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ESTUARINE RESPONSE TO NUTRIENT ENRICHMENT, A COUNTERPART OF EUTROPHICATION:

A BIBLIOGRAPHY

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PREFACE

This work is a result of our efforts to compile the literature related to the results of nutrient enrichment of estuaries. It consists of two related publications, a bibliography and an annotated bibliography; both works are accompanied by an index which applies to either bibliography. An attempt has been made to include a few key papers related to various processes, eg nutrient uptake by phytoplankton, which influence or participate in the response process.

Items included are wide ranging from articles in scientific journals, chapters in books, and manuscripts for such publications to the grey literature of project reports, theses and the like. They have been accumulated by a variety of methods including the use of the DIALOG Information Retrieval Service (Lockheed Information Systems), manual search of various abstracting publications and the original contemporary literature as well as direct input from authors responding to direct and indirect solicitation. Science Citation Index (Institute of Scientific Information) was also utilized as a source. Annotations rely heavily on abstracts from authors or abstracting services.

Copies of all the original documents are being acquired and will be available for personal use at the CRC headquarters and the four Consortium member institutions. They are on microfiche. Information on availability to the public is contained within each citation. Bibliography users who have difficulty obtaining original materials may approach MERRMS of VIMS concerning availability of non-copyrighted materials on microfiche at cost plus handling.

These publications were produced under great time pressures and a number of citations were omitted. The senior accepts complete responsibility for these omissions and apologizes to friends colleagues and other scientists for omission of their works.

The authors thank Ms. Linda L. Jenkins for many hours of effort in front of a computer terminal, the staff of the VIMS library for efforts to obtain reference materials, the MERRMS staff for microfiche facilities, and especially to Geri Ellis, Dan Ewart and Pete Hoyle of the William and Mary Computer Center for extensive help in making the storage, manipulation, and retrieval of the bibliographic information possible.

K. L. Webb

17 May 1979

Estuarine response to nutrient enrichment bibliography field coding. *

CODE	FIELD
1	Authors
2	Address
3	Title of Article;if in a Book: Title, Editors
4	Publisher or Journal
5	Year, volume, pages
6	Language

*The code numbers do not appear in the citations. Fields are separates by semi colons, empty fields are blank.

The index is a cross referenced listing of descriptors relevant to each citation. The numbers accompanying the listings refer to citation numbers.

Citation 1

Aalto, J. A. , N. A. Jaworski, D. W. Lear, Jr. ;Federal Water Quality Administration, Chesapeake Technical Support Lab, Annapolis, MD ;Current Water Quality Conditions and Investigations in the Upper Potomac River Tidal System ;Fed Water Qual Admin, CTSL ;1970(May), Technical Rep. No. 41,38p. ;English

Citation 2

Abbott, O. J. ;Univ. of Strathclyde, Marine Laboratory, Kilcreggan ;Black Necrosis in Brown Shrimp, Crangon crangon ;In: Proceedings of the Symposium on the Burry Inlet (South Wales),13-15 (Sept) 1976. Edited by A. Nelson-Smith and E. M. Bridges. Problems of a Small Estuary. Quadrant Press Ltd. Swansia, West Glamorgan ;1977(Jan), Session 3,2/1-2/10. ;English

Citation 3

Abbott, W. ;Gulf Coast Research Lab. , Ocean Springs, MS ;Nutrient Studies in Hyperfertilized Estuarine Ecosystems. I. Phosphorus Studies ;Adv Water Pollut Res ;1970,4(II-3240),729-739. ;English

Citation 4

Aberdeen Marine Laboratory ;Aberdeen Marine Lab. , Library;Aberdeen, UK ;Water Pollution: A Bibliography of Reports ;Aberdeen Marine Lab. , Library;Aberdeen, UK ;1977,38p. ;English

Citation 5

Admiraal, W. ;Groningen Rijsuniversiteit (Netherlands), Dept. of Systematic Botany ;Tolerance of Estuarine Benthic Diatoms to High Concentrations of Ammonia, Nitrite Ion, Nitrate Ion and Orthophosphate ;Mar Biol ;1977,43,307-315. ;English

Citation 6

Alam, M. I. , C. P. Hsu, Y. Shimizu ;Dept. of Pharmacognosy and Environmental Health Sciences, College of Pharmacy, University of Rhode Island, Kingston, RI 02881 ;Comparison of Toxins in Three Isolates of Gonyaulax tamarensis (Dinophyceae) ;J Phycol ;1979,15,106-110. ;English

Citation 7

Alaska Univ. College Inst. of Marine Science ;Alaska ;Environmental Studies of an Arctic Estuarine System - Final Report ;US Environmental

Protection Agency ;1975(June), Ecol. Res. Ser. No. EPA-600/3-75-026,54p. ;English

Citation 8

Allen, G. W. ;Humboldt State Univ. , Arcata, CA ;Rearing Pacific Salmon in Saltwater Ponds Fertilized with Domestic Wastewater ;Humboldt State Univ. ;1976(Nov), Rep. HSU-SG-10,92p. ;English

Citation 9

Amanieu, M. , O. Guelorget, P. Michel ;Laboratoire d'Hydrobiologie marine et continentale, Universite des Sciences et Techniques du Languedoc, Place E Bataillon, 34060 Montpellier, France ;Richness and Diversity of Benthic Macrofauna of a Mediterranean Lagoon ;Vie Milieu ;1977, B27(1),85-109. ;English

Citation 10

Anderson, Donald Mark, David Wall ;Dept. of Civil Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139 ;Potential Importance of Benthic Cysts of Gonyaulax tamarensis and G. excavata in Initiating Toxic Dinoflagellate Blooms ;J Phycol ;1978,14(2),224-234. ;English

Citation 11

Anger, K. ;Biologische Anstalt Helgoland (West Germany) ;On the Influence of Sewage Pollution on Inshore Benthic Communities in the South of Kiel Bay Part 2. Quantitative Studies on Community Structure ;Helgol Wiss Meeresunters ;1975,27,408-438. ;German

Citation 12

Anger, K. ;Biologische Anstalt Helgoland (West Germany) ;Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea ;Int Rev Gesamten Hydrobiol ;1977,62(2),245-254. ;English

Citation 13

Anonymous ; ;Second International Conference on Toxic Dinoflagellate Blooms ; ;1978(Oct 31-Nov 5),40p. ;English

Citation 14

Anonymous ; ;Protecting America's Estuaries: Florida (Part 2) ;Hse Comm Govt Operations Hearings 93 Con 1 ;1973 (May),26p. ;English

Citation 15

Anonymous ; ;Bibliography on Pollu of Estuaries Coastal Waters ; ;1972 (Aug) ;English

Citation 16

Archimbaud, M. , C. Trouve ;Commissariat a l'Energie Atomique, Pierrelatte (France) ;The Linkage Between Chemical Pollution and Bacteriological Pollution in Coastal Zones ;Water Res ;1976,10(3),225-229. ;French

Citation 17

Armstrong, J. W. ;Washington Univ. , Seattle ;The Impact of Subtidal Sewage Outfalls on the Intertidal Macrofauna of Several Central Puget Sound Beaches ;Washington Univ. ;1977, PhD Dissertation, 233p. ;English

Citation 18

Army Corps of Engineers ;Baltimore District, Dept. of the Army, MD ;Chesapeake Bay Existing Conditions Report, Appendix-C; The Bay Processes and Resources ;US Dept of the Army ;1973, Vol. 2. ;English

Citation 19

Aston, S. R. , C. N. Hewitt ;Lancaster Univ. , Bailrigg (England), Dept. of Environmental Sciences ;Phosphorus and Carbon Distributions in a Polluted Coastal Environment ;Estuarine Coast Mar Sci ;1977(Mar),5(2),243-254. ;English

Citation 20

Aubert, M. , J. Aubert, J-M. Pincemin, N. Desirotte, J- P. Breittmeyer ;Centre d'Etudes et de Recherches de Biologie et d'Oceanographie Medicale, Nice (France) ;Restructuring of River Banks and Secondary Pollution: Study of Eutrophications in Port Areas ;Rev Int Oceanogr Med ;1972,26,53-64. ;French

Citation 21

Axelrad, D. M. , M. E. Bender , K. A. Moore ;Virginia Inst. of Marine Science, Gloucester Point, VA ;Function of Marshes in Reducing

Eutrophication of Estuaries of the Middle Atlantic Region ;VIMS ;1974 (Feb), Completion Rep. OWRR B-027-VA(1),91p. ;English

Citation 22

Axelrad, Donald M. , Kenneth A. Moore, Michael E. Bender ;Virginia Inst. of Marine Science, Gloucester Point, VA ;Nitrogen, Phosphorus and Carbon Flux in Chesapeake Bay Marshes ;WRRC Virginia (Blacksburg) ;1976(Jan), VPI-VWRRC-Bull 79. ;English

Citation 23

Ayres, P. A. ;Ministry of Agriculture, Fisheries and Food, Burnham-on-Crouch (England), Fisheries Lab ;The Use of Faecal Bacteria as a Tracer for Sewage Sludge Disposal in the Sea ;Mar Pollut Bull ;1977(Dec),8(12),283-285. ;English

Citation 24

Bach, Steven D. , Michael N. Josselyn ;Dept. of Biology, Allegheny College, Meadville, PA 16335 ;Mass Blooms of the Alga Cladophora in Bermuda ;Mar Pollut Bull ;1978,9(2),34-37. ;English

Citation 25

Bahlool, B. Ben ;Cawthron Inst. , P. O. Box 175, Nelson, New Zealand ;Nitrogen Fixation in Polluted Intertidal Sediments of Waimea Inlet, Nelson ;N Z J Mar Freshwater Res ;1978(Sept),12(3),271-275. ;English

Citation 26

Barber, Richard T. , William W. Kirby-Smith, Patricia E. Parsley ;Duke Univ. Marine Laboratory, Beaufort, NC 28516 ;Wetlands Alterations for Agriculture ;In: National Symposium on Wetlands, American Water Resources Ass. , Minneapolis, MN ;in press ;English

Citation 27

Bard, Harry, Richard G. Krutchkoff ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, VA ;Predicting Pollution in the James River Estuary. A Stochastic Model ;VPI Water Resources Research Center Bulletin ;1974, VPI-WRRC-Bull-70,147p. ;English

Citation 28

Barlow, John P. , Carl J. Lorenzen, Richard T. Myren ;Department of

Conservation, Cornell Univ. , Ithaca, New York ;Eutrophication of a Tidal Estuary ;Limnol Oceanogr ;1963,8(2),251-262. ;English

Citation 29

Barrett, M. J. ;Water Pollution Research Lab. of the Dept. of th Environment, Elder Way, Stevenage, Hertfordshire ;Predicting the Effect of Pollution in Estuaries ;Proc R Soc Lond B Biol Sci ;1972,180,511-520. ;English

Citation 30

Barrick, Susan O. , May B. Daw, Pamela S. Tennyson, Frank W. Wojcik, John J. Norcross, William J. Hargis, Jr. ;Virginia Inst. of Marine Science, Gloucester Pt. , VA 23062 ;The Chesapeake Bay Bibliography, Vol. 1, The James River ;VIMS ;1971(June), Special Sci. Rep. No. 58. ;English

Citation 31

Bates, S. S. ;City College of New York, Dept. of Biology ;Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton ;Limnol Oceanogr ;1976,21(2),212-218. ;English

Citation 32

Bechtel, Timothy J. , B. J. Copeland ;Department of Zoology, North Carolina State Univ. , Raleigh, NC 27607 ;Fish Species Diversity Indices as Indicators of Pollution in Galveston Bay, Texas ;Texas Insti Mar Sci, Contributions ;1970,15,103-132. ;English

Citation 33

Bella, D. A. ;Oregon State Univ. , Corvallis, Dept. of Civil Engineering ;Tidal Flats in Estuarine Water Quality Analysis ;US Environmental Protection Agency ;1975(June), EPA-660/3-75-025,184p. ;English

Citation 34

Bella, David A. , William E. Dobbins ;Stanford Univ. , Calif. ;Finite-Difference Modelling of River and Estuary Pollution ;Proceedings of the National Symposium on Estuarine Pollution, 23-25(Aug)1967 ;1967(Aug),612-645. ;English

Citation 35

Benedict, Arthur H. , Andre LeSouef ;Whiteley-Jacobsen and Assoc. ,

Seattle, WA ;Assessing Nitrogen Contamination by Use of Differential Temperature Calculations ;Water Res ;1978,12,1107-1112. ;English

Citation 36

Berg, R. H. ;Seattle Univ. , Seattle, WA, Dept. of Civil Engineering ;The Oxygen Uptake Demand of Resuspended Bottom Sediments ;US Environmental Protection Agency, Water Pollut Control Res Ser ;1970(Sept),16070 DCD, 38p. ;English

Citation 37

Biome Co. , Inc. ;Surfside, CA ;The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges ;Calif State Water Res Control Board ;1974(Apr), Publication No. 54,96p. ;English

Citation 38

Biospherics Inc. ;Rockville, MD ;Study of the Possible Role of Pollution in the Prevalence of Sea Nettles in the Chesapeake Bay and the Development of a Census Taking Method ;Biospherics, Inc. ;1971(Oct), Final Rep. NASW-2115,135p. ;English

Citation 39

Black, R. ;Fisheries Research Board of Canada, St. John's (Newfoundland), Biological Station ;Growth Rates of Intertidal Molluscs as Indicators of Effects of Unexpected Incidents of Pollution ;J Fish Res Board Can ;1973,30(9),1385-1388. ;English

Citation 40

Bleecker, A. L. ;Rutgers-the State Univ. , New Brunswick, NJ ;Primary Productivity in Raritan Bay and its Relationship to Pollution ;Rutgers-the State Univ. ;1971, PhD Dissertation. ;English

Citation 41

Blumberg, A. ;National Oceanic and Atmospheric Administration, Princeton, NJ, Geophysical Fluid Dynamics Lab ;Numerical Tidal Model of Chesapeake Bay ;NOAA ;1977(Jan), NOAA 04-022-33,1-10. ;English

Citation 42

Blumberg, A. F. ;National Oceanic and Atmospheric Administration, Princeton, NJ, Geophysical Fluid Dynamics Lab. ;On the Dynamic

Balance of the Chesapeake Bay Waters ;Chesapeake Sci ;1977(Sept),18(3),319-323. ;English

Citation 43

Bowden, William B. , John E. Hobbie ;North Carolina State Univ. , Raleigh. Dept. of Zoology, NC ;Nutrients in Albemarle Sound, North Carolina ;Sea Grant pub. ;1977(Apr), UNC-SG-75-25,202p. ;English

Citation 44

Bower, C. E. , J. P. Bidwell ;Sea Research Foundation, West Hartford, CT, Inst. for Aquarium Studies ;Ionization of Ammonia in Seawater: Effects of Temperature, pH, and Salinity ;J Fish Res Board Can ;1978,35,1012-1016. ;English

Citation 45

Bray, J. T. ;Johns Hopkins Univ. , Baltimore, MD ;Behavior of Phosphate in the Interstitial Waters of Chesapeake Bay Sediments ;Johns Hopkins Univ. ;1973, Rep. COO-3292-7,167p. ;English

Citation 46

Bray, J. T. , O. P. Bricker, B. N. Troup ;Dept. of Earth and Planetary Sciences, Johns Hopkins Univ. , Baltimore, MD 21218 ;Phosphate in Interstitial Waters of Anoxic Sediments: Oxidation Effects during Sampling Procedure ;Science ;1973,80,1362-1364. ;English

Citation 47

Brehmer, Morris L. , Samuel O. Haltiwanger ;Virginia Inst. of Marine Science, Gloucester Point, VA ;A Biological and Chemical Study of the Tidal James River ;VIMS, SRAMSOE ;1966(Nov), No. 6,104p. ;English

Citation 48

Brezonik, Patrick L. ;Dept. of Environmental Engineering, Univ. of Florida, Gainesville, FL ;Nitrogen: Sources and Transformations in Natural Waters ;In: Nutrients in Natural Waters, Wiley-Interscience, Div. of John Wiley and Sons, Inc. NY, NY ;1972, Chapt. 1. ;English

Citation 49

Brezonik, Patrick L. ;US Environmental Protection Agency ;Nitrogen Sources,

Cycling in Natural Waters ;US EPA ;1973 (July), EPA 660/3-73-002 ;English

Citation 50

Brindle, J. R. , M. D'Amours ;Universite du Quebec a Rimouski, Que. (Canada), Section d'Oceanographic ;Seasonal Distribution of Nutrients in the Vicinity of Rimouski ;Cah Inf Sect Oceanogr Univ Que Rimouski ;1977(Nov), No. 1,39p. ;French

Citation 51

Brinn, David G. ;British Steel Corp. , England, Strip Mills Div. ;A Select Bibliography on Pollution of Estuaries and Coastal Waters with Particular Regard to Industrial Effluents ;BISRA, London ;1972(Aug), SM/BIB/785,6p. ;English

Citation 52

Bristow, J. W. , A. A. Crowder, M. R. King, S. Vanderkloet ;Queen's Univ. , Kingston (Ontario), Dept. of Biology ;The Growth of Aquatic Macrophytes in the Bay of Quinte Prior to Phosphate Removal by Tertiary Sewage Treatment (1975-1976) ;Le Nat Can ;1977,104,465-473. ;English

Citation 53

Brooks, Keith M. ;Interstate Commission on the Potomac River Basin, Bethesda, MD ;Critical Areas in the Potomac River Basin: A Mid-1977 Review of Water Pollution Control ;Interstate Commission on the Potomac River Basin, Bethesda, MD ;1977(Dec), Technical Pub. 77-3,83p. ;English

Citation 54

Brown, L. , E. G. Bellinger ;Victoria Univ. of Manchester (England), Pollution Research Unit ;Nitrate Determination in Fresh and Some Estuarine Waters by Ultraviolet Light Absorption: a New Proposed Method ;Water Res ;1978,12(4),223-229. ;English

Citation 55

Brown, R. J. ;National Technical Information Service, 5285 Port Royal Rd. , Springfield, VA ;Sewage Effects in Marine and Estuarine

Environments. Volume 2.1977-May 1978 ;NTIS ;1978, NTIS/PS-78/0559,55p. ;English

Citation 56

Brown, Robena J. ;National Technical Information Service, 5285 Port Royal Rd. , Springfield, VA 22161 ;Water Pollution in Estuaries and Coastal Zones (A Bibliography with Abstracts) ;NTIS ;1975(Sept), NTIS/PS-75/698 ;English

Citation 57

Brown, Robena J. ;National Technical Information Service, 5285 Port Royal Rd. , Springfield, VA 22161 ;Water Pollution in Estuaries and Coastal Zones, Vol. 2,1975-Sept 1976 ;NTIS ;1976(Nov), NTIS/PS-76/0852 ;English

Citation 58

Buck, J. D. ;Connecticut Univ. , Storrs Inst. of Water Resources ;Sedimentation and Microbial Metabolism in a Shallow Estuary ;OWRT ;1978, Completion Rep. OWRT A-069-CONN(1)/14-31-001-6007,27p. ;English

Citation 59

Burkholder, Paul R. , Lillian M. Burkholder ;Dept. of Bacteriology, Univ. of Georgia, Athens, GA ;Vitamin B12 in Suspended Solids and Marsh Muds Collected Along the Coast of Georgia ;Limnol Oceanogr ;1956,1(3),202-208. ;English

Citation 60

Buttermore, R. E. ;Univ. of Tasmania, Dept. of Zoology, G. P. O. Box 252C, ; Hobart, Tasmania, 7001, Australia ;Eutrophication of an Impounded Estuarine Lagoon ;Mar Pollut Bull ;1977(Jan),8(1),13-15. ;English

Citation 61

Califf, J. M. , Jr. ;Stanford Univ. , Stanford, CA, Dept. of Civil Engineering ;An Approach for Involving Local Officials and Citizens in Regional Water Quality Studies ;Engineering-Economic Planning Program ;1971, Publication No. EEP-44,197p. ;English

Citation 62

California Univ. ;San Diego, La Jolla, Inst. of Marine Resources ;Eutrophication in Coastal Waters: Nitrogen as a Controlling Factor

;US Environmental Protection Agency ;1971(Dec), Water Pollut Contr Res Ser EPA 16010 EHC 12/71,67p. ;English

Citation 63

Cambridge, M. I. ;Western Australia Univ. , Nedlands, Dept. of Botany ;Seagrasses of South-Western Australia with Special Reference to the Ecology of Posidonia australis Hook F. in a Polluted Environment ;Aquatic Bot ;1975(June),1(2),149-161. ;English

Citation 64

Caperon, John , S. A. Cattell , George Krasnick ;Hawaii Inst. of Marine Biology, P. O. Box 1346, Kaneohe 96744 ;Phytoplankton Kinetics in a Subtropical Estuary: Eutrophication ;Limnol Oceanogr ;1971,16(4),599-607. ;English

Citation 65

Caperon, John, Wayne A. Harvey, Frances A. Steinhilper ;Univ. of Hawaii, Dept. of Oceanography, Correa Road, Honolulu, HI 96822 ;Particulate Organic Carbon, Nitrogen, and Chlorophyll as Measures of Phytoplankton and Detritus Standing Crops in Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),317-327. ;English

Citation 66

Carpenter, Edward J. ;Woods Hole Oceanographic Inst. , MA ;Effects of Phosphorus Mining Wastes on the Growth of Phytoplankton in the Pamlico River Estuary ;Chesapeake Sci ;1971,12(2),85-94. ;English

Citation 67

Carpenter, J. H. , D. W. Pritchard, R. C. Whaley ;Chesapeake Bay Inst. , Johns Hopkins Univ. , Baltimore, MD ;Observations of Eutrophication and Nutrient Cycles in Some Coastal Plain Estuaries ;Johns Hopkins Univ, (CBI), or IN: Eutrophication, Proc. Symp. Sherry, Sol et al. (edited by). National Research Council. Publ No. 1706 Thrombosis. x + 762p. illus. National Academy of Sciences: Washington, DC, 1969 ;1969, CBI Contribution No. 108,210-221. ;English

Citation 68

Carter, H. H. , R. J. Regier ;Marine Sciences Research Center, State Univ. of New York, Stony Brook, NY 11794 ;A Physical Assessment of the Maryland Coastal Waters to Receive Wastewater ;Chesapeake Bay Inst.

