



US Army Corps
of Engineers
Waterways Experiment
Station

AD-A277 361



Miscellaneous Paper ITL-93-1
September 1993

2

List of Publications of the U.S. Army Engineer Waterways Experiment Station

Volume II

compiled by
Research Library
Information Management Division
Information Technology Laboratory

DTIC
ELECTE
MAR 24 1994
S F D

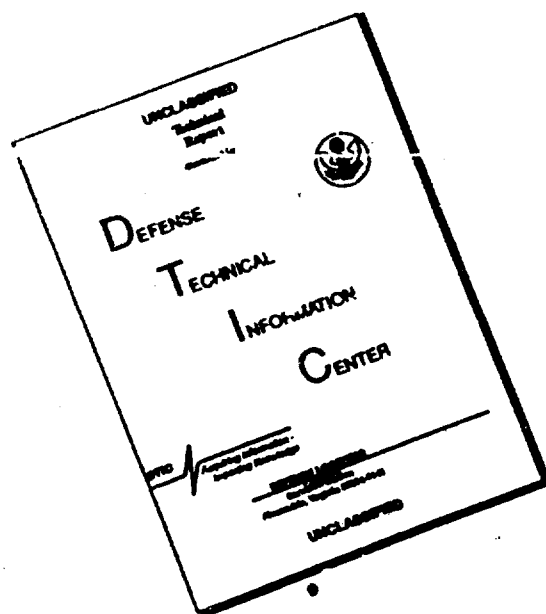
94-09187



DTIC QUALITY CONTROLLED 1

94 3 23 029

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST QUALITY AVAILABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

The contents of this report are not to be used for advertising, publication, or promotional purposes. Citation of trade names does not constitute an official endorsement or approval of the use of such commercial products.



PRINTED ON RECYCLED PAPER

List of Publications of the U.S. Army Engineer Waterways Experiment Station

Volume II

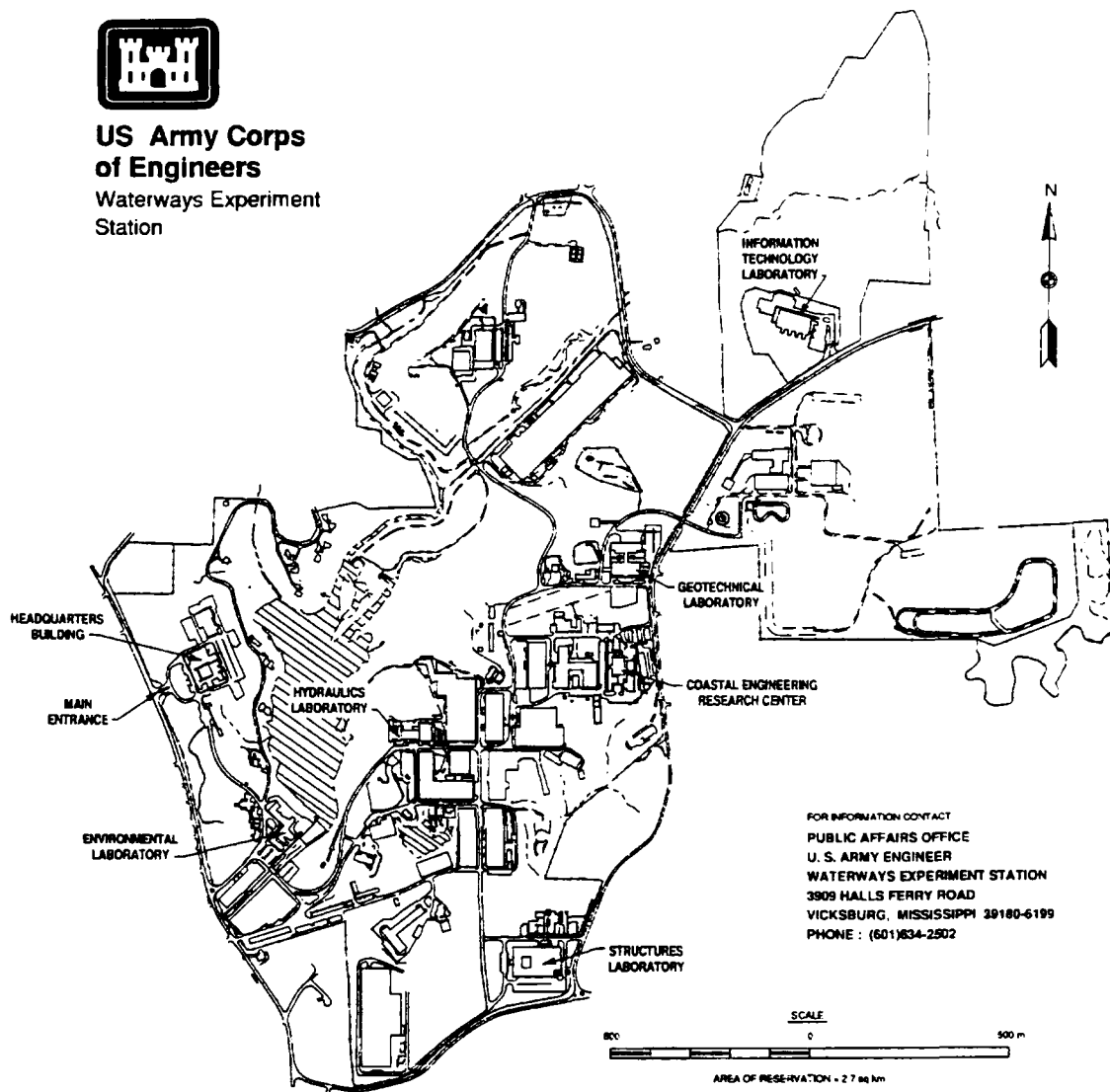
by Information Technology Laboratory

U.S. Army Corps of Engineers
Waterways Experiment Station
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Accession For	
NTIS	ORASE <input checked="" type="checkbox"/>
DTIC	AND <input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	<input type="checkbox"/>
By	
Distribution /	
Availability Code	
Dist	Availability Code Special
A-1	



**US Army Corps
of Engineers**
Waterways Experiment
Station



Waterways Experiment Station Cataloging-in-Publication Data

List of publications of the U.S. Army Engineer Waterways Experiment Station / by Information Technology Laboratory, U.S. Army Corps of Engineers, Waterways Experiment Station.

2 v. : ill. ; 28 cm. -- (Miscellaneous paper ; ITL-93-1)

"The List of Publications was updated and compiled in the Research Library ... by Alfreda S. Clark."--p. x.

1. U.S. Army Engineer Waterways Experiment Station -- Bibliography. 2. Hydraulic engineering -- Bibliography. 3. Military engineering -- Bibliography. 4. Civil engineering -- Bibliography. 5. Environmental engineering -- Bibliography. 6. Information technology -- Bibliography. 7. Coastal engineering -- Bibliography. I. Clark, Alfreda S. II. Information Technology Laboratory (US Army Corps of Engineers, Waterways Experiment Station) III. U.S. Army Engineer Waterways Experiment Station. IV. Series: Miscellaneous paper (U.S. Army Engineer Waterways Experiment Station) ; ITL-93-1. TA7 W34m no.ITL-93-1

Contents

Preface	vi
Reports of the U.S. Army Engineer Waterways Experiment Station	
Coastal Engineering Research Center	CERC-1
Coastal Engineering Technical Notes	CERC-2
Contract Reports	CERC-12
Information Exchange Bulletins	CERC-13
Instruction Reports	CERC-14
Miscellaneous Papers	CERC-16
Technical Reports	CERC-28
Wave Information Studies of U.S. Coastline	CERC-42
Unnumbered	CERC-45
Dredging Research Program	
Contract Reports	CERC-46
Dredging Research Technical Notes	CERC-47
Information Exchange Bulletins	CERC-50
Miscellaneous Papers	CERC-51
Technical Reports	CERC-52
Unnumbered	CERC-54
Environmental Laboratory	EL-1
Contract Reports	EL-2
Instruction Reports	EL-3
Miscellaneous Papers	EL-5
Technical Reports	EL-22
Aquatic Plant Control Research Program	
Information Exchange Bulletins	EL-52
Instruction Reports	EL-53
Miscellaneous Papers	EL-54
Technical Reports	EL-60
Environmental Effects of Dredging Program	
Contract Reports	EL-66
Technical Notes	EL-67
Information Exchange Bulletins	EL-74
Instruction Reports	EL-76
Miscellaneous Papers	EL-77
Technical Reports	EL-81
Unnumbered	EL-87

Water Operations Technical Support Program	
Information Exchange Bulletins	EL-89
Instruction Reports	EL-91
Miscellaneous Papers	EL-93
Technical Reports	EL-97
Recreation Research Program	
Information Exchange Bulletins	EL-106
Instruction Reports	EL-108
Miscellaneous Papers	EL-109
Technical Reports	EL-112
Environmental Protection Agency/Corps of Engineers	
Technical Committee on Criteria for Dredged and Fill Material	
Technical Reports	EL-113
Wetlands Research Program	
Contract Reports	EL-114
Information Exchange Bulletins	EL-115
Technical Notes	EL-116
Technical Reports	EL-118
Unnumbered	EL-120
Environmental Impact Research Program	
Information Exchange Bulletins	EL-121
Unnumbered	EL-122
Zebra Mussel Research Program	
Technical Notes	EL-123
Geotechnical Laboratory	
Contract Reports	GL-2
Instruction Reports	GL-3
Miscellaneous Papers	GL-5
Technical Reports	GL-32
Video Reports	GL-59
Unnumbered	GL-60
Soil Mechanics Information Analysis Center	
Information Exchange Bulletins	GL-61
Hydraulics Laboratory	
Contract Reports	HL-2
Instruction Reports	HL-3
Miscellaneous Papers	HL-4
Technical Reports	HL-11
Video Reports	HL-37
Information Technology Laboratory	
Contract Reports	ITL-2
Information Exchange Bulletins	ITL-3
Instruction Reports	ITL-4
Miscellaneous Papers	ITL-7
Technical Reports	ITL-8

Structures Laboratory	
Contract Reports	SL-2
Instruction Reports	SL-4
Miscellaneous Papers	SL-5
Technical Reports	SL-21
Concrete Structures	
Information Exchange Bulletins	SL-47
Automation Technology Center	
Instruction Reports	ATC-2
Miscellaneous Papers	ATC-6
Technical Reports	ATC-7
Miscellaneous Subjects	
Information Exchange Bulletins	MS-2
Instruction Reports	MS-3
Miscellaneous Papers	MS-4
Technical Reports	MS-6
Construction Productivity Advancement Program	
Technical Reports	MS-7
Repair, Evaluation, Maintenance, and Rehabilitation	
Research Program	
Information Exchange Bulletins	MS-8
Miscellaneous Papers	MS-9
Technical Reports	MS-10
Video Reports	MS-19
WES Laboratory History Series	MS-20
Potamology Investigations	
Potamology Program (P-I)	PI-1
Reports Prepared or Published and Distributed by	
U.S. Army Engineer Waterways Experiment Station	
for Other Agencies	
Air Base Survivability Systems Management	
Office Headquarters	Z-1
Airport Operators Council International and	
Federal Aviation Administration	Z-1
U.S. Army Corps of Engineers National Flood	
Proofing Committee	Z-1
U.S. Naval Facilities Engineering Command	Z-1
U.S. Army Toxic and Hazardous Material Agency	Z-1
U.S. Corps of Engineers, U.S. Bureau of Reclamation,	
Tennessee Valley Authority, and Bonneville	
Power Administration	Z-1

Tennessee Valley Authority, U.S. Army Corps of Engineers Waterways Experiment Station, and U.S. Army Engineer District, Nashville	Z-3
U.S. Army Corps of Engineers, U.S. Bureau of Reclamation, U.S. Federal Highway Administration, U.S. Environmental Protection Agency, and U.S. Soil Conservation Service	Z-3

Preface

Description of Contents

Publications issued during the period January 1979 through June 1993 by the U.S. Army Engineer Waterways Experiment Station (WES) are listed herein and indexed according to the key-word-out-of-context method. Index terms are extracted from the report titles; one to four terms have been selected from each title. The publications are grouped according to the technical laboratories or technical support element that prepared them¹; these laboratories and support element and their primary fields of interest are as follows:

Coastal Engineering Research Center: Research on waves, wind, water levels, tides, currents and the resultant coastal processes; interaction of these forces and processes with shores, beaches, inlets, inner continental shelves, and coastal and offshore structures; shore and beach erosion control; flooding and storm protection; the location, design, construction, and operation of coastal harbors and coastal and offshore structures; and navigational improvements.

Environmental Laboratory: Reports on research regarding the environmental impacts of activities of the Corps and other government agencies. Studies on environmental inventories and assessment of alternatives in constructing, operating, and maintaining authorized navigation channels; guidelines for recreation and roadside rest area waste treatment; feasibility of chemical fixation of hazardous waste; evaluation of overland flow mode of wastewater treatment; ecosystem research and simulation; and results of the Aquatic Plant Control Research Program, Drifted Material Research Program, Recreation Research Program, and Environmental and Water Quality Operational Studies.

Geotechnical Laboratory: Research studies in soil and rock mechanics; earthquake engineering; foundation design; engineering geology; vehicle mobility; and pavement technology by means of field investigations, laboratory studies, and office analysis.

¹ Volume I consists of all reports published under the series numbers that existed prior to the reorganization and of all miscellaneous subject reports. This volume, Volume II, includes all reports published under the series numbers established after the reorganization.

Hydraulics Laboratory: River, tidal, wave action, and structural hydraulics studies conducted by office analysis, laboratory experiment, mathematical modeling, and field measurement.

Information Technology Laboratory: Conceives, plans, manages, conducts, and coordinates research and development in the Information Management (IM) technology areas that include computer science, automation and associated fields; voice, video, data and satellite communications; audiovisual; information library and records management; printing and publications; and interdisciplinary engineering computer areas.

Structures Laboratory: Research studies of construction materials, methods, and equipment; laboratory and field investigations of concrete control, and of concrete, grouts, and grouting; studies of dynamic properties of soil and rock masses; and theoretical, analytical, and experimental studies of the design of protective structures and of underwater shock effects. Also, studies of use of explosives for excavation; emplacement of nuclear devices; crater dimensions, slopes, and throwout; safety and side effects of explosives; theoretical and model studies of hydraulic properties of explosive-excavated channels; finite element analysis of stress distributions beneath explosive-excavated slopes; small-scale studies.

Automation Technology Center: User guides for practical, user-oriented, and well tested engineering programs; analyses of problems to determine the feasibility of digital computer solutions; and theory of how to solve various engineering problems incorporating the use of computer programs and routines.

Certain reports on related subjects such as hydrology, instrumentation, etc., are listed under the heading "Miscellaneous Subjects." The general types of Waterways Experiment Station publications currently issued are Instruction Reports, Miscellaneous Papers, and Technical Reports. These are briefly identified as follows:

Instruction Reports: Reports in which new or revised techniques and/or procedures are outlined or proposed for accomplishing a particular engineering feat.

Miscellaneous Papers: Reports of minor investigations of limited scope and/or interest; reports prepared for publication by other agencies; papers prepared for professional journals; interoffice and intraoffice memoranda of sufficient importance to warrant making of record; or memoranda concerning technical investigations written for record purposes only.

Technical Reports: Reports of major engineering and/or scientific investigations. All technical reports are numbered with the exception of preliminary reports (which may also be designated as progress or interim reports) and certain final reports describing studies of limited scope.

Distribution

Publications of the Waterways Experiment Station and other Corps of Engineers offices are distributed primarily to Department of Defense agencies and certain other agencies having an interest in the work reported. Copies remaining after the initial distribution will be furnished without charge to Federal Government agencies on request until the supply of the particular item is exhausted. Nonrestricted reports are available to the general public on request until the supply is exhausted. Thereafter, copies can be obtained on loan from the Research Library, Information Center, Information Management Division, Information Technology Laboratory, Waterways Experiment Station.

A number of reports in this list are footnoted "Statement B. See Preface." Distribution or loan of reports so footnoted is limited to U. S. Government agencies only unless permission for release can be obtained in special cases from the controlling office.

Library Loan

Library copies of all publications listed herein (except as otherwise noted), including out-of-print items and any other engineering literature on file in the Research Library, are available to Department of Defense agencies on loan from the Research Library.

The library loan privilege is also extended to other Federal and State agencies, scientific and educational institutions, and established engineering or industrial firms. In such cases, the loan period is usually limited to 30 days. Individuals not connected with the Department of Defense can usually arrange for library loan either through the library of their business concerns or through the inter-library loan services of their local libraries. Lending to persons outside the continental limits of the United States is not done because of the extended time periods involved and risk of loss of publications in transit. All matters concerning the distribution or loan of Waterways Experiment Station publications or of publications published and distributed by the Waterways Experiment Station for other agencies should be addressed to the Commander, U.S. Army Engineer Waterways Experiment Station, ATTN: WESIM-MI-R, 3909 Halls Ferry Road, Vicksburg, MS 39180-6199; telephone (601)634-2571.

Purchase of Publications

Reports listed in this volume having AD numbers can be purchased from the National Technical Information Service, U. S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161; telephone (703)487-4650. Costs of hard copies or microfiche copies of such reports are available from NTIS on request.

Acknowledgement

The List of Publications was updated and compiled in the Research Library, Information Center, Information Technology Laboratory, by Alfreda S. Clark.

Coastal Engineering Research Center

Coastal Engineering Research Center

Coastal Engineering Technical Notes*

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Waves and Coastal Flooding	
CETN-I-1	Dec 1988	Computer Program: PCDFRAC - Combined Reflection and Diffraction by a Vertical Wedge-Shaped Structure	
CETN-I-2	Sep 1979	Computer Program GODAS: Waves and Wave Setup	
CETN-I-3	Jan 1981	Confidence Limits on Predicted Values	
CETN-I-4	Mar 1989	Computer Program NARFET: Wind-Wave Generation on Restricted Fetches	
CETN-I-5	Mar 1985	Reliability of Long-Term Wave Conditions Predicted with Data Sets of Short Duration	
CETN-I-6	Mar 1985	Directional Wave Spectra Using Normal Spreading Functions	
CETN-I-7	Sep 1984	Surface Current Measurements Using a Microwave Scatterometer	
CETN-I-8	Jun 1986	LEO (Littoral Environment Observations)	
CETN-I-9	Dec 1989	Modification to Sea Data Wave Gages for Coastal Use	
CETN-I-10	Nov 1983	Clarification of Wave Height Parameters	
CETN-I-11	Mar 1990	A Remote Measurement System for Monitoring Waves and Currents at an Offshore Dredge Disposal Site	
CETN-I-12	Dec 1987	Defining Tidal Datums	
CETN-I-13	Mar 1989	Calculating Tidal Elevation Probabilities	
CETN-I-14	Nov 1981	Selected Tidal Values for Design	
CETN-I-15	Mar 1990	Irregular Wave Runup on Beaches	
CETN-I-16	Jun 1986	Computer Program: Storm Surge	
CETN-I-17	Jun 1985	Direct Methods for Calculating Wavelength	

* The Coastal Engineering Technical Notes (CETN's) are offered for sale to the general public. The cost is \$60.00 which includes shipping and handling. The cost for foreign requests is \$65.00 which includes shipping and handling. All recipients of the CETN's are automatically added to the distribution list to receive the Quarterly Supplements free of charge.

Coastal Engineering Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Waves and Coastal Flooding (Cont.)	
CETN-I-18	Mar 1988	Irregular Wave Diffraction by Goda's Method	
CETN-I-19		Canceled	
CETN-I-20	Sep 1982	Atlantic Coast Water Level Predictions	
CETN-I-21		Canceled	
CETN-I-22		Canceled	
CETN-I-23	Jun 1993	Coastal Engineering Data Retrieval System (CEDRS)	
CETN-I-24		Canceled	
CETN-I-25		Canceled	
CETN-I-26	Mar 1993	Remote Sensing Techniques for Measuring Ocean Waves	
CETN-I-27		Canceled	
CETN-I-28	Jun 1993	Directional Wave Spectra Using Cosine-Squared and Cosine 2S Spreading Functions	
CETN-I-29	Jun 1985	Computer Programs for Harbor Resonance	
CETN-I-30	Jun 1985	CURRENT: A Computer Model for Wave-Induced Currents and Setups	
CETN-I-31		Canceled	
CETN-I-32		Canceled	
CETN-I-33	Dec 1985	Wave Refraction and Shoaling Computer Program: TWAVE2	
CETN-I-34		Canceled	
CETN-I-35		Canceled	
CETN-I-36	Dec 1985	Estimate of Hurricane Winds for the East and Gulf Coasts of the United States	
CETN-I-37		Canceled	
CETN-I-38		Canceled	
CETN-I-39		Canceled	
CETN-I-40		Canceled	

Coastal Engineering Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Waves and Coastal Flooding (Cont.)			
CETN-I-41	Jun 1986	High Frequency Radar Measurement of Coastal Ocean Parameters	
CETN-I-42	Sep 1986	Computer Program: RCWAVE	
CETN-I-43	Jun 1987	Spectral Analysis of Digital Wave Data Computer Program: SPECTRUM	
CETN-I-44	Jun 1987	Simulation of Arbitrary Depth Ocean Wave Spectra for Tropical and Extratropical Storm	
CETN-I-45	Mar 1991	Clarification of Wave Heights from Wave Information Studies (WIS)	
CETN-I-46	Dec 1991	Management of the Field Wave Gaging Program Data Base	
CETN-I-47	Dec 1991	NMLONG: Numerical Model to Simulate Wave Transformation and Longshore Current	
CETN-I-48	Dec 1991	Evaluation and Application of the Wave Information Study for the Gulf of Mexico	
CETN-I-49	Dec 1991	Evaluation and Application of the Wave Information Study for the Northern Pacific Ocean	
CETN-I-50	Dec 1991	Broken Wave Forces	
CETN-I-51	Jun 1992	Revised Wave Information Study (WIS) Results for the U. S. Atlantic Coast, 1956 - 1975	
CETN-I-52	Dec 1992	Longshore Transmission of Reflected Waves	
CETN-I-53	Sep 1992	Importance of Directional Spreading of Waves in the Nearshore Region	
CETN-I-54	Sep 1992	Capabilities in Harbor Design and Monitoring: A Case Study	
CETN-I-55	Mar 1993	Availability of NDBC/NOAA Data at WES	
Beach Behavior and Restoration			
CETN-II-1	Dec 1987	The Streamer Trap	
CETN-II-2	Sep 1990	Prediction of Eroded Versus Accreted Beaches	
CETN-II-3	Mar 1981	Field Estimation of Longshore Sediment Transport Along the California Coast	

CERC-4

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Beach Behavior and Restoration (Cont.)			
CETN-II-4	Jun 1981	Fall Velocity of Beach Sands	
CETN-II-5	Oct 1981	Selecting Construction Profiles for Initial Placement of Beach Fills	
CETN-II-6	Mar 1992	Beach-Fill Transitions	
CETN-II-7		Canceled	
CETN-II-8	Jun 1982	Low-Cost Procedure for Measuring Shoreline Change	
CETN-II-9	Jan 1983	Pile Profile Method for Beach Surveys	
CETN-II-10	Jun 1988	N-Line (Bathymetric Changes) Model	
CETN-II-11	Jun 1985	Sediment Size and Fall Velocity Effects on Longshore Sediment Transport	
CETN-II-12	Mar 1986	The Remotely Operated Sediment Coring Device (ROSCO)	
CETN-II-13	Mar 1986	Measuring Shoreline Change	
CETN-II-14	Jun 1988	Sonic Sifting: A Flat and Efficient Method for Sand Size Analysis	
CETN-II-15	Sep 1986	Overfill and Renourishment Factors	
CETN-II-16	Jun 1987	Two-Person Rapid Beach Survey Method	
CETN-II-17	Mar 1989	Jet Pump Sand Bypassing - Case Study I: Nerang River Entrance, Australia	
CETN-II-18	Jun 1989	Application of Movable-Bed Physical Models to Predict Storm-Induced Erosion	
CETN-II-19	Jun 1989	Estimating Potential Longshore Sand Transport Rates Using WIS Data	
CETN-II-20	Sep 1989	Physical Monitoring of Nearshore Sand Berms	
CETN-II-21	Mar 1990	Computer Program: GENESIS Version 2.0	
CETN-II-22	Jun 1990	A Remote Sensing System for Monitoring Beach Morphology	
CETN-II-23	Sep 1990	A Remote Sensing System for Measuring Runup	
CETN-II-24	Mar 1991	Practical Considerations in Longshore Transport Rate Calculations	

Coastal Engineering Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Beach Behavior and Restoration (Cont.)			
CETN-II-25	Mar 1991	Computer Program: BERM (<u>B</u> each <u>P</u> rofile <u>R</u> e- <u>M</u> older)	
CETN-II-26	Dec 1991	Recommended Physical Data Collection Program for Beach Nourishment Projects	
CETN-II-27	Dec 1991	Shoreline Modeling System (SMS), Version I	
CETN-II-28	Dec 1991	The Coastal Modeling System: A System of Numerical Models and Support Programs	
CETN-II-29	Dec 1991	Native Beach Assessment Techniques for Beach Nourishment	
CETN-II-30	Mar 1992	Using Morphology to Determine New Littoral Drift Directions in Complex Coastal Systems	
Coastal Structures			
CETN-III-1	Jun 1985	Riprap Revetment Design	
CETN-III-2	Sep 1985	Runup on Composite Rough Slopes	
CETN-III-3	Feb 1980	Use of Geotechnical Fabrics	
CETN-III-4	Mar 1985	Armor Unit Placement Method Versus Stability Coefficients	
CETN-III-5	Jan 1981	Beach Dune Walkover Structures	
CETN-III-6	Mar 1981	Shore Protection Selection Criteria	
CETN-III-7	Mar 1981	Bulkheads--Their Applications and Limitations	
CETN-III-8	Mar 1981	Seawalls--Their Applications and Limitations	
CETN-III-9	Mar 1981	Revetments--Their Applications and Limitations	
CETN-III-10	Mar 1981	Groins--Their Applications and Limitations	
CETN-III-11	Mar 1981	Protective Beaches--Their Applications and Limitations	
CETN-III-12	Jun 1981	Groin System Transitions	
CETN-III-13	Sep 1984	Walkway Constructed on Rubble Coastal Structures	
CETN-III-14	Dec 1987	Protecting Timber Piles in Seawater Environments	
CETN-III-15	Mar 1988	Geotechnical Sampling Guidelines for Rubble-Mound Coastal Structures	

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Coastal Structures (Cont.)			
CETN-III-16	Nov 1983	Side-Scan Sonar for Inspecting Coastal Structures	
CETN-III-17	Dec 1984	Plastic Piling Jacket for Ice Protection	
CETN-III-18	Apr 1983	Spacing Reinforcement in Armor Units	
CETN-III-19	Dec 1990	Availability of Concrete Armor Unit Forms	
CETN-III-20	Nov 1983	Design and Construction Practices for Coastal Buildings	
CETN-III-21	Apr 1984	Monitoring Rubble-Mound Coastal Structures with Photogrammetry	
CETN-III-22	Apr 1984	Use of Segmented Offshore Breakwaters for Beach Erosion Control	
CETN-III-23	Sep 1990	An Empirical Method for Design of Breakwaters as Shore Protection Structures	
CETN-III-24	Nov 1984	Use of Bitumen in Coastal Structures	
CETN-III-25	Mar 1985	Determining Lengths of Return Walls	
CETN-III-26		Canceled	
CETN-III-27		Canceled	
CETN-III-28	Jun 1986	Sand Sealing of Coastal Structures	
CETN-III-29	Dec 1990	Wave Forces on a Wall Shoreward of the Still-Water Line	
CETN-III-30		Canceled	
CETN-III-31	Dec 1986	Use of Gabions in the Coastal Environment	
CETN-III-32		Canceled	
CETN-III-33	Jun 1987	Surveillance Checklist for Load-Bearing Pile Construction	
CETN-III-34	Jun 1987	Checking Stability of Bulkheads Located in Ports, Harbors and Coastal Waterways Against Shear Failure Computer Program: UTEXAS2	
CETN-III-35	Jun 1987	Crane Survey of Submerged Rubble-Mound Coastal Structures	
CETN-III-36	Jun 1987	Case History of Breakwater/Jetty Repair; Chemical Grout Sealing of Palm Beach Harbor South Jetty, Florida	

Coastal Engineering Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Coastal Structures (Cont.)			
CETN-III-37	Sep 1987	Sizing of Toe Berm Armor Stone on Rubble-Mound Breakwater and Jetty Trunks Designed for Depth-Limited Breaking Waves	
CETN-III-38	Mar 1988	Breaking Wave Forces on Walls	
CETN-III-39	Mar 1988	Design of Rubble Foundations and Rubble Toe Protection	
CETN-III-40	Jun 1988	Revetment Failure-An Australian Lesson	
CETN-III-41	Mar 1991	Surveys of Coastal Structures	
CETN-III-42	Mar 1993	Movement and Static Stresses in Dolosse	
CETN-III-43	Sep 1991	Empirical Methods for the Functional Design of Detached Breakwaters for Shoreline Stabilization	
CETN-III-44	Dec 1991	Effects of Reflective Walls in Harbors - A Case Study	
CETN-III-45	Dec 1991	Baffled Breakwater for Limited-Fetch Sites	
CETN-III-46	Mar 1992	Summary of Seawall and Beach Interaction at Monterey Bay, California	
CETN-III-47	Mar 1992	Experience with Sand-Tightened Coastal Structures	
CETN-III-48	Jun 1992	Shoreline Response to Redington Shores, Florida, Breakwater	
CETN-III-49	Jun 1992	Small-Boat Harbor Design Experience (Lesson Learned) Through Physical Modeling and Subsequent Prototype Performance	
CETN-III-50	Jun 1992	Monitoring Completed Coastal Projects - Lessons Learned I	
CETN-III-51	Sep 1992	Physical Modeling Guidelines for Coastal Harbors	
Inlets and Estuary Channels			
CETN-IV-1	Jun 1987	Computer Program INLET	
CETN-IV-2	Oct 1981	Offshore Tide Gage for Ocean Bar Dredging	
CETN-IV-3	Nov 1981	Effects of a Single Jetty on a Tidal Navigation Channel	
CETN-IV-4	Nov 1983	Dead-End Channel Flushing in Harbors	

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Inlets and Estuary Channels (Cont.)			
CETN-IV-5	Mar 1991	Interpreting Historic Dredging Data and Bathymetric Surveys to Support Recommendations for Altering Dredging	
CETN-IV-6	Mar 1992	Bibliography for Shallow Draft Coastal Port Design	
CETN-IV-7	Mar 1993	Application of a BroadBand Acoustic Doppler Current Profiler for Tidal Current Measurements at Coastal Inlets	
Coastal Ecology			
CETN-V-1	Sep 1979	Sand Stabilization with American Beachgrass on North Atlantic and Great Lakes Coasts	
CETN-V-2	Nov 1981	Erosion Control and Habitat Development with Smooth Cordgrass on the Gulf and Atlantic Coasts	
CETN-V-3	Dec 1981	Biological Effects of Beach Restoration on the Florida Gulf Coast	
CETN-V-4	Mar 1980	Bank Erosion Control with Pacific Cordgrass on the Southern Pacific Coast (Humboldt Bay to Mexico)	
CETN-V-5	Sep 1980	Biological Effects of Beach Restoration Projects on the South Atlantic U. S. Coast	
CETN-V-6	Sep 1980	Biological Effects on a Rubble-Mound Structure on the California Coast	
CETN-V-7	Jan 1981	Biological Effects of Beach Restoration on the Southern California Coast	
CETN-V-8	Jan 1981	Recommended Scales of Aerial Photography for Mapping Barrier Island Vegetation	
CETN-V-9	Mar 1981	Migration of Fish and Invertebrates Across a Weir of a Weir Jetty	
CETN-V-10	Jun 1981	Eelgrass Planting Guidelines, Pacific Coast and Atlantic Coast North of Beaufort, North Carolina	
CETN-V-11	Jun 1981	Seagrass Planting Guidelines, Atlantic Coast South of Cape Canaveral, Florida, and Gulf Coast	
CETN-V-12	Nov 1981	Value of Pacific Northwest Salt Marshes	
CETN-V-13	Dec 1981	Short-Term Biological Effects of Nearshore Jetty Construction	

Coastal Engineering Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Coastal Ecology (Cont.)	
CETN-V-14	Jun 1982	Biological Effects of Beach Restoration with Dredged Material on the Mid-Atlantic Coast	
CETN-V-15	Dec 1982	Dune Grass Fertilization and Maintenance	
CETN-V-16	Dec 1982	Biological Effects of Beach Restoration on the Great Lakes Shoreline	
CETN-V-17	Jan 1983	Coastal Pier Construction Impacts on a Mid-Atlantic Barrier Island	
CETN-V-18	Feb 1984	Biological Effects of Jetty Construction on Coastal Marine Communities	
CETN-V-19	Apr 1984	Seagrass Planting Guidelines for the Pacific, Gulf, and Atlantic Coasts	
CETN-V-20	Mar 1985	Biological Effects of Breakwater Construction on Aquatic Communities in the Great Lakes	
CETN-V-21	Dec 1985	Bibliography on Sea Turtles for Personal Computers	
CETN-V-22	Dec 1986	Sampling Fisheries Resources at Murrells Inlet, South Carolina	
		Miscellaneous Subjects	
CETN-VI-1	Feb 1980	A Device for Cutting Sediment Core Liners	
CETN-VI-2	Feb 1980	Sediment Sample Card	
CETN-VI-3	Sep 1991	Waterways Experiment Station Library	
CETN-VI-4	Jun 1992	Coastal Engineering Contacts in the Corps of Engineers	
CETN-VI-5	Jan 1981	Guidelines for Planning Beach Surveys	
CETN-VI-6	Sep 1990	Emerging Hydrographic Survey Technology: The Scanning Hydrographic Operational Lidar Survey System	
CETN-VI-7	Aug 1981	Sediment Sample Collection	
CETN-VI-8	Oct 1981	Use of a 35 mm Camera for Vertical Aerial Photography	
CETN-VI-9	Dec 1981	Remote Sensing Applications Guide	
CETN-VI-10	Jan 1982	Metric (SI) Standard or Design	

CERC-10

Coastal Engineering Research Center

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Miscellaneous Subjects (Cont.)			
CETN-VI-11	Mar 1982	Use of Vibratory Corers for Coastal Zone Sediment Sampling	
CETN-VI-12		Canceled	
CETN-VI-13	Jun 1982	Computer Programs with Coastal Engineering Applications	
CETN-VI-14		Canceled	
CETN-VI-15	Jun 1992	List of Coastal ER's, EM's, and ETL's	
CETN-VI-16	Mar 1989	Microcomputer Applications for Coastal Engineering (MACE)	
CETN-VI-17	Mar 1985	Heave Compensation for Hydrographic Surveying	
CETN-VI-18	Sep 1992	The Coastal Modeling System: A System of Numerical Models and Support Programs	
CETN-VI-19	Jun 1987	Forms and Causes of Galvanic Corrosion in the Coastal Environment	
CETN-VI-20	Dec 1992	Automated Coastal Engineering System (ACES)	
CETN-VI-21	Mar 1988	Data Collection and Testing Tool: SAUDAS	
CETN-VI-22	Dec 1990	ISRP-PC: A Personal Computer Interactive Survey Reduction Program	
CETN-VI-23	Mar 1991	Developing Monitoring Plans for Completed Coastal Projects	
CETN-VI-24	Mar 1992	COASTNET: A Computer-Conferencing Network	
CETN-VI-25	Dec 1992	Airborne Coastal Current Evaluation Survey System	
CETN-VI-26	Mar 1993	Helicopter-Borne Nearshore Survey System	

Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR CERC-88-1	Jul 1988	New Methods of Constructing Scale Model Armor Units, by R. J. Richter	AD A198 733
CR CERC-88-2	Jul 1988	Long Term Sand Cap Stability: New York Dredged Material Disposal Site, by J. H. Parker and R. M. Valente	AD A198 651
CR CERC-89-1	Sep 1989	Wave Dissipation on a Barred Beach: A Method for Determining Sand Bar Morphology, by T. C. Lippmann and R. A. Holman	AD A213 527
CR CERC-90-1	Feb 1990	Economic Evaluation of Proposed Helicopter Lidar Bathymeter System, by Richard Golaszewski, David Barol, Joseph Phillips, et al.	AD A218 786
CR CERC-90-2	Jun 1990	Helicopter Lidar Bathymeter System; Conceptual Design, by Optech, Inc.	AD A227 057
CR CERC-90-3	Oct 1990	Estimating Runup on Beaches: A Review of the State of the Art, by S. L. Douglass	AD A229 516
CR CERC-91-1	Apr 1991	Beach Response to the Presence of a Seawall; Comparison of Field Observations, by J. F. Tait and G. B. Griggs	AD A237 709
CR CERC-91-2	Oct 1991	Informal Monograph on Riverine Sand Dunes, by J. F. Kennedy and J. A. Odgaard	AD A243 559
CR CERC-92-1	Sep 1992	Unified Program for the Specification of Hurricane Boundary Layer Winds Over Surfaces of Specified Roughness, by V. J. Cardone, C. V. Greenwood, and J. A. Greenwood	AD A257 462

Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CERC-84-1 thru CERC-84-3	May 1984 thru Oct 1984	The CERCUlar The CERCUlar	
CERC-85-1 thru CERC-85-4	Mar 1985 thru Nov 1985	The CERCUlar The CERCUlar	
CERC-86-1 thru CERC-86-3	Mar 1986 thru Nov 1986	The CERCUlar The CERCUlar	
CERC-87-1 thru CERC-87-3	Mar 1987 thru Nov 1987	The CERCUlar The CERCUlar	
CERC-88-1 thru CERC-88-4	Mar 1988 thru Nov 1988	The CERCUlar The CERCUlar	
CERC-89-1 thru CERC-89-4	Mar 1989 thru Dec 1989	The CERCUlar The CERCUlar	
CERC-90-1 thru CERC-90-4	Mar 1990 thru Dec 1990	The CERCUlar The CERCUlar	
CERC-91-1 thru CERC-91-4	Mar 1991 thru Dec 1991	The CERCUlar The CERCUlar	
CERC-92-1 thru CERC-92-4	Mar 1992 thru Dec 1992	The CERCUlar The CERCUlar	
CERC-93-1 thru CERC-93-2	Mar 1993 thru Jun 1993	The CERCUlar The CERCUlar	

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR CERC-84-1	Nov 1984	A User's Guide to ISRP: The Interactive Survey Reduction Program, by William Birkemeier	AD A151 160
IR CERC-85-1	May 1985	A User's Guide to the Coastal Engineering Research Center's (CERC's) Field Research Facility, by W. A. Birkemeier, H. C. Miller, S. D. Wilhelm, A. E. DeWall, and C. S. Gorbics	AD A157 966
IR CERC-85-2	May 1985	Application of the Dutch Method for Estimating Storm-Induced Dune Erosion, by F. E. Sargent and W. A. Birkemeier	AD A156 717
IR CERC-86-1	Jun 1986	A User's Guide to a Steady-State Shallow-Water Directional Spectral Wave Model, by J. M. Hubertz	AD A171 023
IR CERC-86-2		A User's Guide to SHALWV: Numerical Model for Simulation of Shallow-Water Wave Growth, Propagation, and Decay:	
	Jun 1986	Report 1 by S. A. Hughes and R. E. Jensen	AD A171 638
	Jun 1987	Report 2 SHALWV--Hurricane Wave Modeling and Verification, by R. E. Jensen, C. L. Vincent, and C. E. Abel	AD A183 906
IR CERC-86-3	Jun 1986	WAVERTF: Wave Propagation Over Obstacles and Irregular Topography; A User's Manual, by H. S. Chen and W. A. Brown	AD A170 886
IR CERC-87-1	Feb 1987	Geotechnical Engineering in the Coastal Zone, by James Eckert and Gordon Callender	AD A180 016
IR CERC-87-2	Apr 1987	Calculation of Water Oscillation in Coastal Harbors; HARBS and HARBD User's Manual, by H. S. Chen and J. R. Houston	AD A180 543
IR CERC-87-3	Apr 1987	A User's Guide to the Littoral Environment Observation Retrieval System, by A. R. Sherlock and Andy Szuwalski	AD A181 672
IR CERC-87-4	Aug 1987	A User's Guide to the N-Line Model: A Numerical Model to Simulate Sediment Transport in the Vicinity of Coastal Structures, by N. W. Scheffner and J. D. Rosati	AD A185 280
IR CERC-90-1	Mar 1990	Quality Control and Management of Oceanographic Wave-Gage Data, by Andrew Morang	AD A220 769

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR CERC-91-1	Sep 1991	Coastal Modeling System (CMS) User's Manual, by M. A. Cialone	AD A268 639
	Aug 1992	Supplement 1 by M. A. Cialone, D. J. Mark, L. W. Chou, et al.	AD A268 830
IR CERC-92-1	Aug 1992	User's Guide to the Shoreline Modeling System (SMS), by M. B. Gravens	AD A256 243
IR CERC-93-1	Feb 1993	Review of Geologic Data Sources for Coastal Sediment Budgets, by E. P. Meisburger	AD A262 158
IR CERC-93-2		SBEACH: Numerical Model for Simulating Storm-Induced Beach Change:	
	May 1993	Report 3 Users Manual by J. D. Rosati, R. A. Wise, N. C. Kraus, and Magnus Larson	AD A267 191

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-83-1	Sep 1983	Prototype Tidal Data Analysis for Mississippi Sound and Adjacent Areas, by D. G. Outlaw	AD A134 071
MP CERC-83-2		The Development of a Numerical Solution to the Transport Equation:	
	Sep 1983	Report 1 Methodology, by R. A. Schmalz, Jr.	AD A134 829
	Sep 1983	Report 2 Computational Procedures, by R. A. Schmalz, Jr.	AD A134 830
	Sep 1983	Report 3 Test Results, by R. A. Schmalz, Jr.	AD A134 026
MP CERC-83-3	Sep 1983	Nearshore Current Model Workshop Summary, by J. M. Hubertz	AD A134 702
MP CERC-83-4	Oct 1983	An Investigation of Scour Protection for Small Footings in the Nearshore Zone, by A. E. DeWall	AD A134 701
	Jan 1984	Errata Sheet No. 1	
MP CERC-83-5	Dec 1983	Beach Changes at Milford and Fairfield Beaches, Connecticut, 1962-1971, by R. W. Morton, W. F. Bohlen, and D. G. Aubrey	AD A137 253
MP CERC-83-6	Nov 1983	Sedimentation Investigation at Masirah Island, Oman, by C. H. Everts, A. W. Garcia, and E. P. Meisburger	AD A137 142
MP CERC-83-7	Dec 1983	Sediment Budget Calculations, Oceanside, California, by J. R. Weggel and G. R. Clark	AD A137 395
MP CERC-83-8	Dec 1983	Shoreline Erosion Study, Pleasure Island, Texas, by Curtis Mason, William Grogg, and Stephen Wheeler	AD A138 653
MP CERC-83-9		Handheld Calculator Algorithms for Coastal Engineering: Reports 1 and 2 in this series were published as CETA 82-1 and 82-4 (see Volume I)	
	Dec 1983	Report 3 by J. L. Dean and T. L. Walton, Jr.	AD A138 369
	Apr 1985	Report 4 by J. L. Dean and T. L. Walton, Jr.	AD A156 170
MP CERC-83-10	Dec 1983	Reconnaissance Report on Coastal Erosion at Fort Ord, California, by O. P. Smith	AD A137 419

