CONTENTS

Papers	Page
PREDICTION OF FILTER PERFORMANCE by Kou-ying Hsiung and John L. Cleasby	1043
INFRARED AERIAL SURVEYS IN ENVIRONMENTAL ENGINEERING by Rudolph V. Matalucci and Mohamed Abdel-Hady	1071
AMMONIA NITROGEN LOSSES FROM STREAMS by Frank E. Stratton	1085
OXYGEN RELATIONSHIPS IN INTERMITTENT SAND FILTRATION by Albert B. Pincince, and Jack E. McKee	1093
NEW APPROACHES TO WASTEWATER TREATMENT by Robert L. Stenburg, John J. Convery, and Charles L. Swanson	1121
VIABILITY OF LONG-STORAGED AIRBORNE BACTERIAL AEROSOLS by Calvin P. C. Poon	1137
PLANNING COMPREHENSIVE SOLID WASTES MANAGEMENT SYSTEMS	
by H. Lanier Hickman, Jr	1147
EFFECTS OF TEMPERATURE ON STREAM AERATION by Ivan Metzger	1153
ANALYSIS OF EQUALIZATION BASINS by Alfred T. Wallace	1161
STATISTICAL APPROACH TO ESTUARINE BEHAVIOR by T. A. Wastler and Carl M. Walter	1175
(over)	

This Journal is published bimonthly by the American Society of Civil Engineers. Publications office is at 2500 South State Street, Ann Arbor, Michigan 48104. Editorial and General Offices are at 345 East 47th Street, New York, N.Y. 10017. Subscription price is \$8.00 per year with discounts to members and libraries. Second-class postage paid at Ann Arbor, Michigan. EM, HY, SA, SM.

	Page
IRON-59 AS SOLIDS TRACER IN AQUEOUS SUSPENSIONS by M. R. Scalf, J. L. Witherow, and C. P. Priesing	119
WATER LINE TRANSMISSION OF CONTROL INFORMATION by Roy Edwin Ramseier	121;
WATER QUALITY ANALYSIS OF THE DELAWARE RIVER ESTUARY by Donald J. O'Connor, John P. St. John, and Dominic M. DiToro	1225
ENTERIC DISEASE CRITERIA FOR RECREATIONAL WATERS by John M. Henderson	1253
DISCUSSION	
Proc. Paper 6262	
SOLUTION OF ESTUARY PROBLEMS AND NETWORK PROGRAMS, by J. V. Leeds and H. H. Bybee (June, 1967. Prior Discussion: Feb., 1968). closure	1279
EVALUATION OF ACTIVATED SLUDGE THICKENING THEORIES, by Richard I. Dick, and Benjamin B. Ewing (Aug., 1967. Prior Discussions: Feb., April, and June, 1968). closure	1280
CATTLE WASTES—POLLUTION AND POTENTIAL TREATMENT, by Raymond C. Loehr and Robert W. Agnew (Aug., 1967. Prior Discussions: April, June, 1968).	
ENVIRONMENTAL EFFECTS OF HIGHWAYS, by Melvin E. Scheidt (Oct., 1967. Prior Discussions: April, June, 1968).	
WATER QUALITY CHARACTERIZATION—TRACE ORGANICS, by Robert A. Baker and Bernard A. Malo (Dec., 1967). closure	
ACTION ON THE SOLID WASTES PROBLEM, by Ralph J. Black and Leo Weaver (Dec., 1967. Prior Discussion: June, 1968).	1293
DISPERSION CONDUITS ^a , by Thomas R. Camp and S. David Graber (Feb., 1968. Prior Discussion: Aug. 1968)	1294
by Ian Larsen	1295

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

	Page
PHYSICAL INTERPRETATION OF JET DILUTION PARAMETERS ^a , by James J. Sharp (Feb., 1968). by Loh-Nien Fan and Norman H. Brooks	1295
FEASIBILITY OF IMPROVED SUBSURFACE DISPOSAL ^a , by Ronald A. Popkin and Thomas W. Bendixen (April, 1968).	
by Thomas F. Zimmie	1299
TECHNICAL NOTE	
Proc. Paper 6294	
RESERVOIR ANALYSIS FOR LOW FLOW CONTROL by G. K. Young, Jr. and W. C. Pisano	1303

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