, The Johns Hopkins Univ. ;1978(May), Special Rep. 62,92p. ;English

Citation 69

Chan, Kwong-yu, K. H. Wong, P. K. Wong ;Dept. of Biology and Dept. of Chemistry, The Chinese Univ. of Hong Kong, Shatin, NT, Hong Kong ;Nitrogen and Phosphorus Removal from Sewage Effluent with High Salinity by Chlorella salina ;Environ Pollut ;1979,18,139- ;English

Citation 70

Chapman, A. R. O. , J. W. Markham, K. Luning ;Dept. of Biology, Dalhousie Univ. , Halifax, Nova Scotia, Canada B3H 4J1 ;Effects of Nitrate Concentration on the Growth and Physiology of Laminaria saccharina (Phaeophyta) in Culture ;J Phycol ;1978,14(2),195-198. ;English

Citation 71

Chen, Carl W. , Gerald T. Orlob ;Water Resources Engineers, Inc. , Walnut Creek, CA ;Ecologic Simulation for Aquatic Environments ;Water Resources Engineers, Inc. ;1972 (Dec), Final Rep. No. 1-0500,168p. ;English

Citation 72

Chesapeake Research Consortium, Inc. ;Baltimore, MD ;Annual Technical Report, Volume V. Emissions and Additions: Biological Transfers and Effects of Waste Components ;CRC ;1973(May), CRC-PUB-24, NSF/RA/E-73/513,169p. ;English

Citation 73

Chesapeake Research Consortium, Inc. ;1419 Forest Drive, Suite 207, Annapolis, MD 21403 ;Chesapeake Bay Baseline Data Acquisition, Appendix IV. Eutrophication ;CRC ;1978(Aug),347p. ;English

Citation 74

Chesapeake Research Consortium, Inc. ;1419 Forest Drive, Suite 207, Annapolis, MD 21403 ;Chesapeake Bay Baseline Data Acquisition, Appendix. VII. Modification of Fisheries ;US EPA ;1978(Sept), EPA/903/9-78/027,289p. ;English

Citation 75

Christian, Robert R. , Richard L. Wetzel ;Dept. of Biological Sciences, Drexel Univ. , Philadelphia, PA ;Interaction between Substrate, Microbes, and Consumers of Spartina Detritus in Estuaries ;In:

Estuarine Interactions, edited by Martin L. Wiley, Academic Press ;1978,93-113. ;English

Citation 76

Christie, N. D. , A. Modlan ;Cape Town Univ. (South Africa), Dept. of Zoology; and Dept. of Planning and the Environment, Capetown (South Africa) ;Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay ;Mar Pollut Bull ;1977(Feb),8(2),41-45. ;English

Citation 77

Clark, John, W. G. Smith, Arthur W. Kendall, Jr. , Michael P. Fahay ;National Marine Fisheries Service, Highlands, NJ, Sandy Hook Marine Lab. ;Studies of Estuarine Dependence of Atlantic Coastal Fishes ;Bureau Sport Fish Wildl ;1969(Aug), Technical Paper No. 28,132p. ;English

Citation 78

Clark, L. J. , K. D. Feigner ;US Environmental Protection Agency, Annapolis Field Service Office, Annapolis, MD ;Mathematical Model Studies of Water Quality in the Potomac Estuary ;US EPA ;1972(Mar), Technical Rep. No. 33,174p. ;English

Citation 79

Clark, Leo J. , Daniel K. Donnelly, Orterio Villa Jr ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Summary and Conclusions from the Forthcoming Technical Report 56. Nutrient Enrichment and Control Requirements in the Upper Chesapeake Bay ;U S EPA ;1973 (Aug), EPA-903/9-73-002-a, 94p. ;English

Citation 80

Clark, Leo J. , Norbert A. Jaworski ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Nutrient Transport and Dissolved Oxygen Budget Studies in the Potomac Estuary ;U S EPA ;1972 (Oct), Technical Rep. No. TR-37,50p. ;English

Citation 81

Clark, Leo J. , Stephen E. Roesch ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Assessment of 1977 Water

Quality Conditions in the Upper Potomac Estuary ;US EPA ;1978(July), EPA/903/9-78/008,83p. ;English

Citation 82

Cochrane, John J. , Constantine J. Gregory, Gerald L. Aronson ;Northeastern Univ. , Boston, MA ;Water Resources Potential of an Urban Estuary. (Saugus River, Pines River and Lynn Harbor Complex) ; ;1970 (June), NTIS PB-197 991,110p. ;English

Citation 83

Collett, W. F. ;Forth River Purification Board, Langgarth, Scotland ;The Control of Estuarine Pollution ;Chem Ind (Lond) ;1967(Jan 7),25-29. ;English

Citation 84

Collias, Eugene E. , Svetlana I. Andreeva ;Univ. of Washington, Dept. of Oceanography, WA ;Puget Sound Marine Environment an Annotated Bibliography ;Univ. of Washington ;1977,392p. ;English

Citation 85

Collins, N. R. ;Gloucester, Eng. ;Environmental Planning with Particular Reference to Water ;Water Pollut Control ;1978,77(2),211-218. ;English

Citation 86

Cooper, David C. , B. J. Copeland ;Dept. of Biological Sciences, State Univ. of New York at Binghampton, Binghampton, N Y ;Responses of Contiuous-Series Estuarine Microecosystems to Point -Source Input Variations ;Ecol Monogr ;1973,43,213-236. ;English

Citation 87

Copeland, B. J. ;North Carolina State Univ. , Raleigh, Dept. of Zoology ;Nutrients and Eutrophication in the Pamlico River Estuary, NC - Preliminary Results, 1971-72 ;WRRI North Carolina ;1972(Nov), Interim Rep. , 23p. ;English

Citation 88

Copeland, B. J. , Donald E. Wohlschlag ;Univ. of Texas, Marine Science Inst. , Port Aransas, TX ;Biological responses to nutrients -- eutrophication: Saline water considerations. Advances in Water Quality Improvement. Water Resources Symposium No. I. Papers. Gloyna, Earnest F. and Eckenfelder, W. Wesley, (Held in Austin, Tex. , April 1966.) Sponsored by Univ. of Texas, Center for

Research in Resources, Austin ;Univ. of Texas Press, Austin ;1968,65,82. ;English

Citation 89

Copeland, B. J. , H. Lee Davis ;Dept. of Zoology, North Carolina State Univ. , Raleigh, NC ;Estuarine Ecosystems and High Temperatures ;WRRI UNC ;1972(June), UNC-WRRI-72-68 or UNC Contribution No. 29,90p. ;English

Citation 90

Copeland, B. J. , John E. Hobbie ;North Carolina State Univ. , Dept. of Zoology, Raleigh, NC ;Phosphorus and Eutrophication in the Pamlico River Estuary, NC ;North Carolina Water Resourc. Res. Inst. , Raleigh, N C ;1972 (Mar), UNC-WRRI-72-65,95p. ;English

Citation 91

Correll, D. L. ;Chesapeake Bay Center for Environmental Studies, Box 28, Edgewater, MD 21037 ;Estuarine Productivity ;BioScience ;1978,28,646-450. ;English

Citation 92

Correll, D. L. , M. A. Faust, J. W. Pierce, J. Stevenson, K. Lomax ;Chesapeake Bay Center for Environmental Studies, Box 28, Edgewater, Md 21037 ;A Quantitative Study of the Diffuse Source Loadings of Chesapeake Bay, (Progress Report) ;Chesapeake Bay Research Consortium, Inc. ;1976(Nov), Rep. No. NSF/RA-761357,13p. ;English

Citation 93

Cory, R. L. ;Geological Survey, Edgewater, MD ;Changes in Oxygen and Primary Production of the Patuxent Estuary, Maryland, 1963 Through 1969 ;Chesapeake Sci ;1974(June),15(2),78-83. ;English

Citation 94

Cox, D. C. , P. R. Fan, K. E. Chave, R. I. Clutter, K. R. Gundersen ;Hawaii Univ. , Honolulu, Water Resources Research Center ;Estuarine Pollution in the State of Hawaii, Volume 2: Kaneohe Bay Study ;WRRC Hawaii ;1973(Nov), Technical Rep. No. 31,444p. ;English

Citation 95

Craig, N. J. , J. W. Day, Jr. ;Louisiana State Univ. , Baton Rouge, Center for Wetlands Resources ;Barataria Basin: Eutrophication Case

History ;Louisiana State Univ. , Center for Wetlands Resources ;1976(June),27p. ;English

Citation 96

Craig, N. J. , J. W. Day, Jr. ;Louisiana State Univ. , Baton Rouge, Center for Wetlands Resources ;Cumulative Impact Studies in the Louisiana Coastal Zone; Eutrophication; Land Loss ;Louisiana State Univ. , Center for Wetlands Resources ;1977(June),166p. ;English

Citation 97

Crim, R. I. , N. L. Lovelace ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Auto-Qual Modelling System ;US EPA ;1973(Mar), Technical Rep. 54,301p. ;English

Citation 98

Crouzet, P. , C. Beaupoil ; ;Study of the Restoration of the Laita River, Methodology Approach to the Restoration of a Polluted Estuary ;Rev Int Oceanogr Med ;1978,50,37-42. ;French

Citation 99

Custer, Stephen W. , Richard G. Krutchkoff ;Virginia Polytechnic Inst. , Blacksburg, VA ;Stochastic Model for BOD and DO in Estuaries ;J San Eng Div Am Soc Civ Eng ;1969(Oct),95(SA5),865-886. ;English

Citation 100

Dahl-Madsen, K. I. ;Water Quality Inst. , Horsholm, Denmark ;Mathematical Modeling of Eutrophied Coastal Areas ;Prog Water Technol ;1978,10(5-6),217-235. ;English

Citation 101

Daiber, Franklin C. ;Delaware Univ. , Newark, College of Marine Studies ;Flushing Pattern of Certain Tidal Streams in Delaware ;Delaware Univ. ;1972 (Jan), Completion Rep. July 66-June 70,48p. ;English

Citation 102

Davis, E. M. , W. W. Eckenfelder ;Texas Univ. , Austin ;Estuarine Measurements for Productivity and Evaluation of System Waste Discharge

Effects ;In: Fifth International Water Pollution Conference, San Francisco, July 26-Aug 1,1970 ;1970,9p. ;English

Citation 103

Davis, G. J. ;East Carolina Univ. , Greenville, NC 27834 ;Seasonal Changes of Rooted Water Plants of the Pamlico River Estuary ;WRRI North Carolina ;1975, Annual Rep. , 51p. ;English

Citation 104

Davis, G. J. , M. M. Brinson, W. A. Burke ;East Carolina Univ. , Greenville, NC 27834, Dept. of Biology;Organic Carbon and Deoxygenation in the Pamlico River Estuary ;WRRI North Carolina (Raleigh) ;1978(Jan), UNC-WRRI-78-131,123p. ;English

Citation 105

Day, John W. , Jr. , Charles M. Weiss, H. T. Odum ;Institute for Environmental Health Studies, Morehead City, NC ;Carbon Budget and Total Productivity of an Estuarine Oxidation Pond Receiving Secondary Sewage Effluent ;2nd International Symposium for Waste Treatment Lagoons, 23- 25(June)1970, Kansas City, Missouri ;1970,100-113. ;English

Citation 106

Dean, David, Michael A. Mayurkiewicz ;Maine Univ, Walpole, Ira C. Darling Center for Research, Teaching and Service ;Water Quality - Benthic Invertebrate Relationships in Estuaries ;Maine Univ. ;1970(June), Completion Rep. , 31p. ;English

Citation 107

DeCoursey, P. J. , W. B. Vernberg ;South Carolina Univ. , Columbia, Belle W. Baruch Coastal Research Inst. ;The Effect of Dredging in a Polluted Estuary on the Physiology of Larval Zooplankton ;Water Res ;1975(Feb),9(2),149-154. ;English

Citation 108

Deltreil, Jean-Pierre, Michelle Feuillet, Guy Archambeau ; ;Etude Experimentale de la Fertilisation Phosphatee dans les Claires a Huitres ;Rev Trav Inst Peches Marit ;1977,41(3),283-297. ;French

Citation 109

Denn, M. M. , R. K. Jain ;Delaware Univ. , Newark, Dept. of Chemical Engineering ;Control of BOD Upsets in the Delaware Estuary

;Delaware Univ. ;1974(Nov), Completion Rep. OWRR A-024-DEL(1),87p. ;English

Citation 110

DeNoyelles, F. , W. J. O'Brien ; ;Phytoplankton Succession in Nutrient Enrichment Experimental Ponds as Related to Changing Carbon, Nitrogen and Phosphorus Conditions ;Archiv fur Hydrobiol ;1978,84(2),137-165. ;English

Citation 111

Department of the Environment ;London ;Biological Indicators of Estuarine Pollution-Research and Application. Report of a Seminar, London, June 1976 ;Dept. of the Environment and Transport ;1978, Research Rep. No. 22,79p. ;English

Citation 112

Ditsworth, George R. ;Federal Water Pollution Control Administration, Northwest Region, Pacific Northwest Water Laboratory, Corvallis, OR ;Environmental Factors in Coastal and Estuarine Waters: Bibliographic Series - Volume II. Coast of Washington ;Fed Water Pollut Control Admin ;1968(Aug). ;English

Citation 113

Duedall, I. W. , H. B. O'Connors , J. H. Parker , R. E. Wilson ; A. S. Robbins ;Marine Sciences Research Center, State University of New York, Stony Brook, N Y 11794 ;The Abundances, Distribution and Flux of Nutrients and Chlorophyll a in the New York Bight Apex ;Estuarine Coastal Mar Sci ;1977,5,81-105. ;English

Citation 114

Duke, Thomas W. , Anatolity I. Simonov ;Environmental Research Lab, Gulf Breeze, FL ;American-Soviet Symposium on the Biological Effects of Pollution on Marine Organisms (1st) ;US Environmental Protection Agency ;1978, EPA/600/09-78/007,176p. ;English

Citation 115

Dunstan, William M. ;Woods Hole Oceanographic Institution, Woods Hole, MA ;Problems of Measuring and Predicting Influence of Effluents on Marine Phytoplankton ;Environ Sci Technol ;1975,9,635-638. ;English

Citation 116

Dunstan, William M. , David W. Menzel ;Woods Hole Oceanographic Institution, Woods Hole, MA 02543 ;Continuous Cultures of Natural

Populations of Phytoplankton in Dilute, Treated Sewage Effluent ;Limnol Oceanogr ;1971(July),16(4),623-632. ;English

Citation 117

Duxbury, Alyn C. ;Dept. of Oceanography, U. of Washington, Seattle 98195 ;Orthophosphate and Dissolved Oxygen in Puget Sound ;Limnol Oceanogr ;1975,20(2),270-274. ;English

Citation 118

Edwards, Arthur P. ;Cold Regions Research and Engineering Lab Hanover, NH ;A Guide to the Use of 14N in Environmental Research ;Cold Regions Res Eng Lab, NH ;1978(Sept), CRREL-SR-78-8,77p. ;English

Citation 119

Edwards, P. ;Durham Univ. (England), Dept. of Botany ;Benthic Algae in Polluted Estuaries ;Mar Pollut Bull ;1972(Apr),3(4),55-60. ;English

Citation 120

Edwards, P. ;Durham Univ. (England), Dept. of Botany ;An Assessment of Possible Pollution Effects over a Century of the Benthic Marine Algae of CO, Durham, England ;Bot J Linn Soc ;1975,70(4),269-305. ;English

Citation 121

Ehrhadt, Manfred, Ju Heinemann ;Rgen. Meereskunde Inst, W Germany ;Hydrocarbons in Blue Mussels from the Kiel Bight ;Environ Pollut ;1975(Dec),9(4),263-283. ;English

Citation 122

Ehrhardt, J. P. ;Serv. Mixte de Controle Biol. , BP 16,91310 Montlhery, France ;Techniques for Studying Biological Modifications Caused by Coastal Restructurations ;Rev Int Oceanogr Med ;1978,50,11-19. ;French

Citation 123

Eisermann, John L. , J. Douglas Smith ; ;Selective Nutrient Removal from Secondary Effluent ;Office of Research and Development, US Environmental Protection Agency, Washington, D. C. 20460 ;1973(Sept), EPA-670/2-73-076,155p. ;English

Citation 124

El-Sabh, Mohammed, I. , E. Bourget, M. J. Bewers, J. C. Dionne ;Departement d'Oceanographie, Universite du Quebec a Rimouski ;Oceanography of the St. Lawrence Estuary ;Naturaliste canadien

(publication of Symposium on the Oceanography of the St. Lawrence Estuary, Universite du Quebec a Rimouski, April 12-14,1978) ;1979(Jan/Feb),18 papers and a bibliography. ;English

Citation 125

Eleueterius, C. K. ;Gulf Coast Research Lab, Ocean Springs, MS ;Mississippi Sound Temporal and Spatial Distribution of Nutrients ;Mississippi-Alabama Sea Grant Consortium ;1976, MA SGP-76-024,66p. ;English

Citation 126

Engler, R. M. , D. A. Antie, W. H. Patrick, Jr. ;Research Soil Scientist, Dep. of the Army, Corps of Eng. , Waterways Exp. Stn. , Environ. Effects Lab. , Vicksburg, MS 39180 ;Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp and Marsh Soils ;J Environ Qual ;1976,5(3),230-235. ;English

Citation 127

Engler, R. M. , W. H. Patrick, Jr. ;Research Soil Scientist, Dept. of Army, Corps of Engineers, Waterways Experiment Station, Environmental Effects Lab. , Vicksburg, MS 39180 ;Nitrate Removal from Floodwater Overlying Flooded Soils and Sediments ;J Environ Qual ;1974,3(4),409-413. ;English

Citation 128

Eppley, R. W. , C. Sapienza, E. H. Renger ;Institute of Marine Resources A-018 University of California, San Diego, La Jolla, CA 92093 ;Gradients in Phytoplankton Stocks and Nutrients off Southern California in 1974-76 ;Estuarine Coastal Mar Sci ;1978,7,291-301. ;English

Citation 129

Eppley, Richard W. ;Institute of Marine Resources, Scripps Institute of Oceanography, University of California, San Diego, CA ;Eutrophication in Coastal Waters: Nitrogen as a Controlling Factor ; ;1971,16010 EHC , 67p. ;English

Citation 130

Fahy, Edward , Roger Goodwillie, John Rochford, Kelly David ;Natl Inst for Physical Planning, Waterloo Rd, Dublin 4 Eire, Ireland

;Eutrophication of a Partially Enclosed Estuarine Mudflat ;Mar Pollut Bull ;1975 (Feb),6 (2),29. ;English

Citation 131

Fanning, K. A. , M. E. Q. Pilson ;University of South Florida, St. Petersburg, Marine Science Inst. ;The Lack of Inorganic Removal of Dissolved Silica During River- Ocean Mixing ;Geochim Cosmochim Acta ;1973,37(11),2405-2415. ;English