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Jan 1984	Proceedings of the 40th Meeting of the Coastal Engineering Research Board; 18-20 October 1983; North Falmouth, Massachusetts, edited by R. W. Whalin	
MP CERC-84-1	Jan 1984	Los Angeles and Long Beach Harbors Model Study; Resonant Response of the Harbors for Phase I of the Los Angeles Deep-Draft Dry Bulk Export Terminal, by R. R. Bottin, Jr., and D. G. Outlaw	AD A138 940
Unnumbered	Mar 1984	Bibliography of Publications Prior to July 1983 of the Coastal Engineering Research Center and the Beach Erosion Board, by Andre Szuwalski and Stephen Wagner	AD A145 404
MP CERC-84-2	Mar 1984	Breakage of Concrete Armor Units; Survey of Existing Corps Structures, by D. G. Markle and D. D. Davidson	AD A140 868
MP CERC-84-3	Mar 1984	Interpretative Analysis of Surficial Sediments as an Aid in Transport Studies of Dredged Materials, Cape Canaveral, Florida, by M. A. Ferland and L. L. Weishar	AD A140 759
MP CERC-84-4	Mar 1984	Guidelines for Predicting Maximum Nearshore Sand Level Changes on Unobstructed Beaches, by A. E. DeWall and J. A. Christenson	AD A143 443
MP CERC-84-5	Jun 1984	Los Angeles and Long Beach Harbors Model Study; Numerical Analysis of Tidal Circulation for the 2020 Master Plan, by W. C. Seabergh and D. G. Outlaw	AD A145 142
MP CERC-84-6	Jul 1984	Statistical Analysis of Visual Wave Observations and Gage/Radar Measurements, by Marc Perlin	AD A146 358
MP CERC-84-7	Jul 1984	Spatial Variability in the Nearshore Wavefield, by S. A. Hughes	AD A146 907
Unnumbered	Aug 1984	Proceedings of the 41st Meeting of the Coastal Engineering Research Board; 5-7 June 1984; Seattle, Washington	
MP CERC-84-8	Sep 1984	Modeling Wave Transformation in the Surf Zone, by W. R. Dally, R. G. Dean, and R. A. Dalrymple	AD A146 951
MP CERC-84-9	Oct 1984	Inlet Processes at Eel Pond, Falmouth, Massachusetts, by A. E. DeWall, J. A. Tarnowski, Bruce Danielson, and L. L. Weishar	AD A147 548
MP CERC-84-10	Oct 1984	Potential Effects of New Entrance Channel to Bolsa Chica Bay, California, on Unstabilized Adjacent Shorelines, by L. Z. Hales	AD A147 549
MP CERC-84-11	Sep 1984	San Pedro Breakwater Repair Study, Los Angeles, California; Hydraulic Model Investigation, by R. D. Carver	AD A149 645

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-84-12	Nov 1984	Beach Changes at Misquamicut Beach, Rhode Island, 1962-1973, by R. W. Morton, W. F. Bohlen, D. G. Aubrey, and M. C. Miller	AD A150 233
MP CERC-84-13	Nov 1984	Deepwater Wind Wave Growth with Fetch and Duration, by C. L. Vincent	AD A151 604
MP CERC-84-14	Dec 1984	The Great Lakes as a Test Model for Profile Response to Sea Level Changes, by E. B. Hands	AD A153 062
MP CERC-85-1	Feb 1985	History of Erosion and Erosion Control Efforts at Tybee Island, Georgia, by G. F. Oertel, J. E. Fowler, and Joan Pope	AD A156 163
MP CERC-85-2	Feb 1985	Numerical Model Investigation of Mississippi Sound and Adjacent Areas, by R. A. Schmalz, Jr.	AD A156 616
MP CERC-85-3	Mar 1985	Water Wave Refraction/Diffraction/Shoaling Investigation, Crescent City, California, by L. Z. Hales	AD A153 847
MP CERC-85-4	Apr 1985	Iterative and Pade Solutions for the Water-Wave Dispersion Relation, by H. S. Chen and E. F. Thompson	AD A157 796
Unnumbered	Apr 1985	Proceedings of the 42nd Meeting of the Coastal Engineering Research Board; 11-13 December 1984; Chicago, Illinois	
MP CERC-85-5	May 1985	Bechevin Bay, Alaska, Inlet Stability Study, by Y. H. Chu and H. S. Chen	AD A157 494
MP CERC-85-6	Aug 1985	Oceanographic and Meteorological Conditions During a Ship Mooring Force Study, by Curtis Mason, W. E. Grogg, Jr., and E. W. Bichner	AD A160 194
MP CERC-85-7	Jun 1985	Wave Climatology Study for Ludington Harbor, Michigan, by G. M. Horsham	AD A157 074
MP CERC-85-8	Jul 1985	Los Angeles and Long Beach Harbors Model Study; Deep-Draft Dry Bulk Export Terminal, Alternative No. 6: Resonant Response and Tidal Circulation Studies, by W. C. Seabergh	AD A159 448
Unnumbered	Aug 1985	Proceedings of the 43rd Meeting of the Coastal Engineering Research Board; 22-24 May 1985; Vicksburg, Mississippi, edited by R. W. Whalin	AD A159 991
MP CERC-85-9	Sep 1985	Side-Scan Sonar Survey of Bailey's Dam, Red River, Alexandria, Louisiana, by Joan Pope	AD A160 182

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-85-10	Sep 1985	Beach Changes on Eastern Cape Cod, Massachusetts, from Newcomb Hollow to Nauset Inlet, 1970-1974, by M. C. Miller and D. C. Aubrey (Appendixes A-F are available for loan from the Coastal Engineering Research Center, WESCW, U.S. Army Engineer Waterways Experiment Station)	AD A163 155
MP CERC-85-11	Sep 1985	Annotated Bibliography of Sediment Transport Occurring Over Ebb-Tidal Deltas, by L. L. Weishar and M. L. Fields	AD A161 548
MP CERC-85-12	Sep 1985	Evaluation of Seismometer Wave Gage and Comparative Analysis of Wave Data at Yaquina and Coquille Bays, Oregon, by E. F. Thompson, G. L. Howell, and J. M. Smith	AD A162 940
MP CERC-85-13	Sep 1985	Engineering Analysis of Beach Erosion at Homer Spit, Alaska, by O. P. Smith, J. M. Smith, M. A. Cialone, Joan Pope, and T. L. Walton	AD A165 132
MP CERC-86-1	Feb 1986	Beach Changes at Jones Beach, Long Island, NY, 1962-1974, by R. W. Morton, W. F. Bohlen, and D. G. Aubrey	AD A167 664
MP CERC-86-2	Feb 1986	Generalized Monitoring of SEASCAPE Installation at Cape Hatteras Lighthouse, North Carolina, by J. W. Forman	AD A167 339
MP CERC-86-3	Mar 1986	Floating Breakwater Prototype Test Program: Seattle, Washington, by E. E. Nelson and L. L. Broderick	AD A166 247
MP CERC-86-4	Mar 1986	An Annotated Bibliography of the Atlantic Remote Sensing Land-Ocean Experiment (ARSLOE), by S. E. Wagner and A. R. Sherlock	AD A168 073
MP CERC-86-5	Apr 1986	1984 Nearshore Surveys and Sediment Sampling, Assateague Island, Maryland, by M. W. Leffler, E. R. Smith, and Curt Mason	AD A168 726
Unnumbered	Apr 1986	Proceedings: West Coast Regional Coastal Design Conference, 7-8 November 1985, Oakland, California	AD A168 715
Unnumbered	Apr 1986	Proceedings of the 44th Meeting of the Coastal Engineering Research Board, 4-6 November 1985, Sausalito, California	AD A169 577
MP CERC-86-6	May 1986	Field Comparison of Four Nearshore Survey Systems, by J. E. Clausner, W. A. Birkemeier, and G. R. Clark	AD A169 035
MP CERC-86-7	May 1986	Calibration and Stability Characteristics of the Baylor Staff Wave Gage, by W. E. Grogg, Jr.	AD A169 607

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-86-8	Jul 1986	Stability Test of Modified Repair Options for San Pedro Breakwater, Los Angeles, California; Coastal Model Investigation, by R. C. Baumgartner, R. D. Carver, et al.	AD A171 876
MP CERC-86-9	Sep 1986	A Numerical Investigation of Astronomic Tidal Circulation in Puget Sound, by R. A. Schmalz, Jr.	AD A174 606
MP CERC-86-10	Aug 1986	Annotated Bibliography on Combined Wave Refraction and Diffraction, by P. L. -F. Liu, P. L. Boissevain, B. A. Ebersole, and N. C. Kraus	AD A175 801
MP CERC-86-11	Nov 1986	Parabolic Wave Equation for Surface Water Waves, by P. L. F. Liu	AD A175 674
MP CERC-86-12		A Numerical Investigation of Hurricane Induced Water Level Fluctuations in Lake Okeechobee:	
	Jun 1986	Report 1 Forecasting and Design, by R. A. Schmalz, Jr. (Appendixes A-G issued in separate volume)	AD A178 103
	Jun 1986	Report 2 Joint Probability Theoretics and Application, by R. A. Schmalz, Jr.	
MP CERC-86-13	Dec 1986	Drag on Naturally Rippled Beds Under Oscillatory Flows, by K. E. B. Lofquist	AD A176 862
MP CERC-86-14	Dec 1986	Yaquina Bay, Oregon, Tidal and Wave-Induced Currents Near the Jettied Inlet; Numerical Model Investigation, by M. A. Cialone	AD A179 822
Unnumbered	Dec 1986	Proceedings of the 45th Meeting of the Coastal Engineering Research Board, 14-16 May 1986, Fairbanks and Homer, Alaska	AD A179 755
MP CERC-87-1*	Dec 1987	A Method for Estimating Deterministic Water Waves Contaminated with Random Background Noise, by M. E. Andrew	AD B118 176
MP CERC-87-2	Feb 1987	Water Wave Effects at Redondo Beach King Harbor, California, by L. Z. Hales	AD A177 511
MP CERC-87-3	Feb 1987	Duck '85 Nearshore Waves and Currents Experiment, Data Summary Report, by J. M. Hubertz, C. E. Long, et al.	AD A177 419
MP CERC-87-4	Feb 1987	A Wind- and Wave-Driven Nearshore Current Model; The One-Dimensional Model, by J. M. Hubertz	AD A178 751
MP CERC-87-5	Feb 1987	Preliminary Design of a Landfill and Revetment on Bikini Island, Republic of the Marshall Islands, by O. P. Smith and Yen-hsi Chu	AD A178 304

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-87-6	Mar 1987	Evaluation of Numerical Models for a Floating Breakwater, by Kozo Bando and C. J. Sonu	AD A179 788
MP CERC-87-7	Mar 1987	Short-Term Impoundment of Longshore Sediment Transport, by K. R. Bodge and R. G. Dean	AD A182 435
MP CERC-87-8	Sep 1987	Wave Transmission Characteristics of Various Floating and Bottom-Fixed Rubber-Tire Breakwaters in Shallow Water; Experimental Model Investigation, by D. G. Markle and M. A. Cialone	AD A187 579
MP CERC-87-9	May 1987	A Numerical Model for Shoaling and Refraction of Second - Order Cnoidal Waves Over an Irregular Bottom, by T. A. Hardy and N. C. Kraus	AD A182 741
MP CERC-87-10	May 1987	A Numerical Model for Shoaling and Refraction of Third-Order Stokes Waves Over an Irregular Bottom, by M. A. Cialone and N. C. Kraus	AD A182 234
MP CERC-87-11	May 1987	Extreme Runup Statistics on Natural Beaches, by D. T. Resio	AD A182 709
MP CERC-87-12	Jun 1987	Duration of Extreme Wave Conditions, by O. P. Smith	AD A184 055
Unnumbered	Jun 1987	Proceedings of the 46th Meeting of the Coastal Engineering Research Board, 21-22 October 1986, Vicksburg, Mississippi	AD A184 177
MP CERC-87-13*	Jul 1987	Explosion-Generated Waves in Shallow Water; Field Investigation, by R. R. Bottin, Jr., and D. G. Outlaw	AD B115 071L
MP CERC-87-14	Aug 1987	Effects of Wave Action on a Hurricane Protection Structure for London Avenue Outfall Canal, Lake Pontchartrain, New Orleans, Louisiana, by R. R. Bottin, Jr., and M. G. Mize	AD A185 648
MP CERC-87-15	Sep 1987	Beach Erosion Control Study, Homer Spit, Alaska, by Yen-hsi Chu, M. B. Gravens, J. M. Smith, et al.	AD A187 016
MP CERC-87-16	Sep 1987	Nearshore Wave Transformation Study of Sites Near Port Canaveral Inlet, Florida, by W. A. Brown, R. M. Brooks, and E. F. Thompson	AD A186 965
MP CERC-87-17	Nov 1987	Flood Fight Techniques Workshop, 9-11 December 1986, New Orleans, Louisiana, by E. J. Hecker, D. D. Davidson, and D. G. Markle	AD A187 709
MP CERC-87-18	Nov 1987	Duck85 Photopole Experiment, by B. A. Ebersole and S. A. Hughes	AD A188 477

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-87-19	Dec 1987	Lower Green Bay Hydrodynamic and Mass Transport; Numerical Model Study, by A. Swain and Sandra Bird	AD A189 076
MP CERC-87-20	Dec 1987	Side-Scan Sonar Investigation of Breakwaters at Calumet and Burns Harbors on Southern Lake Michigan, by Andrew Morang	AD A189 415
MP CERC-87-21	Dec 1987	Floating Tire Breakwater Tests, Pickering Beach, Delaware, by P. J. Grace and J. E. Clausner	AD A189 312
MP CERC-88-1	Jan 1988	Laboratory Measurement of Spatial and Temporal Suspended Sediment Concentration Under Waves, by S. A. Hughes	AD A191 074
MP CERC-88-2	Jan 1988	Port of Miami Numerical Model Study, by Aghimanyu Swain	AD A190 505
MP CERC-88-3	Jan 1988	An Analytical Model of Wave-Induced Longshore Current Based on Power Law Wave Height Decay, by J. M. Smith and N. C. Kraus	AD A190 668
Unnumbered	Jan 1988	Proceedings of the 47th Meeting of the Coastal Engineering Research Board, 19-21 May 1987, Corpus Christi, Texas	
MP CERC-88-4	Feb 1988	Stable Three-Dimensional Biperiodic Waves in Shallow Water, by N. W. Scheffner	AD A191 053
MP CERC-88-5	Feb 1988	Wave Conditions at Barnegat Inlet, New Jersey, 10 November 1984, by W. A. Brown, C. E. Abel, et.al.	AD A194 335
Unnumbered	Feb 1988	Proceedings, Workshop on Measurement and Analysis of Structural Response in Concrete Armor Units, 23-24 January 1985	
MP CERC-88-6	Apr 1988	Monitoring Completed Coastal Projects: Operational Assessment of Floating Breakwaters, Puget Sound, Washington, by E. E. Nelson and J. M. Hemsley	AD A195 323
MP CERC-88-7	May 1988	Analysis of Sediment Transport in the Brazos River Diversion Channel Entrance Region, by M. L. Fields, L. L. Weishar, and J. E. Clausner	AD A193 979
MP CERC-88-8	May 1988	Tidal Elevations and Currents at Ponce De Leon Inlet, Florida, by J. M. Hemsley and M. J. Briggs	AD 195 872
MP CERC-88-9	Jul 1988	A Collection of Storm Erosion Field Data, by W. A. Birkemeier, R. J. Savage, and M. W. Leffler	AD A198 433
MP CERC-88-10	Jul 1988	Inlet Hydraulics at Green Harbor, Marshfield, Massachusetts, by L. L. Weishar and D. G. Aubrey	AD A198 196

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-88-11	Aug 1988	Comparison of Numerical and Physical Models of Wave Response in a Harbor, by P. L. Crawford and H. S. Chen	AD A198 545
MP CERC-88-12		Coastal Processes at Sea Bright to Ocean Township, New Jersey:	
	Aug 1988	Volume I Main Text and Appendix A, by N. C. Kraus N. W. Scheffner, et al.	AD A198 896
	Aug 1988	Volume II Appendixes B-G, by N. C. Kraus, M. B. Gravens, and D. J. Mark	AD A198 897
MP CERC-88-13	Aug 1988	SUPERDUCK Marine Meteorological Experiment Data Summary: Mean Values and Turbulence Parameters, by Sethu Raman and M. J. Kang	AD A199 748
Unnumbered	Aug 1988	Proceedings of the 48th Meeting of the Coastal Engineering Research Board; 4-6 November 1987; Savannah, Georgia	
MP CERC-88-14	Sep 1988	Nearshore Wind-Stress Measurements: Background Preliminary Field Work and Experiment Design, by C. E. Long and J. M. Hubertz	AD A200 478
MP CERC-88-15	Oct 1988	Wave Refraction at Coos Bay, Oregon; Coastal Model Investigation, by E. R. Smith	AD A200 474
MP CERC-89-1	Jan 1989	Floating Breakwater Prototype Test Program: Summary of Data Analysis Efforts, by P. J. Grace and P. F. Mlakar	AD A205 250
MP CERC-89-2	Jan 1989	The Colonial Beach, Virginia, Detached Breakwater Project, by J. D. Rosati and Joan Pope	AD A205 338
MP CERC-89-3	Mar 1989	Coastal Ocean Dynamics Applications Radar (CODAR) Remote Sensing Demonstration Program, by D. B. Driver, E. F. Thompson, L. S. Lillycrop, and G. A. Barrick	AD A207 079
Unnumbered	Feb 1989	Proceedings of the 49th Meeting of the Coastal Engineering Research Board; 18-20 May 1988, Oconomowoc, Wisconsin	AD A206 961
MP CERC-89-4	Mar 1989	Los Angeles and Long Beach Harbors Model Enhancement Program: Current, Tide, and Wind Data Summary for 1983, by E. R. Smith	AD A207 076
MP CERC-89-5	Apr 1989	The Lakeshore Park, Ashtabula, Ohio, Breakwater Project, by J. D. Rosati, Joan Pope, Thomas Bender, and C. L. Truitt	AD A207 559
MP CERC-89-6	Jun 1989	Wave Forces on Vertical Walls: An Overview of Recent Work with Annotated Bibliography, by Theodore Green	AD A211 159

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-89-7	Jun 1989	The Effect of Breaking Waves on the Directional Spectrum of Waves in Water of Variable Depth in the Presence of Current, by C. C. Tung and Y. J. Cho	AD A210 671
MP CERC-89-8	Jun 1989	Shore Normal Distribution of Heavy Minerals on Ocean Beaches: Southeast Atlantic Coast, by E. P. Meisburger	AD A210 258
MP CERC-89-9	Jul 1989	Physiographic and Geological Setting of the Coastal Engineering Research Center's Field Research Facility, by E. P. Meisburger, Charles Judge, and S. J. Williams	AD A210 772
MP CERC-89-10	Jul 1989	Oolites as a Natural Tracer in Beaches of Southeastern Florida, by E. P. Meisburger	AD A211 323
MP CERC-89-11	Sep 1989	Coastal Processes from Asbury Park to Manasquan, New Jersey, by M. B. Gravens, N. W. Scheffner, and J. M. Hubertz	AD A213 533
MP CERC-89-12	Sep 1989	Typhoon Water Surface Analysis for West Coast of Saipan, Mariana Islands, by L. W. Chou	AD A213 892
MP CERC-89-13	Sep 1989	Effects of Entrance Channel Dredging at Morro Bay, California, by J. M. Kaihatu, L. S. Lillycrop, and E. F. Thompson	AD A214 472
MP CERC-89-14	Oct 1989	Numerical Model Computing Wave Propagations in an Open Coast, by T. -K. Tsay and P. L.-F. Liu	AD A215 043
MP-CERC-89-15	Sep 1989	Redington Shores, Florida, Wave Climatology Study, Summary Data Report, by James Rosati III	
MP CERC-89-16	Nov 1989	SUPERDUCK Nearshore Processes Experiment Data Summary, CERC Field Research Facility, by W. A. Birkenmeier, C. F. Baron, et al.	AD A215 700
MP CERC-89-17		Bolsa Bay, California, Proposed Ocean Entrance System Study:	
	Apr 1990	Report 2 Comprehensive Shoreline Response Computer Simulation, Bolas Bay, California, by M. B. Gravens	AD A222 138
		Report 3 Tidal Circulation and Transport Computer Simulation and Water Quality Assessment:	
	Mar 1990	Section 1 California Coastal Commission's 1986 Certified Land Use Plan and Secondary Alternative, by L. Z. Hales, S. L. Bird, B. A. Ebersole, and Raymond Walton	AD A223 240

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-89-17 (Cont.)	Mar 1990	Section 2 Signal Landmark's Proposed Secondary Alternative, "The Lake Plan", by L. Z. Hales, S. L. Bird, B. A. Ebersole, and Raymond Walton	AD A223 241
	Nov 1989	Report 4 Physical Model, by R. R. Bottin, Jr., and H. F. Acuff	AD A216 314
Unnumbered	Nov 1989	Proceedings of the 50th Meeting of the Coastal Engineering Research Board; 15-17 November 1988; Virginia Beach, Virginia	AD A218 152
MP CERC-89-18		SUPERDUCK Beach Sediment Sampling Experiment:	
	Dec 1989	Report 1 Data Summary and Initial Observations, by M. R. Byrnes	AD A217 409
MP CERC-90-1	Feb 1990	Hurricane Gilbert Storm Surge Data, by A. W. Garcia	AD A218 752
MP CERC-90-2	Mar 1990	Shoreline Change and Storm-Induced Beach Erosion Modeling: A Collection of Seven Papers, by N. C. Kraus	AD A220 048
MP CERC-90-3	Apr 1990	Investigation of Seismic Wave Gage Analysis Techniques and Comparative Evaluation of the Seismic Wave Gage at Chetco River, Oregon, by G. L. Howell and J. P. Rhee	AD A221 548
Unnumbered	Apr 1990	Proceedings of the 51st Meeting of the Coastal Engineering Research Board, 9-11 May 1989, Wilmington, North Carolina	AD A222 234
MP CERC-90-4	Jun 1990	Maximum Periodic Wave Runup on Smooth Slopes, by T. L. Walton, Jr., and J. P. Ahrens	AD A225 003
Unnumbered	Jun 1990	Proceedings of the 52nd Meeting of the Coastal Engineering Research Board, 17-19 October 1989, Redondo Beach California	AD A226 126
MP CERC-90-5	Jul 1990	Simulation of Nonstationary, Non-Gaussian Water Levels on the Great Lakes, by T. L. Walton, Jr., and L. E. Borgman	AD A226 029
MP CERC-90-6	Aug 1990	Simulating Great Lakes Water Levels for Erosion Prediction, by T. L. Walton, Jr.	AD A226 713
MP CERC-90-7	Sep 1990	An Alternative Design Approach for Detached Breakwater Projects, by J. D. Rosati and C. L. Truitt	AD A227 137
MP CERC-90-8	Nov 1990	Wave Response of Proposed Improvements to the Shallow-Draft Harbor at Kawaihae, Hawaii, by L. S. Lillycrop, S. M. Bratos, and E. F. Thompson	AD A232 392

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-91-1	Apr 1991	Alaska Wave Data Index, by D. D. McGehee and L. D. Leslie	AD A236 635
MP CERC-91-2	May 1991	Wind-Wave Generation on Restricted Fetches, by J. M. Smith	AD A237 420
MP CERC-91-3	Jul 1991	East Pass and Ludington Sand Transport Data Collection Projects: Data Report, by J. D. Rosati, K. J. Gingerich, and N. C. Kraus	AD A239 304
MP CERC-91-4	Jul 1991	Coastal Response to the Port Sheldon Jetties at Pigeon Lake, Michigan, by Mark Hansen and S. G. Underwood	AD A239 815
MP CERC-91-5	Jul 1991	Spud Point Marina Breakwater, Bodega Bay, Sonoma County, California, by J. W. Lott	AD A240 319
MP CERC-91-6	Aug 1991	Index and Bulk Parameters for Frequency-Direction Spectra Measured at CERC Field Research Facility, September 1986 to August 1987, by C. E. Long	AD A241 239
MP CERC-91-7	Aug 1991	Index and Bulk Parameters for Frequency-Direction Spectra Measured at CERC Field Research Facility, September 1987 to August 1988, by C. E. Long	AD A240 320
Unnumbered	Aug 1991	Proceedings of the 53rd Meeting of the Coastal Engineering Research Board, 5-7 June 1990, Fort Lauderdale/Dania, Florida	AD A241 209
MP CERC-91-8	Sep 1991	Monitoring of Jetty Rehabilitation at Manasquan Inlet, New Jersey, by J. A. Gebert and J. M. Hemsley	AD A241 585
MP CERC-91-9	Aug 1991	Wave Reflection from Natural Beaches, by T. L. Walton, Jr.	AD A240 730
MP CERC-91-10	Sep 1991	Monitoring of Completed Breakwaters at Cattaraugus Creek Harbor, New York, by M. J. Hemsley, R. R. Bottin, Jr., and M. C. Mohr	AD A242 086
MP CERC-91-11	Sep 1991	Parametric Description for a Wave Energy Spectrum in the Surf Zone, by J. E. Davis, J. A. Smith, and C. L. Vincent	AD A241 603
MP CERC-92-1	Feb 1992	Monitoring of Jetty Improvements at Umpqua River, Oregon, by H. D. Herndon, M. E. Andrew, J. M. Hemsley, and R. R. Bottin, Jr.	AD A247 764
MP CERC-92-2	Mar 1992	Coastal Response to a Dual Jetty System at Little River Inlet, North and South Carolina, by M. A. Chasten	AD A248 739

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP CERC-92-3	Apr. 1992	Overtopping Rates for Seawalls, by D. L. Ward and J. P. Ahrens	AD A250 876
MP CERC-92-4	Apr 1992	Prediction of Overtopping Rates for Irregular Waves on Riprap Revetments, by D. L. Ward	AD A 251 474
Unnumbered	Apr 1992	Proceedings of the 54th Meeting of the Coastal Engineering Research Board, 4-6 June 1991, New Orleans, Louisiana	AD A251 447
MP CERC-92-5	Aug 1992	Diffraction of Directional Wave Spectra Around a Semi-Infinite Breakwater, by M. T. Walsh	AD A255 928
MP CERC-92-6	Aug 1992	Wave Reflection at Tainter Gates; Hydraulic Model Investigation, by E. R. Smith and C. R. Herrington	AD A255 212
MP CERC-92-7	Aug 1992	Monitoring of the Beach Erosion Control Project at Oakland Beach, Rhode Island, by Catherine LeBlanc and R. R. Bottin, Jr.	AD A255 831
MP CERC-92-8	Sep 1992	Beach Response to the Redington Shores, Florida, Breakwater, by Y. H. Chu and Thomas Martin	AD A256 157
MP CERC-92-9		Experimental Study of Monochromatic Wave-Ebb Current Interaction:	
	Dec 1992	Volume I Main Text and Appendix A, by M. J. Briggs and D. R. Green	AD A260 855
MP CERC-92-10	Dec 1992	Engineering Assessment of Hydrodynamics and Jetty Scour at Little River Inlet, North and South Carolina, by M. A. Chasten and W. C. Seabergh	AD A269 049
Unnumbered	Dec 1992	Proceedings of the 55th Meeting of the Coastal Engineering Research Board, 30 October - 1 November 1991, Mashpee, Massachusetts	AD A268 876
MP CERC-93-1	Jan 1993	Index and Bulk Parameters for Frequency-Direction Spectra Measured at CERC Field Research Facility, September 1988 to August 1989, by C. E. Long and W. L. Smith	
MP CERC-93-2	Mar 1993	Scour Hole Problems Experienced by the Corps of Engineers; Data Presentation and Summary, by W. J. Lillycrop and S. A. Hughes	
MP CERC-93-3	May 1993	Preliminary Estimates of Frequency-Direction Spectra Derived from the SAMSON Pressure Gage Array, November 1990 to May 1991, by C. E. Long and J. M. Oltman-Shay	AD A267 960

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-83-1		Shoreline Movements:	
	Jul 1983	Report 1 Cape Henry, Virginia, to Cape Hatteras, North Carolina, 1849-1980, by C. H. Everts, J. P. Battley, Jr., and P. N. Gibson	AD A135 069
	May 1990	Report 2 Tybee Island, Georgia to Cape Fear, North Carolina, 1851-1983, by F. J. Anders, D. W. Reed, and E. P. Meisburger	AD A225 610
	Jul 1983	Addendum to Shoreline Change Maps	
TR CERC-83-2	Sep 1983	Mathematical Modeling of Three-Dimensional Coastal Currents and Sediment Dispersion: Model Development and Application, by Y. P. Sheng	AD A136 857
TR CERC-83-3	Sep 1983	Jetty Stability Study, Oregon Inlet, North Carolina; Hydraulic Model Investigation, by R. D. Carver and D. D. Davidson	AD A136 610
TR CERC-83-4	Dec 1983	Effects of Dolos Breakage on the Stability of Rubble-Mound Breakwater Trunks Subjected to Breaking and Nonbreaking Waves with no Overtopping, by D. G. Markle and D. D. Davidson	AD A140 191
TR CERC-83-5	Dec 1983	Stability of Stone- and Dolos-Armored, Rubble-Mound Breakwater Trunks Subjected to Breaking Waves with no Overtopping, by R. D. Carver	AD A141 545
TR CERC-84-1	Feb 1984	Annual Data Summary for 1980, CERC Field Research Facility, by H. C. Miller	AD A142 587
TR CERC-84-2	Apr 1984	Numerical Simulation of Oregon Inlet Control Structures' Effects on Storm and Tide Elevations in Pamlico Sound, by D. A. Leenknecht, J. A. Earickson, and H. L. Butler	AD A142 920
TR CERC-84-3	Aug 1984	Barcelona Harbor, New York, Design for Harbor Improvements; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A149 257
TR CERC-84-4	Oct 1984	Impact of I-664 Bridge/Tunnel Project on Wave Conditions at Newport News Harbor, Virginia; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A148 185

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-84-5	Nov 1984	Buhne Point, Humboldt Bay, California, Design for the Prevention of Shoreline Erosion; Hydraulic and Numerical Model Investigations, by R. R. Bottin Jr. and J. A. Earickson	AD A152 327
TR CERC-84-6	Nov 1984	Hurricane Alicia Storm Surge and Wave Data, by A. W. Garcia and T. H. Flor	AD A149 668
TR CERC-84-7	Dec 1984	The TMA Shallow-Water Spectrum Description and Applications, by S. A. Hughes	AD A157 975
TR CERC-85-1	Mar 1985	Methods for Computing Confidence Intervals for Spectral Estimates in Monthly Reports of the California Coastal Data Information Program, by M. E. Andrew and L. E. Borgman	AD A156 971
TR CERC-85-2	Jun 1985	Effects of Proposed Harbor Modifications on Wave Conditions, Harbor Resonance, and Tidal Circulation at Fish Harbor, Los Angeles, California; Physical and Numerical Model Investigations, by R. R. Bottin, Jr., D. G. Outlaw, and W. C. Seabergh	AD A157 888
TR CERC-85-3	Jun 1985	Annual Data Summary for 1981, CERC Field Research Facility, by H. C. Miller, W. E. Grogg, Jr., et al.	AD A158 143
TR CERC-85-4	Jun 1985	Extremal Analysis of Hindcast and Measured Wind and Wave Data at Kodiak, Alaska, by M. E. Andrew, O. P. Smith, and J. M. McKee	AD A158 136
TR CERC-85-5	Sep 1985	An Investigation of Hurricane-Induced Forerunner Surge in the Gulf of Mexico, by Mahunnop Bunpapong, R. O. Reid, and R. E. Whitaker	AD A160 635
TR CERC-85-6	Sep 1985	Coastal and Inlet Processes Numerical Modeling System for Oregon Inlet, North Carolina, by S. R. Vemulakonda, Abhimanyu Swain, J. R. Houston, et al.	AD A162 419
TR CERC-85-7	Oct 1985	Fisherman's Wharf Area, San Francisco Bay, California, Design for Wave Protection; Physical and Numerical Model Investigation, by R. R. Bottin, Jr., F. E. Sargent, and M. G. Mize	AD A165 133
TR CERC-85-8	Nov 1985	Breakwater Rehabilitation Study, Crescent City Harbor, California; Coastal Model Investigation, by R. C. Baumgartner, R. D. Carver, and D. D. Davidson	AD A164 824
TR CERC-85-9	Nov 1985	Proceedings of the Floating Tire Breakwater Workshop, 8-9 November 1984, edited by C. T. Bishop, L. L. Broderick, and D. D. Davidson	AD A165 803

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-85-10	Dec 1985	Wave Stability Tests of Dolos and Stone Rehabilitation Designs for the East Breakwater, Cleveland, Ohio; Experimental Model Investigation, by D. G. Markle and W. G. Dubose	AD A165 836
TR CERC-85-11	Dec 1985	Mission Bay Harbor, San Diego County, California, Design for Wave and Surge Protection; Coastal Model Investigation, by R. R. Bottin, Jr., and H. F. Acuff, Jr.	AD A165 134
TR CERC-85-12	Dec 1985	Seawall and Revetment Stability Study, Cape Hatteras Lighthouse, North Carolina, by P. J. Grace and R. D. Carver	AD A166 974
TR CERC-86-1	Jan 1986	Detached Breakwaters for Shore Protection, by W. R. Dally and Joan Pope	AD A171 183
TR CERC-86-2	Feb 1986	Cost-Effective Optimization of Rubble-Mound Breakwater Cross Sections, by O. P. Smith	AD A169 319
TR CERC-86-3	Apr 1986	Seawall Boundary Condition in Numerical Models of Shoreline Evolution, by Hans Hanson and N. C. Kraus	AD A169 708
TR CERC-86-4		Regional Coastal Processes Numerical Modeling System:	
	Mar 1986	Report 1 RCPWAVE-A Linear Wave Propagation Model for Engineering Use, by B. A. Ebersole, M. A. Cialone, and M. D. Prater	AD A169 648
TR CERC-86-5	May 1986	Annual Data Summary for 1982 CERC Field Research Facility, by H. C. Miller, M. W. Leffler, W. E. Grogg, Jr., et al.	AD A171 408
TR CERC-86-6	Aug 1986	Migration of Isles Dernieres: Past and Future, by L. D. Britsch	AD A172 504
TR CERC-86-7	Sep 1986	Irregular Wave Overtopping of Seawall/Revetment Configurations, Roughans Point, Massachusetts; Experimental Model Investigation, by J. P. Ahrens, M. S. Heimbaugh, and D. D. Davidson	AD A172 520
TR CERC-86-8	Sep 1986	Frequency of Coastal Flooding at Roughans Point, Broad Sound, Lynn Harbor, and the Saugus-Pines River System, by T. A. Hardy and P. L. Crawford	AD A172 408
TR CERC-86-9	Sep 1986	Annual Data Summary for 1983 CERC Field Research Facility, by H. C. Miller, W. E. Grogg, Jr., et al.	AD A173 634
TR CERC-86-10	Oct 1986	Stability and Wave Transmission Response of Stone- and Dolos-Armored Rubble-Mound Breakwater Trunks Subjected to Extreme Wave Heights, by R. D. Carver and W. G. Dubose	AD A174 437

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-86-11	Nov 1986	Annual Data Summary for 1984 CERC Field Research Facility, by H. C. Miller, W. E. Grogg, Jr. , et al.	AD A175 773
TR CERC-86-12	Dec 1986	Review and Comparison of Methods for Estimating Irregular Wave Overtopping Rates, by S. L. Douglass	AD A178 346
TR CERC-87-1	Jan 1987	Sources of Coastal Engineering Information, by Yen-hsi Chu, R. B. Lund, and F. E. Camfield	AD A180 752
TR CERC-87-2		Coastal Response to Navigation Structures at Murrells Inlet, South Carolina:	
	Feb 1987	Volume I Main Text and Appendixes A and B, by S. L. Douglass	AD A179 044
	Feb 1987	Volume II Appendixes C through H, by S. L. Douglass	AD A179 045
TR CERC-87-3	Mar 1987	Design for Navigation Improvements, Wave Protection, and Breakwater Stability for Proposed Boat-Launching Facility, Laupahoe Point, Hawaii; Coastal Model Investigation, by R. R. Bottin, Jr., D. G. Markle, and M. G. Mize	AD A180 448
TR CERC-87-4	Mar 1987	Wave Response of the Proposed Harbor at Agat, Guam; Numerical Model Investigation, by P. D. Farrar and H. S. Chen	AD A180 489
TR CERC-87-5	Apr 1987	Sloping Float Breakwater Study, Oregon Inlet, North Carolina, by R. D. Carver, D. G. Markle, et al.	AD A181 776
TR CERC-87-6	Apr 1987	Directional Spectral Wave Generator Basin Response to Monochromatic Waves, by M. J. Briggs and M. L. Hampton	AD A182 142
TR CERC-87-7	Apr 1987	Tsunami Predictions for the Coast of Alaska: Kodiak Island to Ketchikan, by P. L. Crawford	AD A181 775
TR CERC-87-8	Jun 1987	Feasibility Study of Quantitative Erosion Models for Use by the Federal Emergency Management Agency in the Prediction of Coastal Flooding, by W. A. Birkemeier, N. C. Kraus, et al.	AD A184 023
TR CERC-87-9	Jul 1987	Beach and Nearshore Survey Data: 1981-1984, CERC Field Research Facility, by P. A. Howd and W. A. Birkemeier	AD A181 776
TR CERC-87-10	Jul 1987	Hurricane Elena Storm Surge Data; Report 3, by A. W. Garcia and W. S. Hegge	AD A184 573
TR CERC-87-11	Aug 1987	Hurricane Danny Storm Surge Data; Report 4, by A. W. Garcia and W. S. Hegge	AD A186 373

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-87-12	Aug 1987	Hurricane Kate Storm Surge Data; Report 5, by A. W. Garcia and W. S. Hegge	AD A186 374
TR CERC-87-13		Annual Data Summary and Climatological Evaluation; CERC Field Research Facility, 1985:	
	Sep 1987	Volume I Main Text and Appendixes A-B, by H. C. Miller, Adele Militillo, et al.	AD A186 442
	Sep 1987	Volume II Appendix C, by H. C. Miller, Adele Militello, et al.	AD A185 894
TR CERC-87-14	Sep 1987	Wave Group Analysis Based on Kimura's Method, by M. J. Briggs	AD A187 610
TR CERC-87-15	Oct 1987	Analytical Solutions of the One-Line Model of Shore-line Change, by Magnus Larson, Hans Hanson, and N. C. Kraus	AD A188 182
TR CERC-87-16	Dec 1987	Combined Reflection and Diffraction by a Vertical Wedge, by H. S. Chen	AD A195 469
TR CERC-87-17	Dec 1987	Characteristics of Reef Breakwaters, by J. P. Ahrens	AD A189 036
TR CERC-87-18	Dec 1987	Stability of Stone- and Dolos-Armored Rubble-Mound Breakwater Heads Subjected to Nonbreaking Waves with Overtopping, by R. D. Carver, C. R. Herrington, and B. J. Wright	AD A188 728
TR CERC-87-19	Dec 1987	Breaking Wave Spectrum in Water of Finite Depth in the Presence of Current, by C. C. Tung and N. E. Huang	AD A190 294
TR CERC-88-1		Coastal Engineering Studies in Support of Virginia Beach, Virginia, Beach Erosion Control and Hurricane Protection Project:	
	Sep 1988	Report 2 Seawall Overtopping Evaluation, by W. J. Lillycrop, Joan Pope, and C. E. Abel	AD A199 954
		Report 3 Evaluation and Design of Beach Fill, by Mark Hansen and Norman Scheffner	AD A221 549
TR CERC-88-3	Apr 1988	Kings Bay Coastal Processes Numerical Model, by S. R. Vemulakonda, N. W. Scheffner, J. A. Earickson, and L. W. Chou	AD A194 389
TR CERC-88-4	Apr 1988	Effectiveness of Expedient Levee-Raising Structures; Experimental Model Investigation, by D. G. Markle and M. S. Taylor	AD A194 519
TR CERC-88-5	May 1988	Approximate Upper Limit of Irregular Wave Runup on Riprap, by J. P. Ahrens and M. S. Heimbaugh	AD A195 316

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-88-6	Jun 1988	Beach Profile Change Measured in the Tank for Large Waves, 1956-1957 and 1962, by N. C. Kraus and Magnus Larson	AD A199 657
TR CERC-88-7	Jul 1988	Beach Fill and Sediment Trap at Carolina Beach, North Carolina, by J. T. Jarrett and J. M. Hemsley	AD A197 835
TR CERC-88-8		Annual Data Summary for 1986 CERC Field Research Facility:	
	Aug 1988	Volume I Main Text and Appendix A, by H. C. Miller, Adele Militello, et al.	AD A197 853
	Aug 1988	Volume II Appendix B, by H. C. Miller, Adele Militello, et al.	AD A199 156
TR CERC-88-9	Aug 1988	Combined Diffraction and Reflection by a Vertical Wedge: PCDFRAC User's Manual, by J. M. Kaihatu and H. S. Chen	AD A199 649
TR CERC-88-10	Sep 1988	St. Paul Harbor Breakwater Stability Study, St. Paul, Alaska; Hydraulic Model Investigation, by D. L. Ward	AD A199 746
TR CERC-88-11		Unidirectional Spectral Wave Generation and Analysis in Wave Basins:	
	Sep 1988	Volume I Main Text and Appendix A, by M. J. Briggs	AD A199 749
	Sep 1988	Volume II Appendixes B through H, by M. J. Briggs	AD A199 750
TR CERC-88-12	Sep 1988	SUPERDUCK Nearshore Processes Experiment: Summary of Studies, CERC Field Research Facility, by R. A. Crowson, W. A. Birkemeier, H. M. Klein, and H. C. Miller	AD A200 251
TR CERC-88-13	Sep 1988	St. Paul Harbor, St. Paul Island, Alaska, Design for Wave and Shoaling Protection; Hydraulic Model Investigation, by R. R. Bottin, Jr., and M. G. Mize	AD A200 353
TR CERC-88-14	Sep 1988	Jetty Rehabilitation Stability Study, Yaquina Bay, Oregon, by P. J. Grace and W. G. Dubose	AD A200 354
TR CERC-88-15	Sep 1988	Noyo River and Harbor, California, Design for Wave and Surge Protection; Coastal Model Investigation, by R. R. Bottin, Jr., H. F. Acuff, and D. G. Markle	AD A199 972
TR CERC-88-16	Nov 1988	Side-Scan Sonar Applications for Evaluating Coastal Structures, by J. E. Clausner and Joan Pope	AD A203 358
TR CERC-89-1	Feb 1989	Geomorphic and Coastal Process Analysis for Ship Channel Planning at Ship Island, Mississippi, by S. C. Knowles and J. D. Rosati	AD A206 906

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-89-2	Apr 1989	Stability Response of Stone- and Dolos-Armored, Rubble-Mound Breakwater Trunks Subjected to Spectral Waves, by R. D. Carver and B. J. Wright	AD A208 028
TR CERC-89-3	May 1989	Investigation of Breakwater Stability at Presque Isle Peninsula, Erie, Pennsylvania, by P. J. Grace	AD A208 528
TR CERC-89-4	May 1989	Stability of Stone- and Dolos-Armored Rubble-Mound Breakwater Heads Subjected to Breaking and Non-breaking Waves with No Overtopping, by R. D. Carver and M. S. Heimbaugh	AD A208 527
TR CERC-89-5	Jun 1989	Duck85 Surf Zone Sand Transport Experiment, by N. C. Kraus, K. J. Gingerich, and J. D. Rosati	AD A210 379
TR CERC-89-6	Jun 1989	Possible Interchange of Sediments Between a Beach and Offlying Linear Shoal, by E. P. Meisburger	AD A210 256
TR CERC-89-7	Jul 1989	A Study of Sand Waves in the Panama City, Florida, Entrance Channel, by W. J. Lillycrop, J. D. Rosati, and D. D. McGehee	AD A211 123
TR CERC-89-8	Jul 1989 Revised	Infragravity Energy and its Implications in Nearshore Sediment Transport and Sandbar Dynamics, by Joan Oltman-Shay and K. K. Hathaway	AD A213 313
	Oct 1989	Errata Sheet	
TR CERC-89-9		SBEACH: Numerical Model for Simulating Storm-Induced Beach Change:	
	Jul 1989	Report 1 Empirical Foundation and Model Development, by Magnus Larson and N. C. Kraus	AD A212 212
	May 1990	Report 2 Numerical Formulation and Model Tests, by Magnus Larson, N. C. Kraus, and M. R. Byrnes	AD A222 824
TR CERC-89-10		Annual Data Summary for 1987, CERC Field Research Facility:	
	Sep 1989	Volume I Main Text and Appendixes A and B, by M. W. Leffler, K. K. Hathaway, B. L. Scarborough, et al.	AD A212 803
	Sep 1989	Volume II Appendixes C through E, by M. W. Leffler, K. K. Hathaway, B. L. Scarborough, et al.	AD A212 823
TR CERC-89-11	Sep 1989	Development of a Portable Sand Trap for use in the Nearshore, by J. D. Rosati and N. C. Kraus	AD A213 534

