Pile Leachate—Quantity and Quality Characteristics, by William C. Anderson and Mark P. Youngstrom (Dec., 1976). by Robert L. McFall	760

^aDiscussion period closed for this paper. Any other discussion received during this discussion period will be published in subsequent Journals.