Citation 132

Farmer, R. C. , W. R. Waldrop, F. H. Pitts, K. R. Shah ;Louisiana State Univ. , Baton Rouge, Dept. of Chemical Engineering ;Development of a Three-Dimensional Time-Dependent Flow Field Model ;NASA ;1975(Jan), NASA-CR-120762,88p. ;English

Citation 133

Faust, M. A. , D. L. Correll ;Smithsonian Institution, Edgewater, MD, Chesapeake Bay Center for Environmental Studies ;Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment ;Mar Biol ;1976,34(2),151-162. ;English

Citation 134

Federal Water Pollution Control Administration ;Philadelphia, PA ;Delaware Estuary Comprehensive Study Preliminary Report and Findings ;Fed Water Pollut Control Admin ;1966(July),113p. ;English

Citation 135

Ferguson, R. L. , M. B. Murdoch ;National Marine Fisheries Service, Beaufort, NC, Atlantic Estuarine Fisheries Center ;Microbial ATP and Organic Carbon in Sediments of the Newport River Estuary, North Carolina ;Estuarine Res ;1975,1,229-250. ;English

Citation 136

Finger, James H. , T. Allen Wastler ;Tampa-Hillsborough Bay Technical Assistance Project, Tampa, FL, and Federal Water Pollution Control Administration, Washington, DC, Office of Estuarine Studies ;Organic Carbon-Organic Nitrogen Ratios of Sediments in a Polluted Estuary ;J Water Pollut Control Fed ;1969(Feb),41(2), R101-109. ;English

Citation 137

Finnish Marine Research ;Inst. of Marine Research, P. O. Box 14 166, SF-00141, Helsinki 14, Finland ;Proceedings of the Finnish-Swedish

Seminar on the Gulf of Bothnia VAASA, Finland, March 8th-9th, 1978 ;Finnish Marine Res ;1978, No. 244,236p. ;English

Citation 138

Fish, R. , J. Savage ;Partners, UK ;An Outline Scheme for Reuse of Mogden Sewage Effluent ;Water Serv ;1974 (Sep),78 (943),300. ;English

Citation 139

Fisher, W. S. ;California Univ. , Bodega Bay, Bodega Marine Lab ;Relationships on Epibiotic Fouling and Mortalities of Eggs of the Dungeness Crab (Cancer magister) ;J Fish Res Board Can ;1976,33,2849-2853. ;English

Citation 140

Flemer, D. A. , D. R. Heinle ;Maryland Univ. , Solomons, Chesapeake Biological Lab ;Effects of Waste Water on Estuarine Ecosystems ;Chesapeake Research Consortium, Inc. ;1974, CRC Publication No. 33,16p. ;English

Citation 141

Flemer, David A. , Heyward D. Hamilton, Carolyn W. Keefe, Joseph A. Mihursky ;Maryland Univ. , Solomons, Natural Resources Inst. ;The Effects of Thermal Loading and Water Quality on Estuarine Primary Production ;NRI Maryland ;1970 (Dec), NRI-REF-71-6,223p. ;English

Citation 142

Flint, K. P. , J. W. Hopton ;Dep. Microbiol. , Univ. Birmingham, Birmingham, Engl. ;Seasonal Variation in the Phosphatase Activity of Waters and Sewage Sludges ;Eur J Appl Microbiol ;1977,4(3),205-215. ;English

Citation 143

Folkard, A. R. , P. G. W. Jones ;Ministry of Agriculture, Fisheries and Food, Fisheries Lab, Lowestoft, Suffolk, UK ;Distribution of Nutrient Salts in the Southern North Sea during early 1974 ;Mar Pollut Bull ;1974 , 5 (12),181-185. ;English

Citation 144

Foree, Edward G. , Charles Reece Scroggin ;University of Kentucky, Water Resources Institute, Lexington, KY ;Carbon and Nitrogen as Regulators

of Algal Growth in Treated Sewage ;WRI Kentucky ;1972, Research Rep. No. 49,60p. ;English

Citation 145

Frecker, Maxine F. , Charles C. Davis ;Dept. of Biology, Queen's University, Kingston, Ontario, Canada ;Man-made Eutrophication in a Newfoundland (Canada) Harbour ;Int Revue ges Hydrobiol ;1975,60(3),379-392. ;English

Citation 146

Freemantle, M. H. , N. Hulings , M. Mulqi , E. C. Watton ;Faculty of Science, Univ. of Jordan, Amman, Jordan ;Calcium and Phosphate in the Jordan Gulf of Aqaba ;Mar Pollut Bull ;1978,9(3),79-80. ;English

Citation 147

Frontier, S. ;Office de la Recherche Scientifique et Technique Outre-Mer, Nosy-Be (Madagascar). Centre Oceanographique (ORSTOM) de Nosy- Be ;Zooplankton of the Region of Nosy-Be: V. Cladocera: Contribution to the Study of a Tropical Eutrophic Bay ;Cah ORSTOM Ser Oceanogr ;1973,11(3),259-272. ;French

Citation 148

Gameson, A. L. H. , I. C. Hart ;Water Pollution Research Lab. , Stevenage (England) ;A Study of Pollution in the Thames Estuary ;Chem Ind (Lond) ;1966(Dec 17),2117-2123. ;English

Citation 149

Gardner, L. R. ;Clemson Univ. , South Carolina Dept. of Chemistry and Geology ;Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study ;WRRI South Carolina ;1976(Sept), Report No. 63,95p. ;English

Citation 150

Gardner, W. S. , J. A. Stephens ; ;Stability and Composition of Terrestrially Derived Dissolved Organic Nitrogen in Continental Shelf Surface Waters ;Mar Chem ;1978,6(4),335-342. ;English

Citation 151

Genovese, S. ;Institut d'Hydrobiologie, Universite de Messine, Italie

;Eutrophication Recent Directions for New Perspectives ;Rev Int Oceanogr Med ;1973,29,53-61. ;English

Citation 152

Gieskes, W. W. C. , A. J. van Bennekom ;Netherlands Institute for Sea Research, Texel, Netherlands ;Unreliability of the 14C method for Estimating Primary Productivity in Eutrophic Dutch Coastal Waters ;Limnol Oceanogr ;1973,18(3),494-495. ;English

Citation 153

Gieskes, W. W. C. , G. W. Kraay ;Netherlands Inst. Sea Res. , Texel, Netherlands ;Continuous Plankton Records: Changes in the Plankton of the North Sea and its Eutrophic Southern Bight from 1948 to 1975 ;Neth J Sea Res ;1977,11(3-4),334-364. ;English

Citation 154

Giles, M. S. ;Australian Atomic Energy Commission Research Establishment, Lucas Heights ;A Study of the Movement of Phosphorous in the Little River Estuary, NSW ;Aust Atomic Energy Comm Res Estab ;1972(Oct), Rep. AAEC/TM-616,22p. ;English

Citation 155

Gilmartin, Malvern, Noelia Revelante ;Center for Marine Studies, University of Maine, Orono, ME 04473 ;The Phytoplankton Characteristics of the Barrier Island Lagoons of the Gulf of California ;Estuarine Coast Mar Sci ;1978,7,29-47. ;English

Citation 156

Gleeson, Sandra A. , Jane F. Stauble ;Virginia Institute of Marine Science, Gloucester Pt. , Virginia 23062 ;The Chesapeake Bay Bibliography, Vol. 4, Virginia Waters ;VIMS ;1976(Dec), Special Sci. Rep. No. 80. ;English

Citation 157

Goering, John J. ;Institute of Marine Science, Univ. of Alaska, College, AL ;The Role of Nitrogen in Eutrophic Processes ;In: Water Pollution Microbiology. Edited by Ralph Mitchell. Wiley- Interscience ;1972, Chapt. 3,43-68. ;English

Citation 158

Goldberg, Edward D. , John J. Griffin, Vern Hodge, Minora Koide ;Geol. Res. Div. , Scripps Inst. Oceanogr. , La Jolla, CA ;The

Pollution History of the Savannah River Estuary ;Scripps Inst. Oceanogr. ;1978, NUREG CR0082,42p. ;English

Citation 159

Goldman, Charles R. , James McEvoy III, Peter J. Richerson ;University of California, Davis ;Environmental Quality and Water Development ;W. H. Freeman and Company, 660 Market Street, San Francisco, CA 94104 ;1973,500p. ;English

Citation 160

Goldman, J. C. ;Woods Hole Oceanographic Institution, MA ;Identification of Nitrogen as a Growth-Limiting Nutrient in Waste-Waters and Coastal Marine Waters Through Continuous Culture Algal Assays ;Water Res ;1976,10(2),97-104. ;English

Citation 161

Goldman, J. C. , K. R. Tenore, H. I. Stanley ;Woods Hole Oceanographic Institution, MA ;Inorganic Nitrogen Removal from Wastewater: Effect on Phytoplankton Growth in Coastal Marine Waters ;Science ;1973(June),180(4089),955-956. ;English

Citation 162

Golovkin, A. N. , G. P. Garkavaya, I. V. Churbanova ;Murmanskii Morskoi Biologicheskii Institut (USSR) ;Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast ;Okeanologiya ;1976,16(3),451-456. ;Russian

Citation 163

Gould, D. J. , M. R. Fletcher ;Water Research Centre, Stevenage Laboratory, Elder Way, Stevenage, England ;Gull Droppings and Their Effects on Water Quality ;Water Res ;1978,12,665-672. ;English

Citation 164

Goulder, R. ;Department of Plant Biology, University of Hull, England ;Attached and Free Bacteria in an Estuary with Abundant Suspended Solids ;J Appl Bacteriol ;1977,43(3),399-405. ;English

Citation 165

Gradl, T. ;Kiel Univ. (West Germany), Institut fuer Meereskude ;Enzymatic

in situ Measurements: New Seawater and Sediment Measurement Methods ;Kiel Meeresforsch ;1974,30(1),1-11. ;German

Citation 166

Graef, W. ; ;Myxobacteria of the Myxococcus Group as Indirect Indicators of Fecal Matter in Surface Water: 1. Communication ;Zentralbl Bakteriol Parasitenkd Infektionskr Hyg Erste Abt Orig Reihe B Hyg Praev Med. ;1975,160(1),28-39. ;German

Citation 167

Gray, J. S. ;Leeds Univ. (England), Wellcome Marine Lab ;The Fauna of the Polluted River Tees Estuary ;Estuarine Coast Mar Sci ;1976,4,653-676. ;English

Citation 168

Green, Katherine A. ;P. O. Box 13204, El Paso, TX 79912 ;A Conceptual Ecological Model for Chesapeake Bay ;US Dept of Interior, Fish and Wildlife Service, Aquatic Ecosystem Group ;1977, Order No. SFWB 144807,36p. ;English

Citation 169

Grenney, W. J. , D. A. Bella, H. C. Curl ;Utah Water Research Lab. , Logan ;Effects of Intracellular Nutrient Pools on Growth Dynamics of Phytoplankton ;J Water Pollut Control Fed ;1974(July),46(7),1751-1760. ;English

Citation 170

Grenney, William J. , David A. Bella ;Department of Civil Engineering, Oregon State University, Corvallis, OR 97331 ;Field Study and Mathematical Model of the Slack-Water Buildup of a Pollutant in a Tidal River ;Limnol Oceanogr ;1972,17(2),229-236. ;English

Citation 171

Gross, F. ;Department of Zoology, University of Edinburgh ;Further Observations on Fish Growth in a Fertilized Sea Loch (Loch Craiglin) ;J Mar Biol Assoc UK ;1949,28,1-8. ;English

Citation 172

Grunsfich, Gary S. , Iver W. Duedall ;Marine Sciences Research Center, State University of New York, Stony Brook, NY 11794 ;The

Decomposition of Sewage Sludge in Seawater ;Water Res ;1978,12,535-545. ;English

Citation 173

Guide, Victor , Orterio Villa, Jr. ;US Environmental Protection Agency, Annapolis Field Office, Annapolis, MD ;Chesapeake Bay Nutrient Input Study ;US EPA, Annapolis Field Office ;1972(Sept), Technical Rep. No. 47,118p. ;English

Citation 174

Haas, Leonard William ;The School of Marine Science, The College of William and Mary in Virginia ;Plankton Dynamics in a Temperate Estuary with Observations on a Variable Hydrographic Condition ;VIMS ;1975, PhD Dissertation. ;English

Citation 175

Haertel, Lois , Charles Osterberg , Herbert Curl Jr. , P. Kilho Park ;Dept. of Oceanography, Oregon State University, Corvallis, OR 97331 ;Nutrient and Plankton Ecology of the Columbia River Estuary ;Ecology ;1969,50(6),962-978. ;English

Citation 176

Haines, E. B. ;Georgia Univ. , Sapelo Island, Marine Inst. , ;Nitrogen Content and Acidity of Rain on the Georgia Coast ;Water Resour Bull ;1976(Dec),12(6),1223-1231. ;English

Citation 177

Haines, Evelyn B. ;University of Georgia Marine Institute, Sapelo Island, GA 31327 ;Nitrogen Pools in Georgia Coastal Waters ;Estuaries ;1979(Mar),2(1),34-39. ;English

Citation 178

Hale, Stephen S. ;Graduate School of Oceanography, University of Rhode Island, Kingston, RI ;The Role of Benthic Communities in the Nitrogen and Phosphorus Cycles of an Estuary ;Proceedings of a Symposium "Mineral Cycling in the Southeastern Ecosystems" ;1975, Cof-740513,291-308. ;English

Citation 179

Hallberg, R. D. , L. E. Bagander, A. G. Engvall, M. Lindstron, S. Oden, F. A. Schippel ;ASKO Laboratory, University of Stockholm, Sweden ;The Chemical-Microbiological Dynamics of the Sediment-Water

Interface ;Univ. of Stockholm, Sweden ;1973, Contribution No. 2. ;English

Citation 180

Hampson, B. L. ;Ministry of Agriculture Fisheries and Food, (Lowestoft England) Fisheries Lab ;The Analysis of Ammonia in Polluted Sea Water ;Water Res ;1977,11(3),305-308. ;English

Citation 181

Hannah, R. P. , A. T. Simmons, G. A. Moshiri ;General Electric Co. , Mississippi Test Facilities, Bay St. Louis, MS ;Nutrient-Productivity Relationships in a Bayou Estuary ;J Water Pollut Control Fed ;1973 (Dec),45 (12),2508. ;English

Citation 182

Hanson, R. B. , K. R. Gundersen ;University of Hawaii, Department of Microbiology, Honolulu, HA 96822 ;Bacterial Nitrogen Fixation in a Polluted Coral Reef Flat Ecosystem, Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),385-393. ;English

Citation 183

Harleman, D. R. F. ; J. E. Dailey, M. Lu. Thatcher, T. O. Najarian, D. N. Brocard ;Massachusetts Inst. of Tech. , Cambridge, MA, Dept. of Civil Engineering. ;User's Manual for the M. I. T. Transient Water Quality Network Model - Including Nitrogen-Cycle Dynamics for Rivers and Estuaries ;MIT ;1977(Jan), EPA/600/3-77/010,263p. ;English

Citation 184

Harris, Richard L. ;Dept. of Chemistry, Univ. of MD ;Processes Affecting the Vertical Distribution of Trace Components in the Chesapeake Bay ;Univ. of MD ;1976, PhD Dissertation. ;English

Citation 185

Harrison, William G. , John E. Hobbie ;North Carolina Water Resources Research Inst. , Raleigh, NC ;Nitrogen Budget of a North Carolina Estuary ;WRRI North Carolina ;1974(Jan), UNC-WRRI-74-86,187p. ;English

Citation 186

Harrison, William Glenn North Carolina State Univ. ;Raleigh, Dept. of

Zoology, NC ;Nitrogen Budget of a North Carolina Estuary ;UNC State University ;1974, Doctoral Thesis, 188p. ;English

Citation 187

Hartwig, E. O. ;Johns Hopkins Univ. , Baltimore, MD. Chesapeake Bay Inst. ;The Impact of Nitrogen and Phosphorus Release from a Siliceous Sediment on the Overlying Water ;Third International Estuarine Conference, Galveston, TX ;1975(Oct), Paper No. COO-3279-20,33p. ;English

Citation 188

Harvey, Wayne A. , John Caperon ;University of Hawaii, Department of Oceanography, Honolulu, HA 96822 ;The Rate of Utilization of Urea, Ammonium, and Nitrate by Natural Populations of Marine Phytoplankton in a Eutrophic Environment ;Pac Sci ;1976,30(4),329-340. ;English

Citation 189

Hatcher, P. G. , L. E. Keister, P. A. McGillivary ;National Oceanic and Atmospheric Administration, Miami, FL, Atlantic Oceanographic and Meteorological Labs ;Steroids as Sewage Specific Indicators in New York Bight Sediments ;Bull Environ Contam Toxicol ;1977(Apr),17(4),491-498. ;English

Citation 190

Hattori, A. , I. Koike ;Univ. of Tokyo, Ocean Research Inst. , 15-1,1-chome, Minamidai, Tokyo, 164 Japan ;Denitrification and Ammonia Formation in Anaerobic Coastal Sediments ;Appl Environ Microbiol ;1978(Feb),35(2),278-282. ;English

Citation 191

Heck, K. L. , Jr. ;Department of Biological Science, Florida State University; Tallahassee, FL ;Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats ;Mar Biol ;1976,35,345-357. ;English

Citation 192

Heinle, D. R. , D. A. Flemer , J. F. Ustach , R. A. Murtagh ;Maryland University, Prince Frederick, Center for Environmental and Estuarine Studies, MD ;Contributions of Tidal Wetlands to Estuarine

Food Chains ;Water Resources Research Inst. Maryland ;1975, Technical Rep. No. 29,34p. ;English

Citation 193

Heinle, D. R. , D. A. Flemer ;Univ. of Maryland, Center for Environmental and Estuarine Studies Chesapeake Biological Lab. ; Solomons, MD ;Flows of Material between Poorly Flooded Tidal Marshes and an Estuary ;Mar Biol ;1976,35,359-373. ;English

Citation 194

Heinle, Donald R. , David A. Flemer, Rogers T. Huff, Shelly T. Sulkin, Robert E. Ulanowicz ;University of Maryland, Center for Environmental and Estuarine Studies, Chesapeake Biological Laboratory, Solomons, MD 20688 ;Effects of Perturbations on Estuarine Microcosms ;Univ. of South Carolina, Belle W. Baruch Inst. for Marine Biology and Coastal Research ;Rec'd (Nov)1978, in Press. ;English

Citation 195

Heinle, Donald R. , David A. Flemer , Joseph F. Ustach, Richard A. Murtagh, Roger P. Harris ;Maryland Univ. , Solomons. Natural Resources Inst. ;The Role of Organic Debris and Associated Micro-Organisms in Pelagic Estuarine Food Chains ;NRI Maryland ;1973, Rep. No. NRI-Ref-74-29 TR-22,130p. ;English

Citation 196

Helz, G. R. , R. J. Huggett, J. M. Hill ;Maryland Univ. , College Park, Dept. of Chemistry ;Behavior of Mn, Fe, Cu, Zn, Cd and Pb Discharged from a Wastewater Treatment Plant into an Estuarine Environment ;Water Res ;1975(July),9(7),631-636. ;English

Citation 197

Hendey, N. I. ; ;The Species Diversity Index of Some-in-Shore Diatom Communities and its Use in Assessing the Degree of Pollution on Parts of the North Coast of Cornwall ;In: Fourth Symp. on Recent and Fossil Marine Diatoms, Oslo Aug 30-Sept 3,1976, Proceedings. Edited by P. Simsen ;1977,354-377. ;English

Citation 198

Hess, K. W. ;Rhode Island Univ. , Kingston, Graduate School of Oceanography ;A Three-Dimensional Numerical Model of the Estuary

Circulation and Salinity in Narragansett Bay ;Estuarine Coast Mar Sci ;1976(May),4(3),325-338. ;English

Citation 199

Hinchcliffe, P. R. ;Lancashire and Western Sea Fisheries Joint Committee, University of Lancaster, Bailrigg, Lancaster LA1 4XY, England ;Surf-zone Water Quality in Liverpool Bay ;Estuarine Coast Mar Sci ;1976,4,427-442. ;English

Citation 200

Hirota, Jed, James P. Szyper ;University of Hawaii, Department of Oceanography, Honolulu, HA 96822 ;Standing Stocks of Zooplankton Size-Classes and Trophic Levels in Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),341-361. ;English

Citation 201

Hobbie, J. E. , B. J. Copeland, W. G. Harrison ;North Carolina Water Resources Research Institute, Raleigh, NC ;Nutrients in the Pamlico River Estuary, NC , 1969--1971. Eutrophication ;WRRI North Carolina ;1972(Dec), Rep. 79,242p. ;English