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-89-12	Sep 1989	Stability of Articulated Concrete Mattresses for Herbert Hoover Dike Improvements, Lake Okeechobee, Florida; Coastal Model Investigation, by R. D. Carver, D. D. Davidson, and B. J. Wright	AD A214 463
TR CERC-89-13	Dec 1989	Wave Conditions for Proposed Harbor Development in Los Angeles Outer Harbor, Los Angeles, California; Coastal Model Investigation, by R. R. Bottin, Jr., and L. R. Tolliver	AD A218 755
TR CERC-89-14		Directional Spectral Wave Transformation in the Nearshore Region:	
	Nov 1989	Report 1 Directional Spectral Performance Characteristics, by M. J. Briggs, P. J. Grace, and R. E. Jensen	AD A215 208
TR CERC-89-15	Dec 1989	Criteria for Evaluating Coastal Flood-Protection Structures, by T. L. Walton, Jr., J. P. Ahrens, C. L. Truitt, and R. G. Dean	AD A220 795
TR CERC-89-16	Nov 1989	Los Angeles - Long Beach Harbor Complex 2020 Plan Harbor Resonance Analysis; Numerical Model Investigation, by F. E. Sargent	AD A215 206
TR CERC-89-17		Los Angeles and Long Beach Harbors Model Enhancement Program; Tidal Circulation Prototype Data Collection Effort:	
	Dec 1989	Volume I Main Text and Appendixes A through C, by D. D. McGehee, J. P. McKinney, and M. S. Dickey	AD A223 127
	Dec 1989	Volume II Appendixes D through I, by D. D. McGehee, J. P. McKinney, and M. S. Dickey	AD A223 263
	Dec 1989	Volume III Appendix J, by D. D. McGehee, J. P. McKinney, and M. S. Dickey	AD A223 128
TR CERC-89-18	Dec 1989	Noyo River and Harbor, California, Design for Wave Protection, Supplemental Tests; Coastal Model Investigation, by R. R. Bottin, Jr., and M. G. Mize	AD A217 027
TR CERC-89-19		GENESIS: Generalized Model for Simulating Shoreline Change:	
	Dec 1989	Report 1 Technical Reference, by Hans Hanson and N. C. Kraus	AD A217 305
	Dec 1989	Report 2 Workbook and System User's Manual, by M. B. Gravens, N. C. Kraus, and Hans Hanson	AD A241 748

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-90-1	Feb 1990	Olcott Harbor, New York, Design for Harbor Improvements; Coastal Model Investigation, by R. R. Bottin, Jr., and H. F. Acuff	AD A220 582
TR CERC-90-2	Feb 1990	Holocene Depositional History of the Southern New Jersey Barrier and Backbarrier Regions, by M. A. Ferland	AD A220 085
TR CERC-90-3	Mar 1990	Current and Temperature Effects at Eighteenmile Creek as a Result of Harbor Improvements at Olcott Harbor, New York; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A221 579
TR CERC-90-4	Apr 1990	Redondo Beach King Harbor, California, Design for Wave Protection; Coastal Model Investigation, by R. R. Bottin, Jr., and M. G. Mize	AD A221 578
TR CERC-90-5	May 1990	Beach and Borrow Site Sediment Investigation for a Beach Nourishment at Ocean City, Maryland, by F. J. Anders and Mark Hansen	AD A222 251
TR CERC-90-6	May 1990	Redondo Beach King Harbor, California, Development of Design Data for Harbor Improvements; Coastal Model Investigation, by R. R. Bottin, Jr., and R. E. Kent	AD A223 364
TR CERC-90-7	Jun 1990	King Harbor, Redondo Beach, California, Breakwater Stability Study; Hydraulic Model Investigation, by R. E. Smith, W. G. Dubose, and R. D. Carver	AD A224 386
TR CERC-90-8	Jun 1990	Midscale Physical Model Validation for Scour at Coastal Structures, by S. A. Hughes and J. E. Fowler	AD A223 573
TR CERC-90-9*	Jul 1990	Impulsive Waves Generated by Falling Weights in Shallow Water; Laboratory Investigation, by R. R. Bottin, Jr.	AD B247 371
TR CERC-90-10	Jul 1990	SUPERDUCK Surf Zone Sand Transport Experiment, by J. D. Rosati, K. J. Gingerich, and N. C. Kraus	AD A225 690
TR CERC-90-11*	Jul 1990	Surface Waves Generated by Explosions in Shallow Water; Field Investigation, by R. R. Bottin, Jr., and J. E. Fowler	AD B147 284
TR CERC-90-12	Jul 1990	Laboratory Study on Macro-Features of Wave Breaking over Bars and Artificial Reefs, by E. R. Smith and N. C. Kraus	AD A225 689
TR CERC-90-13		Annual Data Summary for 1988, CERC Field Research Facility:	

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-90-13 (Cont.)	Jul 1990	Volume I Main Text and Appendixes A and B, by M. W. Leffler, K. K. Hathaway, B. L. Scarborough, et al.	AD A225 687
	Jul 1990	Volume II Appendixes C through E, by M. W. Leffler, K. K. Hathaway, B. L. Scarborough, et al.	AD A226 429
TR CERC-90-14*	Aug 1990	Explosion-Generated Water Waves: Field Tests to Determine Effects of Depth of Detonation, by J. E. Fowler	AD B148 489
TR CERC-90-15	Sep 1990	Functional Design of Breakwaters for Shore Protection: Empirical Methods, by J. D. Rosati	AD A228 024
TR CERC-90-16	Sep 1990	Los Angeles and Long Beach Harbors Model Enhancement Program: Three-Dimensional Numerical Model Testing of Tidal Circulation	AD A227 530
TR CERC-90-17	Sep 1990	Comparison of Atlantic Coast Wave Information Study Hindcasts with Field Research Facility Gage Measurements, by H. C. Miller and R. E. Jensen	AD A229 515
TR CERC-90-18	Dec 1990	Exploration and Sampling Methods for Borrow Areas, by Edward Meisburger	AD A231 262
TR CERC-90-19	Dec 1990	Model Study of Shoreline Erosion and Beach Protection Schemes at Surfside-Sunset Beach, Long Beach, California, by R. R. Bottin, Jr., and H. F. Acuff	AD A231 652
TR CERC-91-1	Mar 1991	Directional Characteristics of Waves in Shallow Water, by C. E. Long and J. M. Oltman-Shay	AD A234 568
TR CERC-91-2	May 1991	Los Angeles and Long Beach Harbors Additional Plan Testing; Numerical Modeling of Tidal Circulation and Water Quality, by S. R. Vemulakonda, L. W. Chou, and R. W. Hall	AD A237 386
TR CERC-91-3	May 1991	Ventura Harbor, California, Design for Wave and Shoaling Protection; Coastal Model Investigation, by R. R. Bottin, Jr.	AD A237 417
TR CERC-91-4	May 1991	Wave Conditions for Proposed Harbor Development in Los Angeles Outer Harbor, Los Angeles, California, Supplemental Tests; Coastal Model Investigation, by R. R. Bottin, Jr., and H. F. Acuff	AD A238 656
TR CERC-91-5	Jul 1991	Rubble-Mound Breakwater Wave-Attenuation and Stability Tests, Olcott Harbor, New York; Coastal Model Investigation, by R. D. Carver	AD A239 772

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-91-6	Aug 1991	Use of Theoretical Wave Height Distributions in Directional Seas, by C. E. Long	AD A240 411
TR CERC-91-7	Jul 1991	Wave Height Distributions in Multiple-Peaked Seas, by C. E. Long	AD A241 214
TR CERC-91-8	Sep 1991	Field Wave Gaging: Five-year Deployment Plans, FY90-94, by D. D. McGehee	AD A241 734
TR CERC-91-9		Annual Data Summary for 1989 CERC Field Research Facility:	
	Aug 1991	Volume I Main Text and Appendixes A and B, by M. W. Leffler, C. F. Baron, B. L. Scarborough, et al.	AD A241 586
	Aug 1991	Volume II Appendixes C through E, by M. W. Leffler, C. F. Baron, B. L. Scarborough, et al.	AD A241 155
TR CERC-91-10	Sep 1991	DYNLET1: Dynamic Implicit Numerical Model of One-Dimensional Tidal Flow Through Inlets, by Michael Amein and N. C. Kraus	AD A241 425
TR CERC-91-11	Aug 1991	Morphodynamics and Stratigraphy of Essex River Ebb-Tidal Delta, Massachusetts, by J. B. Smith	AD A241 424
TR CERC-91-12	Sep 1991	Los Angeles and Long Beach Harbors Model Enhancement Program: Measured Response of Moored Ships to Long-Period Waves, by D. D. McGehee	AD A241 210
TR CERC-91-13	Sep 1991	Evaluation of the Coastal Features Mapping System for Shoreline Mapping, by S. G. Underwood and F. J. Anders	AD A241 289
TR CERC-91-14*	Sep 1991	Waves and Cavities Generated by Explosions in Shallow Water; Laboratory Investigation, by R. R. Bottin, Jr.	AD B158 930
TR CERC-91-15		Wave Transformation Over a Generalized Beach:	
	Sep 1991	Volume I Main Text and Appendix A, by M. J. Briggs, J. M. Smith, and D. R. Green	AD A242 088
	Sep 1991	Volume II Appendixes B through I, by M. J. Briggs, J. M. Smith, and D. R. Green	AD A241 434
TR CERC-91-16	Sep 1991	Annotated Bibliography of Relative Sea Level Changes, by L. T. Gorman	AD A241 604

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-91-17	Nov 1991	Investigation of Random Variations in Stability Response of Stone-Armored, Rubble-Mound Breakwaters, by R. D. Carver and B. J. Wright	AD A246 294
TR CERC-92-1	Jan 1992	Laboratory Study of a Dynamic Berm Revetment, by D. L. Ward and J. P. Ahrens	AD A247 562
	Jan 1992	Errata Sheet No.1	
TR CERC-92-2	Dec 1992	Use of Site-Specific Model Data for General Breakwater Design, by R. D. Carver and B. J. Wright	AD A268 678
TR CERC-92-3		Annual Data Summary for 1990 CERC Field Research Facility:	
	Apr 1992	Volume I Main Text and Appendixes A and B, by M. W. Leffler, C. F. Baron, B. L. Scarborough, et al.	AD A250 563
	Apr 1992	Volume II Appendixes C through E, by M. W. Leffler, C. F. Baron, B. L. Scarborough, et al.	AD A252 337
TR CERC-92-4	May 1992	Geomorphic Variability in the Coastal Zone, by Joann Mossa, E. P. Meisburger, and Andrew Morang	AD A252 713
TR CERC-92-5		A Study of Geologic and Hydraulic Processes at East Pass, Destin, Florida:	
	Apr 1992	Volume I Main Text and Appendices A and B, by Andrew Morang	AD 253 890
	Apr 1992	Volume II Appendices C through K, by Andrew Morang	AD A254 877
TR CERC-92-6	Jul 1992	Wave Conditions for Two Phases of Harbor Development In Los Angeles Outer Harbor, Los Angeles, California; Coastal Model Investigation, by R. R. Bottin, Jr., and H. F. Acuff	
TR CERC-92-7	Jul 1992	Long-Term Profile and Sediment Morphodynamics: Field Research Facility Case History, by D. K. Stauble	AD A255 284
TR CERC-92-8	Aug 1992	Evaluation of Methods for Estimating Wind Wave Growth on Narrow Irregular Fetches, by K. J. Eisses	AD A256 002
TR CERC-92-9	Sep 1992	Irregular Wave-Induced Velocities in Shallow Water, by N. J. Sultan	AD A256 402
TR CERC-92-10	Sep 1992	Passaic River Basin Flood Protection Project, Storm Surge Analysis, by Zeki Demirbilek and Raymond Walton	AD A257 344

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-92-11		Application of the Green-Naghdi Theory of Fluid Sheets to Shallow-Water Wave Problems:	
	Sep 1992	Report 1 Model Development, by Zeki Demirbilek and W. C. Webster	AD A256 592
TR CERC-92-12	Jan 1992	Physical Modeling of Small-Boat Harbors: Design Experience, Lessons Learned, and Modeling Guidelines, by R. R. Bottin, Jr.	AD A258 700
TR CERC-92-13	Sep 1992	User's Manual and Examples for GNWAVE, by Zeki Demirbilek and W. C. Webster	AD A257 024
TR CERC-92-14	Sep 1992	Oceanside Harbor, California, Design for Harbor Improvements; Coastal Model Investigation, by R. R. Bottin, Jr.	AD A258 326
TR CERC-92-15	Dec 1992	Crescent City Instrumented Model Dolos Study; Coastal Model Investigation, by D. G. Markle and H. C. Greer III	AD A261 607
TR CERC-92-16	Dec 1992	Scour Problems and Methods for Prediction of Maximum Scour at Vertical Seawalls, by J. E. Fowler	AD A262 140
TR CERC-93-1		Laboratory Description of Harbor Idealized Tests:	
	Mar 1993	Volume I Main Text and Appendixes A through C, by M. J. Briggs, E. F. Thompson, D. R. Green, and L. S. Lillycrop	AD A266 040
	Mar 1993	Volume II Appendix D, by M. J. Briggs, E. F. Thompson, D. R. Green, and L. S. Lillycrop	AD A266 041
TR CERC-93-2	Mar 1993	Design for Entrance Channel Navigation Improvements, Morro Bay Harbor, Morro Bay, California, by R. R. Bottin, Jr.	AD A263 996
TR CERC-93-3	Mar 1993	Beach and Nearshore Survey Data: 1985-1991 CERC Field Research Facility, by Guan-Hong Lee and W. A. Birkemeier	AD A26 371
TR CERC-93-4	May 1993	SUPERDUCK Beach Sediment Sample Experiment: Beach Profile Change and Foreshore Sediment Dynamics, by D. K. Stauble, G. W. Holem, M. R. Byrnes, et al.	AD A265 948
TR CERC-93-5	Mar 1993	Technologies for Assessing the Geologic and Geomorphic History of Coasts, by Andrew Morang, Joann Mossa, and R. J. Larson	AD A268 780

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CERC-93-6		Observations and Modeling of Winds and Waves During the Surface Wave Dynamics Experiment:	
	May 1993	Report 1 Intensive Observation Period IOP-1, 20-31 October 1990, by M. J. Caruso, H. C. Graber, R. E. Jensen, and M. A. Donelan	AD A266 384
TR CERC-93-7	May 1993	Cooperative Laboratory and Field Study to Investigate Effects of Wave and Current Action on Dual-Rocket Distributed Explosive Array Deployment, by J. E. Fowler, William Birkemeier, J. A. Denson, and David Krivich	AD A266 082
TR CERC-93-8	May 1993	Coastal Scour Problems and Methods for Prediction of Maximum Scour, by J. E. Fowler	AD A266 658
TR CERC-93-9		Annual Data Summary for 1991 CERC Field Research Facility:	
	Jun 1993	Volume I Main Text and Appendixes A and B, by M. L. Leffler, C. F. Baron, B. L. Scarborough, and K. R. Hathaway	AD A268 755
	Jun 1993	Volume II Appendixes C through E, by M. L. Leffler, C. F. Baron, B. L. Scarborough, and K. R. Hathaway	AD A268 754
TR CERC-93-10	Jun 1993	Dolos Design Procedure Based on Crescent City Prototype Data, by I. A. Melby	AD A268 161

Wave Information Studies of U.S. Coastlines

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
WIS 2	Jan 1981	Atlantic Coast Hindcast, Deepwater, Significant Wave Information, by W. D. Corson, D. T. Resio, R. M. Brooks, et al.	AD A095 497
	Sep 1981	Errata Sheet No. 1	
WIS 3	May 1981	Comparisons of Hindcast and Measured Deepwater, Significant Wave Heights, by W. D. Corson and D. T. Resio	AD A110 885
WIS 4	May 1982	Objective Specification of Atlantic Ocean Wind Fields from Historical Data, by D. T. Resio, C. L. Vincent, and W. D. Corson	AD A117 683
WIS 5	Mar 1982	The Estimation of Wind-Wave Generation in a Discrete Spectral Model, by D. T. Resio	AD A114 047
WIS 6	Mar 1982	Atlantic Coast Hindcast, Phase II: Wave Information, by W. D. Corson, D. T. Resio, R. M. Brooks, et al.	AD A117 662
WIS 7	Apr 1982	Atlantic Coast Water-Level Climate, by B. A. Ebersole	AD A117 147
WIS 8	Sep 1983	Methodology for the Calculation of a Shallow-Water Wave Climate, by R. E. Jensen	AD A134 715
WIS 9	Jan 1983	Atlantic Coast Hindcast, Shallow-Water, Significant Wave Information, by R. E. Jensen	AD A129 642
WIS 10	Aug 1983	Sea-State Engineering Analysis System (SEAS), by D. S. Ragsdale	AD A182 578
WIS 11	May 1982	Theory and Calculation of the Nonlinear Energy Transfer Between Sea Waves in Deep Water, by B. A. Tracy and D. T. Resio	AD A117 989
WIS 12	Jan 1983	A Numerical Model for Wind-Wave Prediction in Deep Water, by D. T. Resio and B. A. Tracy	AD A125 985
	Mar 1985	Errata Sheet No. 1	
WIS 13	Sep 1984	Summary of Archived Atlantic Coast Wave Information Study: Pressure, Wind, Wave, and Water Level Data, by R. M. Brooks and W. D. Corson	AD A153 782
WIS 14	Mar 1986	Pacific Coast Hindcast, Deepwater Wave Information, by W. D. Corson, C. E. Abel, R. M. Brooks, et al.	AD A168 511

**Wave Information Studies
of U.S. Coastlines**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
WIS 15	May 1985	Atlantic Coast Hindcast, Phase II Wave Information: Additional Extremal Estimates, by W. D. Corson and B. A. Tracy	AD A156 137
WIS 16	May 1987	Pacific Coast Hindcast Phase II, Wave Information, by W. D. Corson, C. E. Abel, et al.	AD A182 795
WIS 17	Mar 1989	Pacific Coast Hindcast Phase III, North Wave Information, by R. E. Jensen, J. M. Hubertz, and J. B. Payne	AD A207 189
WIS 18	May 1989	Gulf of Mexico Hindcast Wave Information, by J. M. Hubertz and R. M. Brooks	AD A208 899
WIS 19	Apr 1989	Hurricane Hindcast Methodology and Wave Statistics for Atlantic and Gulf Hurricanes from 1956-1975, by C. E. Abel, B. A. Tracy, et al.	AD A207 849
WIS 20	Dec 1992	Southern California Hindcast Wave Information, by R. E. Jensen, J. M. Hubertz, E. F. Thompson, et al.	AD A261 163
WIS 21	Nov 1990	Hindcast Hurricane Swell for the Coast of Southern California, by B. A. Tracy and J. M. Hubertz	AD A330 599
WIS 22	Oct 1991	Hindcast Wave Information for the Great Lakes: Lake Erie, by D. B. Driver, R. D. Reinhard, and J. M. Hubertz	AD A244 618
WIS 23	Jan 1992	Hindcast Wave Information for the Great Lakes: Lake Superior, by D. B. Driver, R. D. Reinhard, and J. M. Hubertz	AD A248 002
WIS 24	Oct 1991	Hindcast Wave Information for the Great Lakes: Lake Michigan, by J. M. Hubertz, D. B. Driver, and R. D. Reinhard	AD A243 784
WIS 25	Dec 1991	Hindcast Wave Information for the Great Lakes: Lake Ontario, by R. D. Reinhard, D. B. Driver, and J. M. Hubertz	AD A246 446
WIS 26	Dec 1991	Hindcast Wave Information for the Great Lakes: Lake Huron, by R. D. Reinhard, D. B. Driver, and J. M. Hubertz	AD A246 326
WIS 27	Jun 1992	User's Guide to the Wave Information Studies (WIS) Wave Model, Version 2.0, by J. M. Hubertz	AD A254 313
WIS 28	Sep 1992	Verification of the Gulf of Mexico Hindcast Wave Information, by J. M. Hubertz and R. M. Brooks	AD A259 413

**Wave Information Studies
of U.S. Coastlines**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
WIS 29	Dec 1992	Verification of Pacific Ocean Deepwater Hindcast Wave Information, by J. M. Hubertz, B. A. Tracy, J. B. Payne, and Alan Cialone	AD A262 714
WIS 30	Mar 1993	Hindcast Wave Information for the U.S. Atlantic Coast, by J. M. Hubertz, R. M. Brooks, W. A. Brandon, and B. A. Tracy	

Unnumbered

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Sep 1992	Automated Coastal Engineering System: User's Guide (Version 1.07), by D. A. Leenknecht, Andre Szuwalski, and A. R. Sherlock	
Unnumbered	Sep 1992	Automated Coastal Engineering System: Technical Reference (Version 1.07), by D. A. Leenknecht, Andre Szuwalski, and A. R. Sherlock	
Unnumbered	Jun 1993	Automated Coastal Engineering System; Diskette (Version 1.07C)	

Dredging Research Program Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR DRP-91-1	Dec 1991	Simple Models for Turbulent Wave-Current Bottom Boundary Layer Flow, by O. S. Madsen and P. N. Wikramanayake	AD A247 942
CR DRP-92-1	May 1992	Dredge Mooring Study, Conceptual Design, Phase I Report, by SOFEC, Inc.	AD A254 144
CR DRP-92-2	May 1992	Dredge Mooring Study, Recommended Design, Phase II Report, by SOFEC, Inc.	AD A255 947
CR DRP-92-7	Dec 1992	Investigation of Real-Time Differential Global Positioning System (DGPS) Data Link Alternatives, by P. K. Enge and Keith Pflieger	AD A262 679
CR DRP-92-8	Dec 1992	System Analysis for a Kinematic Positioning System Based on the Global Positioning System, by G. J. Geier, P. V. W. Loomis, and Alfred Kleusberg	AD A262 830

Dredging Research Program

Dredging Research Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Analysis of Dredged Material Placed in Open Water	
DRP-1-01	Aug 1990	Construction and Monitoring of Nearshore Placement of Dredged Material at Silver Strand State Park, San Diego, California, by Leonard Juhnke	
DRP-1-02	May 1992	Numerical Disposal Modeling, by B. H. Johnson	
DRP-1-03	Jul 1990	Fine-Sediment Erodibility Characterization, by Allen Teeter	
DRP-01-04	Feb 1992	Numerical Disposal Modeling Needs Revealed by Mobile Bay Field Data, by B. H. Johnson, J. R. Tallent, and M. T. Fong	
DRP-1-05	Apr 1992	Acoustic Resuspension Measurement System (ARMS): Announcement of Availability, by R. E. Van Evra III, K. W. Bedford, N. C. Kraus, et al.	
DRP-1-06	Apr 1992	The PLUme MEasurement System (PLUMES): First Announcement, by N. C. Kraus and M. M. Thevenot	
DRP-1-07	Apr 1992	Erosion of Cohesive Dredged Material in Open-Water Disposal Sites, by A. M. Teeter	
DRP-1-08	Jul 1992	Monitoring of Alabama Berms, by E. B. Hands, Mary Allison, Joy Brogdon, et al.	
DRP-1-09	May 1992	Prediction of Cross-Shore Movement of Dredged Material Berms, by N. C. Kraus	
DRP-1-10	Jul 1992	Analysis of Dredged Material Deposition Patterns, by E. C. Nelson and B. H. Johnson	
		Material Properties Related to Navigation and Dredging	
DRP-2-01	Aug 1990	Suggested Methods for Use of the Point Load Tester in Dredging Applications, by H. J. Smith	
DRP-2-02	Aug 1991	Point Load Index and Unconfined Compressive Strength Data Base System, by H. J. Smith	
DRP-2-03	Dec 1991	Hydrologic Surveys Applicable to Dredging Operations, by T. S. Harmon and R. F. Ballard, Jr.	

**Dredging Research Program
Dredging Research Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Material Properties Related to Navigation and Dredging (Cont.)	
DRP-2-04	Jul 1992	The Viscous Characteristics of Channel-Bottom Muds, by A. M. Teeter	
DRP-2-05	Nov 1992	Evaluation of New Fluid Mud Survey System at Field Sites, by A. M. Teeter	
DRP-2-06	Apr 1993	An Inexpensive Method for Vibracoring Sands and Fine-Grained Water, by J. B. Smith and J. E. Clausner	
		Dredge Plant Equipment and System Processes	
DRP-3-01	Nov 1989	Jet Pump Sand Bypassing, Nerang River Entrance, Australia, by J. E. Clausner	
DRP-3-02	Jan 1990	Hopper Dredge Mooring, by Thomas Chisholm	
DRP-3-03	Sep 1990	Fixed Sand Bypassing Plant - an Update, by J. E. Clausner	
DRP-3-04	Nov 1990	An Inclined-Plate Technique for Increasing the Settling Rate of Fine-Grained Sediments in Hopper Bins, by S. H. Scott	
DRP-3-05	May 1992	Controlled Tests of Eductors and Submersible Pumps, by J. E. Clausner, T. L. Welp, and Darryl Bishop	
DRP-3-06	Aug 1992	Applying Ultrasonic Surface Detectors to Hopper Dredge Production Monitoring, by S. H. Scott	
DRP-3-07	Nov 1992	Applying Electrical Resistivity Methods for Measuring Dredged Material Density in Hopper Bins, by S. H. Scott	
DRP-3-08	Nov 1992	A Single-Point Mooring System for Direct Pumpout of Hopper Dredges, by J. E. Clausner	
DRP-3-09	Dec 1992	Fluidizer System for Channel Maintenance and Sand Bypassing, by J. E. Clausner	
		Vessel Positioning, Survey Controls and Dredge Monitoring Systems	
DRP-4-01	Nov 1989	Laboratory Tests of Production Meter Instruments, by V. R. Pankow	
DRP-4-02	Jun 1990	Application Criteria for the Automated Real-Time Tidal Elevation System (ARTTES), by A. W. Garcia	

**Dredging Research Program
Dredging Research Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Vessel Positioning, Survey Controls and Dredge Monitoring Systems (Cont.)	
DRP-4-03	Nov 1990	Dredge Production Meter Survey, by V. R. Pankow	
DRP-4-04	Aug 1991	Field Evaluation of Endeco Model 1029 Tide Gage, by W. E. Grogg	
DRP-4-05	Aug 1991	Production Meter System Evaluation on the Dustpan Dredge Jadwin, by V. R. Pankow	
DRP-4-06	May 1992	Evaluation of Production Meter Performance in a Fine-Grained Sediment Environment, by S. H. Scott	
DRP-4-07	May 1992	Improvements to the Automated Real-Time Tidal Elevation System (ARTTES), by A. W. Garcia	
		Management of Dredging Projects	
DRP-5-01	Jan 1990	Engineering Design Considerations for Nearshore Berms, by T. N. McLellan	
DRP-5-02	Aug 1990	Interim Design Guidance for Nearshore Berm Construction, by T. N. McLellan	
DRP-5-03	Feb 1991	Design Requirements for Capping, by M. R. Palermo	
DRP-5-04	Nov 1991	Site Selection Considerations for Capping, by M. R. Palermo	
DRP-5-05	Nov 1991	Equipment and Placement Techniques for Capping, by M. R. Palermo	
DRP-5-06	Apr 1992	Length and End Slope Considerations, Interim Design Guidance Update for Nearshore Berm Construction, by C. E. Burke and M. C. Allison	
DRP-5-07	May 1992	Monitoring Considerations for Capping, by M. R. Palermo, Tom Fredette, and R. E. Randall	
		Miscellaneous	
DRP-6-01	Dec 1991	A Guide to the DRP, by Russ Tillman	

Dredging Research Program Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
DRP-88-1	Aug 1988	Dredging Research	
DRP-89-1 thru	Jun 1989 thru	Dredging Research	
DRP-89-2	Nov 1989	Dredging Research	
DRP-90-1 thru	Jan 1990 thru	Dredging Research	
DRP-90-4	Dec 1990	Dredging Research	
DRP-91-1 thru	Jan 1991 thru	Dredging Research	
DRP-91-5	Dec 1991	Dredging Research	
DRP-92-1 thru	Mar 1992 thru	Dredging Research	
DRP-92-4	Nov 1992	Dredging Research	
DRP-93-1 thru	Feb 1993 thru	Dredging Research	
DRP-93-2	May 1993	Dredging Research	

Dredging Research Program Miscellaneous Papers

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP DRP-92-1	Jun 1992	Dispersion Analysis of Humboldt Bay, California, Interim Offshore Disposal Site, by N. W. Scheffner	AD A268 679

Dredging Research Program

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR DRP-90-1	Oct 1990	Practices and Problems Associated with Economic Loading and Overflow of Dredge Hoppers and Scows, by M. R. Palermo and R. E. Randall	AD A229 528
TR DRP-90-2		Results of Monitoring the Disposal Berm at Sand Island, Alabama:	
	Dec 1990	Report 1 Construction and First Year's Response, by E. B. Hands and K. P. Bradley	AD A231 838
TR DRP-91-1		NMLONG: Numerical Model for Simulating the Long-shore Current:	
	Jun 1991	Report 1 Model Development and Tests, by N. C. Kraus and Magnus Larson	AD A239 856
TR DRP-91-2	Aug 1991	Simulation of Time Sequences of Wave Height, Period, and Direction, by L. E. Borgman and N. W. Scheffner	AD A241 211
TR DRP-91-3		Mobile, Alabama, Field Data Collection Project, 18 August - 2 September 1989:	
	Sep 1991	Report 1 Dredged Material Plume Survey Data Report, by N. C. Kraus	AD A242 580
TR DRP-92-1	Mar 1992	Feasibility of a Kinematic Differential Global Positioning System, by D. E. Wells and Alfred Kleusberg	AD A248 953
TR DRP-92-2	Mar 1992	Global Positioning System Bibliography, by Wendlynn Wells, D. E. Wells, and Alfred Kleusberg	AD A248 954
TR DRP-92-3		Boundary Stresses and Velocity Profiles in Estuarine Flows:	
	Sep 1992	Report 1 Interim Calculation Methods, by W. H. McAnally, Jr., and E. J. Hayter	AD A265 298
TR DRP-92-4	Aug 1992	Laboratory Testing of Methods to Increase Hopper Dredge Payloads: Model Hopper Bin Facility and Centrifugal Solids Concentrator, by S. H. Scott, Walter Pankow, and T. C. Pratt	AD A257 270
TR DRP-92-5	Sep 1992	Analysis of Cross-Shore Movement of Natural Longshore Bars and Material Placed to Create Longshore Bars, by Magnus Larson and N. C. Kraus	AD A257 968

**Dredging Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR DRP-92-6		ADCIRC: An Advanced Three-Dimensional Circulation Model for Shelves, Coasts, and Estuaries:	
	Nov 1992	Report 1 Theory and Methodology of ADCIRC-2DDI and ADCIRC-3DL, by R. A. Luettich, Jr., J. J. Westerink, and N. W. Scheffner	AD A261 608
	Jun 1993	Report 3 Development of a Tidal Constituent Database for the Western North Atlantic and Gulf of Mexico, by J. J. Westerink, R. A. Luettich, Jr., and Norman Scheffner	AD A268 685
TR DRP-92-7	Dec 1992	Tylers Beach, Virginia, Dredged Material Plume Monitoring Project, 27 September to 4 October 1991, by M. M. Thevenot, T. L. Prickett, and N. C. Kraus	AD A261 036
TR DRP-92-8	Dec 1992	Preliminary Design for Dredged Material Placement Physical Modeling Facilities, by Mills Soldate, J. R. Pagenkopf, and M. R. Morton	AD A260 186

Dredging Research Program Unnumbered

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Jan 199	DRP Product Inventory, by R. K. Tillman	AD A268 742

Environmental Laboratory

Environmental Laboratory

Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR EL-89-1	Jan 1989	Interdisciplinary Workshop on the Physical-Chemical-Biological Processes Affecting Archeological Sites, by C. C. Mathewson	AD A206 815
CR EL-89-2*	Apr 1989	Radar Cross Section Signatures of Fixed Installations, by N. C. Currie, E. E. Martin, and P. D. Moore	AD B134 253
CR EL-89-3	Aug 1989	Reservoir Bank Erosion and Cultural Resources: Experiments in Mapping and Predicting the Erosion of Archeological Sediments at Reservoirs Along the Middle Missouri River with Sequential Historical Aerial Photographs, by J. I. Ebert, E. L. Camilli, and LuAnn Wandsnider	AD A212 709
CR EL-89-4	Sep 1989	Archeological Inundation Studies: Manual for Reservoir Managers, by J. A. Ware	AD A213 319
CR EL-89-5*	Nov 1989	Soil Media Anomaly Detection by Remote Sensing, by D. C. Kraft, Raymond K. Moore and Richard K. Moore	AD B139 656
CR EL-91-1	Aug 1991	Chemical Mowing: Effect of Plant Growth Retardants on Plant Roots, by O. P. Vadhwa	AD 240 818
CR EL-92-1	Jan 1992	Burial as a Method of Archaeological Site Protection, by C. C. Mathewson, Tania Gonzalez, and J. S. Eblen	AD A247 685
CR EL-92-2	Aug 1992	Stabilization of Dakota Sandstone Surface of the Faris Cave Petroglyphs; Kanopolis Lake Project, Kansas, by D. A. Grisafe	AD A255 608
CR EL-93-1	Jun 1993	Use of Emersion as a Zebra Mussel Control Method, by R. F. McMahon, T. A. Ussery, and Michael Clarke	AD A267 665
CR EL-93-2	Jun 1993	Chesapeake Bay Sediment Flux Model, by D. M. Di Toro and J. J. Fitzpatrick	AD A267 189

* Statement B. See Preface.

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR EL-80-1	Dec 1980	Guide for Nuclear Meter Roof Moisture Surveys, by L. E. Link, Jr., and C. A. Miller	AD A093 219
IR EL-82-1	Dec 1982	User Guide for CE-QUAL-ELV2: A Longitudinal-Vertical, Time-Varying Estuarine Water Quality Model, by E. M. Buchak and J. E. Edinger	AD A125 713
IR EL-83-1	Mar 1983	Restoration Techniques for Problem Soils at Corps of Engineers Construction Sites (Draft), by Michael Clar, Robert Kort, Homer Hopkins, et al.	
IR EL-83-2	Sep 1983	An Instruction Report on Freshwater Mussels, by A. C. Miller and D. A. Nelson	AD A133 638
IR EL-84-1	Jan 1985	A Low-Cost Transplanting Technique for Shoalgrass (<i>Haolodule wrightii</i>) and Manatee Grass (<i>Syringodium filiforme</i>), by M. S. Fonseca, W. J. Kenworthy, K. M. Cheap, et al.	AD A153 635
IR EL-85-1	Mar 1985	User Guide for WIFM-SAL: A Two-Dimensional Vertically Integrated, Time-Varying Estuarine Transport Model, by R. A. Schmalz, Jr.	AD A157 446
IR EL-85-2	May 1985	Restoration of Problem Soil Materials at Corps of Engineers Construction Sites, by C. R. Lee, J. G. Skogerboe, Kurt Eskew, et al.	AD A157 649
IR EL-85- * (Draft)	Oct 1985	CEDERR Searching: A User's Guide, by P. F. Chen	AD B101 235L
IR EL-85-3	Dec 1985	Habitat Evaluation Methods Notebook	
	Aug 1987	Change 1	
	Feb 1988	Change 2	
IR EL-88-1	Mar 1988	Visual Resources Assessment Procedure for U.S. Army Corps of Engineers, by R. C. Smardon, J. F. Palmer, Alfred Knopf, et al.	AD A196 308
IR EL-92-1*	Feb 1992	Guide for the Conduct of Predeployment Site Characterization Surveys for the AN/GSS-34(V) Ported Coaxial Cable Sensor (PCCS), by C. A. Miller, C. R. Malone, and C. B. Blount	AD B162 753L

* Statement B. See Preface

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR EL-92-2*	Sep 1992	Techniques for Ported Coaxial Cable Sensor (PCCS) and Short Ported Coaxial Sensor (SPCS) Cable Installation, by J. H. Ballard and C. R. Malone	AD B168 201

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-79-1	Apr 1979	Terrain Characteristics at DIRT-I Test Site, White Sands Missile Range, New Mexico, by C. A. Miller	AD A069 121
MP EL-79-2	Apr 1979	Effects of Freezing Temperatures and Frozen-Ground Conditions on Enclosed-Wire-in-Tube Response, by C. A. Miller	AD A069 065
MP EL-79-4	Aug 1979	Applications of MAPS to the Salinas-Monterey Urban Study, by T. M. Walski and A. C. Gibson	AD A074 536
	Aug 1979	Appendixes B and F-G	AD A074 543
MP EL-79-5	Nov 1979	Thermal Modeling of Battlefield Scene Components, by L. E. Link, Jr.	AD A080 915
MP EL-79-6		Military Hydrology:	
	Dec 1979	Report 1 Status and Research Requirements, by Wesley James and L. E. Link, Jr.	AD A081 038
	Jul 1980	Report 2 Formulation of a Long-Range Concept for Streamflow Prediction Capability, by W. P. James	AD A088 448
	Jun 1981	Report 3 A Review of Army Doctrine on Military Hydrology, by D. L. Stinson	AD A103 082
	Nov 1981	Report 4 Evaluation of an Automated Water Data Base for Support to the Rapid Deployment Joint Task Force (RDJTF), by H. W. Calkins and T. R. Johnson	AD A109 590
	Oct 1984	Report 6 Assessment of Two Currently "Fieldable" Geophysical Methods for Military Ground-Water Detection, by D. K. Butler and J. L. Llopis	AD A148 988
	Sep 1985	Report 8 Feasibility of Utilizing Satellite and Radar Data in Hydrologic Forecasting, by B. T. Miers and G. L. Huebner	AD A160 615
	Feb 1985	Report 9 State-of-the-Art Review and Annotated Bibliography of Dam-Breach Flood Forecasting, by R. A. Wurbs	AD A155 383
	Jun 1986	Report 10 Assessment and Field Examples of Continuous Wave Electromagnetic Surveying for Groundwater, by D. K. Butler	AD A171 170

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-79-6 (Cont.)		Report 12 Case Study Evaluation of Alternative Dam-Breach Flood Wave Models:	
	Nov 1986	Volume I Main Report, by R. A. Wurbs	AD A175 159
	Nov 1986	Volume II Teton Case Study, by R. A. Wurbs	AD A177 068
	Nov 1986	Volume III Hypothetical Prismatic Channel Case Study by R. A. Wurbs	AD A175 160
	Nov 1986	Volume IV Laurel Run Case Study, by R. A. Wurbs	AD A177 533
	Jun 1986	Report 13 Comparative Evaluation of Dam-Breach Flood Forecasting Methods, by R. A. Wurbs	AD A170 641
	Aug 1989	Report 14 Breach Erosion of Earth-Fill Dams and Flood Routing (BEED) Model, by V. P. Singh and P. D. Scarlatos	AD A214 990
	Nov 1987	Report 15 The Seismic Refraction Compression-Shear Wave Velocity Ratio as an Indicator of Shallow Water Tables: A Field Test, by Christine Schuyler-Rossie	AD A189 709
	Jun 1989	Report 16 Assessment of Shuttle Imaging Radar and Landsat Imagery for Ground-Water Exploration in Arid Environments, by H. C. MacDonald, B. C. Clark, D. S. Taylor, et al.	AD A209 527
	Jul 1989	Report 17 A Quasi-Conceptual Linear Model for Synthesis of Direct Runoff with Potential Application to Ungaged Basins, by V. P. Singh	AD A212 624
	Apr 1991	Report 18 State-of-the-Art Review and Annotated Bibliography of Radar-Rain Gage Relations and Short-Term Weather Forecasting, by W. R. McDaniel	AD A236 672
	Apr 1991	Report 20 Reservoir Outflow (RESOUT) Model, by R. A. Wurbs and S. T. Purvis	AD A237 372
	Oct 1992	Report 21 Regulation of Streamflow by Dams and Associated Modeling Capabilities, by R. A. Wurbs	AD A260 690
MP EL-80-1	Jan 1980	Digital Terrain and Mobility Data Bases for E-FOSS, by H. W. West, Daniel Krivitzky, and D. D. Randolph	AD A080 920
	Jul 1980	Errata Sheet No. 1	

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-80-2	Jun 1980	Survey of Marine Wetland and Estuarine Water Quality and Ecological Problems in Corps of Engineers Field Offices, by Peter Hamilton	AD A088 171
MP EL-80-3	Sep 1980	Marine Wetland and Estuarine Processes and Water Quality Modeling: Workshop Report and Recommendations, by Peter Hamilton	AD A089 961
MP EL-80-4	Oct 1980	The Relation of Flood Timing and Duration to Variation in Selected Bottomland Hardwood Communities of Southern Arkansas, by R. T. Huffman	AD A098 020
Unnumbered		Report of the Third Sensor Technology Symposium, 25-27 September 1979:	
*	Nov 1980	Volume I Unclassified Papers	AD B057 291L
MP EL-80-5	Dec 1980	Biological Assessment of Upper Mississippi River Sediments, by Richard Peddicord, Henry Tatem, Alfreda Gibson, and Susan Pedron	AD A094 248
MP EL-81-1	Jan 1981	Water Main Repair/Replacement for Binghamton, N. Y., by T. M. Walski and Anthony Pelliccia	AD A095 361
MP EL-81-2	Jan 1981	Selected References on Innovative/Alternative Wastewater Collection Systems for Corps of Engineers Recreation Areas, by F. M. Kelsi and M. J. Cullinane, Jr.	AD A096 112
MP EL-81-3	Jul 1981	Rayleigh Wave Velocity Measurements Using Broad Band Frequency Sources, by Otis Williams	AD A102 797
MP EL-81-4	Aug 1981	Inclusion of a Simple Vegetation Layer in Terrain Temperature Models for Thermal Infrared (IR) Signature Prediction, by L. K. Balick, R. K. Scoggins, and L. E. Link, Jr.	AD A104 469
MP EL-81-5	Sep 1981	Ecological Investigation of a Greentree Reservoir in the Delta National Forest, Mississippi, by C. J. Newling	AD A120 408
MP EL-81-6	Sep 1981	Plant Bioassay of Material from the Blue River Dredging Project, by B. L. Folsom, Jr., C. R. Lee, and K. M. Preston	AD A104 986
MP EL-81-7	Sep 1981	Innovation/Alternative Wastewater Collection Systems for Corps of Engineers Recreation Areas, by M. J. Cullinane, Jr.	AD A105 497

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-81-8	Sep 1981	Site Characterization for the MBCE/DIRT II Battle-field Environment Tests, by J. B. Mason and K. S. Long	AD A107 338
MP EL-81-9	Nov 1981	Estuarine Laterally Averaged Numerical Dynamics; The Development and Testing of Estuarine Boundary Conditions in the LARM Code, by J. E. Edinger and E. M. Buchak	AD A109 712
MP EL-81-10	Dec 1981	Site Characterization for AAH/HELLFIRE Battlefield Obscuration Validation Tests at Redstone Arsenal, Ala., by J. B. Mason and K. S. Long	AD A110 067
MP EL-81-11	Dec 1981	Feeding Habits and Food of the Fishes of Mississippi Sound and Adjacent Coastal Areas; A Bibliography with Abstracts, by D. G. Clarke and H. L. Horstmann	AD A111 277
MP EL-81-12	Dec 1981	Animal Substrate Relationships and Productivity of Invertebrate Macrobenthos of Mississippi Sound and Adjacent Coastal Areas; A Bibliography with Abstracts, by J. D. Lunz and H. L. Horstmann	AD A111 297
MP EL-82-1	Jan 1982	Evaluation of Marsh/Estuarine Water Quality and Ecological Models: An Interim Guide, by R. W. Hall, Jr.	AD A111 298
Unnumbered	May 1982	Report of Freshwater Mollusks Workshop, 19-20 May 1981, compiled by C. A. Miller	AD A118 221
MP EL-82-2	Sep 1982	Computer-Aided Watershed Analysis, by V. E. LaGarde	AD A129 681
MP EL-82-3	Sep 1982	Toxic Metal Removal from Electroplating Wastewater Using Silylated Silica Gel, by P. G. Malone and R. A. Karn	AD A120 030
MP EL-82-4	Oct 1982	An Evaluation of Methods for Measuring Surface Temperature, by Gunter Hubner and C. L. Gladen	AD A122 790
MP EL-82-5	Oct 1982	Water Supply Analysis for the Guam Comprehensive Study, by T. M. Walski	AD A122 614
MP EL-82-7	Oct 1982	An Annotated Bibliography for Cleanup of Hazardous Waste Disposal Sites, by A. J. Green	AD A138 833
MP EL-83-1	Jan 1983	Design of Gravel Bar Habitat for the Tombigbee River Near Columbus, Miss., by A. C. Miller, R. H. King, and J. E. Glover	AD A125 814
MP EL-83-2	Mar 1983	Site Characterization for Smoke Week III Battlefield Obscuration Tests at Eglin Air Force Base, Florida, by J. B. Mason and K. S. Long	AD A129 621

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-83-3	Jun 1983	Two-Equation, Depth-Integrated Turbulence Closure for Modeling Geometry-Dominated Flows, by R. S. Chapman	AD A132 347
MP EL-83-4	Sep 1983	Site Characterization and Debris Measurement in the Joint Munitions Dust Test Series at Fort Polk, Louisiana, by J. B. Mason and K. S. Long	AD A134 729
MP EL-83-5	Sep 1983	Computer Modeling of Hydrodynamics and Solute Transport in Canals and Marinas; Literature Review and Guidelines for Future Development, by Raymond Walton	AD A133 850
MP EL-83-6	Sep 1983	Proceedings of Symposium on Cost Estimating for Water Supply Planning Studies, edited by T. M. Walski	AD A134 010
MP EL-83-8*	Sep 1983	Using a Remotely Sensed Spatial Database for Environmental Analysis, by T. J. Hodgini	
Unnumbered	Oct 1983	Report of Freshwater Mussels Workshop; 26-27 October 1982, compiled by A. C. Miller	AD A139 620
MP EL-84-1	Jan 1984	Survey of Automated Statewide Natural Resource Information Systems, by E. M. Causey	AD A139 017
MP EL-84-2**	Apr 1984	Short Perimeter Intrusion Radar and Ported Coaxial Cable Sensor Slot/Seal Study, by L. N. Godwin	AD B083 557L
MP EL-84-3**	May 1984	A Review of Research and Doctrine on Mine Deployment in Urban Terrain, by T. J. Hodgini	AD B083 713L
MP EL-84-4	Jun 1984	An Implicit, Wiggle-Free, and Accurate Upstream Finite-Difference Algorithm for the One-Dimensional Transport-Diffusion Equation, by D. R. Basco	AD A143 141
MP EL-84-5	May 1984	Handbook for the Institutional and Financial Implementation of Water Utilities, by M. J. Cullinane, Jr., and J. S. Condra	AD A143 022
Unnumbered		Report of the Fourth Sensor Technology Symposium, 26-28 April 1983:	
**	Jul 1984	Volume I Unclassified Papers	AD B091 801
Unnumbered**	Aug 1984	Battlefield Dust Environment Workshop, by J. B. Mason and Adarsh Deepak	AD B086 446L

* For Official Use Only.

** Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-84-6	Sep 1984	Results of Fort Carson, Colorado, Terrain Dust Obscuration Tests Using Explosives; Soil, Crater, and Dust Cloud Properties, by K. S. Long, J. B. Mason, and B. P. Durst	AD A148 501
MP EL-84-7	Oct 1984	Restoration of Pyritic Soils and the Quantification of Erosion Control, by C. R. Lee and J. R. Skogerboe	AD A149 217
MP EL-84-8	Dec 1984	Overwash Processes and Foredune Ecology, Nauset Spit, Massachusetts, by R. E. Zaremba and S. P. Leatherman	AD A157 433
Unnumbered*	Dec 1984	Battlefield Dust Environment Symposium I, edited by J. B. Mason and Adarsh Deepak	AD B089 363L
Unnumbered	Dec 1984	Proceedings of the Ground-Water Detection Workshop, 12-14 January 1982, Vicksburg, Mississippi, compiled by E. A. Dardear, Jr.	AD A154 053
MP EL-85-1	Apr 1985 Reprinted	Status and Source of Habitat Models and Literature Reviews, December 1984, by T. H. Roberts, L. J. O'Neil, and W. E. Jabour	AD A156 899
MP EL-85-2	Aug 1985	Selection of Turbulence and Mixing Parameterizations for Estuary Water Quality Models, by K. W. Bedford	AD A159 510
MP EL-85-3	Sep 1985	Southwest Mississippi Tributaries Study Area Environmental Inventory--Wildlife Resources, by W. A. Mitchell and C. O. Martin	AD A161 894
MP EL-85-4	Sep 1985	Water Supply Analysis Study for the Island of Saipan, by J. S. Condra	AD A161 830
MP EL-85-5	Oct 1985	Environmental Planning and Management Alternatives for the Tennessee-Tombigbee Corridor, by J. E. Henderson and J. W. Teaford	AD A164 307
MP EL-85-6	Oct 1985	Culture and Toxicity Tests Using Los Angeles District Bioassay Animals, <i>Acanthomysis</i> and <i>Neanthes</i> , by H. E. Tatem and A. S. Portzer	AD A165 468
MP EL-85-7	Nov 1985	Innovative Solidification Techniques for Hazardous Wastes at Army Installations, by T. E. Myers	AD A163 448
MP EL-85-8	Nov 1985	Species Selection for Habitat Assessments, by T. H. Roberts and L. J. O'Neil	
MP EL-85-9	Oct 1985	Water Quality Studies: Richard B. Russell and Clarks Hill Lakes; First Annual Interim Report, by W. F. James, R. H. Kennedy, S. P. Schreiner, et al.	AD A164 329

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered*	Oct 1985	Battlefield Dust Environment Symposium II, by K. S. Long and Adarish Deepak	AD B103 395
MP EL-85-10	Dec 1985	Effects of Water Level Changes on Fishes of the Yazoo River Basin, Mississippi, by K. J. Killgore and A. C. Miller	AD A164 145
MP EL-86-1	Jan 1986	A Review and Evaluation of Reliability Concepts for Design of Water Distribution Systems, by L. W. Mays and M. J. Cullinane	AD A165 859
MP EL-86-2	Jan 1986	Remedial Investigation of Contaminant Mobility at Naval Weapons Station, Concord, California, by C. R. Lee, L. J. O'Neil, E. J. Clairain, et al.	AD A165 127
	Jun 1988	Subtitle Appendix 2.5 - 1986/87 Data, by C. R. Lee, L. J. O'Neil, D. L. Brandon, et al.	AD A195 946
MP EL-86-3	Feb 1986	Feasibility Study of Contamination Remediation at Naval Weapons Station, Concord, California, by M. J. Cullinane, Jr., C. R. Lee, L. J. O'Neil, and E. J. Clairain	AD A165 623
	Sep 1988	Volume I Remedial Action Alternatives, by M. J. Cullinane, Jr., C. R. Lee, and L. J. O'Neil	AD A199 116
MP EL-86-4	Mar 1986	Water Quality Study of Proposed Reregulation Dam Downstream of Wolf Creek Dam, Cumberland River, Kentucky, by J. L. Martin	AD A167 132
MP EL-86-5	Jun 1986	Calibration of a Water Quality Model for Lake Ashatabutla, North Dakota, by J. H. Wlosinski	AD A171 871
MP EL-86-6	Jun 1986	Bioassessment Methodologies for the Regulatory Testing of Freshwater Dredged Material; Proceedings of a Workshop, by T. M. Dillon and A. B. Gibson	AD A170 870
MP EL-86-7	Jun 1986	A Survey for Live Mussels in the Black and Spring Rivers, Arkansas, 1985, by A. C. Miller and P. D. Hartfield	AD A171 515
MP EL-86-8	Aug 1986	Long-term Effectiveness of Capping in Isolating Dutch Kills Sediment from Biota and the Overlying Water, by J. M. Brannon, R. E. Hoeppe, Issac Smith, Jr., and Douglas Gunnison	AD A172 353
MP EL-86-9	Aug 1986	Investigation of Water Quality and Fisheries of the Black River Lake-Cocodrie Lake Area, Louisiana, by L. G. Sanders, R. E. Coleman, and R. C. Gunkel	AD A172 169

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-86-10	Oct 1986	A Source Manual of Raptors Occurring on Corps of Engineers Lands in the Pacific Northwest Region, by T. L. Fleming and M. F. Passmore	AD A175 885
MP EL-86-11	Nov 1986	Effects of Flow Alterations on Trout Habitat in the Cumberland River Below Wolf Creek Dam, Kentucky, by J. L. Martin, L. T. Curtis, and J. M. Nestler	AD A176 481
MP EL-86-12	Dec 1986	Water Quality Studies: Richard B. Russell and Clarks Hill Lakes: Second Annual Interim Report	AD A181 412
MP EL-87-1	Mar 1987	Effects of Norfolk Harbor Deepening on Management of Craney Island Disposal Area, by D. F. Hayes	
MP EL-87-2	Mar 1987	Comparative Effects on Trout Habitat of Hydropower Modification with and without Reregulation in the Cumberland River Below Wolf Creek Dam, Kentucky, by L. T. Curtis, J. M. Nestler, and J. L. Martin	AD A179 787
MP EL-87-3	Apr 1987	A Study of <i>Orconectes Shoupi</i> , Mill Creek Basin, Tennessee, 1985, by A. C. Miller and P. D. Hartfield	AD A181 210
MP EL-87-4	Apr 1987	Application of the Habitat Evaluation Procedures in the Cypress Bayou Basin, Texas, by K. J. Killgore and P. M. Hathorn	AD A182 788
MP EL-87-5	Jun 1987	A Survey for Molluscs in the White River Near Newport, Arkansas, 1986, by A. C. Miller and J. L. Harris	AD A182 973
MP EL-87-6	Apr 1987	Preliminary Assessment of Bioaccumulation of Metals and Organic Contaminants at the Times Beach Confined Disposal Site, Buffalo, N.Y., by J. M. Marquenie, J. W. Simmers, and S. H. Kay	AD A183 958
MP EL-87-7	Jul 1987	Use of Habitat Evaluation Procedures in Estuarine and Coastal Marine Habitats, by D. A. Nelson	AD A185 613
MP EL-87-8	Aug 1987	Physical Effects of Commercial Navigation Traffic in Large Waterways; Summary of a Workshop Held in Louisville, Kentucky, 4 March 1986, by A. C. Miller and T. S. Siemsen	AD A184 446
MP EL-87-9		Disposal Alternatives for PCB-Contaminated Sediments From Indiana Harbor, Indiana:	
	Aug 1987	Volume I Main Text	
	Aug 1987	Volume II Appendixes A-J	
MP EL-87-10	Oct 1987	Investigation of the Fisheries of Africa, Buck, and Judd Lakes, Louisiana, by L. G. Sanders and J. A. Baker	AD A188 978

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-87-11*	Oct 1987	Red River Water Quality Modeling Study, by J. L. Martin	AD B118 378L
MP EL-87-12	Nov 1987	Management of Environmental Resources of Cutoff Bends Along the Tennessee-Tombigbee Waterway, by F. D. Shields, Jr.	AD A190 426
MP EL-87-13	Nov 1987	Recent Developments in the Analysis of Metals in Water, Wastewater, and other Matrices, by L. W. Jones, M. J. Cullinane, Jr., and J. N. Jones	AD A189 416
MP EL-87-14	Nov 1987	Community Habitat Suitability Models for Warmwater Fishes, by A. C. Miller, K. J. Killgore, B. S. Payne, and Johnny Franklin	AD A190 427
MP EL-87-15	Dec 1987	Development of a Model to Predict Longitudinal Water Temperatures for the Rogue River, Oregon, by D. E. Hamlin and J. M. Nestler	AD A189 074
MP EL-88-1	Feb 1988	Demonstrations of Innovative and Conventional Dredging Equipment at Calumet Harbor, Illinois, by D. F. Hayes, T. N. McLellan, and C. L. Truitt	AD A191 064
MP EL-88-2	Feb 1988	Predicting Internal Roughness in Water Mains, by T. M. Walski, W. W. Sharp, and F. D. Shields, Jr.	AD A194 321
MP EL-88-3	Feb 1988	Proceedings of the U.S. Army Corps of Engineers Riparian Zone Restoration and Management Workshop, 24-27 February 1986, by C. O. Martin and H. H. Allen	AD A203 237
MP EL-88-4	Mar 1988	Biological and Physical Conditions at a Newly Placed Gravel Bar Habitat in the Tombigbee River, by A. C. Miller, K. J. Killgore, R. H. King, and T. J. Naimo	AD A193 879
MP EL-88-5*	Apr 1988	Terrain Characterization for Artillery-Delivered Expendable Jammer (ADEXJAM) Test Program, by R. R. Williams, T. E. Berry, and F. A. Clark	AD B120 738L
MP EL-88-6	Apr 1988	Eutrophication Assessment and Management at Tioga, Hammond, Cowanesque, Whitney Point, and East Sidney Lakes, Pennsylvania-New York, by R. H. Kennedy, S. L. Ashby, R. F. Gaugush, and R. C. Gunkel, Jr.	AD A193 422
MP EL-88-7	Apr 1988	Ported Coaxial Cable Sensor (PCCS) Predeployment Site Characterization Survey Report, Ellsworth Air Force Base, South Dakota, by R. D. Sumner	
MP EL-88-8	Jun 1988	Mussels of the East Fork of the Tombigbee River, Monroe and Itawamba Counties, Mississippi, by A. C. Miller and P. D. Hartfield	AD A197 129

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-88-9	Aug 1988	Work Plan for Three-Dimensional Time-Varying, Hydrodynamic and Water Quality Model of Chesapeake Bay, by M. S. Dortch, C. F. Cerco, D. L. Robey, et al.	AD A199 326
MP EL-88-10	Aug 1988	Predicted Effects of Hydropower Uprate on Trout Habitat in the Cumberland River, Downstream of Wolf Creek Dam, Kentucky, by J. M. Nestler, J. A. Gore, L. T. Curtis, and J. L. Martin	AD A200 562
MP EL-88-11	Sep 1988	Biological and Physical Effects of Missouri River Spur Dike Notching, by C. H. Pennington, F. D. Shields, Jr., J. W. Sjostrom, and K. A. Myers	AD A199 779
MP EL-88-12*	Sep 1988	Dominant Terrain Conditions in the Proposed Montana SICBM/HML Basing Area, by M. R. Kress	AD B128 443
MP EL-88-13	Sep 1988	Summary of Corps of Engineers Methodologies for Modeling Water Quality of Estuaries and Coastal Embayments, by R. W. Hall, M. S. Dortch, and S. L. Bird	AD A199 898
MP EL-88-14		Characteristics of Operational Environments for Wide-Area Mine Design and Evaluation:	
*	Nov 1988	Report 1: Preliminary Evaluation, by P. L. Doiron, Bruce Sabol, and C. A. Miller	AD B129 067L
MP EL-88-15	Nov 1988	Evaluation of Dredged Material for Use as Sanitary Landfill Cover, by M. E. Poindexter	AD A203 107
Unnumbered*	Nov 1988	Battlefield Dust Environment Symposium III, edited by R. R. Williams and R. E. Davis	AD B128 953
MP EL-88-16	Dec 1988	Water Quality Studies: Richard B. Russell and J. Stro... Thurmond Lakes; Third Annual Interim Report, by J. J. Hains, R. C. Gunkel, Jr., J. H. Carroll, et al.	AD A203 523
MP EL-88-17	Dec 1988	Dye Tracer Study at the Saginaw Bay, Michigan, Confined Disposal Facility, by P. R. Schroeder and B. M. McEnroe	AD A203 682
MP EL-88-18	Dec 1988	Investigation of Environmental Problems in the Big Eau Pleine Reservoir, Wisconsin, by Douglas Gunnison and J. W. Barko	AD A203 691
MP EL-89-1	Apr 1989	Responses to Comments, by C. R. Lee, M. J. Cullinane, Jr., L. J. O'Neil, et al.	AD A206 781

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-89-2	Apr 1989	Proceedings of the Fifth Corps Chemist Meeting, 17-18 May 1988, by A. B. Strong, K. F. Myers, and G. M. Warren	AD A208 420
MP EL-89-3	May 1989	Theoretical Models for Evaluation of Volatile Emissions to Air During Dredged Material Disposal with Applications to New Bedford Harbor, Massachusetts, by L. J. Thibodeaux	AD A208 915
MP EL-89-4	Jun 1989	A Workshop to Investigate Techniques to Analyze Physical and Biological Effects of Commercial Navigation Traffic, by A. C. Miller and B. S. Payne	AD A209 570
MP EL-89-5	Jun 1989	Physical Changes in Cutoff Bends Along the Tennessee-Tombigbee Waterway, by F. D. Shields, Jr., and A. C. Gibson	AD A210 277
MP EL-89-6	Jun 1989	Dust and Erosion Control Methods for U.S. Army Construction Projects in Honduras, by T. R. Higgins and R. A. Price	AD A211 237
MP EL-89-7*	Jun 1989	Environmental Site Characterization for the Wide Area Mine (WAM) Sensor Demonstration, Yuma Proving Ground, August 1988, by Bruce Sabol, Tommy Berry, Clay Bount, and Ben Carnes	AD B134 516
MP EL-89-8	Sep 1989	Mitigation Database: Tracking Mitigation Activities in the Section 404 Permitting Program, by J. S. Wakeley	AD A213 893
MP EL-89-9*	Oct 1989	Millimetre Wave Reflectance Measurements of Radar Cross-Section Reduction Materials, by K. R. Long	AD B138 336
MP EL-89-10		Fort Monmouth, New Jersey, Water Distribution Systems:	
	Sep 1989	Volume I Preliminary Assessment, by W. W. Sharp, D. V. Chase, and P. R. Schroeder	AD A214 466
MP EL-89-11	Oct 1989	Phase I Studies: Impacts of Commercial Navigation Traffic on Freshwater Mussels--A Review, by A. C. Miller	AD A214 464
MP EL-90-1	Jan 1990	Water Quality Studies: Richard B. Russell and J. Strom Thurmond Lakes; Fourth Annual Interim Report, by S. L. Ashby, R. H. Kennedy, J. H. Carroll, and R. C. Gunkel, Jr.	AD A217 801
MP EL-90-2	Jan 1990	Review and Synthesis of Bioassessment Methodologies for Freshwater Contaminated Sediments, by T. M. Dillon and A. B. Gibson	AD A217 258

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-90-3	Jan 1990	Workshop Proceedings: Results of the Richard B. Russell Fish Entrainment Study, edited by J. M. Nestler and G. R. Ploskey	AD A221 244
MP EL-90-4	Feb 1990	Relationships of Physical and Biological Characteristics of Cutoff Bends Along the Tennessee-Tombigbee Waterway, by F. D. Shields, Jr., T. E. Schaefer, and A. C. Gibson	AD A219 699
MP EL-90-5	Feb 1990	Proceedings of the National Workshop on Methods to Minimize Dredging Impacts on Sea Turtles, 11 and 12 May 1988, Jacksonville, Florida, compiled by D. D. Dickerson and D. A. Nelson	AD A218 990
MP EL-90-6	Feb 1990	Surface Erosion and Disturbance at Archeological Sites: Implications for Site Preservation, by Anne MacDonald	AD A219 619
MP EL-90-7	Mar 1990	Bioassessment Methodologies for the Regulatory Testing of Freshwater Dredged Material: Phase II Report, by Greg Busacker, Dennis Anderson, Alfreda Gibson, and Thomas Dillon	AD A221 550
MP EL-90-8	May 1990	Long-Term Management Strategy for Dredged Material Disposal for the Naval Weapons Station, Yorktown, Yorktown, Virginia; Naval Supply Center, Cheatham Annex, Williamsburg, Virginia; and Naval Amphibious Base, Little Creek, Norfolk, Virginia; Phase I, by P. A. Zappi, M. R. Palermo, and M. W. LaSalle	AD A223 017
MP EL-90-9	May 1990	Compatibility of Ninth Avenue Superfund Site Ground Water with Two Soil-Bentonite Slurry Wall Backfill Mixtures, by M. E. Zappi, R. A. Shafer, and D. D. Adrian	AD A224 171
MP EL-90-10	Jul 1990	Craney Island Disposal Area; Site Operations and Monitoring Report, 1980-1987, by M. R. Palermo and T. E. Schaefer	AD A225 792
MP EL-90-11	Jul 1990	Regulatory Evaluation of Petroleum Hydrocarbons in Dredged Material; Proceedings of a Workshop, compiled by J. U. Clarke and A. S. Jarvis	AD A226 222
MP EL-90-12*	Aug 1990	Digital Environmental Database for the Peacekeeper Rail Garrison Hardness Evaluation and Survivability Assessment Program, by M. R. Kress	AD B148 002
MP EL-90-13	Aug 1990	Abstracts of the Second International Symposium on Gas Transfer at Water Surfaces	AD A227 919

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-90-14	Sep 1990	Proceedings of the Sixth Corps Chemists Meeting, 16-17 May 1989, compiled by A. B. Strong and A. B. Morrow	AD A227 705
MP EL-90-15	Aug 1990	Management Approaches for Water Quality Enhancement at Whitney Point and East Sidney Lakes, New York, by S. L. Ashby and R. H. Kennedy	AD A229 529
MP EL-90-16	Sep 1990	Evaluation of Loading and Dredged Material Overflow from Mechanically Filled Hopper Barges in Mobile Bay, Alabama, by M. R. Palermo and P. A. Zappi	AD A226 934
MP EL-90-17	Sep 1990	Environmental Impact Assessment in Coastal Habitats: An Evaluation of Predictions, by C. T. Hackney	AD A227 329
MP EL-90-18	Nov 1990	Evaluation of Mosquito Breeding on Corps of Engineers Properties Adjacent to Williston, North Dakota, by A. F. Cofrancesco, Jr.	AD A230 821
MP EL-90-19	Oct 1990	Prototype Environmental Digital Data for Material Design, Testing, and Evaluation, by M. E. Causey and H. W. West	AD A230 896
MP EL-90-20	Nov 1990	Assessment of Dredged Material Toxicity in San Francisco Bay, by T. M. Dillon and D. W. Moore	AD A230 750
MP EL-90-21	Dec 1990	Evaluation of Sleeve Gun Effectiveness in Repelling Adult Striped Bass, by G. R. Ploskey, J. M. Nestler, and J. L. Pickens	AD A231 516
MP EL-90-22	Dec 1990	Information Summary, Area of Concern: Ashtabula River, Ohio, by H. E. Tatem, D. L. Brandon, C. R. Lee, et al.	AD A235 412
MP EL-90-23	Dec 1990	Assessment of Avian Botulism Control Pilot Project at the Dike 14 Confined Dredged Material Disposal Facility, Cleveland, Ohio, by J. W. Simmers, S. I. Apfelbaum, and L. F. Bryniarski	AD A231 729
MP EL-90-24	Dec 1990	Distribution of PCB and Pesticide Contaminants in the Vicinity of the Times Beach Confined Disposal Facility, Buffalo, New York, by J. M. Marquenie, J. W. Simmers, R. G. Rhett, and D. L. Brandon	AD A231 669
MP EL-90-25	Dec 1990	Review of Removal, Containment and Treatment Technologies for Remediation of Contaminated Sediment in the Great Lakes, by D. E. Averett, B. D. Perry, E. J. Torrey, and J. A. Miller	AD A233 946

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-91-1*	Jan 1991	X-Band Specular Reflectance Measurements with Application to Radar Camouflage of Fixed Installations, by E. L. Jacobs	AD B152 139
MP EL-91-2	Jan 1991	Effects of Storage on Sediment Toxicity, Bioaccumulation Potential, and Chemistry, by H. E. Tatem, D. L. Brandon, C. R. Lee, et al.	AD A231 515
MP EL-91-3	Feb 1991	Macroinvertebrates in the Savannah River Below Richard B. Russel Lake, Georgia and South Carolina, by A. C. Miller and C. R. Bingham	AD A232 423
MP EL-91-4	Jan 1991	Polychlorinated Biphenyl Levels in the Saginaw Confined Disposal Facility During Disposal Operations, Fall 1987, by T. E. Myers	AD A232 735
MP EL-91-5	Feb 1991	Macroinvertebrates of Luxapalila Creek, Mississippi and Alabama, 1987-89, by B. S. Payne, A. C. Miller, Christina Miller-Way, and C. R. Bingham	AD A232 870
MP EL-91-6	Mar 1991	Information Summary, Area of Concern: Sheboygan River, Wisconsin, by J. G. Skogerboe, C. R. Lee, D. L. Brandon, et al.	AD A234 554
MP EL-91-7	Mar 1991	Information Summary, Area of Concern: Saginaw River and Saginaw Bay, by D. L. Brandon, C. R. Lee, J. W. Simmers, et al.	AD A235 655
MP EL-91-8	Mar 1991	Treatability of Ninth Avenue Superfund Site Groundwater, by M. E. Zappi, Cynthia Teeter, Elizabeth Fleming, and N. R. Francingues	AD A235 370
MP EL-91-9	Mar 1991	Information Summary, Area of Concern: Buffalo River, New York, by C. R. Lee, D. L. Brandon, J. W. Simmers, et al.	AD A235 280
MP EL-91-10	Mar 1991	Information Summary, Area of Concern: Grand Calumet River, Indiana, by J. W. Simmers, C. R. Lee, D. L. Brandon, et al.	AD A236 435
MP EL-91-11	May 1991	An Evaluation of Solidification/Stabilization Technology for Buffalo River Sediment, by E. C. Fleming, D. E. Averett, M. G. Channell, and B. D. Perry	AD A236 435
MP EL-91-12	Apr 1991	An Investigation of Methods to Measure and Predict Biological and Physical Effects of Commercial Navigation Traffic: Workshop II, by A. C. Miller and B. S. Payne	AD A236 673

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-91-13	Apr 1991	Role of Channel Migration in the Initiation and Maintenance of Forest Communities in Western Tennessee, by David Shankman	AD A236 661
MP EL-91-14	May 1991	Environmental Site Characterization for the Wide Area Mine Sensor Demonstration, Aberdeen Proving Ground, October 1988, by B. M. Sabol, T. E. Berry, and B. L. Carnes	AD A237 045
MP EL-91-15	May 1991	Preliminary Results of the Richard B. Russell Fish Entrainment Study; Proceedings of a Workshop, compiled by J. M. Nestler	AD A237 329
MP EL-91-16	May 1991	Effects of Microtopographic Features on Tilt of the Wide Area Mine Ground Platform, by Bruce Sabol and Tommy Berry	AD A237 421
MP EL-91-18	Aug 1991	Operational Performance Testing of a Fence Mounted Perimeter Intrusion Detection System, by C. B. Blount, C. R. Malone, and C. A. Miller	AD A242 295
MP EL-91-19*	Sep 1991	A Conceptual Approach for Fixed-Facility Camouflage, by J. O. Curtis	
MP EL-91-20	Sep 1991	Innovative Technologies for Dredging Contaminated Sediments, by P. A. Zappi and D. F. Hayes	AD A241 516
MP EL-91-21	Sep 1991	Vegetation as an Agronomic Method of Dust Control on Helicopter Training Areas at Fort Rucker, Alabama, by R. A. Price, T. R. Higgins, and B. L. Folsom, Jr.	AD A242 403
MP EL-91-22	Nov 1991	Water Quality Studies in the Upper Yazoo Project Area, Mississippi, by J. C. Pennington, B. W. Bunch, C. E. Ruiz, et al.	AD A244 089
MP EL-91-23	Nov 1991	Water Quality Studies in the Upper Watershed of Steele Bayou, Mississippi, by S. L. Ashby, T. C. Sturgis, C. B. Price, et al.	AD A244 100
MP EL-91-24*	Dec 1991	Conceptual Design and Development Plan for the Obstacle Planner Software (OPS), by P. L. Doiron and Robert Underwood	AD B161 415
MP EL-92-1	Feb 1992	Considerations for Preparing Camouflage, Concealment, and Deception (CCD) Installation Guidance, by J. C. Duke, Jr., B. P. Durst, D. L. Meeker, and G. I. Velazquez	AD A248 036

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-92-2	Feb 1992	Delineation of Wetlands of the Yazoo River Basin in Northwestern Mississippi, by W. N. Kirchner, B. A. Kleiss, E. J. Clairain, Jr., et al.	AD A247 933
MP EL-92-4	Apr 1992	A New Concept for Camouflage, Concealment, and Deception Using Laminated Paper Glass (LPG) Appliques, by J. C. Duke, B. P. Durst, and D. L. Meeker	AD A251 778
MP EL-92-5	Jul 1992	Assessment of Habitat/Resource Evaluation Methods for Use in Comparing Estuarine and Coastal Habitats, by Mark LaSalle and G. L. Ray	AD A254 239
MP EL-92-6	Aug 1992	Craney Island Disposal Area: Updated Projections for Filling Rates Through 1989, by T. S. Dozier, M. R. Palermo, and J. J. Ingram	AD A256 068
	Dec 1992	Errata Sheet No. 1	
MP EL-92-7*	Aug 1992	Environmental Site Characterization of the Wide Area Mine (WAM) Sensor Demonstration at Aberdeen Proving Ground, Maryland, August 1991, by B. L. Carnes and N. F. Larsen	AD B167 550L
MP EL-92-8*	Aug 1992	Spectral Responses of Selected Mines, by K. S. Long and J. H. Ballard	AD B175 756
MP EL-92-9*	May 1992	Environmental Site Characterization of the FOXFIRE 31 Test Site, Aberdeen Proving Ground, Maryland, March 1990, by B. L. Carnes and N. F. Larsen	AD B168 830L
MP EL-92-10	Sep 1992	A Plan for Developing a Hierarchical Three-Dimensional Landscape Signature Model, by R. K. Scoggins and L. K. Balick	AD A257 550
MP EL-92-11	Oct 1992	Mussel Surveys at Potential Mooring Sites for Barge Tows Near Upper Mississippi River Locks and Dams 9 and 10, September 1990, by B. S. Payne and A. C. Miller	AD A257 732
MP EL-92-12		Evaluation of Upland Disposal of Oakland Harbor, California, Sediment:	
	Oct 1992	Volume I: Turning Basin Sediments, by C. R. Lee, H. E. Tatem, J. W. Simmers, et al.	AD A259 279
MP EL-92-13	Dec 1992	Bioassays on Illinois Waterway Dredged Material, by D. W. Moore, A. B. Gibson, and T. M. Dillon	AD A261 923

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP EL-93-1	Mar 1993	Long-Term Management Strategy for Dredged Material Disposal for Naval Weapons Station, Yorktown, Yorktown, Virginia; Naval Supply Center, Cheatham Annex, Williamsburg, Virginia; and Naval Amphibious Base, Little Creek, Norfolk, Virginia, by M. R. Palermo, P. A. Zappi, T. M. Dillon, et al.	AD A264 269
MP EL-93-2*	Apr 1993	White Phosphorus Wetland Storage Installation Assessment Report: Fort Meade, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	
MP EL-93-3*	Apr 1993	White Phosphorus Wetland Storage Installation Assessment Report: Fort Devens, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	
MP EL-93-4*	Apr 1993	White Phosphorus Wetland Storage Installation Assessment Report: Fort Sill, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	
MP EL-93-5	May 1993	Environmental Characterization for the Sense and Destroy Armor (SADARM) Captive Flight Test, U.S. Army Yuma Proving Ground, Arizona, by J. O. Curtis and F. A. Clark	AD A266 376
MP EL-93-6*	May 1993	White Phosphorus Wetland Storage Installation Assessment Report: Fort Bragg, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	
MP EL-93-7*	May 1993	White Phosphorous Wetland Storage Installation Assessment Report: Fort Chaffee, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	
MP EL-93-8*	Jun 1993	White Phosphorus Wetland Storage Installation Assessment Report: Fort Campbell, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	
MP EL-93-9*	Jun 1993	White Phosphorous Wetland Storage Installation Assessment Report: Fort Dix, by J. W. Simmers, R. A. Price, R. P. Jones, Jr., et al.	

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-79-1	Feb 1979	Acoustic-to-Seismic Coupling; Properties and Applications to Seismic Sensors, by M. D. Flohr and D. H. Cress	AD A067 348
TR EL-79-2	May 1979	Proceedings of the Military Hydrology Workshop, 17-19 May 1978, Vicksburg, Mississippi	AD A069 404
TR EL-79-3	Jun 1979	Plan for Development of Systematic Procedures to Aid Corps Districts in Flood Damage Calculations, by V. E. LaGarde	AD A074 232
TR EL-79-4	Jun 1979	Fisheries and Limnological Studies on West Point Reservoir, Alabama-Georgia, by W. D. Davies, W. L. Shelton, D. R. Bayne, and J. M. Lawrence	AD A073 061
TR EL-79-5	Jul 1979	Water Quality Evaluation of Proposed Twin Valley Lake, Wild Rice River, Minnesota, by D. E. Ford, K. W. Thornton, W. B. Ford III, and A. S. Lessem	AD A074 550
TR EL-79-6	Jul 1979	Properties of Steady Viscosity-Stratified Flow to a Line Sink, by T. M. Walski	AD A073 371
TR EL-79-7	Aug 1979	Planning Manual for Systematic River Basin Floodplain Studies, by Gert Aron	AD A076 441
TR EL-80-1	1980	Remote-Sensing Procedures for Detecting and Monitoring Various Activities Regulated by the Mobile District, by Horton Struve and W. L. Kirk	AD A087 584
TR EL-80-2*	Mar 1980	Testing Piezoelectric Line Transducers, by M. D. Flohr and D. H. Cress	AD B047 454L
TR EL-80-3		A Computer Model for Evaluating Terrain Shielding of Helicopter Flight Paths from Ground Weapons:	
*	Jun 1980	Report 1 Exposure of a Hovering Helicopter to Ground Weapons of Unspecified Location, by Timothy Trott and Douglas Hildreth	AD B050 517L
*	Jun 1980	Report 2 Dynamic Survival Probabilities Along Helicopter Paths Over Defended Terrain, by Timothy Trott and Douglas Hildreth	AD B049 981L
*	Dec 1982	Report 3 Survival Probabilities During Antiarmor Attacks of Defended Targets, by Timothy Trott	AD B071 343L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-80-4	Jul 1980	Area Strip Mine Reclamation Using Dredged Material: A Field Demonstration, by E. R. Perrier, J. L. Llopis, and P. A. Spaine	AD A088 612
TR EL-80-5	Jul 1980	Literature Review of Marine Wetland and Estuarine Water Quality and Ecosystem Models, by Peter Hamilton and K. W. Fucik	AD A088 656
TR EL-80-6	Aug 1980	Laboratory and Pilot Scale Evaluation of Coagulation, Clarification, and Filtration for Upgrading Sewage Lagoon Effluents, by M. J. Cullinane, Jr., and R. A. Shafer	AD A088 906
TR EL-80-7	Jul 1980	Suitability of Dredged Material for Reclamation of Surface-Mined Land, Ottawa, Illinois, Demonstration Project, by Wyman Harrison and Abraham Van Luik	AD A088 586
TR EL-80-8	Dec 1980	Effects of Upland Disposal of Dredged Material on Groundwater Quality, by Robert Morrison, Robert Stearns, and K. Y. Chen	AD A099 300
TR EL-80-9	Sep 1980	Fate and Enumeration Problems of Fecal Coliform Bacteria in Runoff Waters from Terrestrial Ecosystems, by R. E. Hoepfel, R. G. Rhett, and C. R. Lee	AD A090 719
TR EL-80-10*	Oct 1980	Algorithms for Camouflage Effectiveness Measurements Using Digital Imagery, by Klemens Vattrodt	AD B052 607L
TR EL-81-1	Jan 1981	Procedural Guide for Designation Surveys of Ocean Dredged Material Disposal Sites, by W. E. Pequegnat, L. H. Pequegnat, B. M. James, et al.	AD A096 955
TR EL-81-2	Mar 1981	Thermal Modeling of Terrain Surface Elements, by L. K. Brooks, L. E. Link, R. K. Scoggins, and J. L. Solomon	AD A098 019
TR EL-81-3	Mar 1981	Evaluation of Underdrainage Techniques for the Densification of Fine-Grained Dredged Material, by D. P. Hammer	AD A099 336
TR EL-81-4*	May 1981	Major Wetland Forest Communities of the U. S. Army Engineer District, Vicksburg: A Phytosociological Assessment, by E. E. Dale, G. T. Johnson, and P. M. Kuroda	

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-81-5	Jun 1981	Field Survey of Heavy Metal Uptake by Naturally Occurring Saltwater and Freshwater Marsh Plants, by J. W. Simmers, B. L. Folsom, Jr., C. R. Lee, and D. J. Bates	AD A101 662
TR EL-81-6	Aug 1981	Thermal Vegetation Canopy Model Studies, by J. A. Smith, K. J. Ranson, D. Nguyen, and L. E. Link	AD A106 422
TR EL-81-7	Oct 1981	Design, Construction, and Analysis of Fabric-Reinforced Embankment Test Section at Pinto Pass, Mobile, Alabama, by Jack Fowler	AD A107 556
TR EL-81-8	Sep 1981	Considerations in Selecting Bioassay Organisms for Determining the Potential Environmental Impact of Dredged Material, by P. J. Shuba, S. R. Petrocelli, and R. E. Bentley	AD A105 246
TR EL-81-9	Sep 1981	Field Investigations of Overland Flow Treatment of Municipal Lagoon Effluent, by R. E. Peters, C. R. Lee, and D. J. Bates	AD A107 889
TR EL-81-11	Dec 1981	Development of a Management Plan for Craney Island Disposal Area, by M. R. Palermo, F. D. Shields, and D. F. Hayes	AD A111 440
TR EL-81-12	Dec 1981	Influence of Disposal Environment on Availability and Plant Uptake of Heavy Metals in Dredged Material, by B. L. Folsom, Jr., C. R. Lee, and D. J. Bates	AD A112 279
TR EL-81-13	Oct 1981	Impacts of Flooding Regime Modification on Wildlife Habitats of Bottomland Hardwood Forests in the Lower Mississippi Valley, by C. V. Klimas, C. O. Martin, and J. W. Teaford	AD A113 296
TR EL-82-1*	Mar 1982	Prediction of Extended Range Antiarmor Munition (ERAM) Performance in Forested and Nonforested Environments, by T. D. Hutto and H. W. West	AD B064 252L
TR EL-82-2*	Mar 1982	High-Resolution Digital Terrain Data Bases for the Wide-Area Antiarmor Munitions (WAAM) Program, by T. D. Hutto and H. W. West	AD B064 507L
TR EL-82-3	May 1982	Verification of Cost Estimating Procedures for MAPS Computer Program, by A. K. Lindsey and T. M. Walski	AD A116 981

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-82-4		Species Profiles: Life Histories and Environmental Requirements of Coastal Fishes and Invertebrates (also designated as Report No. FWS/OBS-82/11)	
		Gulf of Mexico	AD A147 771
	Feb 1983	Atlantic Croaker, by D. R. Lassuy	AD A180 397
	Feb 1983	Brown Shrimp, by D. R. Lassuy	AD A180 395
	Feb 1983	Gulf Menhaden, by D. R. Lassuy	AD A180 396
	Feb 1983	Spotted Seatrout, by D. R. Lassuy	AD A180 398
	Oct 1983	Bay Anchovy and Striped Anchovy, by H. R. Robinette	AD A180 402
	Oct 1983	Sea Catfish and Gafftopsail Catfish, by R. J. Muncy and W. M. Wingo	AD A180 399
	Sep 1984	Pinfish, by R. J. Muncy	AD A180 388
	Sep 1984	White Shrimp, by R. J. Muncy	AD A162 648
	Mar 1985	Grass Shrimp, by Gary Anderson	AD A162 649
	Mar 1985	Sheepshead, by C. A. Jennings	AD A180 390
	Apr 1985	Common Rangia, by M. W. LaSalle and A. A. de la Cruz	AD A162 637
	Apr 1985	Southern Flounder, by R. E. Reagan, Jr., and W. M. Wingo	AD A180 391
	Jun 1985	Red Drum, by R. E. Reagan, Jr.	AD A162 650
	Apr 1986	Black Drum, by F. C. Sutter, R. S. Waller, and T. D. McIlwain	AD A181 585
	Jun 1986	Blue Crab, by H. M. Perry and T. D. McIlwain	AD A173 691
	Jul 1986	American Oyster, by J. G. Stanley	AD A181 584
	Mar 1987	Sand Seatrout and Silver Seatrout, by F. C. Sutter and T. D. McIlwain	AD A183 071
	Aug 1988	Red Snapper, by David Moran	AD A200 514

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Mid Atlantic	AD A147 772
TR EL-82-4 (Cont.)	Oct 1983	Alewife/Blueback Herring, by C. W. Fay, R. J. Neves, and G. B. Pardue	AD A180 383
	Oct 1983	Atlantic Silverside, by C. W. Fay, R. J. Neves, and G. B. Pardue	AD A180 384
	Oct 1983	Bay Scallop, by C. W. Fay, R. J. Neves, and G. B. Pardue	AD A180 385
	Oct 1983	Striped Bass, by C. W. Fay, R. J. Neves, and G. B. Pardue	AD A180 382
	Oct 1983	Surf Clam, by C. W. Fay, R. J. Neves, and G. B. Pardue	AD A180 401
	Feb 1985	Hard Clam, by J. G. Stanley	AD A162 643
	Apr 1985	American Shad, by Chet MacKenzie, L. S. Weiss-Glanz, and J. R. Moring	AD A162 647
	Jun 1985	Mummichog and Striped Killifish, by B. J. Abraham	AD A162 641
	Jul 1986	American Oyster, by J. G. Stanley and M. A. Sellers	AD A181 593
	Aug 1986	Softshell Clam, by B. J. Abraham and P. L. Dillon	AD A181 592
	Feb 1989	Bay Anchovy, by Timothy Morton	AD A211 440
	Feb 1989	Bluefish, by G. B. Pottern, M. T. Huish, and J. H. Kerby	AD A206 343
	Feb 1989	Spot, by J. M. Phillips, M. T. Huish, J. H. Kerby, and D. P. Moran	AD A210 182
	Mar 1989	Blue Crab, by Jennifer Hill, D. L. Fowler, and M. J. Van Den Avyle	AD A210 181
	Aug 1989	Atlantic Menhaden, by S. G. Rogers and M. J. Van Den Avyle	AD A214 302
	Aug 1989	Summer and Winter Flounder, by B. H. Grimes, M. T. Huish, J. H. Kerby, and David Moran	AD A214 306
	Aug 1989	Weakfish, by L. P. Mercer	AD A214 304
	Sep 1989	Atlantic Marsh Fiddler, by B. H. Grimes, M. T. Huish, J. H. Kerby, and David Moran	AD A216 438
	Dec 1989	Atlantic and Shortnosed Sturgeons, by C. R. Gilbert	AD A225 440

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		North and Mid-Atlantic	
TR EL-82-4 (Cont.)	Jun 1989	Blue Mussel, by R. I. E. Newell	AD A212 654
	Aug 1989	Tautog and Cunner, by P. J. Auster	AD A214 300
		North Atlantic	AD A147 769
	Oct 1983	Hard Clam, by J. G. Stanley and Rachael DeWitt	AD A180 387
	Oct 1983	White Perch, by J. G. Stanley and D. S. Danie	AD A180 386
	Jul 1984	American Oyster, by M. A. Sellers and J. G. Stanley	AD A151 614
	Jul 1984	Atlantic Salmon, by D. S. Danie, J. G. Trial, and J. G. Stanley	AD A151 190
	Apr 1985	American Lobster, by Chet MacKenzie and J. R. Moring	AD A162 642
	Apr 1986	Atlantic Herring, by K. H. Kelly and J. R. Moring	AD A172 602
	Jun 1986	Softshell Clam, by C. R. Newell and Herbert Hidu	AD A174 837
	Jun 1986	Sand Lance, by P. J. Auster and L. L. Stewart	AD A174 485
	Jul 1986	Alewife/Blueback Herring, by D. M. Mullen, C. W. Fay, and J. R. Moring	AD A181 580
	Jul 1986	American Shad, by L. S. Weiss-Glanz, J. G. Stanley, and J. R. Moring	AD A181 581
	Aug 1986	Sea Scallop, by D. M. Mullen and J. R. Moring	AD A181 582
	Aug 1987	American Eel, by D. E. Facey and M. J. Van Den Avyle	AD A189 643
	Aug 1987	Atlantic Tomcod, by L. L. Stewart and P. J. Auster	AD A189 596
	Apr 1988	Sandworm and Bloodworm, by W. H. Wilson, Jr., and R. E. Ruff	AD A197 785
	Jan 1989	Winter Flounder, by Jack Buckley	AD A206 184
	Aug 1989	Rainbow Smelt, by Jack Buckley	AD A214 305