Citation 202

Hobbie, John E. ;North Carolina Water Resources Research Inst. , Raleigh, NC ;Phosphorus Concentrations in the Pamlico River Estuary of North Carolina ;WRRI North Carolina ;1970(Mar), Rep. No. 33,50p. ;English

Citation 203

Hobbie, John E. ;North Carolina Water Resources Research Inst. , Raleigh, NC ;Nutrients and Eutrophication in the Pamlico River Estuary, NC 1971-1973 ;WRRI North Carolina ;1974(Aug), Rep. No. UNC-WRRI-74-100,248p. ;English

Citation 204

Hobbie, John E. , Nathaniel W. Smith ;Department of Zoology, NC State University ;Nutrients in the Neuse River Estuary, North Carolina ;Univ. North Carolina ;1975(Dec), UNC-SG-75-21,183p. ;English

Citation 205

Hochman, E. , D. Zilberman, R. Just ;Tel-Aviv Univ. , (Israel),

Dept. of Economics ;Internalization in a Stochastic Pollution Model ;Water Resour Res ;1977(Dec),13(6),877-881. ;English

Citation 206

Hodson, R. E. , O. Holm-Hansen, F. Azam ;California Univ. , San Diego, La Jolla, Inst. of Marine Resources ;Improved Methodology for ATP Determination in Marine Environments ;In: Research on the Marine Food Chain, Progress Report for period July 1974-June 1975. ;1975, UCSD 10P20-202,871-888. ;English

Citation 207

Holdren, G. R. , O. P. Bricker, G. Matisoff ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Earth and Planetary Sciences ;A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay ;Johns Hopkins Univ. ;1975, Rep. CONF-750410-8,18p. ;English

Citation 208

Holland, J. S. , N. J. Maciolek, C. H. Oppenheimer ;Texas Univ. , Port Aransas, Marine Science Inst. ;Galveston Bay Benthic Community Structure as an Indicator of Water Quality ;Contrib Mar Sci ;1973,17,169-188. ;English

Citation 209

Howells, Gwyneth P. ;Nerc, London, Eng. ;The Estuary of the Hudson River, USA ;Proc R Soc Lond B Biol Sci ;1972(Mar),180(1061),521-534. ;English

Citation 210

Hull, R. J. ;Rhode Island Univ. , Kingston. Dept. of Plant and Soil Science ;The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters ;Rhode Island Univ. ;1976(Sept), Completion Rep. OWRT B-062-RI(I),34p. ;English

Citation 211

Hundemann, Audrey S. ;National Technical Information Service, Springfield, VA ;Remote Sensing Applied to Environmental Pollution Detection and Management (A Bibliography With Abstracts),1964-July 1978 ;NTIS ;1978(Aug), NTIS/PS-78/0789/4ST, 163p. ;English

Citation 212

Hyer, P. V. , A. Y. Kuo, C. S. Fang, W. J. Hargis, Jr. ;Virginia Institute of Marine Science, Gloucester Point, VA 23062

;Hydrography and Hydrodynamics of Virginia Estuaries. VIII. Mathematical Model Studies of Water Quality of the York River System ;Appl Mar Sci Ocean Eng ;1975(Oct), Special Rep. No. 104,168p. ;English

Citation 213

Ischinger, L. S. , E. B. Welch, E. E. Geldreich, L. W. Little, R. F. Unz, G. F. Craun, D. J. Reasoner ;US Fish & Wildlife Service, CO ;Water Pollution ;J Water Pollut Control Fed ;1976(June),48(6),1318-1321. ;English

Citation 214

Jaworski, N. A. ;US Environmental Protection Agency ;Comprehensive Analysis of the Upper Estuary of the Potomac River. Basic Problems in Control of Eutrophication ;Vsestoronnii Anal. Okruzhayushchei Prir. Sredy, Tr. Sov. - Am. Simp. , 1st, 1974, Gidrometeoizdat Leningrad, USSR Edited by Yu. A Izrael ;1975,189-206. ;Russian

Citation 215

Jaworski, N. A. , D. W. Lear, Jr. , O. Villa, Jr. ;US Environmental Protection Agency, Annapolis, MD, Chesapeake Technical Support Lab ;Nutrient Management in the Potomac Estuary ;In: Nutrients and Eutrophication: The Limiting Nutrient Controversy; American Society of Limnology and Oceanography, Allen Press ;1972, Spec. Symp. Vol. 1,246-273. ;English

Citation 216

Jaworski, N. A. , L. J. Clark , K. D. Feigner ;US Environmental Protection Agency, Chesapeake Technical Support Lab, Annapolis, MD ;A Water Resource-Water Supply Study of the Potomac Estuary ;US EPA ;1971(Apr), Technical Rep. No. 35,263p. ;English

Citation 217

Jaworski, N. A. , L. J. Clark, K. D. Feigner ;US Environmental Protection Agency, Washington, DC, Office of Research and Monitoring ;Upper Potomac Estuary Eutrophication Control Requirements ;US EPA, Annapolis Field Office ;1972(Apr), Technical Rep. No. 53,45p. ;English

Citation 218

Jaworski, N. A. , L. J. Hetling ;Federal Water Pollution Control Administration, Annapolis, MD ;Relative Contributions of Nutrients to

the Potomac River Basin from Various Sources ;US EPA ;1970(Jan), Technical Rep. No. 31,36p. ;English

Citation 219

Jaworski, Norbert A. ;Chesapeake Technical Support Laboratory, Middle Atlantic Region, Federal Water Pollution Control Administration, US Department of the Interior ;Nutrients in the Upper Potomac River Basin ;Ches Tech Sup Lab ;1969(Aug), Technical Rep. No. 15,91p. ;English

Citation 220

Jaworski, Norbert A. ;Chesapeake Technical Support Laboratory, Middle Atlantic Region, Annapolis, MD ;Water Quality and Wastewater Loadings Upper Potomac Estuary During 1969 ;US EPA ;1969(Nov), Tech. Report No. 27 , 104p. ;English

Citation 221

Jaworski, Norbert A. , Donald W. Lear , Johan A. Aalto ;Chesapeake Technical Support Laboratory, Middle Atlantic Region, Annapolis, MD ;A Technical Assessment of Current Water Quality Conditions and Factors Affecting Water Quality in the Upper Potomac Estuary ;US EPA ;1969(Mar), CTSL Tech. Report No. 5 , 55p. ;English

Citation 222

Jaworski, Norbert A. , Leo J. Clark, Kenneth D. Feigner ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Upper Potomac Estuary Eutrophication Control Requirements ;US EPA ;1972 (Apr), Rep. No. TR-53,46p. ;English

Citation 223

Jaworski, Norbert A. , Orterio Villa, Jr. , Leo J. Hetling ;Federal Water Pollution Control Administration, Chesapeake Technical Support Lab, Annapolis, MD ;Nutrients in the Potomac River Basin ;US EPA ;1969(May), Technical Rep. No. 9,40p. ;English

Citation 224

Jeffries, H. P. ;Rhode Island Univ. , Kingston, Narragansett Marine Lab ;The Atypical Phosphate Cycle of Estuaries in Relation to Benthic Metabolism ;Narragansette Marine Laboratory ;1962(Aug), Contribution No. 44,58-68. ;English

Citation 225

Jeffries, H. P. ;Rhode Island Univ. , Kingston, Graduate School of Oceanography ;Chemical Responses by Marine Organisms to Stress, Stress

in Hard Clams from a Polluted Estuary ;US Environmental Protection Agency ;1971(Dec), EPA-R3-72-017,27p. ;English

Citation 226

Jeffries, Harry P. ;Narragansett Marine Laboratory, University of Rhode Island, Kingston, RI ;Environmental Characteristics of Raritan Bay, A Polluted Estuary ;Limnol Oceanogr ;1962,7(1),21-31. ;English

Citation 227

Jeffries, Harry P. ;Graduate School of Oceanography, University of Rhode Island, Kingston, RI ;Comparative Studies on Estuarine Zooplankton ;Limnol Oceanogr ;1964,9(3),348-358. ;English

Citation 228

Jenkins, David ;California Univ. , Berkeley, Sanitary Engineering Research Lab. ;The Differentiation, Analysis, and Preservation of Nitrogen and Phosphorus Forms in Natural Waters ;Trace Inorganics in Water, Adv in Chem Ser, Amer Chem Soc ;1968, No. 73,265-280. ;English

Citation 229

Jensen, Arne, Janet R. Stein ;Univ. of Trondheim, Norway ;IXth International Seaweed Symposium ;Science Press, International Publishers in Science and Medicine, 8 Brookstone Drive, Princeton, N J 08540 ;1979,655p. ;English

Citation 230

Jensen, Loren D. ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Geography and Environmental Engineering ;Biological Processes which Interact with and Influence the Distribution of Wastes Introduced into the Marine Environment ;Background Papers on Coastal Wastes Management, prepared for National Academy of Sciences Committee on Oceanography and the National Academy of Engineering Committee on Ocean Engineering, Wash, DC ;1969, Vol. 1, XIV1-XIV9. ;English

Citation 231

Johnson, R. W. ;North Carolina State Univ. , Raleigh, Dept. of Marine Sciences ;Inflow on Secondary Productivity in an Ecosystem ;North Carolina State Univ. ;1974, PhD Dissertation, 123p. ;English

Citation 232

Jones, D. J. ;Durham Univ. (England), Dept. of Botany ;Ecological Studies on Macroinvertebrate Populations Associated with Polluted Kelp

Forests in the North Sea ;Helgol wiss Meeresunter ;1971,22,417-441. ;English

Citation 233

Jorgensen, B. B. ;Aarhus Univ. (Denmark). Inst. of Ecology and Genetics ;The Sulfur Cycle of a Coastal Marine Sediment (Limfjorden, Denmark) ;Limnol Oceanogr ;1977(Sept),22(5),814-832. ;English

Citation 234

Jupp, B. P. ;Durham Univ. (England), Dept. of Botany ;The Effects of Organic Pollution on Benthic Organisms near Marseille ;Int J Environ Stud ;1977,10,119-123. ;English

Citation 235

Kahn, Lloyd, Francis T. Brezenski ;Federal Water Pollution Control Administration, Metuchen, NJ, Hudson-Champlain and Metropolitan Coastal Comprehensive Water Pollution Control Project ;Determination of Nitrate in Estuarine Waters--Comparison of a Hydrazine Reduction and a Brucine Procedure and Modification of a Brucine Procedure ;Environ Sci Technol ;1967(June),1(7),488-491. ;English

Citation 236

Kallguist, T. ; ;Algal Growth Potential of Six Norwegian Waters Receiving Primary, Secondary and Tertiary Sewage Effluents ;Verh Int Verein Limnol ;1975,19,2070-2081. ;English

Citation 237

Kalmaz, E. V. ;Dept. of Engineering Science and Mechanics, Univ. of Tennessee, Knoxville, TN 37916 ;Mathematical Model and Computer Simulation of the Population Dynamics of Zooplankton in Lake and Estuary Ecosystems ;Ecol Model ;1978,5(3),225-235. ;English

Citation 238

Kang, J. W. ;Pusan Fisheries Coll. (Republic of Korea) ;Diseases of the Cultivated Porphyra at Culture Beds with Special Reference to the Effects of Fertilizer Plant Effluents ;Bull Kor Fish Soc ;1972,5(2),39-44. ;Korean

Citation 239

Karlgren, Lars , Krister Ljungsto ;Natl Env Protection Board, Sweden

;Nutrient Budgets for the Inner Archipelago of Stockholm ;J Water Pollut Control Fed ;1975 (Apr),47 (4),823-833. ;English

Citation 240

Keegan, Robert T. , J. Venn Leeds, Jr. ;Rice Univ. , Lab. of Environmental Science and Engineering, Houston, TX ;Dynamic Programming and Estuarine Water Quality Control ;Water Resour Bull ;1970(Apr),6(2),235-248. ;English

Citation 241

Ketchum, Bostwick H. ;Woods Hole Oceanographic Institute, MA ;Eutrophication of Estuaries ;WHOI or IN: Eutrophication: Causes, Consequences, Correctives. International Symposium on Eutrophication. Proceedings. (Held in Madison, Wisc. , June 11 - 15,1967.) Sherry, Sol et al. (edited by). National Research Council. Publ No. 1706 Thrombosis. X + 762p. Illus. National Academy of Sciences: Wash. D. C. ;1969, WHOI Contribution No. 1960,197-209. ;English

Citation 242

Khalid, R. A. , W. H. Patrick, R. P. Gambrell ;Louisiana State Univ. ;Effect of Dissolved Oxygen on Chemical Transformations of Heavy Metals, Phosphorus, and Nitrogen in an Estuarine Sediment ;Estuarine Coast Mar Sci ;1978(Jan),6(1),21-36. ;English

Citation 243

Kimball, M. C. ;Miami Univ. , Coral Gables, FL ;Effect of Thermal Effluent on Nitrogen Fixation in the Sediments of Guayanilla Bay, Puerto Rico ;Miami Univ. ;1977(June),112p. ;English

Citation 244

Kinsman, B. , J. R. Schubel, M. J. Bowman, H. H. Carter, A. Okubo, D. W. Pritchard, R. E. Wilson ;Marine Sciences Research Center, State University of New York, Stony Brook, NY 11794 ;Transport Processes in Estuaries: Recommendations for Research ;Mar Sci Res Cent, State Univ. of New York ;1977(Apr), Special Rep. 6,21p. ;English

Citation 245

Kiortsis, V. , M. Moraitou-Apostolopulou ;Athens Univ. (Greece), Zoological Lab, and Museum ;Marine Cladocera (Crustacea) in the

Eutrophicated and Polluted Saronic Gulf ;Isr J Zool ;1975,24(1-2),71-74. ;English

Citation 246

Kiryukhina, L. N. , M. I. Kucherenko, O. G. Mironov ;Institute of Biology of the Southern Seas, Sevastopol (USSR) ;Marine Soil Pollution and Self-Purification ;Gidrobiol Zh ;1974,10(2),55-59. ;Russian

Citation 247

Kistritz, Ron U. ;Weatwater Research Centre, The University of British Columbia , 2075 Westbrook Mall, Vancouver, B. C. , Canada, V6T 1W5 ;Recycling of Nutrients in an Enclosed Aquatic Community of Decomposing Macrophytes (Myriophyllum spicatum) ;OIKOS ;1978,30,561-569. ;English

Citation 248

Klavestad, N. ;Ringgt. 56, N-1700 Sarpsborg, Norway ;The Marine Algae of the Polluted Inner Part of the Oslofjord ;Bot Mar ;1978,21,71-97. ;English

Citation 249

Kleiber, P. , W. E. Erlebach ;Inland Waters Directorate, Pacific and Yukon Region, Water Quality Branch, Vancouver, British Columbia ;Limitations of Single Water Samples in Representing Mean Water Quality. III. Effect of Variability in Concentration Measurements on Estimates of Nutrient Loadings in the Squamish River, B. C. ;Inland Waters Directorate ;1977, Technical Bull. No. 103,9 p. ;English

Citation 250

Knapp, George L. ;Office of Water Resources Research, Washington, DC, Water Resources Scientific Information Center ;Aeration of Natural Waters: A Bibliography ;WRSIC ;1973 (Jul), WRSIC-73-206,363p. ;English

Citation 251

Knudson, K. , C. E. Belaire ;Texas Parks and Wildlife Dept. , Seabrook Marine Laboratory, P. O. Box 8, Seabrook 77586 ;Causes and Probable Correctives for Oxygen Depletion Fish Kills in the Dickinson Bayou

Estuary: a Field Study and Simplified Algal Assay . ;Contrib Mar Sci (Port Aransas) ;1975(Aug),19,37-48. ;English

Citation 252

Koike, I, A. Hattori ;Univ. of Tokyo, Ocean Research Inst. , Nakano, Tokyo, 164 Japan ;Simultaneous Determinations of Nitrification and Nitrate Reduction in Coastal Sediments by a 15N Dilution Technique ;Appl Environ Microbiol ;1978(May),35(5),853-857. ;English

Citation 253

Kramer, G. R. ;New Mexico Univ. , Albuquerque, NM Eric H. Wang Civil Engineering Research Facility ;Predicting Reaeration Coefficients for Polluted Estuary ;J Environ Eng Div Am Soc Civ Eng ;1974(Feb),100(EE1),77-92. ;English

Citation 254

Kraus, Marjorie ;Delaware Univ. , Newark. Coll. of Marine Studies ;Host Range Study of Blue-Green Algal Viruses ;Delaware Univ. ;1974(Apr), Rep. No. DEL-SG-1-74,33p. ;English

Citation 255

Krutchkoff, Richard G. , William R. Schofield ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, VA ;Stochastic Model of Dynamic Eutrophic Estuary ;J Environ Eng Div Am Soc Civ Eng ;1974(June),100(E3),613-628. ;English

Citation 256

Kuenzler, E. J. , A. F. Chestnut ;Institute of Marine Sciences, University of North Carolina, Chapel Hill and Morehead City, NC ;Structure and Functioning of Estuarine Ecosystems Exposed to Treated Sewage Wastes ;Univ. of North Carolina ;1971(Feb), Annual Rep. 1970-1971. ;English

Citation 257

Lacombe, D. , W. Moneiro ;Instituto Oswaldo Cruz, Rio de Janeiro (Brazil) ;Balanidae as Pollution Indicators in the Bay of Guanabara ;Rev Bras Biol ;1974,34(4),633-644. ;Portuguese

Citation 258

Lai, C. ;Geological Survey, Reston, VA Water Resources Div. ;Computer Simulation of Two-Dimensional Unsteady Flows in Estuaries and Embayments by the Method of Characteristics--Basic Theory and the

Formulation of the Numerical Method ;Geological Survey, Water Res. Div. ;1977(Aug), Water-Resources Invest. 77-85,72p. ;English

Citation 259

Lake, Carol A. , William G. MacIntyre ;Virginia Polytechnic Inst. and State Univ. , Blacksburg. Virginia Inst. of Marine Science, Gloucester Pt. , VA, Prepared by VIMS ;Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments ;VPI-VWRRC-Bull ;1977(June),109,64p. ;English

Citation 260

Lee, Wen Yuh ;Univ. of Texas, Marine Science Inst. , Port Aransas Marine Laboratory, Port Aransas, TX 78373 ;Some Laboratory Cultured Crustaceans for Marine Pollution Studies ;Mar Pollut Bull ;1977,8(11),258-259. ;English

Citation 261

Leeds, J. V. ;Rice Univ. , Houston, TX ;Accuracy of Discrete Models Used to Predict Estuary Pollution ;Water Resour Res ;1967,3(2),481-490. ;English

Citation 262

Leendertse, J. J. , A. B. Nelson ;Rand Corp. , Santa Monica, CA ;A Water Quality Simulation Model for Well Mixed Estuaries and Coastal Seas: Volume IX, the Computer Program ;Rand Corp. ;1978(Apr), Rep. No. R-2298-RC , 90p. ;English

Citation 263

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling. A Bibliography with Abstracts ;NTIS ;1974 (May), NTIS-WIN-74-036,163p. ;English

Citation 264

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling- -Hydrological and Limnological Systems (A Bibliography with Abstracts) ;NTIS ;1975 (May),218p. ;English

Citation 265

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling. Hydrological and Limnological Systems.