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Pacific Northwest	AD A181 578
TR EL-82-4 (Cont.)	Oct 1983	Chinook Salmon, by D. A. Beauchamp, M. F. Shepard, and G. B. Pauley	AD A147 263
	Apr 1986	Coho Salmon, by J. C. Laufle, G. B. Pauley, and M. F. Shepard	AD A172 613
	Aug 1986	Steelhead Trout, by G. B. Pauley, B. M. Bortz, and M. F. Shepard	AD A181 589
	Aug 1986	Dungeness Crab, by G. B. Pauley, D. A. Armstrong, and T. W. Heun	AD A181 590
	Aug 1986	Amphipods, by D. J. Grosse, G. B. Pauley, and David Moran	AD A181 591
	Aug 1987	Common Littleneck Clam, by K. K. Chew and A. P. Ma	AD A189 654
	Mar 1988	Chum Salmon, by G. B. Pauley, K. L. Bowers, and G. L. Thomas	AD A196 467
	Sep 1988	Pacific Oyster, by G. B. Pauley, B. Van Der Raay, and David Troutt	AD A203 409
	Jan 1989	Pacific Razor Clam, by D. R. Lassuy and Douglas Simmons	AD A206 183
	Jan 1989	Pink Salmon, by S. A. Bonar, G. B. Pauley, and G. L. Thomas	AD A206 185
	Jan 1989	Ghost Shrimp and Blue Mud Shrimp, by Susanna Horing, Anita Sterling, and S. D. Smith	AD A206 132
	Jan 1989	Sea-Run Cutthroat Trout, by G. B. Pauley, Kevin Oshima, K. L. Bowers, and G. L. Thomas	AD A206 069
	Jul 1989	English Sole, by D. R. Lassuy	AD A214 303
	Dec 1989	Dover and Rock Soles, by H. F. Horton	AD A225 441
	Dec 1989	Lingcod, by W. N. Shaw and T. J. Hassler	AD A224 839
	Dec 1989	Olympia Oyster, by David Couch and T. J. Hassler	AD A225 231
	Dec 1989	Pacific Geoduck Clam, by C. L. Goodwin and Bruce Pease	AD A225 230
	Dec 1989	Pacific Herring, by D. R. Lassuy	AD A224 836
	Dec 1989	Sockeye Salmon, by G. B. Pauley, Ron Risher, and G. L. Thomas	AD A224 838

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Pacific Southwest	AD A147 773
TR EL-82-4 (Cont.)	Feb 1985	California Grunion, by R. A. Fritzsche, R. H. Chamberlain, and R. A. Fisher	AD A181 579
	Mar 1985	Black, Green, and Red Abalones, by J. S. Ault	AD A162 638
	Apr 1986	Spiny Lobster, by W. N. Shaw	AD A172 611
	Apr 1986	Northern Anchovy, by S. T. Kucas, Jr.	AD A172 724
	Apr 1986	Common Littleneck Clam, by W. N. Shaw	AD A173 101
	Apr 1986	Chinook Salmon, by M. A. Allen and T. J. Hassler	AD A172 723
	Apr 1986	California Halibut, by S. T. Kucas and T. J. Hassler	AD A172 677
	Jun 1986	Steelhead, by R. A. Barnhart	AD A173 662
	Aug 1987	Coho Salmon, by T. J. Hassler	AD A190 950
	Feb 1988	Pacific Herring, by R. A. Barnhart	AD A192 216
	Mar 1988	Striped Bass, by T. J. Hassler	AD A195 550
	Sep 1988	California Sea Mussel and Bay Mussel, by W. N. Shaw, T. J. Hassler, and D. P. Moran	AD A201 996
	Jan 1989	Amphipods, by D. J. Grosse and G. B. Pauley	AD A206 131
	Feb 1989	Pismo Clam, by W. N. Shaw and T. J. Hassler	AD A206 133
	Jul 1989	Pile Perch, Striped Seaperch, and Rubberlip Seaperch, by R. A. Fritzsche and T. J. Hassler	AD A212 125
	Aug 1989	Pacific and Speckled Sanddabs, by J. P. Rackowski and E. K. Pritch	AD A214 301
	Sep 1989	Brown Rockfish, Copper Rockfish, and Black Rockfish, by David Stein and T. J. Hassler	AD A216 437
	Dec 1989	Brown Rock Crab, Red Rock Crab, and Yellow Crab, by J. C. Carroll and R. N. Winn	AD A225 229
	Dec 1989	Crangonid Shrimp, by C. A. Siegfried	AD A225 442
	Dec 1989	Dungeness Crab, by G. B. Pauley, D. A. Armstrong, Robert Van Citter, and G. L. Thomas	AD A224 837

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		South Atlantic	AD A147 770
TR EL-82-4 (Cont.)	Oct 1983	Atlantic Menhaden, by S. G. Rogers and M. J. Van Den Avyle	AD A180 379
	Oct 1983	Summer Flounder, by S. G. Rogers and M. J. Van Den Avyle	AD A180 380
	Mar 1984	Blue Crab, by M. J. Van Den Avyle and D. L. Fowler	AD A180 381
	Jul 1984	American Eel, by M. J. Van Den Avyle	AD A151 188
	Jul 1984	Atlantic Sturgeon, by M. J. Van Den Avyle	AD A151 189
	Sep 1984	White Shrimp, by R. J. Muncy	AD A180 389
	Apr 1986	American Shad, by D. E. Facey and M. J. Van Den Avyle	AD A172 695
	Jul 1986	American Oyster, by V. G. Burrell, Jr.	AD A181 583
	Aug 1987	Hard Clam, by A. G. Eversole	AD A189 696
	Jan 1989	Brown Shrimp, by S. C. Larson, M. J. Van Den Avyle, and E. L. Bozeman, Jr.	AD A206 070
	Jan 1989	Spot, by L. S. Hales and M. J. Van Den Avyle	AD A206 295
	Apr 1989	Bluefish, by J. D. Oliver, M. J. Van Den Avyle, and E. L. Bozeman, Jr.	AD A210 168
	Jul 1989	Black Sea Bass, by L. P. Mercer	AD A213 090
	Aug 1989	Alewife and Blueback Herring, by E. L. Bozeman, Jr., and M. J. Van Den Avyle	AD A215 677
	Dec 1989	Striped Bass, by Jennifer Hill, J. W. Evans, and M. J. Van Den Avyle	AD A226 928
		South Florida	
	Oct 1983	Pink Shrimp, by L. M. Bielsa, W. H. Murdich, and R. F. Labisky	AD A180 393
	Oct 1983	Snook, by William Seaman, Jr., and Mark Collins	AD A180 392
	Mar 1984	Stone Crab, by W. J. Lindberg and M. J. Marshall	AD A180 394
	Apr 1985	Striped Mullet, by M. R. Collins	AD A162 639
	May 1985	White Mullet, by M. R. Collins	AD A162 640
	Apr 1986	Florida Pompano, by Carter Gilbert and John Parsons	AD A172 746

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		South Florida (Cont.)	
TR EL-82-4 (Cont.)	Jun 1986	Gray, Lane, Mutton and Yellowtail Snappers, by S. A. Bortone and J. L. Williams	AD A173 781
	Jun 1986	King and Spanish Mackerel, by M. F. Godcharles and M. D. Murphy	AD A173 749
	Jul 1986	Southern Gulf and Summer Flounders, by C. R. Gilbert	AD A181 588
	Aug 1986	Spotted Seatrout, by D. R. Johnson and William Scatman, Jr.	AD A181 587
	Aug 1986	Spiny Lobster, by J. M. Marx and W. F. Hermkund	AD A181 586
	Aug 1987	Long Spined Black Sea Urchin, by J. C. Ogden and R. C. Carpenter	AD A191 540
	Aug 1987	Reef-Building Corals, by J. W. Porter	AD A189 595
	Jul 1989	Ladyfish and Tarpon, by A. V. Zale and S. G. Merrifield	AD A213 081
	Aug 1989	Black, Red, and Nassau Groupers, by D. E. Jory and E. S. Iversen	AD A214 299
	Dec 1989	Reef-Building Tube Worm, by A. V. Zale and S. G. Merrifield	AD A224 840
TR EL-82-5	Aug 1982	Summary of a Workshop on Plant Canopy Structure: 27-30 April 1981, Oak Ridge, Tenn., edited by L. K. Balch and B. A. Hutchinson	AD A119 461
TR EL-82-6	Sep 1982	Algae and Phosphorus Removal from Sewage Lagoon Effluents by In Situ Chemical Addition, by M. J. Cullmann, Jr. and R. A. Shafer	AD A118 483
TR EL-82-8	Oct 1982	Spectral Measurements of Reflectance, Radiance, and Emittance, by Gunter Hubner	AD A122 388
TR EL-83-1	Mar 1983	Mississippi Sound and Adjacent Areas Study Plan for Data-Handling and Analysis, by Victor LaGarde	AD A129 558
TR EL-83-2	Jun 1983	The Role of Physical-Chemical Factors in Structuring Subtidal Marine and Estuarine Benthos, by D. R. Kendall	AD A132 389
	Mar 1985	Errata Sheet No. 1	
TR EL-83-3*	Sep 1983	Adaptation of Seismic-Acoustic Sensor Logics to Site Properties, by M. D. Flohr	AD B095 194L

* For Official Use Only.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-84-1*	Feb 1984	Theory of Field Structure for Ported Coaxial Cable Embedded in Lossy Media, by J. H. Richmond and R. J. Garbacz	AD B081 405L
TR EL-84-2**	Mar 1984	Output Response Characteristics of a Ported Coaxial Cable Sensor (PCCS), by C. A. Miller, M. D. Flohr, and J. R. Lundien	AD B087 993L
TR EL-84-3	Mar 1984	Algorithm for Determining the Effectiveness of Water Conservation Measures, by W. G. Richards, D. J. McCall, and A. K. Deb	AD A142 230
TR EL-84-4		Ecological Effects of Rubble Weir Jetty Construction at Murrells Inlet, South Carolina:	
	Apr 1984	Volume I Colonization and Community Development on New Jetties, by R. F. Van Dolah, D. M. Knott, and D. R. Calder	AD A145 591
	Jun 1984	Volume II Changes in Macrobenthic Communities of Sandy Beach and Nearshore Environments, by D. M. Knott, R. F. Van Dolah, and D. R. Calder	AD A149 211
	Aug 1987	Volume III Community Structure and Habitat Utilization of Fishes and Decapods Associated with the Jetties, by R. F. Van Dolah, P. H. Wendt, C. A. Wenner, et al.	AD A187 676
TR EL-84-5	Apr 1984	Application of Procedures for Testing and Evaluating Water Distribution Systems, by T. M. Walski	AD A144 558
TR EL-84-6	Jun 1984	Simplified Procedure for Calculating Chemical Doses for Water Stabilization for Prevention of Internal Corrosion and Scaling, by J. M. Morgan, T. M. Walski, and M. W. Corey	AD A144 670
TR EL-84-9	Nov 1984	An Analysis of Short- to Medium-Range Seismic Attenuation Tests Using a Multilayered Viscoelastic Seismic Propagation Model, by B. L. Carnes and J. R. Lundien	AD A149 771
TR EL-85-1	Feb 1985	Design and Specification of Low Pressure Sewer Systems for Recreation Areas, by M. J. Cullinane, Jr.	AD A156 986
TR EL-85-2*	Feb 1985	Air Base Camouflage Techniques, by L. E. Link, J. O. Curtis, and Donald Willhouse	AD B090 313L

* Statement B. See Preface.

** For Official Use Only.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-85-3	Mar 1985	Two-Dimensional QUICKEST, Solution of the Depth-Averaged Transport-Dispersion Equation, by R. W. Hall and R. S. Chapman	AD A154 725
TR EL-85-4		Thermal Camouflage of Fixed Installations:	
*	Mar 1985	Report 1 Spectral Reflectance Measurements of Thermal Camouflage Materials, by C. L. Gladen	AD CO382 94L
*	Mar 1985	Report 2 Radiometric Temperature Measurements of Thermal Camouflage Materials, by C. L. Gladen	AD CO382 95L
*	Jan 1986	Report 3 An Analysis of Thermistor Measurements, by J. O. Curtis and C. L. Gladen	
TR EL-85-5	Mar 1985	Cost of Water Distribution System Infrastructure Rehabilitation, Repair, and Replacement, by T. M. Walski	AD A157 492
TR EL-85-6*	May 1985	Target Sensitivity with Periscope Coaxial Cable Buried in Stratified Earth, by J. H. Richmond	AD B093 943L
TR EL-85-7	Jul 1985	Guidelines for Water Quality Laboratory Operations, by J. N. Jones and M. J. Cullinane, Jr.	AD A158 817
TR EL-85-8*	Aug 1985	Evolution of Soviet Doctrine on <i>Maskirovka</i> of Fixed Installations, by C. L. Smith and J. P. Zebrowski	AD B097 166L
TR EL-85-9	Aug 1985	Transplanting of the Seagrasses <i>Zostera Marina</i> and <i>Halodule Wrightii</i> for Sediment Stabilization and Habitat Development on the East Coast of the United States, by M. S. Fonseca, W. J. Kenworthy, G. W. Thayer, et al	AD A160 224
TR EL-85-10	Sep 1985	Ecological Effects of Rubble-Mound Breakwater Construction and Channel Dredging at West Harbor, Ohio (Western Lake Erie), by B. A. Manny, D. W. Schloesser, C. L. Brown, and J. R. P. French III	AD A161 755
TR EL-85-11	Oct 1985	Water Distribution System Optimization, by Johannes Gessler and T. M. Walski	AD A163 493
TR EL-85-12	Dec 1985	Results of Dust Obscuration Tests (DOT) Using Explosives, Fort Carson, Colorado, by K. S. Long and R. R. Williams	AD A169 267

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-85-13*	Oct 1985	Use of Texture Analysis Methods in the Characterization of Minefields and Background in High-Resolution Multi-spectral Imagery, by C. A. Harlow and M. M. Trivedi	AD B099 011
TR EL-85-14*	Dec 1985	Effects of Soil State and Geometry on Leaky Coaxial Cable Sensor Response, by J. H. Ballard and C. A. Miller	AD B102 260L
TR EL-86-1		Prediction of Scatterable Mine/Minefield Deployment Performance in Realistic Battlefield Environments:	
*	Jun 1988	Report 1 Concepts, First-Generation Model, and Prototype Digital Terrain Data Bases, by P. L. Doiron, Sr., and H. W. West	AD B123 684
TR EL-86-2	Jan 1986	Life History and Environmental Requirements of Loggerhead Sea Turtles, by D. A. Nelson	AD A166 236
TR EL-86-2	Aug 1988 Revised	Life History and Environmental Requirements of Loggerhead Sea Turtles, by D. A. Nelson	AD A200 168
TR EL-86-3	Feb 1986	Airborne Sensor Potential for Habitat Evaluation Procedures (HEP), by B. S. Payne and K. S. Long	AD A167 314
TR EL-86-4	Jul 1986	Ruffed Grouse (<i>Bonasa umbellus</i>): Section 4.1.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. A. Crawford	AD A170 875
TR EL-86-5	Jul 1986	Osprey (<i>Pandion haliaetus</i>): Section 4.3.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. J. Henny	AD A171 604
TR EL-86-6	Jul 1986	Eastern Gray Squirrel (<i>Sciurus carolinensis</i>): Section 4.7.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. W. Teaford	AD A171 417
TR EL-86-7	Jul 1986	Impassable Wire Fences: Section 5.2.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy	AD A170 585
TR EL-86-8	Jul 1986	Gallinaceous Guzzlers: Section 5.4.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by Ted Johnson and R. A. (Wilson) Jacobs	AD A171 437
TR EL-86-9	Jul 1986	Greentree Reservoirs: Section 5.5.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell and C. J. Newling	AD A171 200
TR EL-86-10	Jul 1986	Beaver Pond Management: Section 5.5.2, U.S. Army Corps Engineers Wildlife Resources Management Manual, by J. W. Teaford	AD A171 201

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-86-11	Jul 1986	Squirrel Nest Boxes: Section 5.1.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. W. Teaford	AD A170 640
TR EL-86-12	Jul 1986	Wood Duck Nest Boxes: Section 5.1.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by K. T. Riddlehuber and J. W. Teaford	AD A171 605
TR EL-86-13	Jul 1986	Brush Piles: Section 5.3.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. O. Martin and J. L. Steele, Jr	AD A171 203
TR EL-86-14	Jul 1986	Half-Cuts: Section 5.3.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. L. Steele, Jr., and C. O. Martin	AD A171 537
TR EL-86-15	Jul 1986	Waterfowl Nest Baskets: Section 5.1.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy	AD A171 196
TR EL-86-16	Jul 1986	Special Wire Fences: Section 5.2.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy	AD A171 197
TR EL-86-17	Jul 1986	Mechanical Site Preparation Techniques: Section 5.7.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr, M. C. Landin, and C. O. Martin	AD A171 195
TR EL-86-18	Jul 1986	Elevated Quail Roosts: Section 5.1.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. R. Kosciuk and E. P. Peloquin	AD A171 629
TR EL-86-19	Jul 1986	Conventional Wire Fences: Section 5.2.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy and C. O. Martin	AD A171 593
TR EL-86-20	Jul 1986	Wooden Fences: Section 5.2.4, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy and C. O. Martin	AD A171 606
TR EL-86-21	Jul 1986	Osprey Nest Platforms: Section 5.1.6, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. O. Martin, W. A. Mitchell and D. A. Hammer	AD A171 751
TR EL-86-22	Jul 1986	Chufa (<i>Cyperus esculentus</i>): Section 7.4.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell and C. O. Martin	AD A171 202
TR EL-86-23	Jul 1986	Bicolor Lespedeza (<i>Lespedeza bicolor</i>): Section 7.3.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell	AD A171 198

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-86-24	Jul 1986	Doveweeds (<i>Croton</i> spp.): Section 7.4.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy and C. O. Martin	AD A171 199
TR EL-86-25	Jul 1986	Chapter 1. Introduction, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. O. Martin	AD A171 588
TR EL-86-26	Jul 1986	Winterfat (<i>Ceratoides lanata</i>): Section 7.5.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser and P. L. Dittberner	AD A171 609
TR EL-86-27	Jul 1986	Switchgrass (<i>Panicum virgatum</i>): Section 7.1.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and W. A. Mitchell	AD A172 486
TR EL-86-28	Jul 1986	Tall Wheatgrass (<i>Agropyron elongatum</i>): Section 7.1.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and D. R. Dietz	AD A172 501
TR EL-86-29	Jul 1986	Partridge Pea (<i>Cassia fasciculata</i>): Section 7.3.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy and C. O. Martin	AD A171 608
TR EL-86-30	Jul 1986	Alfalfa (<i>Medicago sativa</i>): Section 7.3.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and W. A. Mitchell	AD A173 140
TR EL-86-31	Jul 1986	Smooth Brome (<i>Bromus inermis</i>): Section 7.1.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser and P. L. Dittberner	AD A171 607
TR EL-86-32	Jul 1986	Grass Seeder, Section 8.4.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A172 698
TR EL-86-33	Jul 1986	Antelope Bitterbrush (<i>Purshia tridentata</i>): Section 7.5.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and C. O. Martin	AD A172 521
TR EL-86-34	Jul 1986	White Clover (<i>Trifolium repens</i>): Section 7.3.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, D. R. Dietz, and W. A. Mitchell	AD A172 480
TR EL-86-35	Jul 1986	Disk Plows and Disk Harrows: Section 8.2.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A257 516

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-86-36	Jul 1986	Common Chokecherry (<i>Prunus virginiana</i>): Section 7.5.4, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, D. R. Dietz, and W. A. Mitchell	AD A172 437
TR EL-86-37	Jul 1986	Alkali Sacaton (<i>Sporobolus airoides</i>): Section 7.1.4, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and D. R. Dietz	AD A172 519
TR EL-86-38	Jul 1986	Yellow Sweetclover (<i>Melilotus officinalis</i>): Section 7.3.4, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and W. A. Mitchell	AD A172 508
TR EL-86-39	Jul 1986	Fourwing Saltbush (<i>Atriplex canescens</i>): Section 7.5.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. H. Wasser, P. L. Dittberner, and W. A. Mitchell	AD A171 550
TR EL-86-40	Jul 1986	Root Plows: Section 8.2.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A171 538
TR EL-86-41	Jul 1986	Rangeland Drill: Section 8.4.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A172 689
TR EL-86-42	Jul 1986	Chains and Cables: Section 8.2.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A172 428
TR EL-86-43	Jul 1986	Land Imprinters: Section 8.2.7, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A257 377
TR EL-86-44	Jul 1986	Power Grubbers: Section 8.2.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A173 284
TR EL-86-45	Jul 1986	Spring- and Spike-Tooth Harrows: Section 8.2.6, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr and W. A. Mitchell	AD A173 285
TR EL-86-46	Jul 1986	Rotary Spreaders: Section 8.3.1, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A257 009
TR EL-86-47	Jul 1986	Manure Spreaders: Section 8.3.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. B. Doerr	AD A173 214

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-86-48	Jul 1986	Pasture Drills Section 8.4.2 U.S. Army Corps of Engineers Wildlife Resources Management Manual by T. B. Doerr	AD A257 067
TR EL-86-49	Jul 1986	Press Seeder and Punch Seeder Section 8.4.4 U.S. Army Corps of Engineers Wildlife Resources Management Manual by T. B. Doerr	AD A173 134
TR EL-86-50	Jul 1986	Steep Slope Seeder Section 8.4.6 U.S. Army Corps of Engineers Wildlife Resources Management Manual by T. B. Doerr	AD A173 135
TR EL-86-51	Jul 1986	Hydroseeders/Mulchers Section 8.4.7 U.S. Army Corps of Engineers Wildlife Resources Management Manual by T. B. Doerr	AD A256 597
TR EL-86-52	Jul 1986	White Tailed Deer Track Count Census Section 6.4.2 U.S. Army Corps of Engineers Wildlife Resources Management Manual by W. A. Mitchell	AD A173 207
TR EL-86-53	Jul 1986	Deer Spotlight Census Section 6.4.3 U.S. Army Corps of Engineers Wildlife Resources Management Manual by W. A. Mitchell	AD A173 136
TR EL-86-54	Aug 1986	Snowy Plover (<i>Charadrius alexandrinus</i>) Section 4.4.1 U.S. Army Corps of Engineers Wildlife Resources Management Manual by R. A. (Wilson) Jacobs	AD A172 493
TR EL-86-55	Jul 1986	Chisel Plows Section 8.2.4 U.S. Army Corps of Engineers Wildlife Resources Management Manual by T. B. Doerr	AD A172 547
TR EL-86-57	Dec 1986	Radar Evaluation of Railroad Embankments by J. R. Lundien	AD A176 414
TR EL-87-1*	Mar 1987	Acoustic-to-Seismic Coupling: Applications of the Biot-Stoll Model for Wave Propagation by J. M. Sahauer and Keith Achenborough	AD B112 075L
TR EL-87-2	Apr 1987	Environmental Considerations for Dune-Stabilization Projects by P. L. Knutson and Kenneth Finkelstein	AD A181 897
TR EL-87-3	May 1987	Archaeological Site Preservation Techniques: A Preliminary Review by R. M. Thorne, P. M. Fay, and J. J. Hester	AD A182 619
TR EL-87-4	Jun 1987	Application of CE-QUAL-W2 to the Savannah River Estuary by R. W. Hall	AD A185 072

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-87-5	Oct 1987	Avian Line-Transect Methods: Section 6.3.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. S. Wakeley	AD A187 024
TR EL-87-6	Oct 1987	Avian Plot Methods: Section 6.3.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. S. Wakeley	AD A188 737
TR EL-87-7	Oct 1987	Avian Territory Mapping: Section 6.3.4, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. S. Wakeley	AD A186 918
TR EL-87-8	Jul 1987	Transplanting of the Seagrasses, <i>Halodule Wrightii</i> , <i>Syringodium Filiforme</i> , and <i>Thalassia Testudinum</i> for Sediment Stabilization and Habitat Development in the Southeast Region of the United States, by M. S. Fonseca, W. J. Kenworthy, and G. W. Thayer	AD A184 990
TR EL-87-9		New York Water Supply Infrastructure Study:	
	Jul 1987	Volume III The Bronx and Queens, by T. M. Walski and Roy Wade	AD A183 861
	Apr 1988	Volume IV Staten Island, by T. M. Walski, Roy Wade, and W. W. Sharp	AD A193 187
	Jan 1990	Volume V Analysis of Replacement Policy, by J. W. Male, T. M. Walski, and A. H. Slutsky	AD A219 212
TR EL-87-10	Aug 1987	Data Base Acquisition for Multiple-Sensor Processing, by J. C. Duke, Jr.	AD A185 001
TR EL-87-11	Aug 1987	Laboratory Investigation of Organic Contaminant Immobilization by Proprietary Processing of Basin F Liquid, Rocky Mountain Arsenal, Denver, Colorado, by T. E. Myers and M. E. Zappi	AD A184 391
TR EL-87-12	Aug 1987	The Use of Fertilizer to Enhance Transplants of the Seagrasses <i>Zostera Marina</i> and <i>Halodule Wrightii</i> , by M. S. Fonseca, W. J. Kenworthy, Keith Rittmaster, and G. W. Thayer	AD A188 172
TR EL-87-13	Oct 1987	Gravel Bar Mussel Communities: A Community Model, by A. C. Miller, B. S. Payne, T. J. Naimo, and W. D. Russell-Hunter	AD A187 388
TR EL-87-14	Oct 1987	Environmental Effects of Navigation Traffic: Laboratory Exposure Studies of the Effects on Mussels of Intermittent to Turbulence and Suspended Solids, by B. S. Payne, A. C. Miller, and D. W. Aldridge	AD A188 728

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-87-15	Oct 1987	Physical Effects of Beach Nourishment on Sea Turtle Nesting, Delray Beach, Florida, by D. A. Nelson, Karen Mauck, and John Fletemeyer	AD A189 051
TR EL-87-16	Nov 1987	Techniques for Improving Energy Efficiency at Water Supply Pumping Stations, by L. E. Ormsbee, T. M. Walski, D. V. Chase, and W. W. Sharp	AD A189 077
TR EL-87-17	Nov 1987	Adsorption and Desorption of 2,4,6-Trinitrotoluene by Soils, by J. C. Pennington	AD A189 719
TR EL-88-1*	Jan 1988	Airfield Camouflage with Large-Area Smoke Screens, by W. M. Farmer, R. E. Davis, E. S. Stallings, and R. R. Williams	AD B118 702L
TR EL-88-2	Jan 1988	Effects of Surface Water Withdrawal on Fishes in Rivers of Northeast Louisiana, by K. J. Killgore and N. H. Douglas	AD A190 601
TR EL-88-3	Jan 1988	Evaluation of Products for Control of Mosquitoes at Disposal Sites in the Galveston District, by A. F. Cofrancesco, Jr. and J. W. Flosi	AD A192 448
TR EL-88-4	Jan 1988	Bush Honeysuckles (<i>Lonicera</i> spp.): Section 7.5.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by R. J. Field and W. A. Mitchell	AD A192 377
TR EL-88-5	Feb 1988	Investigation and Evaluation of the Performance of Solidified Cellulose and Starch Xanthate Heavy Metal Sludges, by R. M. Bricka	AD A192 317
TR EL-88-7	Mar 1988	Coupling Hydrodynamics to a Multiple-Box Water Quality Model, by S. L. Bird and Ross Hall	AD A193 188
TR EL-88-8	Jun 1988	Guidelines for the Organization of Archeological Site Stabilization Projects: A Modeled Approach, by R. M. Thorne	AD A196 661
TR EL-88-9	Jul 1988	Flowering Dogwood (<i>Cornus florida</i>): Section 7.5.9, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell, P. A. Gibbs, and C. O. Marin	AD A198 841
TR EL-88-10*	Jul 1988	Terrain-Characterization and Wide-Area Terrain Mapping for the Hardened Mobile Launcher System Evaluation, by M. R. Kress, F. A. Clark, and H. W. West	AD B125 165L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-88-11	Aug 1988	Evaluation of Proposed Dredged Material Disposal Alternatives for New York/New Jersey Harbor, Phase I, by M. E. Poindexter, Douglas Gunnison, D. F. MacIntyre, and G. F. Goforth	AD A198 773
TR EL-88-12	Sep 1988	Soil Sorption and Plant Uptake of 2,4,6-Trinitrotoluene, by J. C. Pennington	AD A200 502
TR EL-88-13	Sep 1988	Techniques to Increase Efficiency and Reduce Effort in Applications of the Habitat Evaluation Procedures (HEP), by J. S. Wakeley and L. J. O'Neil	AD A200 040
TR EL-88-14	Sep 1988	Water Quality Modeling Study of Proposed Reregulation Dam Downstream from Buford Dam, Chattahoochee River, Georgia, by M. J. Zimmerman and M. S. Dortch	AD A200 039
TR EL-88-15		New Bedford Harbor Superfund Project, Acushnet River Estuary Engineering Feasibility Study of Dredging and Dredged Material Disposal Alternatives:	
	Oct 1988	Report 1 Study Overview, by N. R. Francingues, Jr., D. E. Averett, and M. J. Otis	AD A200 178
	Dec 1988	Report 2 Sediment and Contaminant Hydraulic Transport Investigations, by A. M. Teeter	AD A205 136
	Mar 1989	Report 3 Characterization and Elutriate Testing of Acushnet River Estuary Sediment, by D. E. Averett	AD A207 045
	Oct 1988	Report 4 Surface Runoff Quality Evaluation for Confined Disposal, by J. G. Skogerboe, R. A. Price, and D. L. Brandon	AD A200 462
	Apr 1989	Report 5 Evaluation of Leachate Quality, by T. E. Myers and J. M. Brannon	AD A207 818
	Oct 1988	Report 6 Laboratory Testing for Subaqueous Capping, by T. C. Sturgis and Douglas Gunnison	AD A200 177
	Nov 1988	Report 7 Settling and Chemical Clarification Tests, by Roy Wade	AD A201 647
	Oct 1988	Report 8 Compatibility of Liner Systems with New Bedford Harbor Dredged Material Contaminants, by R. A. Shafer	AD A201 112
	Jan 1989	Report 9 Laboratory-Scale Application of Solidification/Stabilization Technology, by T. E. Myers and M. E. Zappi	AD A206 744

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-88-15 (Cont.)	Nov 1988	Report 10 Evaluation of Dredging and Dredging Control Technologies, by M. R. Palermo	AD A203 526
	Jul 1989	Report 11 Evaluation of Conceptual Dredging and Disposal Alternatives, by D. E. Averett, M. R. Palermo, M. J. Otis, and P. B. Rubinoff	AD A211 895
	Jan 1990	Report 12 Executive Summary, by D. E. Averett and M. J. Otis	AD A217 259
TR EL-88-16	Nov 1988	Battlefield Dust from Exploding Munitions: Contribution by Cratering from Artillery and Mortar Projectiles, by J. N. Strange and A. D. Rooke, Jr.	AD A203 028
TR EL-88-17	Nov 1988	Prediction of Dust Propensity for Military Operations in Desert Areas, by W. K. Dornbusch, J. N. Strange, and A. D. Rooke, Jr.	AD A202 899
TR EL-88-18	Nov 1988	Reliability of the Federally Owned Water Main System, by D. V. Chase, L. E. Ormsbee, and T. M. Walski	AD A201 281
TR EL-88-19	Nov 1988	Songbird Nest Boxes: Section 5.1.8, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell	AD A202 556
TR EL-88-20	Nov 1988	Plant Uptake of 2,4,6-Trinitrotoluene, 4-Amino-2,6-Dinitrotoluene, and 2-Amino-4,6-Dinitrotoluene Using ¹⁴ C-Labeled and Unlabeled Compounds, by J. C. Pennington	AD A203 690
TR EL-88-21*	Dec 1988	Analysis of Ground Surface Slope and Static Deflection for Targets of Military Interest, by C. A. Miller	AD B129 091L
TR EL-88-22	Dec 1988	Effects of Soil pH and Treatment Level on Persistence and Plant Uptake of 2,4,6-Trinitrotoluene, by B. L. Folsom, Jr., J. C. Pennington, C. L. Teeter, et al.	AD A203 144
TR EL-88-23	Dec 1988	Distance Sampling Techniques: Section 6.2.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by L. E. Marcy	AD A203 524
TR EL-88-24	Dec 1988	An Evaluation of Stabilization/Solidification of Fluidized Bed Incinerator Ash (K048 and K051), by R. M. Bricka, Teresa Holmes, and M. J. Cullinane	AD A203 516
TR EL-89-1	Jan 1989	Evaluation of Dredged Material Disposal Alternatives for U.S. Navy Homeport at Everett, Washington, by M. R. Palermo, R. A. Shafer, J. M. Brannon, et al.	AD A206 957

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-89-2	Feb 1989	Engineering and Economic Analysis of Containment Area/Wetlands Disposal Options in New York Harbor, by M. E. Poindexter	AD A206 659
TR EL-89-4*	Apr 1989	Thermal Modeling of Petroleum, Oil, and Lubricants (POL) Bulk Storage Tanks, by B. K. Hodge	AD B132 304
TR EL-89-5	Apr 1989	American Woodcock (<i>Scolopax minor</i>) Section 4.1.2, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by T. H. Roberts	AD A208 252
TR EL-89-6	Apr 1989	Storage Capacity Evaluation for Crane Island Expansion Alternatives, by M. E. Poindexter-Rollings	AD A208 124
TR EL-89-7	May 1989	Reservoir Analysis Model for Battlefield Operations, by G. J. Sullivan	AD A208 529
TR EL-89-8*	May 1989	Coupling Between Airborne Sound and the Ground Models and Applications, by Keith Attenborough	AD B133 720
TR EL-89-9	May 1989	Fisheries Investigation on the Lower White River, Arkansas, by J. A. Baker, R. L. Kasul, K. J. Killgore, and L. G. Sanders	AD A208 914
TR EL-89-10		Species Profiles: Life Histories and Environmental Requirements of Coastal Vertebrates and Invertebrates, Pacific Ocean Region	
	Jul 1989	Report 1 Green Turtle, <i>Chelonia mydas</i> , by R. G. Forsyth and G. H. Balazs	AD A213 441
	Nov 1989	Report 2 Humpback Whale, <i>Megaptera Novaeangliae</i> , by E. T. Nitta and J. J. Naughton	AD A217 911
	Aug 1990	Report 3 Amphidromous Macrofauna of Hawaiian Island Streams, by R. A. Kinzie III	AD A229 842
	Nov 1989	Report 4 The Hawaiian Anchovy or Nehu, <i>Engraulis mordax</i> (<i>Engraulidae</i>), by T. A. Clarke	AD A216 653
	Mar 1991	Report 5 The Parrotfishes, Family Scaridae, by R. E. Brock	AD A235 074
TR EL-89-11*	Aug 1989	Infrared Target Background Analytical Models, by R. A. Weiss and R. K. Scoggins	AD B136 087
TR EL-89-12	Aug 1989	Browntop Millet (<i>Panicum ramosum</i>): Section 7.1.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell and W. H. Tomlinson, Jr.	AD A212 491

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-89-13	Aug 1989	Japanese Millet (<i>Echinochloa crusgalli</i> var. <i>frumentacea</i>): Section 7.1.6, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by W. A. Mitchell	AD A212 492
TR EL-89-14	Sep 1989	Artificial Potholes--Blasting Techniques: Section 5.5.4, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by C. O. Martin and L. E. Marcy	AD A213 541
TR EL-89-15	Oct 1989	Environmental Effects of Navigation Traffic: Studies on Fish Eggs and Larvae, by W. D. Pearson, K. J. Killgore, B. S. Payne, and A. C. Miller	AD A214 294
TR EL-89-16	Oct 1989	Enhancement of Plant Establishment on Dredged Material Sites with Mycorrhizal Fungi and Clay Amendments, by J. K. Mitchell	AD A214 292
TR EL-89-17	Nov 1989	Habitat Utilization by Juvenile Pink and Chum Salmon in Upper Resurrection Bay, Alaska, by M. W. Faurot, S. W. Landino, R. R. Reisenbichler, and D. G. Clarke	AD A216 315
TR EL-89-18	Dec 1989	Quality Assurance Guidelines for Organic Analysis, by R. A. Karn and A. B. Strong	AD A217 875
TR EL-90-1	Jan 1990	Fish Resources and Water Quality of an In-Stream Gravel Excavation Pit in the Naugatuck River, Connecticut, by R. L. Kasul, K. J. Killgore, and J. A. Baker	AD A218 010
TR EL-90-2	Jan 1990	Habitat Factors in Tailwaters with Emphasis on Peaking Hydropower, by J. A. Gore, J. M. Nestler, and J. B. Layzer	AD A218 670
TR EL-90-3	Feb 1990	Physical Effects of Increased Commercial Navigation Traffic on Freshwater Mussels in the Upper Mississippi River: Phase I Studies, by A. C. Miller, B. S. Payne, D. J. Hornbach, and D. V. Ragland	AD A219 616
TR EL-90-4	Apr 1990	Fort Benning Land-Use Planning and Management Study, by M. R. Waring, J. W. Teaford, H. H. Allen, et al.	AD A222 066
TR EL-90-5	May 1990	Predicted Water Quality Impacts of Impoundments on the Rogue River, Oregon, by D. E. Hamlin-Tillman and Carla Haake	AD A221 968
TR EL-90-6	May 1990	Los Angeles and Long Beach Harbors, California, Model Enhancement Program; Numerical Water Quality Model Study of Harbor Enhancements, by R. W. Hall	AD A224 980
TR EL-90-7	Jun 1990	Auditory Survey Methods: Section 6.3.5, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by J. S. Wakeley, T. H. Roberts, and C. O. Martin	AD A225 772

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-90-8	Aug 1990	Site Characterization for Radar Experiments, by K. S. Long	AD A230 150
TR EL-90-9		Proposed 9th Infantry Division Force Conversion, Maneuver Damage, Erosion and Natural Resources Assessment, Yakima Firing Center, Washington	
	Aug 1990	Volume I Main Text, by L. J. O'Neil, M. R. Waring, H. G. Hughes, et al	AD A227 528
	Aug 1990	Volume II Plates, by L. J. O'Neil, M. R. Waring, H. G. Hughes, et al.	AD A227 475
TR EL-90-10	Nov 1990	Techniques for Studying the Physical Effects of Commercial Navigation Traffic on Aquatic Habitats, by N. G. Bhowmik, A. C. Miller, and B. S. Payne	AD A229 834
TR EL-90-11	Nov 1990	Three-Dimensional, Lagrangian Residual Transport Computed from an Intraudal Hydrodynamic Model, by M. S. Dortch	AD A230 578
TR EL-90-12	Dec 1990	Determination of the Chemical Suitability of a Dredged Material Containment Area for Aquaculture, by H. E. Tatem	AD A231 839
TR EL-90-13	Dec 1990	TRAFFIC: An Information Retrieval System to Evaluate the Environmental Impacts of Commercial Navigation Traffic, by C. M. Way, A. C. Miller, B. S. Payne, and James Wakeley	AD A231 059
TR EL-90-14	Dec 1990	Hydraulic and Environmental Effects of Channel Stabilization, Twentymile Creek, Mississippi, by F. D. Shields, Jr., J. J. Hoover, N. R. Nunnally, et al.	AD A231 670
TR EL-91-2	Jan 1991	Analytical Study of the Effects of Weight on Light Helicopter (LH) Exposure to Ground-Based Weapons, by C. D. Hahn and K. G. Hall	AD A232 024
TR EL-91-3	Feb 1991	Effects of Increased Commercial Navigation Traffic on Freshwater Mussels in the Upper Mississippi River: 1989 Studies, by A. C. Miller and B. S. Payne	AD A234 557
TR EL-91-4	Mar 1991	Proceedings, Workshop on Operational Management Plans: Improving the Process, 5-7 December 1989, Arlington, Texas, edited by J. P. Titre, Jr., Linda Peyman-Dove, and M. R. Waring	AD A234 567
TR EL-91-5	Apr 1991	Site Characterization for Remote Minefield Detection Scanner (REMIDS) System Data Acquisition, by K. S. Long and K. G. Hall	AD A236 436

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-91-6	Jun 1991	Perspectives on Archeological Site Protection and Preservation, edited by P. R. Nickens	AD A238 293
TR EL-91-8	Jul 1991	An Investigation of Freshwater Mussels (<i>Unionidae</i>) in the Tennessee River Below Kentucky Lock and Dam, by A. C. Miller and B. S. Payne	AD A240 265
TR EL-91-9	Jul 1991	Investigation of Freshwater Mussels (<i>Unionidae</i>) at Selected Sites in the Lower Ohio and Cumberland Rivers, September 1990, by A. C. Miller and B. S. Payne	AD A239 773
TR EL-91-10	Aug 1991	Evaluation of Stabilization/Solidification for Treatment of Contaminated Soils from Waldick Aerospace Devices, Inc., Site, New Jersey, by Elizabeth Fleming and M. J. Cullinane, Jr.	AD A243 059
TR EL-91-11	Aug 1991	Historic Property Protection and Preservation at U.S. Army Corps of Engineers Projects, by R. D. Grosser	AD A241 613
TR EL-91-12	Sep 1991	Phase II Studies: Impacts of Commercial Navigation Traffic on Freshwater Mussels at the W. H. Zimmer Station, 1989-90 Baseline Studies, by A. C. Miller and B. S. Payne	AD A243 179
TR EL-91-13	Sep 1991	Evaluation of the Potential Use of Microorganisms in the Cleanup of Petroleum Hydrocarbon Spills in Soils, by Douglas Gunnison	AD A241 354
TR EL-91-14*	Sep 1991	Concept for Demonstrations of Standoff Minefield Detection System (STAMIDS) Technologies, by S. A. Pranger, K. G. Hall, and H. W. West	AD B175 755
TR EL-91-15	Oct 1991	Analysis of Scene Conditions at the Light Helicopter Target Acquisition Subsystem Demonstration/Validation, Yuma Proving Ground, Arizona, September 1990, by Bruce Sabol and Salvador Rivera, Jr.	AD A243 234
TR EL-91-16	Dec 1991	Grounds Maintenance: Standards, Practices, and Alternatives, by L. D. Peyman-Dove and B. S. Martin	AD A246 242
TR EL-91-17*	Dec 1991	Laser Safety Plan for the Operation and Testing of the Remote Minefield Detection Scanner (REMIDS) System II, by J. H. Ballard	AD B161 356
TR EL-91-18*	Dec 1991	Reflectance and Polarization Study Conducted During Standoff Minefield Detection Technical Demonstration, Fort Hunter Liggett, California, by J. H. Ballard, B. H. Miles, R. M. Castellane, and D. H. Cress	AD B162 583

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-91-19*	Dec 1991	Evaluation of Camouflage, Concealment, Deception, and Obscuration (CCDO): Concepts and Techniques Tested During the Germersheim General Support Center CCDO Demonstration, by J. W. Patin and J. C. Duke	AD B161 816
TR EL-92-2*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Thermal Signature Measurements of Mines, by K. S. Long	AD B175 789
TR EL-92-3*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Instrumented Near-Real Time Data Acquisition, Telemetry, and Display System, by C. D. Hahn and D. L. Leese	AD B163 529
TR EL-92-4*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Phase I Demonstration Plan, Fort Hunter Liggett, California, by K. G. Hall, S. A. Pranger, C. D. Hahn, and P. H. May	AD B163 526
TR EL-92-5*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Phase I Site Characterization and Minefield Layouts, Fort Hunter Liggett, California, by C. D. Hahn, K. S. Long, and S. A. Pranger	AD B164 443
TR EL-92-6*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Phase I Demonstration Results, Fort Hunter Liggett, California, by S. A. Pranger, K. G. Hall, C. D. Hahn, and P. H. May	AD B163 527
TR EL-92-7*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Phase II Demonstration Plan, Fort Drum, New York, by K. G. Hall, S. A. Pranger, K. S. Long, and C. D. Hahn	AD B163 528
TR EL-92-8*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Phase II Site Characterization and Minefield Layouts, Fort Drum, New York, by C. D. Hahn, K. S. Long, and S. A. Pranger	AD B164 093

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-92-9*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Phase II Demonstration Results, Fort Drum, New York, by S. A. Pranger, K. G. Hall, C. D. Hahn, and P. H. May	AD B164 799
TR EL-92-10*	Feb 1992	Standoff Minefield Detection System, Advanced Technology Transition Demonstration (STAMIDS ATTD); Program Summary, by S. A. Pranger, K. G. Hall, H. W. West, and P. H. May	AD B164 800
TR EL-92-11	Jan 1992	Automation Tools for Cultural Resource Managers; Proceedings of a Corps of Engineers Symposium on Automation Tools and Database Development for Cultural Resource Managers, 17 April 1990, Las Vegas, Nevada, edited by F. L. Briuer	
TR EL-92-12	Feb 1992	Use of Field Techniques to Assess the Environmental Effects of Commercial Navigation Traffic, by A. C. Miller and B. S. Payne	AD A248 131
TR EL-92-13	Feb 1992	Passive Acoustic Range Estimation of Helicopters, by Reo Olson and D. H. Cress	AD A248 033
TR EL-92-14	Feb 1992	Twentynine Palms, California, Test Site Characterization, by J. O. Curtis and L. E. Tidwell	AD A247 940
TR EL-92-15	Feb 1992	Autumn Olive (<i>Elaeagnus umbellata</i>): Section 7.5.7, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by P. L. Dittberner, D. R. Dietz, C. H. Wasser, et al.	AD A257 372
TR EL-92-16	Feb 1992	Maximilian Sunflower (<i>Helianthus maximiliani</i>): Section 7.4.3, US Army Corps of Engineers Wildlife Resources Management Manual, by D. R. Dietz, C. H. Wasser, P. H. Dittberner, and C. O. Martin	AD A257 478
TR EL-92-17	Mar 1992	Adaptive Compression of Multisensor Image Data, by E. R. Cespedes	AD A248 389
TR EL-92-18	Apr 1992	Northern Bobwhite (<i>Colinus virginianus</i>): Section 4.1.3, U.S. Army Corps of Engineers Wildlife Resources Management Manual, by R. W. Dimmick	AD A250 444
TR EL-92-19	Apr 1992	Wintertime Occurrence of Fish in Tidal Deepwater Habitat of the Potomac River, by R. L. Kasul, K. J. Killgore, and R. N. Blama	AD A251 014