Volume 2.1975-June 1976 (A Bibliography with Abstracts) ;NTIS ;1976(June), NTIS/PS-76/0444/0ST, 103p. ;English

Citation 266

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling. Hydrological and Limnological Systems. Volume 1.1964-1974 (A Bibliography with Abstracts) ;NTIS ;1976(June), NTIS/PS-76/0443/2ST, 197p. ;English

Citation 267

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling -Hydrological and Limnological Systems. Volume 2.1975-June 1977. (A Bibliography with Abstracts) ;NTIS ;1977(June), NTIS/PS-77/0528/8ST, 190p. ;English

Citation 268

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling- -Hydrological and Limnological Systems. Volume 3. July, 1977 -June, 1978 (A Bibliography with Abstracts) ;NTIS ;1978(June), NTIS/PS-78/0650/8ST, 92p. ;English

Citation 269

Leppaekoski, E. ;Aabo Akademi, Inst. of Biology, SF-20500 AABO 50, Finland ;Monitoring the Benthic Environment of Organically Polluted River Mouths ;IN: Biological Monitoring of Inland Fisheries. Edited By J. S. Alabaster. London: Applied Science Publishers ;1977,125-132. ;English

Citation 270

Leung Tack Kit, D. ;Centre d'Oceanographie, Marseille (France), Station Marine d'Endoume ;Study of a Polluted Environment (The Old Port Area of Marseilles): The Influence of Physical and Chemical Conditions on the Characteristics of the Population of the Quay ;Tethys ;1971(1972),3(4),767-825. ;French

Citation 271

Levin, Gilbert V. ;Director, Life Systems Division, Hazleton Lab, Inc. , Falls Church, VA ;The New Pollution ;J Civ Eng Div Am Soc Civ Eng ;1967(May),37(5),68-71. ;English

Citation 272

Levy, E. M. , C. C. Cunningham, C. D. W. Conrad, J. D. Moffatt ;Bedford Inst. of Oceanography, Dartmouth (Nova Scotia), Atlantic

Oceanographic Lab ;A Titration Apparatus for the Determination of Dissolved Oxygen in Seawater ;J Fish Res Board Can ;1977,34(11),2218-2220. ;English

Citation 273

Liberti, Lorenzo , Gianfranco Boari ;Istituto Ricerca Sulle Acque, C. N. R. , 5 via De Blasio, 70123 Bari, Italy ;Phosphates and Ammonia Recovery from Secondary Effluents by Selective Ion Exchange with Production of a Slow-Release Fertilizer ;Water Res ;1979,13(1),65-71. ;English

Citation 274

Lima, Hilda de Souza, P. J. leB. Williams ;Department of Oceanography, The University, Southampton, U. K. ;Oxygen Consumption by the Planktonic Population of an Estuary-- Southampton Water ;Estuarine Coastal Mar Sci ;1978,6,515-521. ;English

Citation 275

Litchfield, Carol D. ;Rutgers - the State Univ. , New Brunswick, NJ. Center for Coastal and Environmental Studies ;Microbial Contributions to Nutrient Cycling in the New York Bight, 1 February 1976-1 January 1977 ;Rutgers State Univ. , New Brunswick, NJ, Center for Coastal and Environmental Studies ;1978(Aug), NTIS PB-287 661/3WP, 116p. ;English

Citation 276

Littler, M. M. , S. N. Murray ;California Univ. , Irvine, CA, Dept. of Ecology and Evolutionary Biology ;Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island ;California Water Resources Center ;1977(June), Contribution No. 164,88p. ;English

Citation 277

Littler, Mark M. , Steven N. Murray ;Dept. of Ecology and Evolutionary Biology, Univ. of California, Irvine, CA ;Influence of Domestic Wastes on Energetic Pathways in Rocky Intertidal Communities ;J Appl Ecol ;1978,15,583-595. ;English

Citation 278

Livingston, R. J. ;Florida State Univ. , Tallahassee, FL, Dept. of Biological Science ;Impact of Kraft Pulp-Mill Effluents on Estuarine

and Coastal Fishes in Apalachee Bay, Florida, USA ;Mar Biol ;1975,32,19-48. ;English

Citation 279

LoCicero, Vincent R. ;Massachusetts Science and Technology Foundation, 10 Lakeside Office Park, Wakefield, MA 01880 ;Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. Boston, MA, 4-6(Nov)1974 ;Massachusetts Science and Technology Foundation ;1975(Apr),529p. ;ENglish

Citation 280

Long, R. R. ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Earth and Planetary Sciences ;Three-Layer Circulations in Estuaries and Harbors ;J Phys Oceanogr ;1977(May),7(3),415-421. ;English

Citation 281

Louisiana State Univ. ;Baton Rouge, Center for Wetland Resources ;Proceedings of the International Symposium on Marine Pollution Research ;US Environmental Protection Agency ;1976(Jan), EPA-600/9-76-032,171p. ;English

Citation 282

Lund, J. W. G. ;The Freshwater Biological Association, The Ferry House, Far Sawrey, Ambleside, Westmorland ;Eutrophication ;Proc R Soc Lond B Biol Sci ;1972,180,371-382. ;English

Citation 283

Macdonald, G. J. , R. N. Weisman ;Canterbury Univ. , Christchurch (New Zealand), Dept. of Civil Engineering ;Oxygen-Sag in a Tidal River ;J Environ Eng Div Am Soc Civ Eng ;1977(June),103(EE3),473-488. ;English

Citation 284

Mackay, D. W. , J. I. Waddington ;Clyde River Purification Board, Glasgow (Scotland) ;Quality Predictions in a Polluted Estuary ;In: Fifth International Water Pollution Research Conference, San Francisco, July 26-Aug 2,1970 ;1970, Paper III-7,6p. ;English

Citation 285

Maggi, P. ;Institut Scientifique et Technique des Peches Maritimes, Nantes (France), Service de Pollution ;The Growth of Posidonia and the Urban

Pollution in the Gulf of Giens ;Ann Inst Michel Pacha ;1972,5(1),1-11. ;French

Citation 286

Mahoney, John B. , John J. A. McLaughlin ;National Marine Fisheries Service, Northeast Fisheries Center, Sandy Hook Laboratory, Highlands, NJ ;The Association of Phytoflagellate Blooms in Lower New York Bay with Hypertrophication ;J exp mar Biol Ecol ;1977,28,53-65. ;English

Citation 287

Mahoney, John B. , John J. A. McLaughlin ;National Marine Fisheries Service, Northeast Fisheries Center, Sandy Hook Lab. , Highlands, NJ ;Salinity Influence on the Ecology of Phytoflagellate Blooms in Lower New York Bay and Adjacent Waters ;J exp mar Biol Ecol ;1979,37,213-223. ;English

Citation 288

Malone, Thomas C. ;Inst. Mar. Atmos. Sci. , City Univ. New York, N Y ;Environmental Regulation of Phytoplankton Productivity in the Lower Hudson Estuary ;Estuarine Coastal Mar Sci ;1977 , 5(2),157-71. ;English

Citation 289

Marks, James W. , Orterio Villa, Jr. ;US Environmental Protection Agency, Annapolis, MD, Water Quality Office ;Nutrient Data on Sediment Samples of the Potomac Estuary, 1966- 1968 ;Chesapeake Technical Support Lab ;1970, Data Rep. 11,20p. ;English

Citation 290

Martin-Bouyer, G. , H. Veiga-Pires, G. Salama, J. P. Bechac, F. Roger ; ;Evaluation of Surface Water Pollution at Several Points in Relation to Zones of Shellfish Industry in Roadsteads of the Brest Region ;Rev Int Oceanogr Med ;1973,31/32,91-121. ;French

Citation 291

Massmann, William H. ; ;The Fishes-A Neglected Aspect of Estuarine Research ;Trans N Am Wildl Nat Resour Conf ;1964(Mar),29,337-352. ;English

Citation 292

Mathis, Jane H. ;Florida State Univ. , Tallahassee, FL, Marine Lab. ;Mangrove Decomposition. A Pathway for Heavy Metal Enrichment in

Everglades Estuaries. Appendix III ;Florida State Univ. , Tallahassee, Marine Lab. ;1973 (Mar),68p. ;English

Citation 293

Matisoff, G. , O. P. Bricker, G. R. Holdren, P. Kaerk ;Johns Hopkins Univ. , Baltimore, MD ;Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments ;Johns Hopkins Univ. ;undated, Rep. CONF-750410-7,16p. ;English

Citation 294

Matthews, P. J. ;Anglian Water Authority, Huntingdon (England) Directorate of Scientific Services ;Application of Physico-Chemical Treatment as a Method of Achieving Partial Standards on Sewage Effluents Discharged in Estuarial and Coastal Situations ;Public Health Eng ;1977(Mar),5(2),31-37. ;English

Citation 295

Mayzaud, P. , S. Taguchi ;Biochimie Marine, Station Zoologique, Villegranche-sur-Mer, 06230, France ;Spectral and Biochemical Characteristics of the Particulate Matter in Bedford Basin ;J Fish Res Board Can ;1979,36,211-218. ;English

Citation 296

McCarthy, J. J. , W. Rowland Taylor, M. E. Loftus ;Chesapeake Bay Institute, The Johns Hopkins University; Baltimore, MD ;Significance of Nanoplankton in the Chesapeake Bay Estuary and Problems Associated with the Measurement of Nanoplankton Productivity ;Mar Biol ;1974,24,7-16. ;English

Citation 297

McCarthy, James J. , W. R. Taylor, J. L. Taft ;Department of Biology, Harvard University, Cambridge, MA 02138 ;The Dynamics of Nitrogen and Phosphorus Cycling in the Open Waters of the Chesapeake Bay ;Marine Chemistry in the Coastal Environment. American Chemical Society. Edited by Thomas A. Church ;1975,40,644-681. ;English

Citation 298

McCarthy, James J. , W. Rowland Taylor, Jay L. Taft ;Department of Biology, Harvard University, Cambridge, MA 02138 ;Nitrogenous Nutrition of the Plankton in the Chesapeake Bay. 1. Nutrient

Availability and Phytoplankton Preferences ;Limnol Oceanogr ;1977(Nov),22(6),996-1011. ;English

Citation 299

McCarty, Perry L. ;Civil Engineering Department, Stanford University, Palo Alto, CA ;Energetics of Organic Matter Degradation ;In: Water Pollution Microbiology. Edited by Ralph Mitchell. Wiley-Interscience ;1972, Chapt. 5,91-117. ;English

Citation 300

McCormick, J. Michael, Patricia T. Quinn ;Biology Department, Montclair State College, Upper Montclair, NJ 07043 ;Phytoplankton Diversity and Chlorophyll-a in a Polluted Estuary ;Mar Pollut Bull ;1975(July),6(7),105-106. ;English

Citation 301

McKewen, T. D. ;Maryland Environmental Service, Annapolis, MD ;Human Wastes and the Chesapeake Bay ;J Wash Acad Sci ;1972,62(2),157-160. ;English

Citation 302

McLeay, D. J. , C. C. Walden, J. R. Munro ;Division of Applied Biology, B. C. Research, Vancouver, V6S 2L2, Canada ;Effect of pH on Toxicity of Kraft Pulp and Paper Mill Effluent to Salmonid Fish in Fresh and Seawater ;Water Res ;1979,13,249-254. ;English

Citation 303

Mihnea, P. E. ;Consiliul Natl. Pentru Stiinta si Tehnologie, Sectorul 1, Bucarest, Roumania ;Domestic Wastewater Effects on Marine Phytoplanktonic Algae ;Rev Int Oceanogr Med ;1978,49(3),89-98. ;French

Citation 304

Mihursky, J. A. , D. A. Flemer, D. H. Hamilton, Jr. , C. W. Keefe ;Maryland Univ. , Solomons, MD, Natural Resources Inst. ;The Effects of Thermal Loading and Water Quality on Estuarine Primary Production ;NRI Maryland ;1971(Oct), Completion Rep. OWRR-B-010 MD(1),55p. ;English

Citation 305

Miller, B. S. , B. B. McCain, R. C. Wingert, S. F. Borton, K. V. Pierce ;Washington Univ. , Seattle, Fisheries Research Inst. ;Ecological and Disease Studies of Demersal Fishes in Puget Sound near Metro-Operated Sewage Treatment Plants and in the Duwamish River ;Puget

Sound Interim Studies, Municipality of Metropolitan Seattle ;1977, Final Rep. No. CR2231,164p. ;English

Citation 306

Minas, H-J. , P. David, B. Coste, M-C. Bonin, M. Minas ;Centre Universitaire de Luminy, Station Marine D'Endoume, Laboratoire D'Oceanographie, F13288 Marseille Cedex 2, FR ;Caractere Particulier du Mecanisme de L'Eutrophisation dans L'Etang de Berre ;Institut Oceanographique, Paris. Annales ;1976,52(2),153-164. ;French

Citation 307

Minas, M. ;Centre Univ. de Luminy, Marseille (France) ;Dissolved Oxygen and Saturation in an Environment of High Organic Production (Etang de Berre): Role of Halocline on Distribution of These and on the Oxygen-Phosphate Ratio ;Hydrobiol ;1976,51(2),149-162. ;French

Citation 308

Mook, W. G. , B. K. S. Koene ;Groningen Rijksuniversiteit (Netherlands), Environmental Isotopes Lab ;Chemistry of Dissolved Inorganic Carbon in Estuarine and Coastal Brackish Waters ;Estuarine Coast Mar Sci ;1975,3(3),325-336. ;English

Citation 309

Moore, D. M. ;Marine Sciences Centre, McGill University, Montreal, Canada ;Seasonal Changes in Distribution of Intertidal Macrofauna in the Lower Mersey Estuary, U. K. ;Estuarine Coastal Mar Sci ;1978,7,117-125. ;English

Citation 310

Moraitou-Apostolopoulou, M. , V. Kiortsis ;Athens Univ. (Greece), Zoological Lab and Museum ;Comparative Study of Cladocera from the 1st Meter of Sea Water, Collected in a Polluted Zone and in Another Relatively Clean Zone ;Rev Int Oceanogr Med ;1976,43,37-46. ;French

Citation 311

Morris, A. W. , R. F. C. Mantoura, A. J. Bale, R. J. M. Howland ;Institute for Marine Environmental Research, Prospect Place, The Hoe, Plymouth, UK ;Very Low Salinity Regions of Estuaries: Important

Sites for Chemical and Biological Reactions ;Nature ;1978(Aug),274,678-680. ;English

Citation 312

Morton, S. D. , R. Sernau, P. H. Derse ;WARF Institue, Inc. , Madison, WI 53701 ;The Carbon Dioxide System and Eutrophication ;US Environmental Protection Agency ;1971, EPA Grant 16010 DXV, 72p. ;English

Citation 313

Moshiri, G. A. , W. G. Crumpton, D. P. Brown, P. R. Barrington, N. G. Aumen ;University of West Florida, Pensacola Dept. of Biology ;Interrelationships between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II ;WRRC Florida (Gainsville) ;1976(July), Publication No. 37,45p. ;English

Citation 314

Moshiri, G. A. , W. G. Crumpton, N. G. Aumen, C. T. Gaetz, J. E. Allen ;Water Resources Research Center, Univ. Florida, Gainsville ;Water-Column and Benthic Invertebrate and Plant Associations as Affected by the Physicochemical Aspects in a Mesotrophic Bayou Estuary, Pensacola, Florida ;WRRC Florida (Gainsville) ;1978, WRRC-PUB-41,166p. ;English

Citation 315

Moshiri, G. A. , W. G. Crumpton ;Univ. of West Florida, Dept. of Biology, Pensacola, FL 32504 ;Certain Mechanisms Affecting Water Column-to-Sediment Phosphate Exchange in a Bayou Estuary ;J Water Pollut Control Fed ;1978,50(2),392-394. ;English

Citation 316

Moshiri, Gerald A. , et al. ;Florida Water Resources Research Center, University of Florida ;Determination of a Nitrogen-Phosphorus Budget for Bayou Texar, Pensacola, Florida ;WRRC Florida ;1972(Feb), Publication No. 17,27p. ;English

Citation 317

Moshiri, Gerald A. , William G. Crumpton , Dewey A. Blaylock ;University of West Florida, Pensacola, FL ;Algal Metabolites and Fish Kills in a Bayou Estuary: an Alternative Explanation to the Low

Dissolved Oxygen Controversy. (Communication) ;J Water Pollut Control Fed ;1978,50,2043-2046. ;English

Citation 318

Munday, J. C. , Jr. , R. J. Byrne, C. S. Welch, H. H. Gordon, J. D. Boon, III ;Virginia Inst. of Marine Science, Gloucester Point, VA ;Applications of Remote Sensing to Estuarine Problems ;VIMS ;1975(Dec), Annual Rep. No. 3,168p. ;English

Citation 319

Murphy, R. S. , R. F. Carlson , D. Nyquist, R. Britch ;Alaska University, College Institute of Water Resources, AK ;Effect of Waste Discharges into a Selt-Laden Estuary, a Case Study of Cook Inlet, AK ;IWR Alaska ;1972(Nov), Completion Rep. IWR-26,26p. ;English

Citation 320

Murphy, R. Sage, Ann P. Miller ;Alaska Univ. , College Dept. of Environmental Health Engineering; and Alaska Univ. , College, Inst. of Water Resources ;Waste-Induced Oxygen Uptake of an Alaskan Estuary ;J San Eng Div Am Soc Civ Eng ;1968,94(SA 2),345-354. ;English

Citation 321

Najarian, T. O. , D. R. F. Harleman ;Resource Analysis, Inc. , Cambridge, MA ;Real Time Simulation of Nitrogen Cycle in an Estuary ;J Environ Eng Div Am Soc Civ Eng ;1977(Aug),103(EEH),523-538. ;English

Citation 322

Nakayama, Ooki, Masao Ohno, Takaji Yasui ;Dept. of Environmental Engineering, Yamanashi University, Kofu, 400 Japan ;Effect of Enrichment with Digested Night Soil on the Growth of Marine Plankton ;Bull Jpn Soc Sci Fish ;1978,44(10),1099-1103. ;Japan

Citation 323

Naqui, S. W. A. , S. N. De Souza, C. V. G. Reddy ; ;Relationship between Nutrients and Dissolved Oxygen with Special Reference to Water Masses in Western Bay of Bengal ;Indian J Mar Sci ;1978(Mar),7(1),15-17. ;English

Citation 324

Narkis, N. , M. Rebhun , Ch. Sheindorf ;Environmental Engineering Laboratories, Technion, Israel Institute of Technology, Haifa,

Israel ;Denitrification at Various Carbon to Nitrogen Ratios ;Water Res ;1979,13(1),93-98. ;English

Citation 325

National Academy of Sciences ;Washington, D. C. ;Beneficial Modifications of the Marine Environment; Proceedings ;National Academy of Sciences ;1972 (July),123p. ;English

Citation 326

Nedwell, D. B. ;Univ. of Essex, Dept. of Biology, Wivenhoe Park, ; Colchester CO4 3SQ, Eng. ;Inorganic Nitrogen Metabolism in a Eutrophicated Tropical Mangrove Estuary ;Water Res ;1975(Feb),9(2),221-231. ;English

Citation 327

Neilson, Bruce J. ;Virginia Institute of Marine Science, Gloucester Point, VA 23062 ;Final Report on Water Quality in the Hampton Roads 208 Study Area ;Appl Mar Sci Ocean Eng ;1978(Mar), Special Rep. No. 171,51p. ;English

Citation 328

Nelson, B. W. ;South Carolina Univ. , Columbia, SC, Coll. of Arts and Sciences ;Biogeochemical Variables in Bottom Sediments of the Rappahannock River Estuary ;In: Environmental Framework of Coastal Plain Estuaries; 18th Annual Meeting of Southeastern Section of the Geological Society of America, 10-11(Apr)1969, Columbia, SC ;1972, Memoir 133,417-451. ;English

Citation 329

Neville, R. A. , J. F. Gower ;Dept. of the Environment, Victoria (British Columbia), Inst. of Ocean Sciences ;Passive Remote Sensing of Phytoplankton via Chlorophyll Alpha Florescence ;J Geophys Res ;1977(Aug),82(24),3487-3493. ;English

Citation 330

Newbury, T. K. , Edwin F. Bartholomew ;Univ. of Hawaii, Dept. of Oceanography, Honolulu, HA 96822 ;Secondary Production of Microcopepods in the Southern, Eutrophic Basin of Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),373-384. ;English

Citation 331

Nichols, J. A. ;Southeastern Massachusetts Univ. , North Dartmouth, Dept. of Biology ;Benthic Community Structure Near the Woods Hole

Sewage Outfall ;Int Rev Gesamten Hydrobiol ;1977,62(2),235-244. ;English

Citation 332

Nickels, Janet S. , John D. King, David C. White ;Department of Biological Science, Florida State University, Tallahassee, FL 32306 ;Poly-B-Hydroxybutyrate Accumulation as a Measure of Unbalanced Growth of the Estuarine Detrital Microbiota ;Appl Environ Microbiol ;1979(Mar),37(3),459-465. ;English

Citation 333

Niell, F. X. ;Laboratorio de Investigaciones Pesqueras, Muelle de Bouzas ;C/N Ratio in Some Marine Macrophytes and its Possible Ecological Significance ;Bot Mar ;1976,19(6),347-350. ;English

Citation 334

Niell, F. X. , Y. J. Buela ;Instituto de Investigaciones Pesqueras, Vigo (Spain), Laboratorio de Investigaciones Pesqueras ;N. W. Spain, 'Stress' on the Fucaceae Standing Crop ;Invest Pesq ;1976,40(1),137-149. ;Spanish

Citation 335

Niemi, Ake ; ;Proceedings of the Third Baltic Symposium on Marine Biology. Helsinki/ Helsingfors, 11-17(June)1973 ;Helsinki, Government Printing Centre ;1975,355p. ;English

Citation 336

Nienhius, P. H. , B. H. H. De Bree ;Delta Institute for Hydrobiological Research, Yerseke, Netherlands ;Production and Ecology of Eelgrass (Zostera marina L.) in the Grevelingen Estuary, the Netherlands, Before and After the Closure ;Hydrobiologia ;1977,52(1),55-66. ;English