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-92-20	May 1992	Distribution and Abundance of Fish Above Hartwell Dam During a Period of Entrainment, by R. L. Kasul and K. E. Cunley	AD A251 114
TR EL-92-21	May 1992	Identification and Evaluation of Coastal Habitat Evaluation Methodologies, by Marcia Bowen and Mary Small	AD A252 686
TR EL-92-22	May 1992	Evaluation of Solidification/Stabilization for Treating Contaminated Soils from the Frontier Hard Chrome Site, by E. C. Fleming and M. J. Cullinane, Jr.	AD A252 312
TR EL-92-23	Jul 1992	The Effects of Increased Commercial Navigation Traffic on Freshwater Mussels in the Upper Mississippi River: 1990 Studies, by A. C. Miller and B. S. Payne	AD A256 225
TR EL-92-24	Jul 1992	Evaluation of Plant Growth Regulators for Use in Grounds Maintenance at Military Installations, by L. S. Nelson, K. D. Getsinger, and K. T. Luu	AD A254 611
TR EL-92-25	Jul 1992	Control Strategies for Zebra Mussel Infestations at Public Facilities, by A. C. Miller, B. S. Payne, Frank Neilson, and R. F. McMahon	AD A269 575
TR EL-92-26	Aug 1992	Deciduous Forest Scene Complexity in High-Resolution Multispectral Scanner Imagery, by L. K. Balick	AD A255 511
TR EL-92-27*	Aug 1992	Preliminary Evaluation of CO2 Laser for Remote Minefield Detection System (REMIDS) II, by D. H. Cress and J. H. Ballard	AD B175 757
TR EL-92-28		Description of Obstacle Planner Software (OPS), Version 1.0:	
*	Jul 1992	Report 1 User's Manual, by P. L. Doiron, Sr.	AD B168 656
*	Apr 1993	Report 2 Technical Description, by P. L. Doiron, Sr., T. D. Hutto, G. B. McKinley, and D. A. Horner	AD B173 801
TR EL-92-29*	Sep 1992	Remote Minefield Detection System (REMIDS) High-Frequency Laser Output Oscillation Elimination, by B. H. Miles, Raymond Castellane, and R. A. Goodson	AD B175 758
TR EL-92-30*	Sep 1992	The Remote Minefield Detection System (REMIDS) II Major Components and Operation, by J. H. Ballard, R. M. Castellane, B. H. Miles, and K. G. Wesolowicz	AD B175 759
TR EL-92-31	Sep 1992	Information Base Procedures for Generation of Synthetic Thermal Scenes, by M. R. Kress	AD A259 202

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-92-32	Sep 1992	Terrain Background Signature Research, by R. A. Weiss, R. K. Scoggins, and D. L. Meeker	AD A257 917
TR EL-92-33	Oct 1992	A Comparative Evaluation of Two Extraction Procedures: The TCLP and the EP, by R. M. Bricka, T. T. Holmes, and M. J. Cullinane	AD A259 346
TR EL-92-34	Oct 1992	Design of Fixed-Facility Multispectral Camouflage Netting Support Systems, by J. W. Epps and M. W. Corey	AD A260 004
TR EL-92-35	Nov 1992	Incremental Effects of Large Woody Debris Removal on Physical Aquatic Habitat, by R. H. Smith, F. D. Shields, Jr., E. A. Dardeau, Jr., et al.	AD A259 103
TR EL-92-36	Nov 1992	Predicted Water Quality Impacts from Reducing Flow out of Gavins Point Dam on the Missouri River, by D. H. Tillman	AD A259 186
TR EL-92-37	Nov 1992	Effects of Wet and Dry Cycles on TNT Losses from Soils, by J. C. Pennington, C. B. Price, Erica McCormick, and C. A. Hayes	AD A260 500
TR EL-92-38	Dec 1992	Slow Release of PCB, TNT, and RDX from Soils and Sediments, by J. M. Brannon, D. D. Adrian, J. C. Pennington, et al.	AD A261 162
TR EL-92-39*	Dec 1992	Contribution of Camouflage, Concealment, and Deception Countermeasures to Passive Defense of War-Critical Facilities of the Continental United States, by S. P. Rosa, B. P. Durst, and G. I. Velazquez	AD B172 093
TR EL-92-40*	Nov 1992	Decision Models for Camouflage Evaluation Systems, by A. D. Magoun	AD B175 754
TR EL-92-41*	Oct 1992	SARTAC - An Imaging Radar Terrain and Camouflage Simulation, by J. M. Henderson and G. I. Velazquez	AD B175 760
TR EL-93-1	Jan 1993	Effects of Increased Commercial Navigation Traffic on Freshwater Mussels in the Upper Mississippi River: 1991 Studies, by A. C. Miller and B. S. Payne	AD A261 361
TR EL-93-2	Jan 1993	Phase II Studies: Impacts of Commercial Navigation Traffic on Freshwater Mussels at the W. H. Zimmer Station, 1991 Studies, by A. C. Miller and B. S. Payne	AD A262 426
TR EL-93-3	Jan 1993	Instream Flow Incremental Methodology: A Synopsis with Recommendations for Use and Suggestions for Future Research, by J. M. Nestler	AD A262 157

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EL-93-4	Mar 1993	An Evaluation of Factors Affecting the Solidification/Stabilization of Heavy Metal Sludge, by R. M. Brucka and L. W. Jones	AD A264 128
TR EL-93-5	Apr 1993	Test and Modification of a Northern Bobwhite Habitat Suitability Index Model, by L. J. O'Neil	AD A265 937
TR EL-93-6	Apr 1993	Use of Signs as a Protective Measure for Cultural Resource Sites, by P. R. Nickens	AD A267 263
TR EL-93-7	Apr 1993	Legal and Institutional Constraints on Aquaculture in Dredged Material Containment Areas, by Sylvia Robertshaw, R. J. McLaughlin, and Donald Love	AD A266 335
TR EL-93-8	May 1993	Survey for Freshwater Mussels (<i>Unionidae</i>) in the in the Lower Green and Barren Rivers, Kentucky, 1992, by A. C. Miller and B. S. Payne	AD A266 271
TR EL-93-9		Environmental Characterization for Target Acquisition	
	Jun 1993	Report 1 Site Descriptions and Measurements, by Tommy Berry, Salvador Rivera, Jr., and Bruce Sabol	AD A267 192
	Jun 1993	Report 3 New Concepts for Evaluating Low-Grazing Angle Radar Measurements, by J. O. Curus and B. M. Sabol	AD A269 956
TR EL-93-10	Apr 1993	An Evaluation of Stabilization/Solidification of an Inorganic Wood-Preserving Waste, by M. G. Channell and T. T. Kosson	AD A266 225

Aquatic Plant Control Research Program Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
A-79-1	Jul 1979	Aquatic Plant Control Research Program	
A-79-2	Nov 1979	Aquatic Plant Control Research Program	
A-80-1	Jun 1980	Aquatic Plant Control Research Program	
A-80-2	Jul 1980	Aquatic Plant Control Research Program	
A-81-1	Mar 1981	Aquatic Plant Control Research Program	
A-82-1 thru A-82-3	Jun 1982 thru Oct 1982	Aquatic Plant Control Research Program	
A-83-1	Jan 1983	Aquatic Plant Control Research Program	
A-84-1 thru A-84-3	Apr 1984 thru Oct 1984	Aquatic Plant Control Research Program	
A-88-1 thru A-88-2	Sep 1988 thru Nov 1988	Aquatic Plant Control Research Program	
A-90-1 thru A-90-2	May 1990 thru Dec 1990	Aquatic Plant Control Research Program	
A-91-1 thru A-91-3	Sep 1991 thru Dec 1991	Aquatic Plant Control Research Program	
A-92-1 thru A-92-5	Jan 1992 thru Nov 1992	Aquatic Plant Control Research Program	
A-93-1	Jun 1993	Aquatic Plant Control Research Program	

Aquatic Plant Control Research Program Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR A-79-1	Jun 1979	Test Plan for the Large-Scale Operations Management Test of Insects and Pathogens for Control of Waterhyacinth in Louisiana, by D. R. Sanders, Sr., E. E. Addor, R. F. Theriot, and E. A. Theriot	AD A116 836
IR A-81-1	Nov 1981	The Use of Insects to Manage Alligatorweed	AD A113 605
IR A-84-1	Aug 1984	Use of the White Amur for Aquatic Plant Management, by A. C. Miller and J. L. Decell	AD A146 815
IR A-84-2	Nov 1984	Handbook for Obtaining and Using Aerial Photography to Map Aquatic Plant Distribution, by J. M. Leonard	
IR A-92-1	Dec 1992	User's Manual for INSECT (Version 1.0); A Simulation of Waterhyacinth Plant Growth and Neochetina Weevil Development and Interaction, by R. M. Stewart and W. A. Boyd	AD A261 633

Aquatic Plant Control Research Program Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP A-79-1	Apr 1979	The White Amur as a Biological Control Agent of Aquatic Weeds in the Panama Canal, by P. E. Custer, F. D. Halverson, J. M. Malone, et al.	AD A070 828
MP A-79-2	Aug 1979	Insects for Biological Control of Aquatic Plants, by T. D. Center	AD A074 385
MP A-79-3	Aug 1979	Evaluation of Chemicals for Aquatic Plant Control, by K. K. Steward	AD A074 204
MP A-79-4	Sep 1979	Investigation of Two Insect Species for Control of Eurasian Watermilfoil, by G. R. Buckingham, C. A. Bennett, and B. M. Ross	AD A075 788
MP A-79-5	Oct 1979	Introduction of the Waterhyacinth Weevil (<i>Neochetina Eichhorniae</i> Warner) into Puerto Rico, by Leonce Bonnefil, M. A. Rodriguez, Evangelio Lebron, and Eduardo de Aragon	AD A076 983
MP A-79-6	Oct 1979	Field Evaluation of <i>Cercospora Rodmanii</i> as a Biological Control of Waterhyacinth; Inoculum Rate Studies, by K. E. Conway, R. E. Cullen, T. E. Freeman, and J. A. Cornell	AD A077 187
MP A-79-7	Oct 1979	Proceedings, Research Planning Conference on the Aquatic Plant Control Program, 16-19 October 1978, Seattle, Washington	AD A077 528
MP A-79-8	Nov 1979	Study of Waterhyacinths Showing Possible Resistance to 2,4-D Chemical Control Programs, by W. T. Haller and M. T. El Seed	AD A081 048
MP A-80-1	May 1980	Exploration for Natural Enemies of <i>Hydrilla verticillata</i> in Eastern Africa, by R. W. Pemberton	AD A085 875
MP A-80-2	Sep 1980	Evaluation of Controlled Release Herbicides in Outdoor Pools, by J. A. Foret and J. R. Barry	AD A090 530
MP A-80-3	Oct 1980	Proceedings, 14th Annual Meeting, Aquatic Plant Control Research Planning and Operations Review, 26-29 November 1979, Lake Eufaula, Oklahoma	AD A091 303
MP A-80-4	Oct 1980	Biological Control Agents on Waterhyacinth at Nineteen Locations in Louisiana, by J. A. Foret, J. R. Barry, and E. A. Thenot	AD A092 656

**Aquatic Plant Control Research Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP A-80-5	Oct 1980	Recording Fathometer Techniques for Determining Distribution and Biomass of <i>Hydrilla Verticillata</i> Royle, by M. J. Maccina and J. V. Shireman	AD A092 715
MP A-80-6	Dec 1980	Field Studies and Laboratory Rearing of <i>Arzama Densa</i> Wlk., a Biological Control Agent Against Waterhyacinth, by R. G. Baer and P. C. Quimby, Jr.	AD A093 080
MP A-81-1	Feb 1981	Workshop on Modeling of Aquatic Macrophytes, by J. H. Wlosinski	AD A096 821
MP A-81-2	Jun 1981	Evaluation of the Infectivity of a <i>Cercospora Rodmanii</i> Formulauon Using Two Application Systems, by E. A. Theriot, R. F. Theriot, and D. R. Sanders, Sr.	AD A102 050
MP A-81-3	Oct 1981	Proceedings, 15th Annual Meeting, Aquatic Plant Control Research Planning and Operations Review, 17-20 November 1980	AD A107 083
MP A-82-1	Feb 1982	Organisms Impacting Waterhyacinth in the Panama Canal, by D. R. Sanders, Sr., R. F. Theriot, and E. A. Theriot	AD A114 401
MP A-82-2	Apr 1982	Release of Potentially Cold-Tolerant Alligatorweed Flea Beetles (<i>Agasicles Hygrophula</i> Selman and Vogt) into the United States from Argentina, by G. R. Buckingham and Dion Boucias	AD A114 902
MP A-82-3	Jun 1982	Proceedings, 16th Annual Meeting, Aquatic Plant Control Research Planning and Operations Review, 17-19 November 1981, St. Paul, Minnesota	AD A115 848
MP A-82-4	Aug 1982	Improving Technology for Chemical Control of Aquatic Plants, by K. K. Steward	AD A118 691
MP A-82-5	Aug 1982	Large-Scale Operations Management Test of Use of the White Amur for Control of Problem Aquatic Plants; Selected Life History Information of Animal Species on Lake Conway, Florida, by N. J. Zittleman, R. R. Williams, and E. G. Buglewicz	AD A118 693
MP A-82-6	Oct 1982	Compatibility of a <i>Cercospora Rodmanii</i> Formulation with Selected Herbicide Spray Additives, by J. C. Pennington and E. A. Theriot	AD A122 555
MP A-82-7	Dec 1982	Implementation of the Large-Scale Operations Management Test in the State of Washington, by E. A. Dardeau, Jr., and R. L. Lazor	AD A124 224
MP A-82-8	Dec 1982	Impact of Augmented Field Populations of <i>Arzama Densa</i> Larvae on Waterhyacinth, by A. F. Cofrancesco, Jr.	AD A125 007

**Aquatic Plant Control Research Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP A-83-1	Jan 1983	Recording Fathometer Techniques for Hydrilla Distribution and Biomass Studies, by J. V. Shireman and M. J. Maccina	AD A125 794
MP A-83-2	Mar 1983	Study of a Naturally Occurring Hydrilla Inhibitor, by D. F. Martin	AD A129 105
MP A-83-3	Jun 1983	Proceedings, 17th Annual Meeting, Aquatic Plant Control Research Program, 16-18 November 1982, Sacramento, California	AD A132 647
MP A-83-4	Jun 1983	Microbiological Control of Eurasian Watermilfoil, by H. B. Gunner	AD A134 619
MP A-83-5	Jul 1983	Large-Scale Operations Management Test of Use of the White Amur for Control of Problem Aquatic Plants; The Herpetofauna of Lake Conway: Species Accounts, by G. T. Bancroft, J. S. Godley, D. T. Gross, et al.	AD A132 465
MP A-83-6	Jun 1983	Compatibility and Infectivity of a <i>Cercospora Rodmanii</i> Formulation with Enhancing Agents, by J. C. Pennington and E. A. Theriot	AD A134 603
MP A-83-7	Aug 1983	White Amur Bibliography, by C. R. Smith and J. V. Shireman	AD A134 340
MP A-83-8	Oct 1983	Simulated Mechanical Control of Aquatic Plants in Buffalo Lake, Wisconsin, by B. M. Sabol	AD A135 831
MP A-83-9	Oct 1983	U. S. Department of Agriculture/Corps of Engineers Cooperative Aquatic Plant Control Research--Annual Report for FY 1981; Biological and Chemical Control Technologies	AD A137 242
MP A-84-1	Feb 1984	Effects of Endothall Treatment on Phosphorus Concentration and Community Metabolism of Aquatic Communities, by W. F. James	AD A141 830
MP A-84-2	Aug 1984	U.S. Department of Agriculture/Corps of Engineers Cooperative Aquatic Plant Control Research--Annual Report for FY 1982; Biological and Chemical Control Technologies	AD A151 313
MP A-84-3	Apr 1984	Field Methods to Measure Aquatic Plant Treatment Method Efficacy, by K. J. Killgore and B. S. Payne	AD A142 222
MP A-84-4	Jun 1984	Proceedings, 18th Annual Meeting, Aquatic Plant Control Research Program, 14-17 November 1983, Raleigh, North Carolina	AD A142 827

**Aquatic Plant Control Research Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP A-84-5	Sep 1984	Field Evaluation of Garlon 3A (Triclopyr) and 14-ACE-B (2,4-D BEE) for the Control of Eurasian Watermilfoil, by K. D. Getsinger and H. E. Westerdahl	AD A147 973
MP A-84-6	Nov 1984	Culture Methodology for Experimental Investigations Involving Rooted Submersed Aquatic Plants, by R. M. Smart and J. W. Barko	AD A149 744
MP A-84-7	Dec 1984	Management of Eurasian Watermilfoil in the Columbia River Basin, by K. J. Killgore, Jr.	AD A150 567
MP A-84-8	Dec 1984	Use of Herbicide/Adjuvant Formulations for the Control of <i>Myriophyllum Spicatum</i> L., by K. J. Killgore	AD A153 250
MP A-85-1	Feb 1985	Mortality of Third Instar <i>Sameodes Albiguttalis</i> Larvae Due to Constant Low Temperature Exposures in the Laboratory, by R. M. Stewart	AD A154 680
MP A-85-2	May 1985	A Mathematical Model of Submersed Aquatic Plants, by C. D. Collins, R. A. Park, and C. W. Boylen	AD A156 774
MP A-85-3	Sep 1985	U.S. Department of Agriculture/Corps of Engineers Cooperative Aquatic Plant Control Research--Annual Report for FY 1983; Chemical Control Technology, by T. K. Van, K. K. Steward, A. O. Jones, and R. D. Conant, Jr.	AD A161 867
MP A-85-4	Jun 1985	Proceedings, 19th Annual Meeting, Aquatic Plant Control Research Program, 26-29 November 1984, Galveston, Texas	AD A159 937
MP A-85-5	Aug 1985	Monoecious <i>Hydrilla</i> in the Potomac River	AD A160 176
MP A-86-1	Mar 1986	Bioengineering Technology Meeting; September 28-29, 1983, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, by J. C. Pennington	AD A168 160
MP A-86-2	Jun 1986	Proceedings, 20th Annual Meeting, Aquatic Plant Control Research Program, 18-21 November 1985, Atlanta, Georgia	AD A171 445
MP A-86-3	May 1986	Evaluation of 2,4-D/Adjuvant Mixtures in Flowing Water, by K. D. Getsinger and H. E. Westerdahl	AD A169 290
MP A-86-4	Jul 1986	Biological Control Agents of <i>Hydrilla verticillata</i> ; Final Report on Surveys in East Africa, 1918-1984, by R. H. Markham	AD A171 590
MP A-87-1	May 1987	Evaluation of the Diver-Operated Dredge and Bottom-Covering Materials for Control of <i>Hydrilla</i> in the Potomac River, by K. J. Killgore	AD A182 443

**Aquatic Plant Control Research Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP A-87-2	Nov 1987	Proceedings, 21st Annual Meeting, Aquatic Plant Control Research Program, 17-21 November 1986, Mobile, Alabama	
MP A-88-1	Feb 1988	Evaluation of Endothall/Adjuvant Mixtures in Flowing Water, by K. D. Getsinger and H. E. Westerdahl	AD A193 219
MP A-88-2	Mar 1988	Chemical Control of Hydrilla in Flowing Water: Herbicide Uptake Characteristics and Concentrations Versus Exposure, by T. K. Van and R. D. Conant, Jr.	AD A195 324
MP A-88-3	Apr 1988	Alligatorweed Survey of Ten Southern States, by A. F. Cofrancesco, Jr.	AD A197 509
MP A-88-4	Apr 1988	The Rhizosphere Microbiology of Rooted Aquatic Plants, by Douglas Gunnison and J. W. Barko	AD A194 063
MP A-88-5	Jun 1988	Proceedings, 22nd Annual Meeting, Aquatic Plant Control Research Program, 16-19 November 1987, Portland, Oregon	AD A198 883
MP A-88-6	Jul 1988	Persistence of Dichlobenil in Lake Seminole, Georgia, by W. R. Green and H. E. Westerdahl	AD A197 464
MP A-88-7	Jul 1988	Feasibility of Relating Phenology and Carbohydrate Partitioning to Improve Aquatic Plant Control, by G. J. Pesacreta and K. T. Luu	AD A197 865
MP A-88-8	Nov 1988	2,4-D Concentration and Exposure Time Relationships for the Control of Eurasian Watermilfoil, by W. R. Green and H. E. Westerdahl	AD A205 315
MP A-89-1	Jun 1989	Proceedings, 23rd Annual Meeting, Aquatic Plant Control Research Program, 14-17 November 1988, West Palm Beach, Florida	AD A209 315
MP A-89-2	Mar 1989	Triclopyr (Garlon 3A) Dissipation in Lake Seminole, Georgia, by W. R. Green, H. E. Westerdahl, J. C. Joyce, and W. T. Haller	AD A208 582
MP A-89-3	Apr 1989	Review of Senescence as an Important Factor Determining the Relationship Among Aquatic Plants, Their Epiphytes, and Pathogens, by Eliska Rejmankova	AD A208 580
MP A-90-1	Jan 1990	Plan of Study for Determining Economic Values of Aquatic Plant Management, by J. E. Henderson	AD A217 874
MP A-90-2	Jun 1990	Pilot Study: Carbohydrate Allocation in Hydrilla Biotypes, by G. J. Pesacreta	AD A225 027

**Aquatic Plant Control Research Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP A-90-3	Jun 1990	Proceedings, 24th Annual Meeting, Aquatic Plant Control Research Program, 13-16 November 1989, Huntsville, Alabama	AD A225 022
MP A-90-4	Jul 1990	Effects of Water Chemistry on Submersed Aquatic Plants: A Synthesis, by R. M. Smart	AD A225 024
MP A-90-5	Jul 1990	Characterization of Water Movement in Submersed Plant Stands, by K. D. Getsinger, W. R. Green, and H. E. Westerdahl	AD A226 511
MP A-91-1	Feb 1991	Literature Review of Economic Valuation of Aquatic Plant Control, by E. M. Thunberg	AD A232 751
MP A-91-2	Apr 1991	Characterization of Water Exchange in Hydrilla-Infested Tidal Canals of the Crystal River, Florida, by A. M. Fox, W. T. Haller, K. D. Getsinger, and W. R. Green	AD A235 669
MP A-91-3	Jun 1991	Proceedings, 25th Annual Meeting, Aquatic Plant Control Research Program, 26-30 November 1990, Orlando, Florida	AD A240 036
MP A-91-4	Nov 1991	Endothall Concentration and Exposure Time Relationships for the Control of Eurasian Watermilfoil and Hydrilla, by M. D. Netherland, W. R. Green, and K. D. Getsinger	AD A245 499
MP A-92-1	Mar 1992	Efficacy of Triclopyr on Eurasian Watermilfoil: Concentration and Exposure Time Effects, by M. D. Netherland and K. D. Getsinger	AD A251 634
MP A-92-2	Jun 1992	Proceedings, 26th Annual Meeting, Aquatic Plant Control Research Program, 18-22 November 1991, Dallas, Texas	AD A254 592
MP A-92-3	Dec 1992	Status of Biological Control of Waterlettuce in Louisiana and Texas Using Insects, by M. J. Grodowitz, William Johnson, and L. D. Nelson	AD A261 588

Aquatic Plant Control Research Program Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR A-79-1	Apr 1979	Time Course Studies on 2,4-D Amine Residues in Slow-Moving Waters, by J. A. Foret and J. R. Barry	AD A069 970
TR A-79-2	Oct 1979	Remote Sensing of Aquatic Plants, by K. S. Long	AD A081 737
TR A-79-3	Nov 1979	Evaluation of Two Fluridone Formulations for the Control of Hydrilla in Gatun Lake, Panama Canal Zone, by D. R. Sanders, Sr., R. F. Theriot, W. R. Arnold, and S. D. West	AD A081 458
TR A-80-1	Oct 1980	Growth and Metabolism of Three Introduced Submersed Plant Species in Relation to the Influences of Temperature and Light, by J. W. Barko, R. M. Smart, D. G. Hardin, and M. S. Matthews	AD A092 833
TR A-81-1	Jan 1981	Biological Control of Aquatic Plants with Pathogenic Fungi, by T. E. Freeman, R. Charudattan, K. E. Conway, et al.	AD A095 985
TR A-81-2	Jan 1981	Improving Technology for Chemical Control of Aquatic Weeds, by K. K. Steward	AD A095 933
TR A-81-3	Feb 1981	Release and Establishment of <i>Sameodes Albiguttalis</i> for Biological Control of Waterhyacinth, by T. D. Center	AD A097 852
TR A-81-4	Feb 1981	Investigation of Two Insect Species for Control of Eurasian Watermilfoil, by G. R. Buckingham, C. A. Bennett, and B. M. Ross	AD A100 314
TR A-81-5	Jun 1981	Evaluation of a Formulation of <i>Cercospora Rodmanii</i> for Infectivity and Pathogenicity of Waterhyacinth, by E. A. Theriot, R. F. Theriot, and D. R. Sanders, Sr.	AD A102 051
TR A-81-6	Dec 1981	Evaluation of the Model CE-QUAL-R1 for Use by the Aquatic Plant Control Research Program, by J. H. Wlosinski	AD A110 826
TR A-82-1	Feb 1982	Simulation for Harvesting of Aquatic Plants, by E. R. Perrier and A. C. Gibson	AD A114 027
TR A-82-2	Feb 1982	Environmental Fate, Effects, and Health Hazards of Fenac, by H. C. Sikka, E. J. Pack, H. T. Appleton, et al.	AD A114 030

**Aquatic Plant Control Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR A-82-3	Jun 1982	Sediment-Submersed Macrophyte Relationships in Freshwater Systems, by J. W. Barko, R. M. Smart, M. S. Matthews, and D. G. Hardin	AD A118 147
TR A-82-4	Aug 1982	Radiotelemetry Tracking at Lake Conway, Florida, by M. P. Keown and R. M. Russell, Jr.	AD A118 694
TR A-82-5	Oct 1982	Insects and Other Macroinvertebrates Associated with Eurasian Watermilfoil in the United States, by J. K. Balciunas	AD A123 755
TR A-82-6	Dec 1982	The 2,4-D Threshold Concentrations for Control of Eurasian Watermilfoil and Sago Pondweed, by J. F. Hall, H. E. Westerdahl, R. E. Hoepfel, and Lena Williams	AD A124 444
TR A-83-1	Jan 1983	Aerial Survey Techniques to Map and Monitor Aquatic Plant Populations--Four Case Studies, by E. A. Dardeau, Jr.	AD A128 990
TR A-83-2	Jan 1983	Inventory and Assessment of Aquatic Plant Management Methodologies, by E. A. Dardeau, Jr., and E. A. Hogg	AD A125 747
TR A-83-3	Jan 1983	Field Evaluation of Two Endothall Formulations for Managing Hydrilla in Gatun Lake, Panama, by H. E. Westerdahl	AD A129 196
TR A-83-4	Feb 1983	Determination of Chemical Threshold Concentrations Using 2,4-D to Control Selected Aquatic Macrophytes--A Pilot Study to Evaluate a Laboratory System, by H. E. Westerdahl, R. E. Hoepfel, Edgar Hummert, and Lena Williams	AD A139 801
TR A-83-5	Oct 1983	Effects of Organic Amendments to Sediment on Freshwater Macrophyte Growth, by J. W. Barko, R. M. Smart, M. S. Hennington, et al.	AD A136 972
TR A-84-1	Jan 1984	Growth Response of <i>Myriophyllum Spicatum</i> and <i>Hydrilla Verticillata</i> when Exposed to Continuous, Low Concentrations of Fluridone, by J. F. Hall, H. E. Westerdahl, and T. J. Stewart	AD A140 846
TR A-84-2	Jan 1984	Efficacy of <i>Sameodes Albiguttalis</i> as a Biocontrol of Waterhyacinth, by T. D. Center, W. C. Durden, and D. A. Corman	AD A141 321
TR A-84-3	Feb 1984	Interactive Influences of Light and Temperature on the Growth and Morphology of Submersed Freshwater Macrophytes, by J. W. Barko, D. G. Hardin, and M. S. Matthews	AD A139 801

**Aquatic Plant Control Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR A-84-4	May 1984	Rearing, Storing, and Efficacy Studies on <i>Arzama Densa</i> for Release Programs Against Waterhyacinth, by R. G. Baer and P. C. Quimby, Jr.	AD A145 832
TR A-84-5	Aug 1984	Evaluation of <i>Fusarium Roseum</i> 'Culmorum' as a Biological Control Agent for <i>Hydrilla Verticillata</i> , by R. Charudattan, T. E. Freeman, R. E. Cullen, and F. M. Hofmeister	AD A145 228
TR A-85-1		Large-Scale Operations Management Test (LSOMT) of Insects and Pathogens for Control of Waterhyacinth in Louisiana:	
	Jan 1985	Volume I Results for 1979-1981, by D. R. Sanders, Sr., E. A. Theriot, and Patricia Perfetti	AD A156 759
	Dec 1986	Volume II Results for 1982-1983, by D. R. Sanders, Sr., and E. A. Theriot	AD A176 436
TR A-85-2	Jun 1985	Evaluation of Polymers for Controlled Delivery of Herbicides for Aquatic Plant Control, by F. W. Harris	AD A157 948
TR A-85-3	Sep 1985	Biological Control of <i>Hydrilla Verticillata</i> (L.f.) Royle With Lytic Enzyme-Producing Microorganisms, by J. C. Pennington	AD A163 031
TR A-85-4	Dec 1985	Final Report on the Overseas Surveys (1981-1983) for Insects to Control Hydrilla, by J. K. Balciunas	AD A165 419
TR A-86-1	Jan 1986	Effects of Sediment Composition on Growth of Submersed Aquatic Vegetation, by J. W. Barko and R. M. Smart	AD A166 657
TR A-86-2	May 1986	Effects of Water Chemistry on Aquatic Plants: Growth and Photosynthesis of <i>Myriophyllum Spicatum</i> L., by R. M. Smart and J. W. Barko	AD A168 898
TR A-87-1	Apr 1987	An Ecological Study of Hydrilla in the Potomac River; Waterfowl Segment, by R. V. Folker	AD A182 556
TR A-88-1	Feb 1988	Field Evaluation of Microbiological Control Agents on Eurasian Watermilfoil, by H. B. Gunner, Yuthana Limpamara, and P. J. Weilerstein	AD A195 393
TR A-88-2	Apr 1988	Interactions Between Macrophyte Growth and Sediment Nutrient Availability, by J. W. Barko, R. M. Smart, R. L. Chen, and D. G. McFarland	AD A195 394
TR A-88-3	Apr 1988	A Survey of the Continental United States for Pathogens of Eurasian Watermilfoil, by W. C. Zattau	AD A196 576

**Aquatic Plant Control Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR A-88-4*	Apr 1988	A Study of Formulations for the Controlled Release of Aquatic Herbicides, by R. L. Dunn, J. D. Strobel, B. H. Perkins, et al.	AD B122 397L
TR A-88-5	Apr 1988	Effects of Water Chemistry on Aquatic Plants: Interrelationships Among Biomass Production, Plant Nutrition, and Water Chemistry, by R. M. Smart and J. W. Barko	AD A194 189
TR A-88-6	Apr 1988	A Survey of the Fauna Associated with <i>Pistia Stratiotes</i> L. (Waterlettuce) in Florida, by F. A. Dray, Jr., C. R. Thompson, D. H. Habeck, et al.	AD A194 188
TR A-88-7	Jun 1988	Biological Control of Waterhyacinth in the California Delta, by R. M. Stewart, A. F. Cofrancesco, Jr., and L. G. Bezark	AD A198 024
TR A-88-8		Simulation Model of Waterhyacinth and its Biocontrol Agents:	
	Jul 1988	Report 1 First-Generation Model, by K. S. Akbay, J. W. Wooten, and F. G. Howell	AD A197 856
TR A-88-9		Aquatic Plant Identification and Herbicide Use Guide:	
	Nov 1988	Volume I Aquatic Herbicides and Application Equipment, edited by H. E. Westerdahl and K. D. Getsinger	AD A199 571
	Nov 1988	Volume II Aquatic Plants and Susceptibility to Herbicides, edited by H. E. Westerdahl and K. D. Getsinger	AD A203 243
TR A-88-10	Nov 1988	Host Specificity and Biology of the Weevil <i>Neohydronomus pulchellus</i> Hustache, Biological Control Agent of Waterlettuce (<i>Pistia stratiotes</i> L.) in Florida, by C. R. Thompson and D. H. Habeck	AD A205 872
TR A-88-11	Dec 1988	Effects of Submersed Aquatic Macrophytes on Physical and Chemical Properties of Surrounding Water, by J. W. Barko and G. L. Godshalk	AD A203 108
TR A-89-1	Apr 1989	Evaluation of Fungi for Biological Control of <i>Hydrilla verticillata</i> (L.f.) Royle, by G. F. Joye, E. A. Theriot, and Susan Hennington	AD A208 579
TR A-89-2	Oct 1989	Allelopathic Aquatic Plants for Aquatic Plant Management; A Feasibility Study, by S. D. Elakovich and J. W. Wooten	AD A217 441

* Statement B. See Preface.

**Aquatic Plant Control Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR A-89-3	Nov 1989	The Habitat Value of Aquatic Macrophytes for Macro-invertebrates, by A. C. Miller, D. C. Becken, C. M. Way, and E. J. Bacon	AD A215 675
TR A-90-1	Feb 1990	Seasonal Biomass and Carbohydrate Distribution in Waterhyacinth: Small-Scale Evaluation, by K. T. Luu and K. D. Getsinger	AD A220 047
TR A-90-2	Jun 1990	Microbiological Control of Eurasian Watermilfoil; Final Report, by H. B. Gunner, Yuthana Limpa-Amara, B. S. Bouchard, et al.	AD A226 545
TR A-90-3	Jun 1990	Host Specificity of Microbial Flora from Eurasian Watermilfoil, by J. H. Andrews, R. F. Harris, C. S. Smith, and Tara Chand	AD A225 025
TR A-90-4	Jul 1990	Effects of Water Chemistry on Aquatic Plants: Interactive Effects of Inorganic Carbon and Nitrogen on Biomass Production and Plant Nutrition, by R. M. Smart and J. W. Barko	AD A225 026
TR A-90-5	Jul 1990	Effects of Salinity and Irradiance Conditions on the Growth, Morphology, and Chemical Composition of Submersed Aquatic Macrophytes, by R. R. Twilley and J. W. Barko	AD A225 023
TR A-90-6	Jul 1990	Interactive Influences of Selected Environmental Variables on Growth and Tuber Formation in <i>Hydrilla</i> , by D. G. McFarland and J. W. Barko	AD A226 124
TR A-90-7	Jul 1990	Bioassay of Plant Growth Regulator Activity on Aquatic Plants, by C. A. Lembi and M. D. Netherland	AD A226 125
TR A-90-8	Aug 1990	Feasibility of Using Expert Systems in Aquatic Plant Control, by L. R. Lawrence and H. Lemmon	AD A226 539
TR A-91-1	Apr 1991	Influences of Submersed Aquatic Macrophytes on Zonation of Sediment Accretion and Composition, Eau Galle Reservoir, Wisconsin, by W. F. James and J. W. Barko	AD A236 604
TR A-91-2	Apr 1991	Evaluation of Factors Influencing Gas Evolution Beneath Benthic Barriers, by Douglas Gunnison and J. W. Barko	AD A237 631
TR A-91-3	Jun 1991	Ecological Considerations in the Management of Eurasian Watermilfoil in Lake Minnetonka, Minnesota, by C. S. Smith, J. W. Barko, and D. G. McFarland	AD A239 570
TR A-91-4	Jun 1991	Studies on the Use of Fungal Plant Pathogens for Control of <i>Hydrilla verticillata</i> (L.f.) Royle, by G. F. Joye and A. F. Cofrancesco, Jr.	AD A238 747

**Aquatic Plant Control Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR A-91-5	Jun 1991	Habitat Value of Aquatic Plants for Fishes, by K. J. Kilgore, J. J. Hoover, and R. P. Morgan II	AD A239 569
TR A-91-6	Oct 1991	Histology of Infection of <i>Hydrilla verticillata</i> by <i>Macrophomina phaseolina</i> , by G. F. Joye and Rex Paul	AD A242 194
TR A-91-7	Dec 1991	Effects of Sediment Nitrogen Availability and Plant Density on Interactions Between the Growth of <i>Hydrilla verticillata</i> and <i>Potamogeton americanus</i> , by N. J. McCreary, D. G. McFarland, and J. W. Barko	AD A254 591
TR A-92-1	Jul 1992	Biological Control of <i>Pistia stratiotes</i> L. (Waterlettuce) using <i>Neohydronomus affinis</i> Hustache (Coleoptera: Curculionidae), by F. A. Dray, Jr., and T. D. Center	
TR A-93-1	Jan 1993	Use of Water Exchange Information to Improve Chemical Control of Eurasian Watermilfoil in Pacific Northwest Rivers, by K. D. Getsinger, David Sisneros, and E. G. Turner	AD A262 302
TR A-93-2	Jan 1993	Efficacy of Bensulfuron Methyl on Eurasian Watermilfoil, by L. S. Nelson and M. D. Netherland	AD A262 379
TR A-93-3	Jan 1993	Allocation of Biomass and Carbohydrates in Waterhyacinth (<i>Eichhornia crassipes</i>): Pond-Scale Verification, by J. D. Madsen, K. T. Luu, and K. D. Getsinger	AD A261 931
TR A-93-4	Feb 1993	Effects of Convective Hydraulic Circulation on Phosphorus Transport in Aquatic Macrophyte Beds, by W. F. James and J. W. Barko	AD A262 159

Environmental Effects of Dredging Program* Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR D-90-1	Feb 1990	Uptake of Heavy Metals from Contaminated Sediments by Salt-Marsh Plants, by A. H. L. Huiskes and J. Nieuwenhuize	AD A219 617
CR D-92-1	Jan 1992	Overview of Processes Affecting Contaminant Release from Confined Disposal Facilities, by J. L. Martin and S. C. McCutcheon	AD A247 650

* Formerly Dredged Material Research Program

Environmental Effects of Dredging Program

Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Aquatic Disposal			
EEDP-01-1	Jun 1985	Biomagnification of Contaminants in Aquatic Food Webs as a Result of Open-Water Disposal of DM	
EEDP-01-2	Sep 1986	Fate of Dredged Material During Open-Water Disposal	
EEDP-01-3	Feb 1987	Engineering Considerations for Capping Subaqueous Dredged Material Deposits -- Background and Preliminary Planning	
EEDP-01-4	Feb 1987	Engineering Considerations for Capping Subaqueous Dredged Material Deposits -- Design Concepts and Placement Techniques	
	Apr 1987	Errata Sheet No. 1	
EEDP-01-5	Feb 1989	Monitoring Dredged Material Consolidation at Aquatic Disposal Sites	
EEDP-01-6	Mar 1987	Computerized Database for Interpretation of the Relationship between Contaminants Tissue Residues and Biological Effects in Aquatic Organisms	
EEDP-01-7	Mar 1987	Use of <i>Daphnia magna</i> to Predict Consequences of Bioaccumulation	
	Aug 1987	Errata Sheet No. 1	
EEDP-01-8	Mar 1987	Simplified Approach for Evaluation Bioavailability of of Neutral Organic Chemicals in Sediment	
EEDP-01-9	Feb 1988	A Procedure for Determining Cap Thickness for Capping Subaqueous Dredged Material Deposits	
EEDP-01-10	Feb 1988	Acoustic Tools and Techniques for Physical Monitoring of Aquatic Dredged Material Disposal Sites	
EEDP-01-11	Mar 1988	Contaminant Modeling	
EEDP-01-12	Mar 1988	Use of Seabed Drifters in Locating and Monitoring Dredged Material Placement Sites	

**Environmental Effects of Dredging Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Aquatic Disposal (Cont.)	
EEDP-01-13	Apr 1988	Relationship Between PCB Tissue Residues and Reproductive Success of Fathead Minnows	
EEDP-01-14	Dec 1988	Influence of Environmental Variables on Bioaccumulation of Mercury	
EEDP-01-15	Apr 1989	Bioaccumulation of Chlorinated Contaminants and Concomitant Sublethal Effects in Marine Animals: An Assessment of the Current Literature	
EEDP-01-16	May 1989	Seasonal Restrictions on Dredging Operations in Freshwater Systems	
EEDP-01-17	Jul 1989	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Factors Related to Contaminants	
EEDP-01-18	Jul 1989	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Factors Related to Sediment and Water	
EEDP-01-19	Jul 1989	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Factors Related to Biota	
EEDP-01-20	Aug 1989	Factors Influencing Bioaccumulation of Sediment-Associated Contaminants by Aquatic Organisms; Glossary and Bibliography	
EEDP-01-21	Jul 1989	Physical Monitoring of Nearshore Sand Berms	
EEDP-01-22	Oct 1990	Chronic Sublethal Sediment Bioassays for the Regulatory Evaluation of Marine and Estuarine Dredged Material: Proceedings of a Workshop	
EEDP-01-23	Oct 1990	Evaluation of Sediment Genotoxicity: Workshop Summary and Conclusions	
EEDP-01-24	Dec 1990	Literature Review for Residue-Effects Relationships with Hydrocarbon Contaminants in Marine Organisms	
EEDP-01-25	Nov 1991	Interim Results: The Relationship Between Sediment Organic Carbon and Biological Uptake of Contaminants	
EEDP-01-26	Apr 1992	Data Base for Polychlorinated Dioxins and Polychlorinated Furans	
EEDP-01-27	Nov 1992	A Computer-Assisted Expert System for Interpreting the Consequences of Bioaccumulation in Aquatic Animals (COBIAA)	

**Environmental Effects of Dredging Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Aquatic Disposal (Cont.)			
EEDP-01-28	Dec 1992	Risk-based Testing of Dredged Material for Aquatic Disposal Evaluations	
EEDP-01-29	Dec 1992	Determining the Developmental Status of Sediment Toxicity Bioassays	
EEDP-01-30	May 1993	Environmental Effects Evaluation for Thalweg Disposal of Dredged Material	
EEDP-01-31	May 1993	Implementation Approach for Thalweg Disposal of Dredged Material	
Upland Disposal			
EEDP-02-1	Jun 1985	Plant Bioassay of Dredged Material	
EEDP-02-2	Jan 1986	Upland Animal Bioassays of Dredged Material	
EEDP-02-3	Mar 1987	Upland Disposal Site Management for Surface Runoff Water Quality	
EEDP-02-4	Feb 1988	Upland Animal Bioassays of Dredged Material	
EEDP-02-5	Mar 1988	Refinement and Simplification of Column Settling Tests for Design of Dredged Material Confinement Areas	
EEDP-02-6	Aug 1988	Heavy Metal Uptake by Agronomic Crops and <i>Cyperus esculentus</i> Grown on Oxidized and Reduced Soils Contaminated with Metal-Mining Wastes	
EEDP-02-7	Nov 1988	Synthesis of Leaching Research and Workshop Results	
EEDP-02-8	Dec 1988	Confined Disposal Guidance for Small Hydraulic Maintenance Dredging Projects--Design Procedures	
EEDP-02-9	Dec 1988	Role of Contaminant Uptake in the Potential Use of <i>Phragmites australis</i> (Cav.) Trin. on Confined Disposal Facilities	
EEDP-02-10	Sep 1989	PCDD/F89-Updated Computer Model to Evaluate Consolidation/Desiccation on Soft Soils	
EEDP-02-11	Dec 1989	Factors Affecting Leachate Quality	
EEDP-02-12	Sep 1990	PCB Volatilization from Dredged Material, Indiana Harbor, Indiana	
EEDP-02-13	Dec 1990	Factors Affecting the Behavior of Metals in Leachate	