Citation 337

Nihoul, J. C. J. ; ;Hydrodynamics of Estuaries and Fjords ;Elsevier; Amsterdam, Netherlands. Proceedings of 9th International Liege Colloquium on Ocean Hydrodynamics ;1978, Elsevier Oceanogr. Ser. No. 23,546p. ;English

Citation 338

Nishimura, H. ;Tokyo Univ. (Japan), Dept. of Chemical Engineering

;Nitrogen Cycles in a Polluted Sea Area ;Chem Eng ;1976(Dec),315,760-764. ;English

Citation 339

North Carolina Univ. ;Chapel Hill, Inst. of Marine Sciences ;Structure and Functioning of Estuarine Ecosystems Exposed to Treated Sewage Wastes ;North Carolina Univ. ;1971(Feb), Annual Rep. 1970-1971,345p. ;English

Citation 340

N Y Ocean Science Lab ;N Y ;The Problems of Long Island Waters ;N Y Ocean Science Lab, Workshop 9-11(Feb)1971 ;1971(Feb), Technical Rep. 0010. ;English

Citation 341

O'Connor, Donald J. , Dominic M. Di Toro, Robert V. Thomann ;Manhattan College, Bronx, NY ;Phytoplankton Models and Eutrophication Problems ;NOAA/Resources for the Future Symp. on Ecological Modeling, Wash, DC, 10-12(sept)1974 ;1974, Technical Rep. , 149-160. ;English

Citation 342

O'Connor, Donald J. , Robert V. Thomann, Dominic DiToro ;Manhattan Coll. , Bronx, N Y, Dep. of Civil Engineering ;Dynamic Water Quality Forecasting and Management ;US Environmental Protection Agency ;1973 (Aug), Ecol Res Series EPA-6603-73-009,209p. ;English

Citation 343

Odum, H. T. , A. F. Chesnut ;Inst. of Marine Sciences, Univ. of North Carolina, Chapel Hill and Morehead City, NC ;Studies of Marine Estuarine Ecosystems Developing with Treated Sewage Wastes ;Inst. Marine Science, UNC ;1970(May), Annual Rep. 1969-1970,366p. ;English

Citation 344

Office of Water Research and Technology, Water Resources Scientific Information Center ;Washington, DC ;Estuarine Pollution, A Bibliography ;WRSIC ;1973 (Apr), WRSIC-73-205,510p. ;English

Citation 345

Office of Water Research and Technology, Water Resources Scientific Information Center ;Washington, DC ;Estuarine Pollution, a

Bibliography, Vol. 2 ;WRSIC ;1976(Dec), Rep. OWRT/RSIC 76-207,576 p. ;English

Citation 346

Office of Water Research and Technology, Water Resources Scientific Information Center ;Washington, DC ;Estuarine Pollution, a Bibliography, Vol. 3 ;WRSIC ;1976(Dec), Rep. OWRT/WRSIC 76-208,566p. ;English

Citation 347

Officer, C. B. , J. H. Ryther ;Dartmouth College, Hanover, NH 03755 and W. H. O. I. , Woods Hole, MA 02543 ;The Importance of Silicon in Marine Eutrophication ;Science ;Submitted manuscript, 1979. ;English

Citation 348

Officer Charles B. , John H. Ryther ;Dartmouth College and Woods Hole Oceanographic Inst. ;Secondary Sewage Treatment Versus Ocean Outfalls: an Assessment ;Science ;1977(Sept),197(4308),1056. ;English

Citation 349

Ogita, Haruhisa, Yukio Arakawa ;Aichi Environ. Res. Cent. , Nagoya, Japan ;Self-Purification of Rivers and Estuaries. 2. Self - Purification and Environmental Acceptability ;Aichi -Ken Kogai Chosa Senta Shoho ;1976,4,42-49. ;Japan

Citation 350

Ohlhorst, C. W. ;National Aeronautics and Space Administration, Langley Station, VA, Langley Research Center ;Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-a and Suspended Solids in the Patuxent River ;NASA Technical Memorandum ;1976(July), X-3399,49p. ;English

Citation 351

Okada, Mitumasa, Ryuichi Sudo ;Natl. Inst. Environ Stud. , Tsukuba, Japan ;Methodology of Algal Assay Procedure and its Application to Eutrophication Research ;Yosui to Haisui ;1978,20(7),765-779. ;Japan

Citation 352

Olsson, L. , R. Rosenberg, E. Olundh ;Uppsala Univ. (Sweden), Inst.

of Zoology ;Benthic Fauna and Zooplankton in Some Polluted Swedish Estuaries ;AMBIO ;1973,2(5),158-163. ;English

Citation 353

Olufeagba, B. J. , R. H. Flake , N. E. Armstrong ;Department of Electrical Engineering, University of Texas at Austin, Austin, TX ;A Boundary Value Approach for Estuarine Water Quality Modelling with Results for Jamaica Bay, New York ;Ecol Model ;1975,1,3-30. ;English

Citation 354

Orlob, G. T. ;California Univ. , Davis, CA, Dept. of Civil Engineering ;Mathematical Modeling of Estuarine Ecosystems ;In: Proceedings of the International Conference on Transport of Persistent Chemicals in Aquatic Ecosystems, 1-3(May)1974, Ottawa, Canada ;1974(May), IV27-IV43. ;English

Citation 355

Orth, R. J. ;Virginia Inst. of Marine Science, Gloucester Point ;Effect of Nutrient Enrichment on Growth of the Eelgrass Zostera marina in the Chesapeake Bay, VA ;Mar Biol ;1977,44(2),187-194. ;English

Citation 356

Overstreet, R. M. , H. D. Howse ;Gulf Coast Research Lab. , Ocean Springs, MS ;Some Parasites and Diseases of Estuarine Fishes in Polluted Habitats of Mississippi ;Ann NY Acad Sci ;1977(Sept),298,427-462. ;English

Citation 357

Palmer, C. Mervin ; Municipal Environmental Research Lab. , Cincinnati, OH ;Algae and Water Pollution ;US Environmental Protection Agency ;1977(Dec), EPA-68-03-0232. ;English

Citation 358

Pamatmat, Mario M. , R. Stephen Jones, Herbert Sanborn, Ashok Bnagwat ;Dept. of Fisheries, Auburn University, Auburn, AL ;Oxidation of Organic Matter in Sediments ;US Environmental Protection Agency ;1973(Sept), EPA-660/3-73-005. ;English

Citation 359

Pansini, M. , R. Pronzato ;Genoa Univ. (Italy, Inst. of Zoology) ;Preliminary Analysis on the Distribution of Porifera in Areas Exposed

to Different Types of Pollution ;Boll Mus 1st Biol Univ Genova ;1975,43,21-32. ;Italian

Citation 360

Pardo, J. , R. A. Coler ;Univ. of Massachusetts ;A Test of the Effects of Domestic Sewage on the Growth of the Common Blue Mussel, Mytilus edulis, in an Aquacultural System ;Univ. of Massachusetts Water Resources Centre ;1977, Publication No. 87,44p. ;English

Citation 361

Park. C. K. ; ;Eutrophication and Chlorophyll Content in the Sea Water of Jinhae Bay Area Korea ;Bull Korean Fish Soc ;1975 , 8 (3),121-126. ;English

Citation 362

Parsons, T. R. , K. von Btockel , P. Koeller , M. Takahashi , M. R. Reeve , O. Holm-Hansen ;Institute of Oceanography, Universty of British Columbia, B. C. , Canada ;The Distribution of Organic Carbon in a Marine Planktonic Food Web Following Nutrient Enrichment ;J. exp. mar. Biol. Ecol. ;1977,26,235-247. ;English

Citation 363

Parsons, T. R. , R. J. LeBrasseur, J. D. Fulton ;Fisheries Research Board of Canada, Nanaimo (British Columbia), Pacific Oceanographic Group ;Some Observations on the Dependence of Zooplankton Grazing on the Cell Size and Concentration of Phytoplankton Blooms ;J Oceanogr Soc Jpn ;1967(Feb),23(1),10-17. ;English

Citation 364

Parsons, T. R. , W. H. Thomas, D. Siebert, J. R. Beers, P. Gillespie ;California Univ. , San Diego, La Jolla, CA, Inst. of Marine Resources ;The Effect of Nutrient Enrichment on the Plankton Community in Enclosed Water Columns ;Int Rev Gesamten Hydrobiol ;1977,62(5),565-572. ;English

Citation 365

Patten, Bernard ;Department of Marine Science, College of William and Mary and Virginia Fisheries Laboratory, Gloucester Pt. , VA 23062

;Plankton Energetics of Raritan Bay ;Limnol Oceanogr ;1961(Oct),6(4),369-387. ;English

Citation 366

Patten, Bernard C. ;Department of Marine Science, College of William and Mary and Virginia Fisheries Laboratory, Gloucester Point, VA ;Negentropy Flow in Communities of Plankton ;Limnol Oceanogr ;1961,6(1),26-30. ;English

Citation 367

Patten, Bernard C. , George M. Van Dyne ;Oak Ridge National Laboratory, Oak Ridge, TN 37830 ;Factorial Productivity Experiments in a Shallow Estuary: Energetics of Individual Plankton Species in Mixed Populations ;Limnol Oceanogr ;1968(Apr),13(2),309-314. ;English

Citation 368

Payne, J. F. ;Environment Canada, Fisheries and Marine Service, Biological Station, Water Street East, St. John's, Newfoundland ;Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection ;Mar Pollut Bull ;1977,8(5),112-116. ;English

Citation 369

Pearson, Erman A. , George A. Holt ;University of California, Berkeley, CA ;Water Quality and Upwelling at Grays Harbor Entrance ;Limnol Oceanogr ;1960,5(1),48-56. ;English

Citation 370

Pearson, T. H. ;Dunstaffnage Marine Research Laboratory, Oban, Argyll, Scotland ;The Effect of Industrial Effluent from Pulp and Paper Mills on the Marine Benthic Environment ;Proc R Soc Lond B Biol Sci ;1972,180,469-485. ;English

Citation 371

Pearson, T. H. , R. Rosenberg ;Dunstaffnage Marine Research Laboratory, Oban, Argyll, Scotland ;Macrobenthic Succession in Relation to Organic Enrichment and Pollution of the Marine Environment ;Oceanogr Mar Biol Ann Rev ;1978,16,229-311. ;English

Citation 372

Penumalli, B. R. , R. H. Flake, E. Gus Fruh ;Biomedical Engineering Program, Department of Electrical Engineering, The University of Texas of Austin, Austin, TX ;Large Scale Systems Approach to

Estuarine Water Quality Modelling with Multiple Constituents ;Ecol Model ;1976,2,101-115. ;English

Citation 373

Per, P. A. ;Goucher Coll. , Towson, MD ;Evaluation & Predictions on Eutrophication of Bush Sub-Estuary ;Soc. of Systematic Zoology, Meeting, Washington, DC, 29 (Dec) 1972 ;1972(Dec), A724330. ;English

Citation 374

Peres, J. M. , J. Picard ;Centre d'Oceanographie, Marseille (France), Station Marine d'Endoume ;Causes of Decrease and Disappearance of the Seagrass Posidonia oceanica on the French Mediterranean Coast ;Aquatic Bot ;1975(June),1(2),133-139. ;English

Citation 375

Perkins, E. J. , O. J. Abbott ;Univ. of Strachclyde, Marine Lab. , Garelochhead, Dunbartonshire, Scotland ;Nutrient Enrichment and Sand Flat Fauna ;Marine Pollut Bull ;1972(May),3(5),70-72. ;English

Citation 376

Peters, J. J. , R. Wollast ;Laboratoire de Recherches Hydrauliques, Antwerp (Belgium) ;Role of the Sedimentation in the Self-Purification of the Scheldt Estuary ;In: Proceedings of the Third Federal Inter-Agency Sedimentation Conference, Denver, Colorado, 22-25(Mar)1976, Water Resources Council, Washington, DC, Sedimentation Committee ;1976,3-77 - 3-86. ;English

Citation 377

Peterson, D. H. ;US Geological Survey, 345 Middlefield Road, Menlo Park, CA94025 ;Oxygen, Carbon & Nitrogen (OCN) Distributions in Eutrophic Potomac River-Estuary ;American Geophysical Union, Spring Meeting, Miami Beach FL 17- 21 (Apr) 1978 ;1978,782 2126. ;English

Citation 378

Peterson, David H. , John F. Festa, T. John Conomos ;US Geological Survey, 345 Middlefield Road, Menlo Park, CA 94025 ;Numerical Simulation of Dissolved Silica in the San Francisco Bay ;Estuarine Coastal Mar Sci ;1978,7,99-116. ;English

Citation 379

Petti, M. J. ;Rhode Island Univ. , Kingston, RI, Dept. of Civil and Environmental Engineering ;Phosphorus Exchange at the Sediment-Water

Interface of Selected Narragansett Bay Sediments ;Rhode Island Univ. ;1975, MS Dissertation, 89p. ;English

Citation 380

Pheiffer, T. H. , D. K. Donnelly , D. A. Possehl ;US Environmental Protection Agency, Annapolis Field Office, Annapolis, MD ;Water Quality Conditions in the Chesapeake Bay System ;US EPA ;1972(Aug), Technical Rep. No. 55,48p. ;English

Citation 381

Platt, Trevor, Christiane Filion ;Fisheries Research Board of Canada, Marine Ecology Laboratory, Bedford Institute of Oceanography, Dartmouth, Nova Scotia ;Spatial Variability of the Productivity: Biomass Ratio for Phytoplankton in a Small Marine Basin ;Limnol Oceanogr ;1973(Sept),18(5),743-749. ;English

Citation 382

Platt, Trevor, D. V. Subba Rao ;Bedford Inst. , Dartmouth (Nova Scotia), Marine Ecology Lab ;Primary Production Measurements on a Natural Plankton Bloom ;J Fish Res Board Can ;1970,27(5),887-899. ;English

Citation 383

Poirrier, Michael A. , James S. Rogers, Maureen A. Mulino, Elliot St. Eisenberg ;New Orleans Univ. , LA Dept. of Biological Sciences ;Epifaunal Invertebrates as Indicators of Water Quality in Southern Lake Pontchartrain ;WRRI Louisiana ;1975(May), Rep. No. TR-5,52p. ;English

Citation 384

Polishchuk, L. N. ; ;Zooplankton of the Dniester Estuary and Adjacent Seaside under Anthropogenic Influences ;Gidrobiol Zh ;1976,12 (6),37-45. ;English

Citation 385

Pomeroy, L. R. , E. E. Smith , Carol M. Grant ;Dept. of Zoology and Marine Institute, University of Georgia, Athens, GA ;The Exchange of Phosphate between Estuarine Water and Sediments ;Limnol Oceanogr ;1965,10(2),162-167. ;English

Citation 386

Pomeroy, Lawrence R. , L. R. Shenton, R. D. Jones, Robert J. Reimold ;Department of Zoology, Computer Center, Department of

Statistics, and Marine Institute, University of Georgia, Athens and Sapelo Island, GA ;Nutrient Flux in Estuaries ;In: Nutrients and Eutrophication: the Limiting-Nutrient Controversy, Amer. Soc. of Limnology & Oceanography, Inc. ;1972, Spec. Symp. Vol. 1,274-293. ;English

Citation 387

Poon, C. P. C. ;Rhode Island Univ. , Kingston Dept. of Civil and Environmental Engineering ;Nutrient Exchange in Water-Sediment Interface and its Effects on Water Quality ;Rhode Island Univ. ;1975, Completion Rep. OWRT B-052-RI(I),13p. ;English

Citation 388

Poore, G. C. B. , J. D. Kudenov ;Victoria Ministry for Conservation, Melbourne(Australia), Marine Pollution Studies Group ;Benthos around an Outfall of the Werribee Sewage Treatment Farm, Port Phillip Bay, Victoria ;Aust J Mar Freshwater Res ;1978,29,157-167. ;English

Citation 389

Poore, Gary C. B. , Jerry D. Kudenov ;Marine Studies Group, Ministry for Conservation, 605 Flinders Street Extension, Melbourne, Vic. 3000 ;Benthos of the Port of Melbourne: The Yarra River and Hobsons Bay, Victoria ;Aust J Mar Freshwater Res ;1978,29,141-155. ;English

Citation 390

Potera, G. T. , E. E. MacNamara ;Lehigh Univ. , Bethlehem, PA , Dept. of Biology ;Spartina alterniflora (Tall) Productivity in a Polluted New Jersey Estuary ;Bull N J Acad Sci ;1972,17(1),13-14. ;English

Citation 391

Qasim, S. Z. , S. Wellershaus, P. M. A. Bhattathiri, S. A. H. Abidi ;National Inst. of Oceanography, Cochin (India), Biological Oceanographic Div. ;Organic Production in a Tropical Estuary ;Proc Indian Acad Sci ;1969(Feb),69(2)B, 51-94. ;English

Citation 392

Ralston, Stephen ;University of Hawaii, Department of Zoology, Honolulu, HA 96822 ;Anomalous Growth and Reproductive Patterns in Populations of

Chaetodon miliaris (Pisces, Chaetodontidae) from Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),395-403. ;English

Citation 393

Raymont, J. E. G. ;University College, Southampton ;Further Observations on Changes in the Bottom Fauna of a Fertilized Sea Loch ;J Mar Biol Assoc UK ;1949,28,9-19. ;English

Citation 394

Raymont, J. E. G. ;Department of Oceanography, The University Southampton, Great Britain ;Some Aspects of Pollution in Southampton Water ;Proc R Soc Lond B Biol Sci ;1972,180,451-468. ;English

Citation 395

Read, P. A. , T. Renshaw, K. J. Anderson ;Napier College of Commerce and Technology, Colinton Road, Edinburgh EH105DT ;Pollution Effects on Intertidal Macrobenthic Communities ;J Appl Ecol ;1978,15,15-31. ;English

Citation 396

Reeburgh, W. S. ;Alaska Univ. , College, Inst. of Marine Science ;Processes Affecting Gas Distributions in Estuarine Sediments ;In: Environmental Framework of Coastal Plain Estuaries; 18th Annual Meeting of Southeastern Section of the Geological Society of America, 10-11(Apr)1969, Columbia, SC ;1972, Memoir 133,383-389. ;English

Citation 397

Reeburgh, William S. ;Johns Hopkins Univ. , Baltimore, MD, Chesapeake Bay Inst. ;Observations of Gases in Chesapeake Bay Sediments ;Limnol Oceanogr ;1969(May),14(3),368-375. ;English

Citation 398

Regier, Henry A. ;College of Fisheries, Univ. of Washington ;A Balanced Science of Renewable Resources with Particular Reference to Fisheries ;Univ. of Washington Press, Seattle, WA 98195 ;0-295-95602-X, 108p. ;English

Citation 399

Reish, Donald J. ;California State College, Long Beach, CA ;Marine and

Estuarine Pollution ;Water Pollut Control Fed ;1972(June),44(6),1218-1226. ;English

Citation 400

Reish, Donald J. ;Department of Biology, California State College, Long Beach, CA ;Biological Changes in Los Angeles Harbor following Pollution Abatement ;Calif Mar Res Comm ;1972, CalCOFI Rep. 16,118-121. ;English

Citation 401

Renfro, W. C. ;Bureau of Commercial Fisheries, Galveston, TX, Biological Lab. ;Gas-Bubble Mortality of Fishes in Galveston Bay, Texas ;Trans Am Fish Soc ;1963,92,320-322. ;English

Citation 402

Resource Planning Section, Office of Planning and Research, Georgia Department of Natural Resources ;Atlanta, GA ;The Environmental Impact of Freshwater Wetland Alterations on Coastal Estuaries ;GA Dept Nat Resour ;1976(June), Technical Planning Seminar, 85p. ;English

Citation 403

Revelante, Noelia, Malvern Gilmartin ;Center for Marine Research, 'Institute Rudjer Boskovic', 52210 Rovinj, Yugoslavia ;Characteristics of the Microplankton and Nanoplankton Communities of an Australian Coastal Plain Estuary ;Aust J Mar Freshwater Res ;1978,29,9-18. ;English

Citation 404

Riley, Gordon A. ;Bingham Oceanographic Laboratory, Yale University ;Organic Aggregates in Seawater and the Dynamics of Their Formation and Utilization ;Limnol Oceanogr ;1963,8(4),372-381. ;English

Citation 405

Rohatgi, Naresh, Kenneth Y. Chen ;Environmental Engineering Prog. , Univ. of Southern California, Los Angeles, CA ;Transport of Trace Metals by Suspended Particulates on Mixing with Seawater ;J Water Pollut Control Fed ;1975(Sept),47(9),2298-2316. ;English