**Environmental Effects of Dredging Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Upland Disposal (Cont.)			
EEDP-02-14	Sep 1991	Long-term Evaluation of Plants and Animals Colonizing Contaminated Estuarine Dredged Material Placed in an Upland Environment	
EEDP-02-15	Oct 1991	Technical Considerations for Application of Leach Tests to Sediments and Dredged Material	
EEDP-02-16	Nov 1991	Influence of Sediment Properties on Bioaccumulation Potential of PCBs: Field Studies at the Calumet Confined Disposal Facility	
EEDP-02-17	Feb 1993	Synopsis of Hamlet City Lake, North Carolina, and San Francisco Bay Area, California, Sediment Leaching Studies	
Wetlands/Estuarine Disposal			
EEDP-03-1	Jan 1986	Wetland Animal Bioassay of Saltwater Dredged Material	
EEDP-03-2	Mar 1987	Wetland Animal Bioassays/Biomonitoring	
EEDP-03-3	Jun 1987	Field Verification of this Estuarine Plant Bioassay Procedure	
EEDP-03-4	Jun 1988	The Wetland Evaluation Technique (WET): A Technique for Assessing Wetland Functions and Values	
EEDP-03-5	Jun 1988	Long-Term Biological Studies in Bottomland Hardwood Wetlands, Cache River, Arkansas	
EEDP-03-6	May 1989	A Method for Calculating Chemical Loading Rates in Riverine Wetland Systems	
EEDP-03-7	Sep 1991	Long-term Evaluation of Plants and Animals Colonizing Contaminated Estuarine Dredged Material Placed in a Wetland Environment	
Regulatory			
EEDP-04-1	Jun 1985	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas--General	
EEDP-04-2	Jun 1985	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas--Test Procedures	

**Environmental Effects of Dredging Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Regulatory (Cont.)			
EEDP-04-3	Jun 1985	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas--Data Analysis	
EEDP-04-4	Jun 1985	Interim Guidance for Predicting Quality of Effluent Discharged from Confined Dredged Material Disposal Areas--Application	
EEDP-04-5	Sep 1987	Interim Procedures for Estimating Mixing Zones for Effluent from Dredged Material Disposal Sites	
EEDP-04-6	Mar 1987	Regulatory Identification of Hydrocarbon Contaminants in DM	
EEDP-04-7	Jan 1988	Routine and Atypical Wetland Determinations According to CE Wetlands Delineation Manual	
EEDP-04-8	Aug 1988	Corps of Engineers' Procedures and Policies on Dredging and Dredged Material Disposal (The Federal Standard)	
EEDP-04-9	Nov 1988	General Guidelines for Monitoring Effluent Quality from Confined Dredged Material Disposal Areas	
EEDP-04-10	Dec 1989	Procedures for Examining the Relationship between Sediment Geochemistry and Biological Impacts of Contaminants	
EEDP-04-11	Dec 1989	A Plant Bioassay for Assessing Plant Uptake of Heavy Metals from Contaminated Freshwater Dredged Material	
EEDP-04-12	Mar 1990	A Computerized Procedure for Predicting Plant Uptake of Heavy Metals from Contaminated Freshwater Dredged Material	
EEDP-04-13	Aug 1990	Environmental Interpretation and Evaluation of Hydrocarbon Contaminants in Dredged Material	
EEDP-04-14	Feb 1992	Residue Effects Data Base on the Relationship Between Dioxin and Biological Effects in Aquatic Animals	
EEDP-04-15	Dec 1992	New Technique for Sediment/Organism Equilibrium Partitioning Studies	
EEDP-04-16	Dec 1992	The Koc of Nonpolar Organic Compounds in Sediment	
EEDP-04-17	Dec 1992	Critical Body Residue (CBR) Approach for Interpreting the Consequences of Bioaccumulation of Neutral Organic Contaminants	
EEDP-04-18	Jan 1993	Dioxin in Sediments: Application of Toxic Equivalents Based on International Toxicity Equivalency Factors to Regulation of Dredged Material	

**Environmental Effects of Dredging Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Management	
EEDP-06-1	Jul 1987	CE Sediment Collection and Analysis Methods	
EEDP-06-2	Feb 1988	Techniques for Reducing the Costs of Sediment Evaluation	
EEDP-06-3	Mar 1988	Engineer Manual Series on Dredging and Dredged Material	
EEDP-06-4	Apr 1988	Current District Dredged Material Dewatering Practices	
EEDP-06-5	May 1989	Economic Optimization of Confined Disposal Area Dimensions	
EEDP-06-6	Jul 1989	Dredged Material Containment Area Management Practices for Increasing Storage Capacity	
EEDP-06-7	Nov 1989	Economic Valuation of Wetlands	
EEDP-06-8	Oct 1989	Summary of Valuation Methods for Wetlands	
EEDP-06-9	Nov 1989	Predicting and Monitoring Dredge-Induced Dissolved Oxygen Reduction	
EEDP-06-10	Jan 1990	Corps of Engineers Initiative to Develop Long-Term Management Strategies for Navigation Dredging Projects: Overview and Framework	
EEDP-06-11	Jan 1990	Preliminary Guidelines and Conceptual Framework for Comprehensive Analysis of Migration Pathways (CAMP) of Contaminated Dredged Material	
EEDP-06-12	Aug 1990	The Automated Dredging and Disposal Alternatives Management System (ADDAMS)	
EEDP-06-13	Nov 1991	Documentation of the EFQUAL Module for ADDAMS: Comparison of Predicted Effluent Water Quality with Standards	
EEDP-06-14	Feb 1993	Evaluating Environmental Effects of Dredged Material Management Alternatives -- A Technical Framework	
EEDP-06-15	Dec 1991	Risk Assessment: An Overview of the Process	
EEDP-06-16	Dec 1991	Long-Term Management Strategy (LTMS) National Forum: Corps of Engineers Summary and Findings	
EEDP-06-17	Dec 1992	Documentation of the DYECON Module for ADDAMS: Determining the Hydraulic Retention and Efficiency of Confined Disposal Facilities	
EEDP-06-18	Dec 1992	Documentation of the SETTLE Module for ADDAMS: Design of Confined Disposal Facilities for Solids Retention and Initial Storage	

**Environmental Effects of Dredging Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Beneficial Uses			
EEDP-07-1	Dec 1986	Building, Developing, and Managing DM Islands for Bird Habitat	
EEDP-07-2	May 1988	Wetlands Created for DM Stabilization and Wildlife Habitat in Moderate to High Wave Energy Environments	
EEDP-07-3	Feb 1988	Construction of a Submerged Gravel Bar Habitat Using Dredged Material	
EEDP-07-4	Mar 1988	Construction of a Shallow-Water Gravel Bar Habitat Using Dredged Material	
EEDP-07-5	Feb 1989	The Value of Gravel Disposal Mounds in River Side Channels for Freshwater Mussels	
Miscellaneous			
EEDP-08-1	Nov 1988	The Value of Wing Dams for Freshwater Mussels	
Equipment			
EEDP-09-1	Dec 1986	Guide to Selecting a Dredge for Minimizing Resuspension of Sediment	
EEDP-09-2	Mar 1988	Sediment Resuspension by Selected Dredges	
EEDP-09-3	Apr 1988	A Preliminary Evaluation of Contaminant Release at the Point of Dredging	
EEDP-09-4	Jan 1989	Equipment Mobility in Confined Dredged Material Disposal Areas; Field Evaluations	
EEDP-09-5	Jan 1990	Selecting Equipment for Use in Dredged Material Containment Areas	
EEDP-09-6	Dec 1990	Alternative Dredging Equipment and Operational Methods to Minimize Sea Turtle Mortalities	

Environmental Effects of Dredging Program*

Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
D-79-1 thru D-79-4	Apr 1979 thru Dec 1979	Dredged Material Research; Notes, News, Reviews, etc.	
D-80-1	May 1980	Dredged Material Research; Notes, News, Reviews, etc.	
D-80-2	Nov 1980	Dredged Material Research; Notes, News, Reviews, etc.	
D-81-1	Jun 1981	Dredged Material Research; Notes, News, Reviews, etc.	
D-81-2	Aug 1981	Dredged Material Research; Notes, News, Reviews, etc.	
D-82-1 thru D-82-4	Jan 1982 thru Dec 1982	Dredged Material Research; Notes, News, Reviews, etc.	
D-83-1	Jan 1983	Dredged Material Research; Notes, News, Reviews, etc.	
D-83-2** thru D-83-4	May 1983 thru Oct 1983	Environmental Effects of Dredging	
D-84-1 thru D-84-6	Jan 1984 thru Nov 1984	Environmental Effects of Dredging	
D-85-1 thru D-85-4	Mar 1985 thru Oct 1985	Environmental Effects of Dredging	
D-86-1 thru D-86-6	Jan 1986 thru Nov 1986	Environmental Effects of Dredging	
D-87-1 thru D-87-6	Feb 1987 thru Oct 1987	Environmental Effects of Dredging	
D-88-1 thru D-88-6	Jan 1988 thru Dec 1988	Environmental Effects of Dredging	

* Formerly Dredged Material Research Program.

** Title changed to Environmental Effects of Dredging with Vol. D-83-2, May 1983. This publication is part of the Dredging Operations Technical Support (DOTS) Program.

**Environmental Effects of Dredging Program
Information Exchange Bulletins**

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
D-89-1 thru D-89-2	Jul 1989 thru Sep 1989	Environmental Effects of Dredging	
D-90-1 thru D-90-3	Feb 1990 thru Dec 1990	Environmental Effects of Dredging	
D-91-1 thru D-91-4	Aug 1991 thru Dec 1991	Environmental Effects of Dredging	
D-92-1 thru D-92-5	Mar 1992 thru Nov 1992	Environmental Effects of Dredging	
D-93-1 thru D-93-2	Feb 1993 thru May 1993	Environmental Effects of Dredging	

Environmental Effects of Dredging Program* Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR D-84-1	Apr 1984	Preliminary Users' Manual, 3-D Mathematical Model of Coastal, Estuarine, and Lake Currents (CELC3D), by Y. P. Sheng	AD A142 070
IR D-91-1	Jul 1991	Program Documentation and User's Guide: PCDDF89, Primary Consolidation and Desiccation of Dredged Fill, by T. D. Stark	AD A241 868

* Formerly Dredged Material Research Program.

Environmental Effects of Dredging Program*

Miscellaneous Papers

Number	Date	Title	AD Number
MP D-82-1	Oct 1982	Habitat Development at Eight Corps of Engineers Sites: Feasibility and Assessment, edited by M. C. Landin	AD A122 662
MP D-83-1	Jun 1985	Comparison of the Heavy-Metal Uptake of <i>Cyperus Esculentus</i> and of Agronomic Plants Grown on Contaminated Dutch Sediments, by W. van Driel, K. W. Smilde, and B. van Luit	AD A158 216
MP D-83-2	Oct 1983	Aquaculture in Dredged Material Containment Areas; Proceedings, edited by Jurij Homziak and J. D. Lunz	AD A135 075
MP D-84-1	Dec 1984	Evaluation of Three Fish Species as Bioassay Organisms for Dredged Material Testing, by N. I. Rubinstein, W. T. Gilliam, and N. R. Gregory	AD A153 983
MP D-85-1	Aug 1985	Management Strategy for Disposal of Dredged Material: Contaminant Testing and Controls, by N. R. Francingues, Jr., M. R. Palermo, C. R. Lee, and R. K. Peddicord	AD A158 406
MP D-85-2	Sep 1985	Bioaccumulation and Effects on Reproduction in Aquatic Organisms: An Assessment of the Current Literature, by T. M. Dillon and A. B. Gibson	AD A163 202
MP D-86-1	Feb 1986	Interim Guidance for Predicting the Quality of Effluent Discharged from Confined Dredged Material Disposal Areas, by M. R. Palermo	AD A168 140
MP D-86-2	Jun 1986	Effectiveness of Capping in Isolating Dutch Kills Sediment from Biota and the Overlying Water, by J. M. Brannon, R. E. Hoeppe, T. C. Sturgis, et al.	AD A170 381
MP D-86-3	Jun 1986	Feasibility of Using Mycorrhizal Fungi for Enhancement of Plant Establishment on Dredged Material Disposal Sites: A Literature Review, by J. C. Pennington	AD A170 443
MP D-86-4	Aug 1986	Dye Tracer Studies at the Kenosha, Manitowoc, Milwaukee, and Kewaunee Harbors Confined Disposal Facilities, by S. A. Pranger and P. R. Schroeder	AD A172 170
MP D-86-5	Sep 1986	Changing Concepts and Improved Methods for Evaluating the Importance of PCBs as Dredged Sediment Contaminants, by V. A. McFarland, J. U. Clarke, and A. B. Gibson	AD A174 177

* Formerly Dredged Material Research Program.

Environmental Effects of Dredging Program
Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP D-86-6	Oct 1986	Survey of Equipment and Construction Techniques for Capping Dredging Material, by W. H. Sanderson and A. L. McKnight	AD A174 650
MP D-86-7	Dec 1986	Wetlands Investigations on Akers Ranch in Big Valley, California, by D. R. Sanders, Sr., E. J. Clairain, Jr., R. F. Theriot, and P. H. Jones (Appendixes A-D available from the authors upon request)	AD A177 297
MP D-87-1	Mar 1987	Prediction of Surface Runoff Water Quality from Black Rock Harbor Dredged Material Placed in an Upland Disposal Site, by J. G. Skogerboe, C. R. Lee, R. A. Price, et al.	AD A182 235
MP D-87-2	Mar 1987	Development of a Simplified Column Test for Evaluation of Thickness of Capping Material Required to Isolate Contaminated Dredged Material, by Douglas Gunnison, J. M. Brannon, T. C. Sturgis, and Issac Smith, Jr.	AD A179 929
MP D-87-3	Mar 1987	Regulatory Identification of Petroleum Hydrocarbons in Dredged Material; Proceedings of a Workshop, by J. U. Clarke and A. B. Gibson	AD A180 082
MP D-88-1	Feb 1988	Development and Application of Techniques for Predicting Leachate Quality in Confined Disposal Facilities; Background and Theory, by D. O. Hill, T. E. Myers, and J. M. Brannon	AD A190 598
MP D-88-2	Feb 1988	The Corps' Environmental Effects of Dredging Programs, by R. M. Engler, T. R. Patin, and R. F. Theriot	AD A190 597
MP D-88-3	Apr 1988	Planning-Level Cost Estimates of Dredged Material Containment Islands in New York Harbor, by T. M. Walski and T. E. Schaefer, Jr.	AD A194 812
MP D-88-4	Sep 1988	Preliminary Investigation of the Short-Term Effects of Storms on Sedimentary Characteristics and the Nearshore Fauna Using the Sediment Profiling Camera System, by C. A. Miller-Way and D. A. Nelson	AD A200 176
MP D-89-1	Feb 1989	Analyses of Impacts of Bottom Sediments from Grand Calumet River and Indiana Harbor Canal on Water Quality, by J. M. Brannon, Douglas Gunnison, D. E. Averett, et al.	AD A206 507
MP D-89-2	Feb 1989	Preliminary Recommendations for a Congener-Specific PCB Analysis in Regulatory Evaluation of Dredged Material, by J. U. Clarke, V. A. McFarland and B. D. Pierce	AD A206 661
MP D-89-3	Oct 1989	Evaluation of Hopper Loading and Overflow for Saginaw River, Michigan, by M. R. Palermo and R. E. Randall	AD A214 997

**Environmental Effects of Dredging Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP D-90-2	Feb 1990	Update of the Corps' Environmental Effects of Dredging Programs (FY 89), by R. M. Engler, T. R. Patin, and R. F. Theriot	AD A218 753
MP D-90-3	Feb 1992	Synopsis of Research Needs Workshop; Development of Leach Tests for Contaminated Dredged Material, 23-24 June 1988, Baton Rouge, Louisiana	AD A220 495
MP D-90-4	Sep 1990	Engineering Design and Environmental Assessment of Dredged Material Overflow from Hydraulically Filled Hopper Barges in Mobile Bay, Alabama, by D. G. Clarke, Jurij Homziak, R. L. Lazor, et al.	AD A227 913
MP D-90-5	Sep 1990	Comprehensive Analysis of Migration Pathways (CAMP): Contaminant Migration Pathways at Confined Dredged Material Disposal Facilities, by J. M. Brannon, J. C. Pennington, Douglas Gunnison, and T. E. Myers	AD A228 845
MP D-91-1	Jun 1991	General Decisionmaking Framework for Management of Dredged Material: Example Application to Commencement Bay, Washington, by C. R. Lee, H. E. Tatem, D. L. Brandon, et al.	AD A240 493
MP D-91-2	Jul 1991	Assessing Bioaccumulation in Aquatic Organisms Exposed to Contaminated Sediments, by J. U. Clarke and V. A. McFarland	AD A239 551
MP D-91-3	Jul 1991	Design of an Improved Column Leaching Apparatus for Sediments and Dredged Material, by T. E. Myers, R. P. Gambrell, and M. E. Titlebaum	AD A239 592
MP D-91-4	Jun 1991	Effects of Sediment Organic Matter Composition on Bioaccumulation of Sediment Organic Contaminants; Interim Results, by J. M. Brannon, C. B. Price, F. J. Reilly, et al.	AD A239 591
MP D-91-5	Sep 1991	Interim Report; Long-Term Evaluation of Plants and Animals Colonizing Contaminated Estuarine Dredged Material Placed in Both Upland and Wetland Environments, by D. L. Brandon, C. R. Lee, J. W. Simmers, et al.	AD A249 016
MP D-91-17	Jun 1991	Interim Report: Collation and Interpretation of Data for Times Beach Confined Disposal Facility, Buffalo, New York, by E. A. Stafford, J. W. Simmers, R. G. Rhett, and C. P. Brown	AD A239 637
MP D-92-1	Jul 1992	An Environmental Assessment of the Effects of Open-Water Disposal of Maintenance Dredged Material on Benthic Resources in Mobile Bay, Alabama, by Douglas Clarke, and Tina Miller-Way	AD A254 534

**Environmental Effects of Dredging Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP D-92-2	Aug 1992	Recent Developments in Leachate Testing and Evaluation, by T. E. Myers, J. M. Brannon, and C. B. Price	AD A255 043
MP D-92-3	Aug 1992	Trends in PCB Contamination in Fishes From Wisconsin Waters of Lake Michigan, 1978-1986, by J. U. Clarke, P. L. Whitman, and John Dorkin	AD A269 749
MP D-92-4	Sep 1992	Chronic Sublethal Effects of San Francisco Bay Sediments on <i>Nereis (Neanthes) arenaceodentata</i> ; Nontreatment Factors, by D. W. Moore and T. M. Dillon	AD A259 400
MP D-92-5	Nov 1992	Leachate Testing of Hamlet City Lake, North Carolina, Sediment, by J. M. Brannon, T. E. Myers and C. B. Price	AD A259 762
MP D-93-1	Feb 1993	Chronic Sublethal Effects of San Francisco Bay Sediments on <i>Nereis (Neanthes) arenaceodentata</i> : Partial Life-Cycle Exposure to Bedded Sediments, by D. W. Moore and T. M. Dillon	AD A262 140
MP D-93-2	Jun 1993	Chronic Sublethal Effects of San Francisco Bay Sediments on <i>Nereis (Neanthes) arenaceodentata</i> : Full Life-Cycle Exposure to Bedded Sediments, by D. W. Moore and T. M. Dillon	AD A268 207

Environmental Effects of Dredging Program* Technical Reports

Number	Date	Title	AD Number
TR D-83-1	Jan 1983	Procedures for Prediction of Consolidation in Soft Fine-Grained Dredged Material, by K. W. Cargill	AD A125 320
TR D-83-2	Jul 1983	Chemical Clarification Methods for Confined Dredged Material Disposal, by P. A. Schroeder	AD A134 731
TR D-83-3	Oct 1983	Evaluation of the 1980 Capping Operations at the Experimental Mud Dump Site, New York Bight Apex, by J. M. O'Connor and S. G. O'Connor	AD A138 435
TR D-83-4	Oct 1983	Accumulation of PCBs, Mercury, and Cadmium by <i>Nereis Virens</i> , <i>Mercenaria Mercenaria</i> , and <i>Palaemonetes Pugio</i> from Contaminated Harbor Sediments, by N. I. Rubinstein, Emile Lores, and Norman Gregory	AD A136 856
TR D-84-1	Jan 1984	Transformation, Fixation, and Mobilization of Arsenic and Antimony in Contaminated Sediments, by J. M. Brannon	AD A139 032
TR D-84-2	Jun 1984	Biological Consequences of Bioaccumulation in Aquatic Animals: An Assessment of the Current Literature, by T. M. Dillon	AD A144 161
TR D-84-3	Sep 1984	Long-Term Impact of Dredged Material Disposal in Lake Erie Off Ashtabula, Ohio, by K. J. Salamon	AD A146 720
TR D-84-4	Sep 1984	Long-Term Impacts Induced by Disposal of Contaminated River Sediments in Elliott Bay, Seattle, Washington, by R. N. Dexter, D. E. Anderson, and E. A. Quinlan	AD A148 815
TR D-84-5	Nov 1984	Long-Term Impact of Dredged Material at Two Open-Water Sites: Lake Erie and Elliott Bay; Evaluative Summary, by H. E. Tatem	AD A152 029
TR D-84-6	Nov 1984	Dietary Accumulation of PCBs from a Contaminated Sediment Source by a Demersal Fish Species (<i>Leiostomus Xanthurus</i>), by N. I. Rubinstein, W. T. Gilliam, and N. R. Gregory	AD A149 415
TR D-84-7	Nov 1984	Potential for Biomagnification of Contaminants Within Marine and Freshwater Food Webs, by S. H. Kay	AD A150 747

* Formerly Dredged Material Research Program.

**Environmental Effects of Dredging Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR D-85-1	Jan 1985	Application of Sister Chromatid Exchange in Marine Polychaetes to Black Rock Harbor Sediment; Laboratory Documentation Phase, by G. G. Pesch, Cornelia Mueller, C. E. Pesch, et al.	AD A157 372
TR D-85-2	Feb 1985	Bioaccumulation of Contaminants from Black Rock Harbor Dredged Material by Mussels and Polychaetes, by James Lake, G. L. Hoffman, and S. C. Schimmel	AD A164 319
TR D-85-3	Feb 1985	Laboratory Evaluation of Adenylate Energy Charge as a Test for Stress in <i>Mytilus Edulis</i> and <i>Nephtys Incisa</i> Treated with Dredged Material, by G. E. Zaroogian, Carol Pesch, Paul Schauer, and Diane Black	AD A157 374
TR D-85-4	Jul 1985	Mathematical Model of the Consolidation/Desiccation Processes in Dredged Material, by K. W. Cargill	AD A158 730
TR D-85-5	Jul 1985	Long-Term Monitoring of Habitat Development at Upland and Wetland Dredged Material Disposal Sites, 1974-1982, by C. J. Newling and M. C. Landin	AD A159 106
TR D-85-6	Sep 1985	Utility of the Scope for Growth Index to Assess the Physiological Impact of Black Rock Harbor Suspended Sediment on the Blue Mussel, <i>Mytilus edulis</i> : A Laboratory Evaluation, by W. G. Nelson, Dianne Black, and Donald Phelps	AD A161 056
TR D-85-7	Sep 1985	Use of Bioenergetics to Investigate the Impact of Dredged Material on Benthic Species: A Laboratory Study with Polychaetes and Black Rock Harbor Material, by D. M. Johns, Ruth Gutjahr-Gobell, and Paul Schauer	AD A161 050
TR D-85-8	Sep 1985	Application of Laboratory Population Responses for Evaluating the Effects of Dredged Material, by J. H. Gentile, K. J. Scott, Suzanne Lussier, and Michele Redmond	AD A160 507
TR D-85-9	Sep 1985	Chemical and Biological Characterization of Black Rock Harbor Dredged Material, by P. F. Rogerson, S. C. Schimmel, and Gerald Hoffman	AD A164 065
TR D-85-10	Nov 1985	Effectiveness of Capping in Isolating Contaminated Dredged Material from Biota and the Overlying Water, by J. M. Brannon, R. E. Hoeppel, T. C. Sturgis, et al.	AD A165 251
TR D-86-1	Feb 1986	Histopathological Effects of Black Rock Harbor Dredged Material on Marine Organisms; A Laboratory Investigation, by P. P. Yevich, C. A. Yevich, K. J. Scott, et al.	AD A168 126

**Environmental Effects of Dredging Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR D-86-2	Mar 1986	The Duwamish Waterway Capping Demonstration Project: Engineering Analysis and Results of Physical Monitoring, by C. L. Truitt	AD A168 169
TR D-86-3	Jun 1986	Colonial Waterbird Habitats and Nesting Populations in North Carolina Estuaries: 1983 Survey, by J. F. Parnell, D. M. Du Mond, and D. A. McCrimmon	AD A171 626
TR D-86-4	Aug 1986	Development of a Modified Elutriate Test for Estimating the Quality of Effluent From Confined Dredged Material Disposal Areas, by M. R. Palermo	AD A173 526
TR D-87-1	Mar 1987	Beneficial Uses of Dredged Material; Proceedings of the First Interagency Workshop, 7-9 October 1986, Pensacola, Florida, by M. C. Landin and H. K. Smith	AD A179 756
TR D-87-2	Jun 1987	Design and Management of Dredged Material Containment Areas to Improve Hydraulic Performance, by F. D. Shields, Jr., E. L. Thackston, P. R. Schroeder, and D. P. Bach	AD A187 235
TR D-87-3	Jul 1987	The Assessment of Black Rock Harbor Dredged Material Impacts on Laboratory Population Responses, by J. H. Gentile, K. J. Scott, S. M. Lussier and M. S. Redmond	AD A184 569
TR D-87-4	Jul 1987	Impact of Open-Water Disposal of Black Rock Harbor Dredged Material on Benthic Recolonization at the FVP Site, by John Scott, Donald Rhoads, Jeffrey Rosen, et al.	AD A184 166
TR D-87-5	Jul 1985	Sister Chromatid Exchange in Marine Polychaetes Exposed to Black Rock Harbor Sediment, by G. G. Pesch, C. E. Pesch, A. R. Malcolm, et al.	AD A184 570
TR D-87-6	May 1988	Comparison of Field and Laboratory Bioaccumulation of Organic and Inorganic Contaminants from Black Rock Harbor Dredged Material, by J. L. Lake, Walter Galloway, and Gerald Hoffman	AD A197 118
TR D-87-7	Sep 1987	Effects of Black Rock Harbor Dredged Material on the Blue Mussel, <i>Mytilus edulis</i> , After Laboratory and Field Exposures, by W. G. Nelson, D. K. Phelps, W. B. Galloway, et al.	AD A189 465
TR D-87-8	Sep 1987	Effects of Black Rock Harbor Dredged Material on the Histopathology of the Blue Mussel <i>Mytilus edulis</i> and Polychaete Worm <i>Nephtys incisa</i> After Laboratory and Field Exposures, by P. P. Yevich, Carolyn Yevich, Gerald Pesch, and William Nelson	AD A188 152

**Environmental Effects of Dredging Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR D-88-1	Feb 1988	Field Evaluations of the Quality of Effluent from Confined Dredged Material Disposal Areas, by M. R. Palermo	AD A191 975
TR D-88-2	Feb 1988	Verification of Procedures for Designing Dredged Material Containment Areas for Solids Retention, by D. E. Averett, M. R. Palermo, and Roy Wade	AD A191 080
TR D-88-3	Mar 1988	Bioenergetic Effects of Black Rock Harbor Dredged Material on the Polychaete <i>Nephtys incisa</i> : A Field Verification, by D. M. Johns and Ruth Gutjahr-Gobell	AD A194 228
TR D-88-4	Jun 1988	A Field and Laboratory Study Using Adenylate Energy Charge as an Indicator of Stress in <i>Mytilus edulis</i> and <i>Nephtys incisa</i> Treated with Dredged Material, by G. E. Zarogian, P. F. Rogerson, Gerald Hoffman, et al.	AD A198 107
TR D-88-5	Sep 1988	Synthesis of Research Results: Applicability and Field Verification of Predictive Methodologies for Aquatic Dredged Material Disposal, by J. H. Gentile, G. G. Pesch, J. Lake, et al.	AD A200 175
TR D-88-6	Oct 1988	Summary of the U.S. Army Corps of Engineers/U.S. Environmental Protection Agency Field Verification Program, by R. K. Peddicord	AD A200 173
TR D-88-7	Oct 1988	Synthesis of the Results of the Field Verification Program Upland Disposal Alternative, by B. L. Folsom, Jr., J. G. Skogerboe, M. R. Palermo, et al.	AD A200 174
TR D-88-8	Nov 1988	Inland Waterways: Proceedings of a National Workshop on the Beneficial Uses of Dredged Material, 27-30 October 1987, St. Paul, Minnesota, edited by M. C. Landin	AD A204 670
TR D-88-9	Dec 1988	Refinement of Column Settling Test Procedures for Estimating the Quality of Effluent from Confined Dredged Material Disposal Areas, by M. R. Palermo and E. L. Thackston	AD A203 359
TR D-89-1	Dec 1989	Long-Term Monitoring of Eleven Corps of Engineers Habitat Development Field Sites Built of Dredged Material, 1974-1987, by M. C. Landin, J. W. Webb, and P. L. Knutson	AD A220 267
TR D-89-2	Feb 1989	Synthesis of the Results of the Field Verification Program, Wetland Disposal Alternative, by J. W. Simmers, R. G. Rhetu, S. H. Kay, and B. L. Folsom	AD A206 743

**Environmental Effects of Dredging Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR D-90-1	Feb 1990	Methods of Determining the Long-Term Fate of Dredged Material for Aquatic Disposal Sites, by M. S. Dortch, L. Z. Hales, J. V. Letter, and W. H. McAnnally, Jr.	AD A219 763
TR D-90-2	Feb 1990	Methodology for Analysis of Subaqueous Sediment Mounds, by M. E. Poindexter-Rollings	AD A219 764
TR D-90-3	Feb 1990	Beneficial Uses of Dredged Material; Proceedings of the Gulf Coast Regional Workshop, 26-28 April 1988, Galveston, Texas, by R. L. Lazor, and Richard Medina	AD A219 782
TR D-90-4	Feb 1990	Measurement of Hydrologic Parameters of Confined Dredged Material at Wilmington Harbor, Delaware, Containment Area, by J. E. Pizzuto and M. E. Poindexter-Rollings	AD A219 766
TR D-90-5	Feb 1990	User's Guide for Models of Dredged Material Disposal in Open Water, by B. H. Johnson	AD A219 765
TR D-90-6	Mar 1990	Evaluation of Clamshell Dredging and Barge Overflow, Military Ocean Terminal, Sunny Point, North Carolina, by M. R. Palermo, A. M. Teeter, and J. Homziak	AD A221 019
TR D-90-7	Jul 1990	Considerations for Reducing the Cost of Testing Dredged Material, by J. C. Pennington, T. R. Higgins, B. L. Folsom, Jr., and D. L. Brandon	AD A221 779
TR D-90-8	Apr 1990	Revised Procedural Guide for Designation Surveys of Ocean Dredged Material Disposal Sites, by W. E. Pequegnat, B. J. Gallaway, and T. D. Wright	AD A222 236
TR D-90-9	May 1990	Field Evaluation of the Quality of Effluent from Confined Dredged Material Disposal Areas: Supplemental Study--Houston Ship Channel, by E. L. Thackston and M. R. Palermo	AD A223 057
TR D-90-10	Sep 1990	Guidance for Contracting Biological and Chemical Evaluations of Dredged Material, by T. C. Sturgis	AD A227 914
TR D-90-11	Sep 1990	Selected Tools and Techniques for Physical and Biological Monitoring of Aquatic Dredged Material Disposal Sites, by T. J. Fredette, J. E. Clausner, D. A. Nelson, et. al.	AD A229 442
TR D-90-12	Sep 1990	Guidlines for Physical and Biological Monitoring of Aquatic Dredged Material Disposal Sites, by T. J. Fredette, D. A. Nelson, J. E. Clausner, and F. J. Anders	AD A227 138

**Environmental Effects of Dredging Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR D-90-13	Sep 1990	Guidelines for Vegetative Erosion Control on Wave-Impacted Coastal Dredged Material Sites, by P. L. Knutson, H. H. Allen, and J. W. Webb	AD A230 267
TR D-91-1	Jul 1991	A Framework for Assessing the Need for Seasonal Restrictions on Dredging and Disposal Operations, by M. W. LaSalle, D. G. Clarke, Jurij Homziak, et al.	AD A240 567
TR D-92-1	Jan 1992	Seasonal Restrictions on Dredging: An Approach Toward Issue Resolution, by M. W. LaSalle	AD A247 565
TR D-92-2	Jun 1992	Long-Term Management Strategy (LTMS) for Dredged Material: Corps of Engineers Assessment and Summary of the National Forum on Implementation Strategies, 28-31 January 1991, Baltimore, Maryland, edited by N. R. Francingues, Melinda Lamb, and D. B. Mathis	AD A255 840

Environmental Effects of Dredging Program* Unnumbered

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Mar 1982	Management of Bottom Sediments Containing Toxic Substances; Proceedings of the 6th U. S./Japan Experts Meeting, 16-18 February 1981, Tokyo, Japan	AD A116 778
Unnumbered	Oct 1983	Management of Bottom Sediments Containing Toxic Substances; Proceedings of the 7th U. S./Japan Experts Meeting, 2-4 November 1981, New York City, USA	AD A136 740
Unnumbered	Jul 1984	Management of Bottom Sediments Containing Toxic Substances; Proceedings of the 8th U. S./Japan Experts Meeting, 8-10 November 1982, Tokyo, Japan, edited by T. R. Patin	AD A149 291
Unnumbered	Mar 1985	Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 9th U. S./Japan Experts Meeting, 17-19 October 1983, Jacksonville, Florida, edited by T. R. Patin	AD A157 863
Unnumbered	Oct 1985	Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 10th U. S./Japan Experts Meeting, 30-31 October 1984, Kyoto, Japan, edited by T. R. Patin	AD A163 709
Unnumbered	Mar 1987	Third United States - The Netherlands Meeting on Dredging and Related Technology, 10-14 September 1984, Charleston, South Carolina	AD A182 670
Unnumbered	Apr 1987	Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 11th U. S./Japan Experts Meeting, 4-6 November 1985, Seattle, Washington, edited by T. R. Patin	AD A186 119
Unnumbered	Jan 1988	Beneficial Uses of Dredged Material: Proceedings of the North Atlantic Regional Conference, 12-14 May 1987, Baltimore, Maryland, edited by M. C. Landin	AD A192 350
Unnumbered	Mar 1992	Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 14th U.S./Japan Experts Meeting, 27 February-1 March 1990, Yokohama, Japan, edited by T. R. Patin	AD A250 148

* Formerly Dredged Material Research Program

**Environmental Effects of Dredging Program
Unnumbered**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Apr 1992	Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 12th U.S./Japan Experts Meeting, 11-14 November 1986, Yokohama, Japan, edited by T. R. Patin	AD A253 002
Unnumbered	Apr 1992	Management of Bottom Sediments Containing Toxic Substances: Proceedings of the 13th U.S./Japan Experts Meeting, 3-5 November 1987, Baltimore, Maryland, edited by T. R. Patin	AD A253 003

Water Operations Technical Support Program* Information Exchange Bulletins

Volume	Date	Title	AD Number
E-79-1 thru E-79-3	Apr 1979 thru Nov 1979	Environmental & Water Quality Operational Studies (EWQOS)	
E-80-1 thru E-80-7	Feb 1980 thru Dec 1980	Environmental & Water Quality Operational Studies (EWQOS)	
E-81-1 thru E-81-6	Feb 1981 thru Dec 1981	Environmental & Water Quality Operational Studies (EWQOS)	
E-82-1 thru E-82-8	Feb 1982 thru Nov 1982	Environmental & Water Quality Operational Studies (EWQOS)	
E-83-1 thru E-83-3	Jun 1983 thru Aug 1983	Environmental & Water Quality Operational Studies (EWQOS)	
E-84-1 thru E-84-7	Jan 1984 thru Dec 1984	Environmental & Water Quality Operational Studies (EWQOS)	
E-85-1 thru E-85-3	Mar 1985 thru Dec 1985	Environmental & Water Quality Operational Studies (EWQOS)	
E-86-1** thru E-86-2	Jan 1986	Water Operations Technical Support (WOTS)	
E-87-1 thru E-87-4	Mar 1987 thru Nov 1987	Water Operations Technical Support (WOTS)	
E-88-1 thru E-88-3	Jul 1988 thru Dec 1988	Water Operations Technical Support (WOTS)	
E-89-1 thru E-89-2	Oct 1989 thru Dec 1989	Water Operations Technical Support (WOTS)	

* Formerly Environmental and Water Quality Operational Studies.

** Title changed to Water Operations Technical Support with Vol. E-86-1, January 1986. This publication is part of the Environmental and Water Quality Operational Studies (EWQOS) Program.

**Water Operations Technical Support Program
Information Exchange Bulletins**

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
E-90-1 thru E-90-2	Jun 1990 thru Sep 1990	Water Operations Technical Support (WOTS)	
E-91-1 thru E-91-4	Mar 1991 thru Dec 1991	Water Operations Technical Support (WOTS)	
E-92-1 thru E-92-5	Mar 1992 thru Nov 1992	Water Operations Technical Support (WOTS)	
E-93-1	Jun 1993	Water Operations Technical Support (WOTS)	

Water Operations Technical Support Program* Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR E-82-1	Apr 1982 Revised Dec 1982 Revised Jul 1986	CE-QUAL-R1: A Numerical One-Dimensional Model of Reservoir Water Quality; User's Manual	AD A116 538
IR E-82-2	May 1982	Handbook of Environmental Quality Measurement and Assessment: Methods and Techniques, by J. E. Henderson	AD A114 914
IR E-82-3	Dec 1982	User Guide for LARM2: A Longitudinal-Vertical, Time-Varying Hydrodynamic Reservoir Model, by E. M. Buchak and J. E. Edinger	AD A124 441
IR E-84-1	Apr 1984	Fluorometric Techniques for Tracing Reservoir Inflows, by M. C. Johnson	AD A143 135
IR E-86-1	Feb 1986	General Guidelines for Monitoring Contaminants in Reservoirs, by J. B. Waide	AD A167 999
IR E-86-2	Jun 1986	Statistical Methods for Reservoir Water Quality Investigation, by R. F. Gaugush	AD A171 046
IR E-86-3	Jul 1986	Handbook on Reservoir Releases for Fisheries and Environmental Quality, by J. M. Nestler, C. H. Walburg, J. F. Novotny, et al.	AD A172 710
IR E-86-4	Aug 1986	Simplified, Steady-State Temperature and Dissolved Oxygen Model: User's Guide, by J. L. Martin	AD A172 690
IR E-86-5	Aug 1986	CE-QUAL-W2: A Numerical Two-Dimensional, Laterally Averaged Model of Hydrodynamics and Water Quality; User's Manual	AD A172 930
IR E-87-1	Mar 1986	Sampling Design for Reservoir Water Quality Investigations, by R. F. Gaugush	AD A180 443
IR E-87-2	Mar 1987	SELECT: A Numerical, One-Dimensional Model for Selective Withdrawal, by J. E. Davis, J. P. Holland, M. L. Schneider, and S. C. Wilhelms	AD A181 125
	Jul 1992	Revision Sheets	

* Formerly Environmental and Water Quality Operational Studies.

**Water Operations Technical Support Program
Instruction Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR E-90-1	Nov 1990	CE-QUAL-RIV1: A Dynamic One-Dimensional (Longitudinal) Water Quality Model for Streams; User's Manual	AD A230 794
IR W-90-1	Dec 1990	Endow User's Guide, by F. D. Shields, Jr., and T. E. Schaefer	AD A231 280
IR W-91-1	Jul 1991	Design and Operation of Axial Flow Pumps for Reservoir Destratification, by R. E. Punnett	AD A239 679
IR W-93-1	Feb 1993	Sampling Design Software User's Manual, by R. F. Gaugush	AD A262 632
	Feb 1993	Diskette	AD M000 211

Water Operations Technical Support Program*

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP E-80-1		Aquatic Habitat Studies on the Lower Mississippi River, River Mile 480 to 530:	
	Mar 1981	Report 1 Introduction, by A. C. Miller	AD A097 596
	Mar 1981	Report 2 Aquatic Habitat Mapping, by S. P. Cobb and J. R. Clark	AD A097 659
	Apr 1981	Report 3 Benthic Macroinvertebrate Studies--Pilot Report, by D. B. Mathis, S. P. Cobb, L. G. Sanders, et al.	AD A104 800
	Dec 1980	Report 4 Diel Periodicity of Benthic Macroinvertebrate Drift, by C. R. Bingham, S. P. Cobb, and A. D. Magoun	AD A094 425
	May 1981	Report 5 Fish Studies--Pilot Report, by C. H. Pennington, H. L. Schramm, Jr., M. E. Potter, and M. P. Farrell	AD A101 542
	Apr 1981	Report 6 Larval Fish Studies--Pilot Report, by H. L. Schramm, Jr., and C. H. Pennington	AD A099 329
	Feb 1982	Report 7 Management of Ecological Data in Large River Ecosystems, by M. P. Farrell, A. D. Magoun, Karen Daniels, et al.	AD A116 990
	Feb 1982	Report 8 Summary, by T. D. Wright	AD A117 519
MP E-80-2	Dec 1980	Management of Water Quality Data Within the Corps of Engineers, 1979, by M. H. Smith and P. L. Doiron	AD A094 421
MP E-81-1	Feb 1981	Workshop on Riverine Water Quality Modeling, by L. S. Johnson, D. E. Ford, and D. L. Robey	AD A096 831
MP E-81-2	Jun 1981	Estimating Phytoplankton Biomass and Productivity, by J. J. Janik, W. D. Taylor, and V. W. Lambou	AD A101 413
	Oct 1981	Errata Sheet No. 1	
	Mar 1985	Errata Sheet No. 2	

* Formerly Environmental and Water Quality Operational Studies.