Citation 406

Roman, M. R. ;New Hampshire Univ. , Durham, NH, Dept. of Zoology ;Tidal Resuspension in Buzzards Bay, Massachusetts. II. Seasonal Changes in the Size Distribution of Chlorophyll, Particle

Concentration, Carbon and Nitrogen in Resuspended Particle Matter ;Estuarine Coast Mar Sci ;1978(Jan),6(1),47-53. ;English

Citation 407

Rosenbaum, Arlene, A. Y. Kuo, Bruce J. Neilson ;Virginia Institute of Marine Science, Gloucester Point, VA 23062 ;A Water Quality Model of the Pagan River ;Appl Mar Sci Ocean Eng ;1977(Oct), Special Rep. 148,102p. ;English

Citation 408

Rosenbaum, Arlene, Bruce Neilson ;Virginia Institute of Marine Science, Gloucester Point, VA 23062 ;Water Quality in the Pagan River ;Appl Mar Sci Ocean Eng ;1977(Oct), Special Rep. 132,62p. ;English

Citation 409

Rosenberg, R. ;Sweden Water and Air Pollution Research Lab. , Goteborg ;Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary ;Oikos ;1976,27(3),414-427. ;English

Citation 410

Rowe, G. T. , C. H. Clifford, K. L. Smith ;Woods Hole Oceanographic Institution, MA ;Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters ;Nature ;1975(May),255,215-217. ;English

Citation 411

Russell, Clifford S. ;Resources for the Future, Inc. , Washington, DC ;Ecological Modeling in a Resource Management Framework ;National Oceanographic and Atmospheric Administration, Marine Ecosystems Analysis Program, Proceedings of a Symposium ;1975 (Jul), Library of Congress Catalog Card No. 75- 15108,400p. ;English

Citation 412

Ryther, J. H. , W. M. Dunstan, K. R. Tenor, J. E. Huguenin ;Woods Hole Oceanographic Institution, MA ;Controlled Eutrophication-Increasing Food Production from the Sea by Recycling Human Wastes ;BioScience ;1972(Mar),22(3),144-152. ;English

Citation 413

Ryther, John H. , William M. Dunstan ;Woods Hole Oceanographic Institution, Woods Hole, MA 02543 ;Nitrogen, Phosphorus, and

Eutrophication in the Coastal Marine Environment ;Science ;1971(Mar),171(3975),1008-1013. ;English

Citation 414

Sakshaug, E. , S. Mykiestad ;Trondheim Univ. (Norway), Biological Station ;Studies on the Phytoplankton Ecology of the Trondheimsfjord: III. Dynamics of Phytoplankton Blooms in Relation to Environmental Factors, Bioassay Experiments and Parameters for the Physiological State of the Populations ;J exp mar Biol Ecol ;1973,11(2),157-188. ;English

Citation 415

Sales, Henry J. , R. V. Thomann ;Hydroscience, Westwood, NJ 65807 ;A Steady-State Phytoplankton Model of Chesapeake Bay ;J Water Pollut Control Fed ;1978,50,2752-2770. ;English

Citation 416

Sanders, James G. ;Marine Science Program, University of North Carolina, Chapel Hill, NC 27514 ;Enrichment of Estuarine Phytoplankton by the Addition of Dissolved Manganese ;Mar Environ Res ;1978,1,59-. ;English

Citation 417

Saylor, G. S. , J. D. Nelson, Jr. , A. Justice, R. R. Colwell ;Maryland Univ. , College Park, Dept. of Microbiology ;Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay ;Appl Microbiol ;1975(Oct),30(4),625-638. ;English

Citation 418

Schmoeger, Donald R. , Nelson L. Nemerow, Emil J. Genetelli ;Nestle Company, Marysville, OH 43040 ;A Batch Algal Bioassay Procedure for Assessing Potential Eutrophication ;In: Proceedings of the 29th Industrial Waste Conference 7- 9(May)1974. Purdue Univ. ;1974, Eng. Extension Ser. No. 145,897-904. ;English

Citation 419

Schofield, W. R. , R. G. Krutchkoff ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, VA 24061 ;Deterministic Model of Dynamic Eutrophic Estuary ;J Environ Eng Div Am Soc Civ Eng ;1974(Aug),100(EE4),979-996. ;English

Citation 420

Schofield, William A. , Richard G. Krutchkoff ;Virginia Polytechnic Inst.

and State Univ. , Blacksburg, VA ;Stochastic Model for a Dynamic Ecosystem ;WRRI Virginia(Blacksburg) ;1973 , Bull. No. 60. ;English

Citation 421

Schubel, J. R. ;Director of Marine Sciences Research Center, State University of New York, Stony Brook, NY 11794 ;Fine Particles and Water Quality in the Coastal Marine Environment ;The Institute of Electrical and Electronics Engineers, Inc. ;1976, Annals No. 75CH1004-I 34-2,9p. ;English

Citation 422

Schubel, J. R. , C. H. Morrow, W. B. Cronin ;Maryland Fish and Wildlife Administrations, Annapolis, MD ;Suspended Sediment Data Summary March 1966-May 1967, Upper Chesapeake Bay (Tolchester to Havre de Grace) ;John Hopkins Univ. ;1968(Nov), Chesapeake Bay Inst. Spec. Rep. 14,60p. ;English

Citation 423

Schultz, D. M. , J. G. Quinn ;USGS, National Center MS 973, Reston, VA 22092 ;Suspended Material in Narragansett Bay: Fatty Acid and Hydrocarbons Composition ;Org Chem ;1977,1,27-36. ;English

Citation 424

Scott, B. D. ;Division of Fisheries and Oceanography, CSIRO, P. O. Box 21, Cronulla, N. S. W. 2230 ;Phytoplankton Distribution and Light Attenuation in Port Hacking Estuary ;Aust J Mar Freshwater Res ;1978,29,31-44. ;English

Citation 425

Seabloom, R. W. ;Washington Univ. , Seattle, WA, Coll. of Engineering ;Water Pollution by Sewage from Water Craft ;In: Colloque International sur l'Exploitation des Oceanis, Bordeaux, France ;1971(Mar), Theme I Tome I, 13p. ;English

Citation 426

Segar, D. A. , A. Y. Cantillo ;National Oceanic and Atmospheric Administration, Miami, FL, Atlantic Oceanographic and Meteorological Labs ;Some Considerations on Monitoring of Trace Metals in Estuaries and Oceans ;In: International Conference on Environmental Sensing and

Assessment. 14-19(Sept), Las Vegas, NV ;1975, Vol. 1,6-5-1 - 6-5-5. ;English

Citation 427

Senqupta, Subrata, Samuel S. Lee, Harvey P. Miller ;Miami Univ. , Coral Gables, FL, Dept. of Mechanical Engineering ;Three-Dimensional Numerical Investigations of Tide and Wind- Induced Transport Processes in Biscayne Bay ;Miami Univ. ;1978(July), SG Technical Bull. 39,137p. ;English

Citation 428

Seyb, Les, Karen Randolph ;Corvallis Environmental Research Lab. , OR ;North American Project--A Study of U. S. Water Bodies. (A Report for the Organization for Economic Cooperation and Development) ;US Environmental Protection Agency ;1977(July), EPA/600/3-77/086,548p. ;English

Citation 429

Shabman, I. A. , P. M. Ashton ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, Dept. of Agricultural Economics ;Citizen Attitudes Toward Management of the Chesapeake Bay ;WRRC Virginia (Blacksburg) ;1976(Feb), VWRRC Bull. 96,69p. ;English

Citation 430

Shapiro, Joseph, Roberto Ribeiro ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Sanitary Engineering and Water Resources ;Algal Growth and Sewage Effluent in the Potomac Estuary ;J Water Pollut Control Fed ;1965(July),37(7),1034-1042. ;English

Citation 431

Simidu, Usio, Emiko Kaneko, Nobuo Taga ;Ocean Research Institute, University of Tokyo, Minamidai, Nakano-ku, Tokyo, Japan ;Microbiological Studies of Tokyo Bay ;Microb Ecol ;1977,3,173-191. ;English

Citation 432

Simmonds, M. A. ;Consulting Chemical Engineer, 82 Central Avenue, St. Lucia, Queensland 4067, Australia ;Experience with Algal Blooms and

the Removal of Phosphorus from Sewage ;Water Res ;1973(Feb),7(1/2),255-264. ;English

Citation 433

Simon, J. L. , W. H. Huang ;University of South Fla. , School of Natural Scienes, 4202 E. Fowler Ave. , Tampa, FL 33620 ;Effects of Sewage Pollution Abatement on Hillsborough Bay ; ;research still in progress ;English

Citation 434

Sinclair, Michael, Edric Keighan, Jerry Jones ;Section d'Oceanographie, Universite du Quebec a Rimouski, Rimouski, Que. G5L3A1 ;ATP as a Measure of Living Phytoplankton Carbon in Estuaries ;J Fish Res Board Can ;1979,36,180-186. ;English

Citation 435

Sinha, Evelyn ;P. O. Box 989, La Jolla, CA 92037 ;Coastal/Estuarine Pollution, an Annotated Bibliography ;Ocean Engineering Information Series ;1970, Vol. 3,87p. ;English

Citation 436

Sinha, Evelyn ;Ocean Engineering Information Service, P. O. Box 989, La Jolla, CA 92037 ;Methods, Models & Instruments for Studies of Aquatic Pollution, An Annotated Bibliography ;Ocean Engineering Information Series ;1971, Vol. 5,29p. ;English

Citation 437

Slotta, L. S. , Scott M. Noble ;Oregon State University, Ocean Engineering, Corvallis, OR 97331 ;Use of Benthic Sediments as Indicators of Marina Flushing ;Oregon State Univ. ;1977(Oct), ORESU-T-77-007,56p. ;English

Citation 438

Smith, B. N. ;Texas Univ. , Austin Dept. of Botany ;The Role of Sea Grasses and Benthic Algae in the Geochemistry of Trace Metals in Texas Estuaries ;Texas Univ. ;1974(Oct), Completion Rep. OWRT B-175-TEX(1),6p. ;English

Citation 439

Smith, Eric M. , Charles P. Gerba, Joseph L. Melnick ;Department of Virology and Epidemiology, Baylor College of Medicine, Houston, TX 77030 ;Role of Sediment in the Persistence of Enteroviruses in the

Estuarine Environment ;Appl Environ Microbiol ;1978(Apr),35(4),685-689. ;English

Citation 440

Smith, K. L. , Jr. , Gilbert T. Rowe, Jean Ann Nichols ;Woods Hole Oceanographic Institution, Woods Hole, MA 01543 ;Benthic Community Respiration Near the Woods Hole Sewage Outfall ;Estuarine Coastal Mar Sci ;1973,10,65-70. ;English

Citation 441

Smith, R. E. ;California State Univ. , San Jose, CA, Dept. of Natural Science ;The Hydrography of Elkhorn Slough, a Shallow California Coastal Embayment ;Moss Landing Marine Laboratories, Moss Landing Harbor, CA ;1973, Technical Pub. 73-2,88p. ;English

Citation 442

Smith, William G. , Day, John W. ;Louisiana State University, Louisiana Water Resources Research Institute ;Enrichment of Marsh Habitats with Organic Wastes ;WRRI Louisiana ;1973 (Nov), OWRR A-033-LA, 7 p. ;English

Citation 443

Smyth, J. C. , D. J. Curtis, I. Gibson, M. Wilkinson ;Department of Biology, Paisley College of Technology, 41B Mossvale Street, Paisley, Scotland ;Intertidal Organisms of an Industrialized Estuary ;Mar Poll Bull ;1974,5(12),188-191. ;English

Citation 444

Soerensen, J. ;Univ. of Aarhus, Inst. of Ecology and Genetics, Ny Munkegade, DK-8000 Aarhus C, Denmark ;Capacity for Denitrification and Reduction of Nitrate to Ammonia in a Coastal Marine Sediment ;Appl Environ Microbiol ;1978(Feb),35(2),301-305. ;English

Citation 445

Sorokin, Yu. I. , I. W. Konovalova ;Institute of Biology of Inland Waters, Academy of Sciences USSR, Borok, Yaroslavl ;Production and Decomposition of Organic Matter in a Bay of the Japan Sea during the Winter Diatom Bloom ;Limnol Oceanogr ;1973(Nov),18(6),962-967. ;English

Citation 446

Soule, Dorothy F. , M. Oguri, John D. Soule ;University of Southern California, Los Angeles, CA, Inst. for Marine and Coastal Studies

;You Can Tailor Effluent BOD to Fit the Receiving-Water Ecosystem. . . and Enhance the Environment. Urban and Fish- Processing Wastes in the Marine Environment: Bioenhancement Studies at Terminal Island, California ;Bull Calif Water Pollut Contr Assoc ;1978(July),15(1),58-63. ;English

Citation 447

Soule, Dorothy F. , Mikihiko Oguri ;University of Southern California, Los Angeles, CA, Inst. of Marine and Coastal Studies ;Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor ;Sea Grant Program ;1976(Dec), Rep. No. USC-SG-5-76,284p. ;English

Citation 448

Specht, D. T. ;Eutrophication and Lake Restoration Branch, Corvallis Environmental Research Center, Corvallis, OR ;Seasonal Variation of Algal Biomass Production Potential and Nutrient Limitation in Yaquina Bay, Oregon ;In: Proceedings Biostimulation and Nutrient Assessment Symposium, Utah State Univ. , Logan, UT ;1975(Sept), PRWG168-1,149-174. ;English

Citation 449

Spiker, E. C. ; ;Carbon Isotope Distribution in Eutrophic Potomac River Estuary ;American Geophysical Union, Spring Meeting, Miami Beach, FL 17-21 (Apr) 1978 ;1978,782 2126. ;English

Citation 450

Stanley, Donald W. , John E. Hobbie ;North Carolina Water Resour. Res. Inst. , Raleigh, N C ;Nitrogen Recycling in the Chowan River ;WRRI North Carolina ;1977, UNC-WRRI-77-121,142 p. ;English

Citation 451

Stauble, Jane F. , Douglas H. Wood ;Virginia Institute of Marine Science, Gloucester Pt. , VA 23062 ;The Chesapeake Bay Bibliography, Vol. 3, Maryland Waters ;VIMS ;1975(Jan), Special Sci. Rep. No. 73. ;English

Citation 452

Steed, David L. , B. J. Copeland ;The University of Texas Marine Science Institute at Port Aransas, TX ;Metabolic Responses of Some Estuarine

Organisms to an Industrial Effluent ;Texas Insti Mar Sci, Contributions ;1967,12,143-159. ;English

Citation 453

Steele, J. H. , I. E. Baird ;Marine Laboratory, Aberdeen ;Relations between Primary Production, Chlorophyll and Particulate Carbon ;Limnol Oceanogr ;1961,6(1),68-78. ;English

Citation 454

Steele, J. H. , I. E. Baird ;Marine Laboratory, Aberdeen ;Further Relations between Primary Production Chlorophyll, and Particulate Carbon ;Limnol Oceanogr ;1962,7(1),42-47. ;English

Citation 455

Stevenson, J. Court, Nedra M. Confer ;University of Maryland, Horn Point Environmental Laboratories, Box 775 Cambridge, MD 21613 ;Summary of Available Information on Chesapeake Bay Submerged Vegetation ;Univ. of Maryland ;1978(Aug), FWS/OBS-78/66. ;English

Citation 456

Stevenson, L. Harold, R. R. Colwell ; ;Estuarine Microbial Ecology ;Belle W. Baruch Symposium in Marine Sciences, 1st. , University of South Carolina Press, Columbia, SC ;1973,536p. ;English

Citation 457

Stewart, R. Keith, William Marcus Ingram, Kenneth M. Mackenthum, et al. ;Robert A. Taft Sanitary Engineering Center, Cincinnati, OH ;Water Pollution Control, Waste Treatment and Water Treatment, Selected Biological References on Fresh and Marine Waters ;Federal Water Pollution Control Administration ;1966, Publication No. WP-23,126p. ;English

Citation 458

Stirling, Hadrian P. , Ann P. Wormald ;Fisheries Research Station, Aberdeen, Hong Kong ;Phosphate/Sediment Interaction in Tolo and Long Harbours, Hong Kong, and its Role in Estuarine Phosphorus Availability ;Estuarine Coastal Mar Sci ;1977,5,631-642. ;English

Citation 459

Stockner, J. G. , A. C. Costella ;Fisheries and Marine Service, West Vancouver (British Columbia), Pacific Environment Inst. ;Marine

Phytoplankton Growth in High Concentrations of Pulp Mill Effluent ;J Fish Res Board Can ;1976(Dec),33(12),2758-2765. ;English

Citation 460

Stockner, John G. , David D. Cliff ;Department of Fisheries and Oceans, Pacific Environment Institute, West Vancouver, BC V7V 1N6 ;Phytoplankton Ecology of Vancouver Harbor ;J Fish Res Board Can ;1979(Jan),36(1),1-10. ;English

Citation 461

Stoicovici, Lucia ;Cent. Rech. Biol. Str. Republicii 48, Cluj-Napoca, Rom. ;Interdependency between Species, Phytocenoses and the Substrate in Oligotrophic and Eutrophic Marshes ;Rev Roum Biol ;1978,23(1),11-16. ;French

Citation 462

Straskraba, Milan ;Hydrobiological Laboratory of the Botanical Institute, Czechoslovac Academy of Sciences, CS-15105 Prague (Czechoslovakia) ;Natural Control Mechanisms in Models of Aquatic Ecosystems ;Ecol Model ;1979,6,305-321. ;English

Citation 463

Stumm, W. ;Swiss Federal Inst. of Technology, Leonhardstrasse 33, ; 8006 Zuerich, Switz. ;Man's Acceleration of Hydrogeochemical Cycling of Phosphorus: Eutrophication of Inland and Coastal Waters ;Water Pollut Control ;1975,74 (2),124-133. ;English

Citation 464

Stumm, W. ;Eidgenoessische Anstalt fuer Wasserversorgung, Abwasserreinigung und Gewaesserschutz, Zurich (Switzerland) ;The Acceleration of the Hydrogeochemical Cycling of Phosphorus ;Water Res ;1973(Feb),7(1/2),131-144. ;English

Citation 465

Sutcliffe, W. H. , Jr. ;Bedford Inst. , Dartmouth (Nova Scotia), Marine Ecology Lab. ;Some Relations of Land Drainage, Nutrients, Particulate Material, and Fish Catch in Two Eastern Canadian Bays ;J Fish Res Board Can ;1972,29(4),357-362. ;English

Citation 466

Szyper, James P. , Jed Hirota, John Caperon, David A. Ziemann ;University of Hawaii, Department of Oceanography, Honolulu, HA 96822 ;Nutrient Regeneration by the Larger Net Zooplankton in the

Southern Basin of Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),363-372. ;English

Citation 467

Taft, J. L. , A. J. Elliott, W. R. Taylor ;Chesapeake Bay Institute, The Johns Hopkins University, Baltimore, MD ;Box Model Analysis of Chesapeake Bay Ammonium and Nitrate Fluxes ;In: Estuarine Interactions, edited by Martin L. Wiley, Academic Press ;1978,115-130. ;English

Citation 468

Taft, J. L. , Michael E. Loftus, W. Rowland Taylor ;Chesapeake Bay Institute, Johns Hopkins University, Baltimore, MD 21218 ;Phosphate Uptake from Phosphomonoesters by Phytoplankton in the Chesapeake Bay ;Limnol Oceanogr ;1977(Nov),22(6),1012-1021. ;English

Citation 469

Taft, J. L. , W. R. Taylor, J. J. McCarthy ;Chesapeake Bay Institute, The Johns Hopkins University; Baltimore, MD ;Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA ;Mar Biol ;1975,33,21-32. ;English

Citation 470

Taga, N. , H. Kobori ;Ocean Research Institute, University of Tokyo, Nakano, Tokyo, Japan ;Phosphatase Activity in Eutrophic Tokyo Bay ;Mar Biol ;1978,49,223-229. ;English

Citation 471

Tamura, Yasushi ;Agric. Dep. , Nagoya Univ. , Nagoya, Japan ;Prevention of Eutrophication in an Estuary ;Suiri Kagaku ;1977,21(4),33-40. ;Japan

Citation 472

Taslakian, M. J. , J. T. Hardy ;American Univ. , Beirut, (Lebanon), Dept. of Biology ;Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon ;Mar Biol ;1976,38,315-325. ;English

Citation 473

Taylor, W. R. ;Johns Hopkins Univ. , Baltimore, MD ;The Ecology of the

Plankton of the Chesapeake Bay Estuary ;NTIS ;Sept 1972- June 1973, NTIS Progress Rep. COO 32796,54p. ;English

Citation 474

Taysi, I. , N. van Uden ;Department of Microbiology, Botanical Institute, University of Lisbon, Lisbon, Portugal ;Occurrence and Population Densities of Yeast Species in an Estuarine-Marine Area ;Limnol Oceanogr ;1964,9(1),42-45. ;English

Citation 475

Tennyson, Pamela S. , Susan O. Barrick, Frank W. Wojcik, John J. Norcross, William J. Hargis, Jr. ;Virginia Inst. of Marine Science, Gloucester Pt. , VA 23062 ;The Chesapeake Bay Bibliography, Vol. 2, Virginia Waters ;VIMS ;1972(June), Special Sci. Rep. No. 63. ;English

Citation 476

Texas Water Development Board, Texas Dept. of Water Resources, ;Austin, TX ;Techniques for Evaluating the Effects of Water Resources Development on Estuarine Environments ;Texas Dept. of Water Resources ;1978, Accession No. 6039,314p. ;English

Citation 477

Thomann, R. V. , D. J. O'Conner , D. M. Di Toro ;Manhattan Coll. , Bronx, N Y 10471 Environmental Engineering and Science Program ;Modeling of the Nitrogen and Algal Cycles in Estuaries ;Proceedings, 5th International Water Pollution Research Conference ;1970(July-Aug), paper 111-9,14p. ;English

Citation 478

Thomann, Robert V. , Dominic M. Di Toro, Donald J. O'Connor ;Assoc. Prof. , Environmental Engrg. and Sci. Program, Manhattan Coll. , Bronx, NY ;Preliminary Model of Potomac Estuary Phytoplankton ;J Environ Eng Div Am Soc Civ Eng ;1974(June),100(EE3),699-715. ;English

Citation 479

Thomas, W. H. , D. L. R. Seibert, A. N. Dodson ;California Univ. , San Diego, La Jolla, CA, Inst. of Marine Resources ;Phytoplankton Enrichment Experiments and Bioassays in Natural Coastal Sea Water and

in Sewage Outfall Receiving Waters Off Southern California ;Estuarine Coast Mar Sci ;1974,2,191-206. ;English

Citation 480

Tilley, L. J. , W. A. Dawson ;Geological Survey, Tacoma, WA ;Plant Nutrients and the Estuary Mechanism in the Duwamish River Estuary, Seattle, Washington ;Geological Survey Res ;1971, Chapt. C, Paper 750-C, C185-191. ;English

Citation 481

Tilley, L. J. , W. L. Haushild ;Geological Survey, Menlo Park, CA ;Use of Productivity of Periphyton to Estimate Water Quality ;J Water Pollut Control Fed ;1975,47(8),2157-2171. ;English

Citation 482

Tomas, Carmelo R. ;Graduate School of Oceanography, Univ. of Rhode Island, Kingston, RI ;Olisthodiscus luteus (Chrysophyceae). III. Uptake and Utilization of Nitrogen and Phosphorus ;J Phycol ;1979,15,5-12. ;English

Citation 483

Traaen, T. S. ;Norsk Institutt for Vanforskning, Blindern ;Biological Effects of Primary, Secondary, and Tertiary Sewage Treatment in Lotic Analog Recipients ;Verh Int Verein Limnol ;1975,19,2064-2069. ;English

Citation 484

Trident Engineering Associates, Inc. ;Annapolis, MD ;Chesapeake Bay Case Study ;Trident Eng Ass Inc ;1968(Sept),131p. ;English

Citation 485

Troup, B. N. , O. P. Bricker, J. T. Bray ;Case Western Reserve Univ. , Cleveland, OH, Dept. of Geology ;Oxidation Effect on the Analysis of Iron in the Interstitial Water of Recent Anoxic Sediments ;Nature ;1974(May),249,237-239. ;English

Citation 486

Tuffey, T. J. ;Rutgers-The State University, Brunswick, NJ ;The

Detection and Study of Nitrification in Streams and Estuaries ;Rutgers-The State University ;1973(Jan), PhD Dissertation ;English

Citation 487

Tuffey, T. J. , J. V. Hunter, V. A. Matulewich ;Rutgers - The State Univ. , New Brunswick, NJ, Water Resources Research Inst. ;Zones of Nitrification ;Water Resour Bull ;1974(June),10(3),555-564. ;English

Citation 488

Uda, M. , T. Nakao, A. Kishi ; ;Marine Pollution in Suruga Bay and Associated Environmental Change in Relation to Fisheries ;J Fac Mar Sci Technol, Tokai Univ ;1977,10,147-174. ;Japan

Citation 489

Uematsu, Mitsuo, Masao Minagawa, Hideyuki Arita, Shizuo Tsunogai ;Laboratory of Analytical Chemistry, Faculty of Fisheries, Hokkaido University ;Determination of Dry Weight of Total Suspended Matter in Seawater ;Bull Fac Fish Hokkaido Univ ;1978,29(2),164-172. ;Japan

Citation 490

United Nations Educational Scientific and Cultural Org. ;Paris, France ;A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines ;UNESCO, Intergov. Oceanogr Comm ;1976, Technical Ser. No. 14,42p. ;English

Citation 491

United Nations Environment Programme ; ;Preliminary Report on the State of Pollution of the Mediterranean Sea ;Intergovernmental Review Meeting of Mediterranean Coastal States on the Mediterranean Action Plan. Monaco, 9-14(Jan)1978 ;1978(Jan),208p. ;English

Citation 492

Upchurch, J. B. , J. K. Edzwald, C. R. O'Molia ;North Carolina Univ. , Chapel Hill, NC, Dept. of Environmental Sciences and Engineering ;Phosphates in Sediments of Pamlico Estuary ;Environ Sci Technol ;1974,8(1),56-58. ;English

Citation 493

Upchurch, Joseph B. ;North Carolina Univ. , Chapel Hill, NC, Dept. of Environmental Sciences and Engineering, N C ;Sedimentary Phosphorus in

the Pamlico Estuary of North Carolina ;Sea Grant Publication, N C ;1972(May), UNC-SG-72-03,45p. ;English

Citation 494

US Environmental Protection Agency ; ;Estuarine Pollution Control and Assessment, Proceedings of a Conference held at Pensacola, FL, 11-13(Feb)19751975 ;US EPA ;1977(Mar),440/1-77-007A. ;English

Citation 495

US Environmental Protection Agency ;Annapolis Field Office, Annapolis, MD ;Survey Results of the Chesapeake Bay Input Study 1969-1970 ;US EPA ;1970, Data Rep. No. 31 , 26p. ;English

Citation 496

US Environmental Protection Agency ;Pacific Northwest Environmental Research Lab. , Corvallis, OR ;Marine Algal Assay Procedure: Bottle Test ;U S EPA ;1974 (Dec), EPA/660/3-75-008,51p. ;English

Citation 497

US Environmental Protection Agency ;Pacific Northwest Environmental Research Lab, Corvallis, OR ;Proceedings: Biostimulation and Nutrient Assessment Workshop ;US EPA ;1975(June), Ecol. Res. Ser. Rep. No. EPA-660/3-75- 034,325p. ;English

Citation 498

US Environmental Protection Agency ;Office of Water Planning and Standards, Washington, DC ;Estuarine Pollution and Assessment, Proceedings of a Conference, Volumes I andII ;US EPA ;1977(Mar), EPA 400/1-77-007 A, Vol. 1 381p. , Vol. 2 755p. ;English

Citation 499

Uyeno, Fukuzo ;Dalhousie Univ. , Halifax, Nova Scotia, Inst. of Oceanography ;Nutrient and Energy Cycles in an Estuarine Oyster Area ;J Fish Res Board Can ;1966,23(11),1635-1652. ;English

Citation 500

Vaccaro, Ralph F. ;Woods Hole Oceanographic Institution, Woods Hole, MA

02543 ;The Response of Natural Microbial Populations in Seawater to Organic Enrichment ;Limnol Oceanogr ;1969,14(5),726-735. ;English

Citation 501

Vaceloet, E. ;Centre d'Oceanographie, Marseille (France), Station Marine d'Endoume ;Role of Vitamins in Bacterial-Plankton Relationships in Littoral Seawater and in Supralittoral Pools: II. Annual Evolution of Organisms which Produce Vitamin Synthesis ;Cah Biol Mar ;1975,16,383-394. ;English

Citation 502

Vanderborght, J-P. , R. Wollast, G. Billen ;Brussels Univ. (Belgium), Lab d'Environment ;Kinetic Models of Diagenesis in Disturbed Sediments. Part 2. Nitrogen Diagenesis ;Limnol Oceanogr ;1977(Sept),22(5),794-803. ;English

Citation 503

Vanderborght, J-P. , R. Wollast, G. Billen ;Brussels Univ. (Belgium), Lab. d'Environnnement ;Kinetic Models of Diagenesis in Disturbed Sediments. Part 1. Mass Transfer Properties and Silica Diagenesis ;Limnol Oceanogr ;1977,22(5),787-793. ;English

Citation 504

Vanderborght, Jean-Pierre, Gilles Billen ;Institut de Chimie Industrielle (Environment), Universite de Bruxelles, Laboratorium voor Ekologie en Systematick, Universiteit te Brussel, Brussels, Belgium ;Vertical Distribution of Nitrate Concentration in Interstitial Water of Marine Sediments with Nitrification and Denitrification ;Limnol Oceanogr ;1975(Nov),20(6),953-961. ;English

Citation 505

Vaughn, J. M. ;New Hampshire Univ. , Durham ;The Use of Coliphage as an Index of Human Enterovirus Pollution in an Estuarine Environment ;New Hampshire Univ. ;1972, PhD Dissertation, 68p. ;English

Citation 506

Venugopalan, V. K. , A. Rajendran ;Centre of Advanced Study in Marine Biology, Porto-Novo-608 502, S. India ;Dissolved and Particulate

Nitrogen in Vellar Estuary ;Bull Dep Mar Sci Univ Cochin ;1975,7(4),885-897. ;English

Citation 507

Vernberg, F. J. , R. Bonnell, B. Coull, R. Dame, Jr. , P. DeCoursey, W. Kitchens, Jr. , B. Kjerfve, H. Stevenson, W. Vernberg, R. Zingmark ;Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, Columbia, SC 29208 ;The Dynamics of an Estuary as a Natural Ecosystem ;US Environmental Protection Laboratory, Office of Research and Development, Gulf Breeze, FL 32561 ;1977(Jan), EPA-600/3-77-016. ;English

Citation 508

Virginia Polytechnic Inst. and State Univ. ;Blacksburg, VA, Water Resources Research Center ;Annual Report for Fiscal Year 1971 ;WRRC Virginia(Blacksburg) ;1971(Sept), VPI-WRRC-Bull-46,133p. ;English

Citation 509

Vishniac, H. S. , G. A. Riley ;Yale University, New Haven, CT ;Cobalamin and Thiamine in Long Island Sound: Patterns of Distribution and Ecological Significance ;Limnol Oceanogr ;1961,6(1),36-41. ;English

Citation 510

Wagner, D. D. ;US Naval Acad. , Annapolis, MD 21402 ;An Investigation of the Physical Impact of Sewage Outflow on a River Estuarine Environment ;US Naval Academy, Trident Scholar Project Report ;1973(May), USNA-TSPR-50,72p. ;English

Citation 511

Waite, Thomas D. , Ralph Mitchell ;Sch. Eng. Environ. Des. , Univ. Miami, Coral Gables, FL ;Role of Benthic Plants in Fertilized Estuary ;J Sanit Eng Div Am Soc Civ Eng ;1972,98 (SA5),763-70 ;English

Citation 512

Waldichuk, M. ;Fisheries Research Board of Canada, Nanaimo (British Columbia), Biological Station ;Eutrophication Studies of a Shallow

Inlet on Vancouver Island ;J Water Pollut Control Fed ;1969,41(5) part I, 745-764. ;English

Citation 513

Waldichuk, M. ;Fisheries and Marine Service, West Vancouver (British Columbia), Pacific Environment Inst. ;Coastal Marine Pollution and Fish ;Ocean Manage ;1974,2,1-60. ;English

Citation 514

Wang, Lawrence K. , M. H. Wang, C. P. C. Poon, Jon Bergenthal ;Associate Professor, Dept. of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N J ;Chemistry of Nitrification-Denitrification Process ;J Environ Sci ;1978,21(6),23-28. ;English

Citation 515

Water Resources Engineers, Inc. ;Walnut Creek, CA ;Ecologic Modeling of Puget Sound and Adjacent Waters ;Water Resources Engineers, Inc. , Walnut Creek, CA ;1975 (Sep), WRE-11930-1,127p. ;English

Citation 516

Water Resources Research Inst. ;Oregon State University, OR ;The Quality of Oregon's Water Resources ;WRRI Oregon ;1971 (Aug), WRRI-9,25p. ;English

Citation 517

Water Resources Research Inst. ;Raleigh, NC ;Annual Report, 1 Jul 1969-30 Jun 1970 ;WRRI North Carolina ;1971, UNC-WRRI-71-00,33p. ;English

Citation 518

Webb, Kenneth L, C. L. D'Elia ;Virginia Institute of Marine Science, Gloucester Pt. , VA 23062 ;Nutrient and Oxygen Redistribution by Estuarine Spring-Neap Tidal Cycles in the York River, Virginia ; ;submitted to Science, (Apr)1979. ;English

Citation 519

Welch, Eugene ;Geological Survey, Washington, DC ;Factors Initiating Phytoplankton Blooms and Resulting Effects on Dissolved Oxygen in

Duwamish River Estuary, Seattle, Washington ;Geol Surv Water - Supply ;1969, Pap 1873-A, 62p. ;English

Citation 520

Welch, Eugene B. ;Geological Survey, Tacoma, WA ;Phytoplankton and Related Water-Quality Conditions in an Enriched Estuary ;J Water Pollut Control Fed ;1968,40(10),1711-1727. ;English

Citation 521

Welch, Eugene B. , Richard M. Emery, Robert I. Matsuda, William A. Dawson ;Department of Civil Engineering, University of Washington, Seattle, WA, 98195 ;The Relation of Periphytic and Planktonic Algal Growth in an Estuary to Hydrographic Factors ;Limnol Oceanogr ;1972,17(5),731-737. ;English

Citation 522

Wheeler, William Neilson ;University of California, Santa Barbara, CA ;Ecophysiological Studies on the Giant Kelp, Macrocystis ;Univ. of California ;1978, PhD Dissertation Order No. 7819144,193p. ;English

Citation 523

Whipple, William, Jr. , Joseph V. Hunter, Robert C. Ahlert, Shaw L. Yu ;Rutgers - The State Univ. , New Brunswick, NJ ;Estimating Runoff Pollution from Large Urban Areas - The Delaware Estuary ;Water Resources Research Inst ;1978(Jul), Rep. No. W78-12111,80p. ;English

Citation 524

White, A. W. ;Fisheries and Marine Service, St. Andrews (New Brunswick), Biological Station ;Dinoflagellate Toxins and Probable Cause of an Atlantic Herring (Clupea harengus harengus) Kill, and Pteropods as Apparent Vector ;J Fish Res Board Can ;1977,34,2421-2424. ;English

Citation 525

White, D. C. , J. S. Herron, J. D. King ;Florida State Univ. , Dept. of Biological Science, Tallahassee, FL 32306 ;Recovery of Poly-B-Hydroxybutyrate from Estuarine Microflora ;Appl Environ Microbiol ;1978(Feb),35(2),251-257. ;English

Citation 526

Whitfield, M. ;CSIRO Division of Fisheries and Oceanography, Cronulla,

NSW 2230, Australia ;Eh as an Operational Parameter in Estuarine Studies ;Limnol Oceanogr ;1969,14(4),547-558. ;English

Citation 527

Whitlock, C. H. , III ;Old Dominion Univ. , Norfolk, VA, Dept. of Civil Engineering ;Fundamental Analysis of the Linear Multiple Regression Technique for Quantification of Water Quality Parameters from Remote Sensing Data ;Old Dominion Univ. ;1977(May), PhD Dissertation, 176p. ;English

Citation 528

Wiley, Martin ;Chesapeake Biological Laboratory, University of Maryland, Center for Environmental and Estuarine Studies, Solomons, MD ;Estuarine Processes. Volume I. Uses, Stresses, and Adaptation to the Estuary ;International Estuarine Research Conf. , 3rd, Galveston, 1975, Academic Press, NY ;1976,541p. ;English

Citation 529

Wilkinson, Martin , Anne R. Henderson , Christine Wilkinson ;Dept. of Brewing and Biological Sciences, Heriot-Watt Univ. , Edinburgh, Scotland ;Distribution of Attached Algae in Estuaries ;Mar Pollut Bull ;1976,7(10),183-184. ;English

Citation 530

Wilson, Robert E. , Akira Okubo ;Marine Sciences Research Center, State University of New York, Stony Brook, N Y 11794 ;Longitudinal Dispersion in a Partially Mixed Estuary ;J Mar Res ;1978 (Aug),36(3),427-447. ;English

Citation 531

Windom, Herbert L. ;Skidaway Inst. of Oceanography, Savannah, GA ;Unconfined Dumping of Dredge Spoil Said Better than Dike Method ;Work Boat, New Orleans ;1972(Oct),29(10),36,38,40,42. ;English

Citation 532

Wisconsin University ;Wisconsin University Water Resources Center, Madison, WI ;Eutrophication Abstracts ;Eutrophication Program, Madison, Abstracts ;1970(May)Issue No. 15,1970(Nov)Issue No. 21-1975(Apr)Issue No. 47. ;English

Citation 533

Witherspoon, A. M. , Charles Balducci, Oliver C. Boody, Jimmie Overton ;Department of Botany, North Carolina State University, Raleigh, NC

27650 ;Response of Phytoplankton to Water Quality in the Chowan River System ;WRRI North Carolina ;1978(June), Project No. B-091-NC. ;English

Citation 534

Wohlschlag, Donald E. , B. J. Copeland ;Texas Univ. , Port Aransas, Inst. of Marine Science ;Fragile Estuarine Systems-Ecological Considerations ;Water Resour Bull ;1970,6(1),94-105. ;English

Citation 535

Wollast, R. , F. DeBroeu ;Brussels Univ. (Belgium) ;Study of the Behavior of Dissolved Silica in the Estuary of the Scheldt ;Geochim Cosmochim Acta ;1971(Feb),35(2),613-620. ;English

Citation 536

Wong, George T. F. , Chester E. Grosch ;Institute of Oceanography, Old Dominion University, Norfolk, VA 23508 ;A Mathematical Model for the Distribution of Dissolved Silicon in Interstitial Waters--an Analytical Approach ;J Mar Res ;1978,36(4),735- ;English

Citation 537

Wood, Lindsay W. ;North Carolina State Univ. , Raleigh, NC, Dept. of Zoology ;The Role of Estuarian Sediment Microorganisms in the Uptake of Organic Solutes Under Aerobic Conditions ;North Carolina State Univ. ;1970, PhD Dissertation, 75p. ;English

Citation 538

Zabawa, C. F. ;South Carolina Univ. , Columbia, SC, Dept. of Geology ;Microstructure of Agglomerated Suspended Sediments in Northern Chesapeake Bay Estuary ;Science ;1978(Oct),202,49-51. ;English

Citation 539

Zemaitis, W. L. , Geraldine V. Cox ;Raytheon Environmental Research Laboratory, New London, CT 06320 ;Effects of Organic Enrichment on Benthic Fauna in a Tidal River ;Mar Technol Soc ;1971(Aug 16-18),7th Annual Conf. , 629-636. ;English

Citation 540

Zimmerman, M. S. ;Florida State Univ. , FL ;A Comparison of the Benthic Macrophytes of a Polluted Drainage System (Tenholloway River) with an

Unpolluted Drainage System (Econfina River) ;Florida State Univ. ;1974, MS Thesis ;English

Citation 541

Zison, Stanley W. , Kendall F. Haven, William B. Mills ;Tetra Tech, Inc. , Lafayette, CA 94549 , Athens, GA ;Water Quality Assessment: A Screening Method for Nondesignated 208 Areas ;US Environmental Protection Agency ;1977(Aug), EPA/600/9-77/023,1217p. ;English

Citation 542

Zison, Stanley W. , William B. Mills, Dennis Deimer, Carl W. Chen ;Tetra Tech, Inc. Lafayette, CA 94549 ;Rates, Constants, and Kinetics Formulations in Surface Water Quality Modeling ;US Environmental Protection Agency ;1978(Dec), EPA-600/3-78-105,335p. ;English

Citation 543

Zubchenko, I. Z. ;USSR, Astrakhan Fisheries Technical Inst. ;Biosorption by Marine Fish of Methianine and Urea Dissolved in Water ;J Ichthyol ;1977,17(2),336-341. ;English

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