**Water Operations Technical Support Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP E-81-3	Sep 1981	Dissolved Nitrogen Measurements at Clarks Hill Reservoir, Georgia-South Carolina, by D. H. Merritt and Daniel Leggett	AD A105 075
MP E-82-1	Feb 1982	Assessment of Implanted Substrate Samplers for Macro-invertebrates Inhabiting Stone Dikes of the Lower Mississippi River, by D. B. Mathis, C. R. Bingham, and L. G. Sanders	AD A113 127
MP E-82-2	Jun 1982	Potential Biological Impacts of Navigation Traffic, by T. D. Wright	AD A116 991
MP E-82-3	Jul 1982	Grab Samplers for Benthic Macroinvertebrates in the Lower Mississippi River, by C. R. Bingham, D. B. Mathis, L. G. Sanders, and Eva McLemore	AD A118 077
MP E-82-4	Aug 1982	Environmental Effects of Tennessee-Tombigbee Project Cutoff Bendways, by C. H. Pennington and J. A. Baker	AD A118 102
MP E-82-5	Aug 1982	Effects of Permanently Raised Water Tables on Forest Overstory Vegetation in the Vicinity of the Tennessee-Tombigbee Waterway, by C. V. Klimas	AD A118 103
MP E-82-6	Dec 1982	Microbiological Water Quality of Impoundments: A Literature Review, by G. A. Burton, Jr.	AD A123 470
MP E-83-1	May 1983	Phosphorus Dynamics in an Arkansas Reservoir: The Importance of Seasonal Loading and Internal Recycling, by R. H. Kennedy, R. H. Montgomery, and W. F. Jones	AD A129 009
MP E-83-2	Jul 1983	Effects of Fluctuating Reservoir Water Levels on Fisheries, Wildlife, and Vegetation; Summary of a Workshop, 24-26 February 1981, edited by H. H. Allen and L. R. Aggus	AD A132 603
MP E-83-3	Oct 1983	Seasonal and Spatial Distribution of Zooplankton in a Flood Control Reservoir and Tailwater, by J. F. Novotny and R. D. Hoyt	AD A135 911
MP E-84-1	Jan 1984	Evaluation Techniques for CE-QUAL-R1: A One-Dimensional Reservoir Water Quality Model, by J. H. Wlosinski	AD A140 766
MP E-84-2	Jan 1984	Richard B. Russell Dam and Reservoir: Potential Water Quality Effects of Initial Filling and Decomposition of Vegetation, by Douglas Gunnison, J. M. Brannon, R. L. Chen, et al.	AD A141 349
MP E-84-3	Feb 1984	The Hydrometeorology of DeGray Lake, Arkansas, by Bryan Ford and A. B. Stein	AD A140 099

**Water Operations Technical Support Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP E-84-4	Jun 1984	Convection Schemes for Use with Curvilinear Coordinate Systems - A Survey, by J. F. Thompson	AD A147 093
MP E-84-5	Jul 1984	Anaerobic and Aerobic Rate Coefficients for Use in CE-QUAL-R1, by R. L. Chen, J. M. Brannon, and D. Gunnison	AD A145 499
MP E-85-1	Oct 1985	Prey Selection and Feeding Patterns of Fish in a Southern United States Hydropower Tailwater, by D. H. Barwick, P. L. Hudson, and J. M. Nestler	AD A163 142
MP E-86-1	Feb 1986	Initial Evaluation of a Computer Algorithm for Simulating Anaerobic Conditions in Reservoirs and Lakes, by M. J. Zimmerman	AD A168 000
MP E-86-2	May 1986	Morphologic Effects of Lower Mississippi River Dike Fields, by N. R. Nunnally, and L. B. Beverly	AD A169 012
MP E-86-3	Aug 1986	Macroinvertebrate Gear Evaluation, by L. G. Sanders, C. R. Bingham, and D. C. Beckett	AD A171 648
MP E-86-4	Aug 1986	Experimental Manipulations of Phytoplankton in Eau Galle Reservoir, by J. W. Barko, A. R. Klemer, D. G. McFarland, and M. S. Hennington	AD A172 673
MP E-87-1	Apr 1987	Bibliography of Effects of Commercial Navigation Traffic in Large Waterways, by A. C. Miller, K. J. Killgore, B. S. Payne, and Daniel Buckley	AD A181 912
MP E-87-2	Apr 1987	Supplemental Limnological Studies at Richard B. Russell and Clarks Hill Lakes, 1983-1985, edited by R. H. Kennedy	AD A182 696
MP E-87-3	Jul 1987	Proceedings: CE Workshop on Reservoir Releases	AD A183 860
MP E-89-1	Jul 1989	Formulation of Water Quality Models for Streams, Lakes, and Reservoirs: Modeler's Perspective, by H. G. Stefan, R. B. Ambrose, Jr., and M. S. Dortch	AD A211 198
MP W-90-1	Oct 1990	Water Quality Enhancement Techniques Used Within the Corps of Engineers, by R. E. Price	AD A231 356
MP W-91-1	Jul 1991	Studies on the Absorption/Desorption and Microbial Mobilization of Contaminants from Sediments in Corps of Engineers Reservoir Projects, by Douglas Gunnison, T. C. Sturgis, J. C. Pennington, et al.	AD A239 628
MP W-91-2	Aug 1991	Techniques for Evaluating Aquatic Habitats in Rivers, Streams and Reservoirs; Proceedings of a Workshop, compiled by L. G. Sanders	AD A240 293

**Water Operations Technical Support Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP W-91-3	Nov 1991	The Scope and Nature of Shoreline Erosion Problems at Corps of Engineers Reservoir Projects: A Preliminary Assessment, by H. H. Allen and J. F. Wade	AD A245 255
	Jan 1992	Errata Sheet No.1	
MP W-92-1	Jun 1992	Proceedings, U.S. Army Corps of Engineers Workshop on Sediment Oxygen Demand; Providence, Rhode Island, 21-22 August 1990, by Carl Cerco, Douglas Gunnison and C. B. Price	AD A253 650
MP W-92-2	Sep 1992	Destratification System Design for East Sidney Lake, New York, by E. B. Meyer, R. E. Price, and S. C. Wilhelms	AD A258 683
MP W-92-3	Oct 1992	Water Quality '92, Proceedings of the 9th Seminar, 16-20 March 1992, San Antoino, Texas	AD A259 411

Water Operations Technical Support Program*

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-79-1	Apr 1979	Artificial Destratification of Reservoirs; Hydraulic Laboratory Investigation, by M. S. Dortch	AD A070 465
TR E-79-2	Aug 1979	Flood Tolerance in Plants: A State-of-the-art Review, by T. H. Whitlow and R. W. Harris	AD A075 938
TR E-79-3	Oct 1979	Plant-Mediated Phosphorus Mobilization from Sediments: Potential Influence on Freshwater Phosphorus Cycling, by J. W. Barko, R. M. Smart, M. S. Matthews, and D. G. Hardin	AD A077 623
TR E-80-1	Jan 1980	A Compilation of Common Algal Control and Management Techniques, by J. J. Janik, W. D. Taylor, and J. W. Barko	AD A082 013
TR E-80-2	Jan 1980	Judicial Review Under NEPA--Lessons for Users of Various Approaches to Environmental Impact Assessment, by R. A. Liroff	AD A081 652
TR E-80-3	Apr 1980	Trophic State of Lakes and Reservoirs, by W. D. Taylor, V. W. Lambou, L. R. Williams, and S. C. Hern	AD A084 827
TR E-80-4	Mar 1980	Simulation Modeling of Zooplankton and Benthos in Reservoirs: Documentation and Development of Model Constructs, by G. R. Leidy and G. R. Ploskey	AD A090 832
TR E-80-5	Dec 1980	Tracer Measurement of Reaeration: Application to Hydraulic Models; Hydraulic Model Investigation, by S. C. Wilhelms	AD A096 774
TR E-81-1	Feb 1981	Evaluation of Techniques to Estimate Annual Water Quality Loadings to Reservoirs, by H. E. Westerdahl, W. B. Ford III, Jane Harris, and C. R. Lee	AD A096 773
TR E-81-2	Feb 1981	A Review of Numerical Reservoir Hydrodynamic Modeling, by S. H. Johnson	AD A097 823
TR E-81-3	Mar 1981	Jet Entrainment in Pumped-Storage Reservoirs, by P. J. W. Roberts	AD A098 156
TR E-81-4	Mar 1981	User's Manual for the Evaluation and Sensitivity Analysis Program (ESAP), by Jeryl Mumpower and Lee Bollacker	AD A099 307

* Formerly Environmental and Water Safety Operational Studies.

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-81-5	Mar 1981	Reaeration Through Gated-Conduit Outlet Works, by S. C. Wilhelms and D. R. Smith	AD A099 378
TR E-81-6	Apr 1981	Characterization of Anaerobic Chemical Processes in Reservoirs: Problem Description and Conceptual Model Formulation, by Douglas Gunnison and J. M. Brannon	AD A099 674
TR E-81-7	May 1981	Proceedings of Workshop on Algal Management and Control, 9-12 March 1980, Pacific Grove, Calif.	AD A101 554
TR E-81-8	May 1981	Water Quality, Macroinvertebrates, and Fisheries in Tailwaters and Related Streams; An Annotated Bibliography, by C. H. Walburg, J. F. Novotny, K. E. Jacobs, et al.	AD A101 369
TR E-81-9		Empirical Methods for Predicting Eutrophication in Impoundments:	
	May 1981	Report 1 Phase I: Data Base Development, by W. W. Walker, Jr.	AD A101 553
	Apr 1983	Errata Sheet No.1	
	Mar 1985	Errata Sheet No. 2	
	Sep 1982	Report 2 Phase II: Model Testing, by W. W. Walker, Jr.	AD A134 690
	Mar 1985	Errata Sheet No. 1	
	Mar 1985	Report 3 Phase II: Model Refinements, by W. W. Walker, Jr.	AD A155 483
	Jul 1987	Report 4 Phase III: Applications Manual, by W. W. Walker, Jr.	AD A188 261
TR E-81-10	Jul 1981	Gas Transfer in Hydraulic Jumps, by S. C. Wilhelms, Lancelot Clark, J. R. Wallace, and D. R. Smith	AD A103 132
TR E-81-11	Aug 1981	Factors Affecting Fish Production and Fishing Quality in New Reservoirs, with Guidance on Timber Clearing, Basin Preparation, and Filling, by G. R. Ploskey	AD A103 428
TR E-81-12	Sep 1981	Effects of Reservoir Releases on Tailwater Ecology: A Literature Review, by C. H. Walburg, J. F. Novotny, K. E. Jacobs, et al.	AD A105 058
TR E-81-13		Phytoplankton-Environmental Interactions in Reservoirs:	
	Sep 1981	Volume I Papers Presented at Workshop, 10-12 April 1979, Monterey, California, edited by M. W. Lorenzen	AD A108 019

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-81-13 (Cont.)	Sep 1981	Volume II Discussion of Workshop Papers and Open Literature, by M. W. Lorenzen, D. B. Procella, and T. M. Grieb	AD A108 284
TR E-81-14	Nov 1981	A Study of Cutoff Bendways on the Tombigbee River, by C. H. Pennington, J. A. Baker, F. G. Howell, and C. L. Bond	AD A108 896
TR E-82-1	Feb 1982	Optimal Control of Reservoir Discharge Quality Through Selective Withdrawal; Hydraulic Laboratory Investigation, by D. G. Fontane, J. W. Labadie, and Bruce Loftis	AD A112 007
TR E-82-2	Feb 1982	Reaeration Tests, Enid Lake Outlet Works, by C. H. Tate, Jr.	AD A113 593
TR E-82-3	May 1982	Environmental Aspects of Artificial Aeration and Oxygenation of Reservoirs: A Review of Theory, Techniques, and Experiences, by R. A. Pastorok, M. W. Lorenzen, and T. C. Ginn	AD A117 528
TR E-82-4	Apr 1982	Review of Environmental Consequences of Waterway Design and Construction Practices as of 1979, by E. L. Thackston and R. B. Sneed	AD A118 078
TR E-82-5	May 1982	Fluctuating Water Levels in Reservoirs; An Annotated Bibliography on Environmental Effects and Management for Fisheries, by G. R. Ploskey	AD A117 046
TR E-82-6	May 1982	Aquatic Biota of Bank Stabilization Structures on the Missouri River, North Dakota, by R. M. Burress, D. A. Krieger, and C. H. Pennington	AD A118 483
TR E-82-7	Jul 1982	Environmental Features for Flood-Control Channels, by F. D. Shields, Jr.	AD A120 544
TR E-82-8	Sep 1982	Assessment of Environmental Considerations in the Design and Construction of Waterway Projects, by F. D. Shields, Jr., and M. R. Palermo	AD A121 361
TR E-82-9	Sep 1982	Supersaturation of Nitrogen Gas Caused by Artificial Aeration in Reservoirs, by A. W. Fast and R. G. Hulquist	AD A123 129
TR E-83-1	Jan 1983	Developments in LARM2: A Longitudinal-Vertical, Time-Varying Hydrodynamic Reservoir Model, by J. E. Edinger and E. M. Buchak	AD A124 442
TR E-83-2	Jan 1983	Fishes of Selected Aquatic Habitats on the Lower Mississippi River, by C. H. Pennington, J. A. Baker, and C. L. Bond	AD A125 995

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-83-3	Feb 1983	A Review of the Effects of Water-Level Changes on Reservoir Fisheries and Recommendations for Improved Management, by G. R. Ploskey	AD A125 777
TR E-83-4	Feb 1983	Larval Fish of Selected Aquatic Habitats on the Lower Mississippi River, by J. V. Conner, C. H. Pennington, and T. R. Bosley	AD A126 769
TR E-83-5	Feb 1983	Techniques for Reaeration of Hydropower Releases, by C. E. Bohac, J. W. Boyd, E. D. Harshbarger, and A. R. Lewis	AD A126 771
TR E-83-6	Feb 1983	Effects of Reservoir Releases on Water Quality, Macro-invertebrates, and Fish in Tailwaters: Field Study Results, by C. H. Walburg, J. F. Novotny, K. E. Jacobs, and W. D. Swink	AD A126 770
TR E-83-7	Jul 1983	An Assessment of Reservoir Density Currents and Inflow Processes, by D. E. Ford and M. C. Johnson	AD A137 303
TR E-83-8	Mar 1983	A Boundary-Fitted Coordinate Code for General Two-Dimensional Regions with Obstacles and Boundary Intrusions, by J. F. Thompson	AD A129 482
TR E-83-9	Mar 1983	Water Quality Optimization Through Selective Withdrawal, by A. B. Poore and Bruce Loftis	AD A128 270
TR E-83-10	Apr 1983	Benthic Macroinvertebrates of Selected Aquatic Habitats of the Lower Mississippi River, by D. C. Beckett, C. R. Bingham, L. G. Sanders, et al.	AD A130 380
TR E-83-11	May 1983	Evaluation of Selected One-Dimensional Stream Water Quality Models with Field Data, by S. C. McCutcheon	AD A130 551
TR E-83-12	May 1983	Movement, Transport, and Scour of Particulate Organic Matter and Aquatic Invertebrates Downstream from a Peaking Hydropower Project, by William Matter, Patrick Hudson, John Nestler, and Gary Saul	AD A130 379
TR E-83-13	May 1983	Literature Survey of Reservoir Contaminant Problems, by R. A. Khalid, R. P. Gambrell, B. A. Taylor, and W. H. Patrick, Jr.	AD A130 371
TR E-83-14	Jun 1983	Evaluating Changes in Dike Field Fishes with Community Information Indices, by H. N. Polovino, M. P. Farrell, and C. H. Pennington	AD A132 052
TR E-83-15	Oct 1983	Coefficients for Use in the U. S. Army Corps of Engineers Reservoir Model, CE-QUAL-R1, by C. D. Collins and J. H. Wlosinski	AD A135 773

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-83-16	Oct 1983	Characterization of Aerobic Chemical Processes in Reservoirs: Problem Description and Model Formulation, by R. L. Chen, Douglas Gunnison, and J. M. Brannon	AD A135 812
TR E-84-1	Jan 1984	Riverine Influences on the Water Quality Characteristics, West Point Lake, by R. H. Kennedy, R. C. Gunkel, Jr., and J. V. Carlile	AD 141 328
TR E-84-2	Feb 1984	A Comparative Study of Sediment Quality in Four Reservoirs, by R. C. Gunkel, Jr., R. F. Gaugush, R. H. Kennedy, et al.	AD A140 750
TR E-84-3	Mar 1984	Fish of Two Dike Pools in the Lower Mississippi River, by R. W. Nailon and C. H. Pennington	AD A143 636
TR E-84-4	Sep 1984	Environmental Guidelines for Dike Fields, by C. W. Burch, P. R. Abell, M. A. Stevens, et al.	AD A147 440
	May 1985	Errata Sheet No. 1	
TR E-84-5	Apr 1984	Investigation of Water Quality and Plankton in Selected Aquatic Habitats on the Lower Mississippi River, by B. M. Sabol, L. E. Winfield, and D. G. Toczydlowski	AD A142 794
TR E-84-6	Jun 1984	Measurements of Dissolved Gases at Corps of Engineers Projects, by S. C. Wilhelms	AD A142 727
TR E-84-7	Jun 1984	Parametric Investigation of Localized Mixing in Reservoirs, by J. P. Holland	AD A144 276
TR E-84-8	Jul 1984	Effects of Water Levels and Hydrology on Fisheries in Hydropower Storage, Hydropower Mainstream and Flood Control Reservoirs, by G. R. Ploskey, L. R. Aggus, and J. M. Nestler	AD A146 239
	Mar 1985	Errata Sheet No. 1	
TR E-84-9	Aug 1984	Fish and Invertebrates of Revetments and Other Habitats in the Willamette River, Oregon, by R. C. Hjort, P. L. Hulett, L. D. LaBolle, and H. W. Li	AD A147 441
TR E-84-10	Oct 1984	Investigation and Discussion of Techniques for Hypolimnion Aeration/Oxygenation, by J. P. Holland and C. H. Tate, Jr.	AD A148 701
TR E-84-11	Nov 1984	Environmental Features for Streambank Protection Projects, by J. E. Henderson and F. D. Shields, Jr.	AD A150 660
TR E-85-1	Jan 1985	Reaeration at Navigation Locks, by S. C. Wilhelms	AD A153 813

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-85-2		Limnological Studies at Eau Galle Lake, Wisconsin:	
	Mar 1985	Report 1 Introduction and Water Quality Monitoring Studies, edited by R. H. Kennedy	AD A157 073
		Report 2 Special Studies and Summary, edited by R. H. Kennedy and R. C. Gunkel, Jr.	
TR E-85-3	May 1985	Incorporation of Environmental Features in Flood Control Channel Projects, by N. R. Nunnally and F. D. Shields	AD A157 815
TR E-85-5	Jun 1985	Effects of Reservoir Water Levels on Year-Class Development and the Abundance of Harvestable Fish, by G. R. Ploskey, L. R. Aggus, and J. M. Nestler	AD A158 040
TR E-85-6	Jul 1985	Biota of Selected Aquatic Habitats of the McClellan-Kerr Arkansas River Navigation System, by L. G. Sanders, J. A. Baker, C. L. Bond, and C. H. Pennington	AD A161 036
TR E-85-7	Aug 1985	Environmental Features for Streamside Levee Projects, by J. R. Hynson, P. R. Adamus, J. O. Elmer, et al.	AD A161 020
TR E-85-8	Aug 1985	WESSEL: Code for Numerical Simulation of Two-Dimensional Time-Dependent Width-Averaged Flows with Arbitrary Boundaries, by J. F. Thompson and R. S. Bernard	AD A160 990
TR E-85-9	Aug 1985	Numerical Modeling of Two-Dimensional Width-Averaged Flows Using Boundary-Fitted Coordinate Systems, by J. F. Thompson and R. S. Bernard	AD A160 991
TR E-85-10	Aug 1985	Hydroacoustic Fishery Assessment Techniques: A Feasibility Study on the Mississippi River, by Paul Kanciruk and C. H. Pennington	AD A161 001
TR E-85-11	Oct 1985	Confirmation of the Water Quality Model CE-QUAL-R1 Using Data from Eau Galle Reservoir, Wisconsin, by J. H. Wlosinski and C. D. Collins	AD A164 226
TR E-85-12	Oct 1985	Entrainment Descriptions for Mathematical Modeling of Pumped-Storage Inflows in Reservoirs, by P. J. W. Roberts and M. S. Dortch	AD A164 397
TR E-85-13	Nov 1985	Analysis and Revision of a Reservoir Water Quality Model, by J. H. Wlosinski and C. D. Collins	AD A166 018
TR E-85-14	Dec 1985	Physical Modeling of Reservoir Hydrodynamics, by M. S. Dortch, S. C. Wilhelms, and J. P. Holland	AD A165 968

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-85-15	Dec 1985	Fish Recruitment and Movement in a Flood Control Reservoir and Tailwater, by K. E. Jacobs, W. D. Swink, J. M. Nestler, and L. T. Curtis	AD A166 048
TR E-86-1	Jan 1986	Shoreline Revegetation Studies at Lake Texoma on the Red River, Texas-Oklahoma, by J. E. Lester, C. V. Klimas, H. H. Allen, and S. G. Shetron	AD A166 314
TR E-86-2	Jan 1986	Approaches to Revegetate Shorelines at Lake Wallula on the Columbia River, Washington-Oregon, by R. D. Comes and Timothy McCreary	AD A166 943
TR E-86-3	Mar 1986	Lakeshore Revegetation Studies at Lake Oahe, South Dakota, by G. R. Hoffman, S. G. Shetron, C. V. Klimas, and H. H. Allen	AD A168 142
TR E-86-4	Mar 1986	Reservoir Site Preparation: Summary Report, by Douglas Gunnison, J. M. Brannon, and R. L. Chen	AD A168 001
TR E-86-5	Jun 1986	Environmental Effects of Dikes and Revetments on Large Riverine Systems, by M. B. Sandheinrich and G. J. Atchison	AD A171 000
TR E-86-6	Jul 1986	Aquatic Biota Associated with Channel Stabilization Structures and Abandoned Channels in the Middle Missouri River, by G. J. Atchison, R. W. Bachmann, J. G. Nickum, et al.	AD A171 653
TR E-86-7	Jul 1986	An Assessment of Reservoir Mixing Processes, by D. E. Ford and L. S. Johnson	AD A171 650
TR E-86-8	Jul 1986	Size Distribution of Planktonic Autotrophy and Microheterotrophy in DeGray and West Point Reservoirs: A Comparative Study, by B. L. Kimmel and A. W. Groeger	AD A171 651
TR E-86-9	Jul 1986	Evaluation of Larval Fish Sampling Gears for Use on Large Rivers, by T. R. Bosley, C. H. Pennington, M. E. Potter, and S. S. Knight	AD A171 652
TR E-86-10	Aug 1986	Effects of Flow Alterations on Trout, Angling, and Recreation in the Chattahoochee River Between Buford Dam and Peachtree Creek, by J. M. Nestler, Janet Fritschen, R. T. Milhous, and Jay Troxel	AD A172 725
TR E-86-11	Sep 1986	Mixing in Rivers, by E. R. Holley and G. H. Jirka	AD A174 931
TR E-86-12	Sep 1986	Water Quality, Macroinvertebrates, Larval Fishes, and Fishes of the Lower Mississippi River--A Synthesis, by D. C. Beckett and C. H. Pennington	AD A175 419

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR E-86-13	Nov 1986	Reservoir Shoreline Revegetation Guidelines, by H. H. Allen and C. V. Klimas	AD A175 368
TR E-86-14	Nov 1986	Spatial and Temporal Distribution of Sulfide and Reduced Metals in the Tailwater of Narrows Dam (Lake Greeson), Arkansas, by Joe Nix	AD A177 102
TR E-87-1	Mar 1987	Application of a Two-Dimensional Model of Hydrodynamics and Water Quality (CE-QUAL-W2) to DeGray Lake, Arkansas, by J. L. Martin	AD A182 202
TR E-87-2	Mar 1987	Improved Description of Selective Withdrawal Through Point Sinks, by D. R. Smith, S. C. Wilhelms, J. P. Holland, et al.	AD A812 515
TR E-87-3	Mar 1987	Improvement of Hydropower Release Dissolved Oxygen with Turbine Venting, by S. C. Wilhelms, M. L. Schneider, and S. E. Howington	AD A181 372
TR E-87-4	Mar 1987	Proceedings of the DeGray Lake Symposium, edited by R. H. Kennedy and Joe Nix	AD A183 751
TR E-87-5	Mar 1987	Vertical, Horizontal, and Diel Distribution of Invertebrate Drift in the Lower Mississippi River, by D. C. Beckett and R. L. Kasul	AD A181 439
TR E-87-6	May 1987	Hydrodynamics and Modeling of Reregulation Pools, by R. C. Berger, Jr.	
TR E-89-1		Water Quality Management for Reservoirs and Tailwaters:	
	Jan 1989	Report 1 In-Reservoir Water Quality Management Techniques, by G. D. Cooke and R. H. Kennedy	AD A208 942
	Jul 1992	Report 2 Operational and Structural Water Quality Enhancement Techniques, by R. E. Price and E. B. Meyer	AD A254 184
TR E-89-2	Jul 1989	Sediment-Water Interactions and Contaminants in Corps of Engineers Reservoir Projects, by Douglas Gunnison, J. M. Brannon, A. L. Mills, and L. K. Blum	AD A211 153
TR E-90-1	Sep 1990	Effects of Alum Treatment on Phosphorus Dynamics and Phytoplankton Response in Eau Galle Reservoir, Wisconsin, by J. W. Barko, W. F. James, W. D. Taylor, and D. G. McFarland	AD A229 509
TR W-90-1	Nov 1990	Simultaneous, Multiple-Level Withdrawal from a Density Stratified Reservoir, by S. E. Howington	AD A231 837

**Water Operations Technical Support Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR W-91-1	Jul 1991	Proceedings of the Seventh Corps Chemist Meeting, 22-24 May 1990, compiled by A. B. Strong	AD A240 297
TR W-91-2	Jan 1991	Water Quality of Selected Tailwaters, by Joe Nix, D. E. Hamlin-Tillman, S. L. Ashby, and M. S. Dortch	AD A232 729
TR W-92-1	May 1992	Modeling Water Quality of Reservoir Tailwaters, by M. S. Dortch, D. H. Tillman, and B. W. Bunch	AD A252 061
TR W-92-2	Jul 1992	Sediment-Overlying Water Relationships Affecting Wintertime Dissolved Oxygen Conditions in the Big Eau Pleine Reservoir, Wisconsin, by W. F. James, H. L. Eakin, Douglas Gunnison, and J. W. Barko	AD A254 015
TR W-92-3	Nov 1992	Determination of Chlorinated Phenoxyacid Herbicides in Water and Sediment by Solid Phase Extraction and High-Performance Liquid Chromatography, by K. F. Myers	AD A260 201
TR W-93-1	Apr 1993	Description of Contaminant Sediment-Water Interactions Using RECOVERY, by T. C. Sturgis, Carlos Ruiz, Douglas Gunnison, and J. C. Pennington	AD A266 385

Recreation Research Program Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
R-79-1	Jul 1979	Recnotes	
R-80-1	Mar 1980	Recnotes	
R-80-2	Jun 1980	Recnotes	
R-81-1	Oct 1981	Recnotes	
R-82-1	Mar 1982	Recnotes	
R-82-2	Sep 1982	Recnotes	
R-83-1 thru R-83-3	May 1983 thru Sep 1983	Recnotes	
R-84-1 thru R-84-5	Jan 1984 thru Oct 1984	Recnotes	
R-85-1 thru R-85-3	May 1985 thru Oct 1985	Recnotes	
R-86-1 thru R-86-4	Jan 1986 thru Dec 1986	Recnotes	
R-87-1 thru R-87-3	Mar 1987 thru Nov 1987	Recnotes	
R-88-1 thru R-88-3	Jan 1988 thru Dec 1989	Recnotes	
R-89-1 thru R-89-2	Feb 1989 thru May 1989	Recnotes	
R-90-1 thru R-90-3	Mar 1990 thru Nov 1990	Recnotes	
R-91-1 thru R-91-3	Mar 1991 thru Oct 1991	Recnotes	

**Recreation Research Program
Information Exchange Bulletins**

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
R-92-1 thru R-92-3	Feb 1992 thru Aug 1992	Recnotes	
R-93-1	Mar 1993	Recnotes	

Recreation Research Program Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR R-80-1	Jul 1980	Recreation Carrying Capacity Handbook Methods and Techniques for Planning, Design, and Management	AD A096 446
IR R-81-1	Aug 1981	A Guide to Cultural and Environmental Interpretation in the U. S. Army Corps of Engineers, by D. B. Propst and J. W. Roggenbuck	AD A104 250
IR R-83-1	Mar 1983	Computing Cost-Effectiveness of Alternative Sanitary Facilities, by M. R. Waring, R. W. Hodgson, T. M. Walski, and A. K. Lindsey	AD A130 979
IR R-84-1	May 1984	Supplements to a Guide to Cultural and Environmental Interpretation in the U. S. Army Corps of Engineers	AD A147 037
IR R-86-1	Apr 1986	An Example of a Mailed Contingent Valuation Survey Method in a Marina Feasibility Study, by R. W. Hodgson	AD A169 498
IR R-86-2	Dec 1986	Field Guide for Low-Maintenance Vegetation Establishment and Management	AD A176 309
IR R-87-1	Mar 1987	Guidelines for Determining Key Indicators of Recreation Use, by M. R. Waring	AD A181 326
IR R-92-1	Jul 1992	Economic Impact Analysis as a Tool in Recreation Program Evaluation, by R. S. Jackson, D. S. Stynes, D. B. Propst, and L. E. Siverts	

Recreation Research Program Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP R-80-1		Recreation Carrying Capacity Facts and Considerations:	
	Jul 1980	Report 1 Barkley Lock and Dam, Lake Barkley Project Area	AD A089 460
	Jul 1980	Report 2 Benbrook Lake Project Area	AD A089 572
	Jul 1980	Report 3 Hartwell Lake Project Area	AD A089 630
	Jul 1980	Report 4 Lake Ouachita Project Area	AD A090 599
	Jul 1980	Report 5 Lake Shelbyville Project Area	AD A090 600
	Jul 1980	Report 6 McNary Lock and Dam, Lake Wallula Project Area	AD A089 876
	Jul 1980	Report 7 Milford Lake Project Area	AD A090 601
	Jul 1980	Report 8 New Hogan Lake Project Area	AD A089 883
	Jul 1980	Report 9 Shenango River Lake Project Area	AD A089 849
	Jul 1980	Report 10 Somerville Lake Project Area	AD A090 534
	Jul 1980	Report 11 Surry Mountain Lake Project Area	AD A090 602
MP R-80-2	Sep 1980	Development of a Methodology for Preparing Performance Standards for Operation and Maintenance Activities at Corps of Engineers Recreation Areas, by W. H. Bumgardner	AD A091 560
MP R-81-1	Mar 1981	A Methodology for the Systematic Collection, Storage, and Retrieval of Trend Data for the U. S. Army Engineers Recreation Program, by D. B. Propst and R. V. Abbey	AD A098 274
MP R-81-2	Aug 1981	Impact of the Energy Crisis on Corps of Engineers Recreation Program, by D. B. Propst	AD A104 799
MP R-82-1	Feb 1982	Innovative Roadway Design for Recreation Areas, by J. W. Epps, M. W. Corey, and M. J. Cullinane	AD A113 248
MP R-82-2	Apr 1982	Development and Evaluation of the Campground Receipt Study, by G. L. Curtis, R. S. Jackson, W. J. Hansen, and J. A. Rorabacher	AD A114 128

**Recreation Research Program
Miscellaneous Papers**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP R-82-3	Oct 1982	Summary of the 1981 Campground Receipt Study, by G. L. Curtis and W. J. Hansen	AD A122 095
MP R-83-1	Aug 1983	Perceptions of the Corps of Engineers' Recreation Concession Program, by W. H. Bumgardner	AD A132 824
MP R-83-2	Dec 1983	Summary of the 1982 Campground Receipt Study, by G. L. Curtis	AD A140 532
MP R-85-1	Feb 1985	Key Indicators of Recreation Use for 1983; Preliminary Findings, by M. R. Waring, D. J. Snepenger, J. E. Fletcher, and Dennis Burns	AD A153 874
MP R-85-2	Mar 1985	Summary of the 1983 Campground Receipt Study, by J. A. Fritschen	AD A156 395
MP R-86-1	Aug 1986	Summary of the 1984 Campground Receipt Study, by L. R. Lawrence and J. A. Fritschen	AD A174 447
MP R-87-1	Mar 1987	Catalog of Computer Programs for Project Management, by J. A. Fritschen and L. R. Lawrence	AD A181 138
MP R-88-1	Apr 1988	Use of IMPLAN with Public Area Recreation Visitor Survey (PARVS) Pretest Data: Findings and Recommendations, by D. B. Propst	AD A196 058
MP R-89-1	Sep 1989	Proceedings, 14th Annual Meeting, Natural Resources Research Program, 19-20 April 1989 Omaha, Nebraska	AD A214 437
MP R-89-2	Oct 1989	Operational Management Plans: Status, Content, and Implementation, by L. D. Peyman-Dove, M. R. Waring, and J. P. Titre	AD A213 976
MP R-90-1	Mar 1990	Development of an Economic Impact Performance Indicator for the Corps of Engineers Recreation Program; Phase II, Fiscal Years 1987 and 1988 Economic Impact Performance Indicators, by R. S. Jackson and W. A. Rogers	AD A220 304
MP R-90-2	Oct 1990	Proceedings, 15th Annual Meeting, Natural Resources Research Program, 18-19 April 1990, Atlanta, Georgia	AD A229 796
MP R-91-1	Jan 1991	Annotated Bibliography for Regional Recreation Demand Models, by J. R. Stoll, L. S. Freeman, J. C. Bergstrom, and J. E. Henderson	AD A232 582
MP R-91-2	Mar 1991	Summary of the 1986-87 Campground Receipt Study, by T. A. DeMoss and J. P. Titre, Jr.	AD A235 555
MP R-91-3	May 1991	Summary of the 1988 Campground Receipt Study, by T. A. DeMoss	AD A241 338

Recreation Research Program
Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP R-92-1	Jan 1992	Report on Lyme Disease Prepared for U.S. Army Corps of Engineers Field Personnel, by W. A. Johnson	AD A247 673
MP R-92-2	Feb 1992	Proceedings, 16th Annual Meeting, Natural Resources Research Program, 16-17 April 1991, Nashville, Tennessee	AD A248 019
MP R-92-3	Aug 1992	Bibliography--Fees For Outdoor Recreation, by C. M. White	AD A255 072
MP R-92-4	Nov 1992	Proceedings, 17th Annual Meeting, Natural Resources Research Program, 29-30 April 1992, St. Paul, Minnesota	AD A259 113
MP R-92-5	Dec 1992	Recreational Use of Chickamauga Lock, Tennessee, and Recreational Boaters' Perceptions of Lock Use Conflicts, by M. E. Patterson, W. E. Hammitt, and J. P. Titre, Jr.	AD A262 810

Recreation Research Program Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR R-79-1	May 1979	A Handbook for Conducting Recreation Surveys and Calculating Attendance at Corps of Engineers Projects, by R. M. Mischon and R. C. Wyatt	AD A068 677
TR R-80-1	Sep 1980	Recreation Carrying Capacity Design and Management Study	AD A090 704
TR R-81-1	Mar 1981	Recreation Research and Demonstration System: Its Selection, Operation, and Potential Utility, by W. J. Hart	AD A099 751
TR R-82-1	Oct 1982	Summary Report: Visitor Safety and Security at Corps of Engineers Projects, by R. S. Jackson	AD A122 005
TR R-83-1	Mar 1983	Alternative Approaches to Operating and Maintaining Recreation Areas, by W. H. Bumgardner	AD A125 745
TR R-87-1	Jul 1987	Summary of the 1985 Campground Receipt Study, by Larry Lawrence	AD A183 214
TR R-90-1	Mar 1990	Plant Growth Regulator Evaluation for Five Corps of Engineers Projects and One Military Installation, by H. E. Westerdahl, L. S. Nelson, K. D. Getsinger, and K. T. Luu	AD A219 762
TR R-92-1	Aug 1992	A Summary of Spending Profiles for Recreation Visitors to Corps of Engineers Projects, by D. B. Propst, D. J. Stynes, and R. S. Jackson	AD A256 122
TR R-92-2	Jul 1992	Summary of the 1989 Campground Receipt Study, by T. A. DeMoss	AD A254 621
TR R-92-3	Jul 1992	Summary Of The 1990 Campground Receipt Study, by T. A. DeMoss and T. C. Trichell	AD A254 244
TR R-92-4	Aug 1992	Development of Spending Profiles for Recreation Visitors to Corps of Engineers Projects, by D. B. Propst, D. J. Stynes, J. H. Lee, and R. Scott Jackson	AD A255 206

**Environmental Protection Agency/Corps of Engineers
Technical Committee on Criteria for Dredged and Fill Material
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR EPA/CE-81-1	May 1981	Procedures for Handling and Chemical Analysis of Sediment and Water Samples, by R. H. Plumb, Jr.	AD A103 788
TR EPA-503/8-91/001	Feb 1991	Evaluation of Dredged Material Proposed for Ocean Disposal; Testing Manual (Greenbook)	AD A269 382
	Feb 1991	Diskette	AD M000 271
TR EPA-842-B-92-008	Nov 1992	Evaluating Environmental Effects of Dredged Material Management Alternatives-A Technical Framework	AD A260 528

Wetlands Research Program Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR WRP-91-1	Feb 1991	Characterization of Soil Processes in Bottomland Hard-wood Wetland-Nonwetland Transition Zones in the Lower Mississippi River Valley, by S. P. Faulkner, W. H. Patrick, Jr., R. P. Gambrell, et. al.	AD A237 766

Wetlands Research Program Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
1, No. 1 thru 1, no. 3	Jun 1991 thru Dec 1991	Wetlands Research Bulletin	
2, No. 1 thru 2, No. 4	Apr 1992 thru Dec 1992	Bulletin Bulletin	
3, No. 1 thru 3, No. 2	Mar 1993 thru Jun 1993	Bulletin Bulletin	

Wetlands Research Program

Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Delineation and Evaluation of Wetlands			
FW-EV-2.1	May 1992	Wildlife Habitat Function of Bottomland Hardwood Wetlands, Cache River, Arkansas	
FW-EV-2.2	Jan 1992	A Guild for Monitoring and Evaluating Fish Communities in Bottomland Hardwood Wetlands	
Hydrology			
HY-DE-2.1	Jan 1993	Synthesis of Literature on the Use of Water-Stained Leaves in the Delineation of Wetlands	
HY-DE-6.1	Jan 1993	Literature Review on the Use of Water-Stained Leaves in the Delineation of Wetlands	
HY-EV.2.1	Jan 1993	Wetland Surface Water Processes	
HY-EV-2.2	Jan 1993	Wetland Groundwater Processes	
Sedimentation			
SD-CP-4.1	Jan 1993	Methods for Measuring Sedimentation Rates in Bottomland Hardwood (BLH) Wetlands	
Soils/Geology			
SD-RS-3.1	Jan 1993	Soils Handling Techniques and Equipment for Wetlands Restoration and Establishment	
Vegetation			
VN-CP-4.1	May 1992	Measuring Periphyton Growth in a Bottomland Hardwood (BLH) Wetland	
VN-EM-2.1	Jan 1993	Selection and Acquisition of Wetland Plant Species for Wetland Management Projects	
VN-EM-3.1	May 1992	Design and Construction Requirements for Establishing Herbaceous Wetland Vegetation	

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Water Quality	
WQ-EV-2.1	Jan 1993	Screening-Level Assessment of Water Quality Improvement from Wetlands	
		Wetlands-General	
WG-EV-6.1	Jan 1993	Wetland Mitigation Evaluation: A Bibliography	
WG-RS-3.1	May 1992	Wetlands Engineering: Design Sequence for Wetlands Restoration and Establishment	
WG-SW-3.1	May 1992	Bioengineering Technique Used for Reservoir Shoreline Erosion Control in Germany	

Wetlands Research Program

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR Y-82-1	Aug 1982	Use of Vegetation in Delineating Wetland Borders in Upper Missouri River Basin; North-Central United States, by W. C. Johnson, R. A. Mayes, and T. L. Sharik	AD A120 798
TR Y-82-2	Aug 1982	A Literature Survey on the Wetland Vegetation of Alaska, by A. R. Batten and D. F. Murray	AD A120 573
TR Y-83-1	Oct 1983	Evaluation of Methods for Sampling Vegetation and Delineating Wetlands Transition Zones in Southern Louisiana, January 1979-May 1981, by S. W. Fletcher	AD A138 643
TR Y-83-2	Aug 1985	Wetlands Functions and Values Study Plan, by E. J. Clairain, Jr., D. R. Sanders, Sr., H. K. Smith, and C. V. Klimas	AD 159 630
	Mar 1984	Appendix A Analysis of Methodologies for Assessing Wetlands Values, by R. I. Lonard, E. J. Clairain, Jr., R. T. Huffman, et al.	AD A142 120
	Dec 1983	Appendix B Survey of U. S. Army Corps of Engineers Wetlands Values Information Needs, by S. W. Forsythe, E. J. Clairain, Jr., and H. K. Smith	AD A139 002
TR Y-84-1	Apr 1984	Delineation of Wetland Boundaries Using Vegetation Within the Altamaha River Basin of Georgia, by B. F. Vaughan, Jr., R. J. Cooper, J. H. Braswell, and Robin Hart	AD A142 590
TR Y-84-2	Apr 1984	Evaluation of Methods for Sampling Vegetation and Delineating Wetlands Transition Zones in Coastal West-Central Florida, January 1979-May 1981, by Robin Hart	AD A144 677
TR Y-86-1	Feb 1986	A Concept and Procedure for Developing and Utilizing Vegetation Flood Tolerance Indices in Wetland Delineation, by R. F. Theriot and D. R. Sanders, Sr.	AD A166 359
TR Y-86-2	Oct 1986	Wetlands and Water Quality: A Regional Review of Recent Research in the United States on the Role of Freshwater and Saltwater Wetlands as Sources, Sinks, and Transformers of Nitrogen, Phosphorus, and Various Heavy Metals, by S. W. Nixon and Virginia Lee	AD A176 942

**Wetlands Research Program
Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR Y-87-1	Jan 1987	Corps of Engineers Wetlands Delineation Manual	AD A176 912
		Appendix C:	
		Section 1:	
	Jan 1987	Region A - Alaska	AD A177 957
	Jan 1987	Region O - California	AD A177 958
		Sections 1 and 2:	
	Jan 1987	Region 1 - Northeast	AD A176 912
	Jan 1987	Region 2 - Southeast	AD A177 959
	Jan 1987	Region 3 - North Central	AD A177 960
	Jan 1987	Region 4 - North Plains	AD A177 961
	Jan 1987	Region 5 - Central Plains	AD A177 962
	Jan 1987	Region 6 - Southern Plains	AD A177 963
	Jan 1987	Region 7 - Southwest	AD A177 964
	Jan 1987	Region 8 - Intermountain	AD A177 965
	Jan 1987	Region 9 - Northwest	
Unnumbered		Wetland Evaluation Technique (WET):	
	Oct 1987	Volume II Methodology, by P. R. Adamus, ARA, Inc., E. J. Clairain, Jr., et al.	AD A189 968
TR WRP-DE-2	Oct 1991	Wetlands Evaluation Techniques (WET):	
		Volume I: Literature Review and Evaluation Rationale, by P. R. Adamus, L. T. Stockwell, E. J. Clairain, Jr., et al.	AD A259 108
TR WRP-RE-1	Sep 1991	Proceedings of the U.S. Army Corps of Engineers Workshop, Aurora, Colorado, 13-15 September 1989, by M. C. Landin, E. J. Clairain, Jr., R. F. Theriot, et al.	AD A242 655
TR WRP-RE-2	Sep 1991	Habitat Value of Man-Made Coastal Marshes in Florida, by T. H. Roberts	AD A242 800
TR WRP-RE-3	Jun 1992	Design of Habitat Restoration Using Dredged Material at Bodkin Island, Chesapeake Bay, Maryland, by S. T. Maynard, M. C. Landin, J. W. McCormick, et al.	
TR WRP-SM-1	Nov 1992	Directory of Wetland Plant Vendors	AD A268 951
TR WRP-SM-2	Jan 1993	Bibliography of Remote Sensing Techniques Used in Wetland Research, by J. L. Lampman	AD A269 109

Wetlands Research Program Unnumbered

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Oct 1991	Development of the U.S. Army Corps of Engineers Wetlands Research Program, Oct 1990, by M. C. Landin	
Unnumbered	Jul 1992	National Summary of Ongoing Wetlands Research by Federal Agencies (1992)	

Environmental Impact Research Program Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
1, No. 1 thru 1, No. 3	Jun 1983 thru Dec 1983	Wildlife Resource Notes	
2, No. 1 thru 2, No. 4	Mar 1984 thru Dec 1984	Wildlife Resource Notes	-
3, No. 1	Mar 1985	Wildlife Resource Notes	
7, No. 1 thru 7, No. 3	Jun 1989 thru Dec 1989	Wildlife Resource Notes	
8, No. 1	Mar 1990	Wildlife Resource Notes	
9, No. 1	Nov 1991	Wildlife Resource Notes	

Environmental Impact Research Program Unnumbered

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Jun 1988	The Archeological Sites Protection and Preservation Notebook, by J. J. Hester	
	Jan 1989	Supplement 1	
	Sep 1989	Supplement 2	
	Jun 1990	Supplement 3	
	May 1992	Supplement 4	
	Sep 1992	Supplement 5	

Zebra Mussel Research Program

Technical Notes

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Environmental Testing			
ZMR-1-01	Jul 1992	The Zebra Mussel: Biology, Ecology, and Recommended Control Strategies	
ZMR-1-02	Jul 1992	Larval Monitoring in a Chlorine Treatment Program to Prevent Zebra Mussel Settlement in Hydropower Facilities	
ZMR-1-03	Jul 1992	Louisville District Initiates a Zebra Mussel Monitoring Program	
ZMR-1-04	Jul 1992	Hand-Held Sampler for Zebra Mussel Collection	
ZMR-1-05	Jul 1992	Developing a Protocol to Ensure Environmental Compliance in a Zebra Mussel Control Program	
ZMR-1-06	Jul 1992	Mussel Filtration Rates Using Natural Versus Artificial Particles in Suspension	
ZMR-1-07	Nov 1992	Inadvertent Transport of Live Zebra Mussels on Barges--Experiences in the St. Louis District, Spring 1992	
ZMR-1-08	Nov 1992	Environmental Effects of Zebra Mussels: Riverine Studies Initiated in 1991 and 1992	
ZMR-1-09	Jun 1993	Transport of Live Zebra Mussels by Barge--Experiences in the Louisville District, 1992	
Control Methods			
ZMR-2-01	Jul 1992	Thermal Sprayed Coatings	
ZMR-2-02	Jul 1992	Copper-Base Marine Antifoulants	
ZMR-2-03	Jul 1992	Zinc-Rich Paints	
ZMR-2-04	Jul 1992	High-Pressure Water Jetting and Carbon Dioxide Pellet Blasting	
ZMR-2-05	Jul 1992	Construction Materials That Act as Deterrents to Zebra Mussel Attachment	
ZMR-2-06	Jul 1992	Vendors That Provide Services and Equipment for Zebra Mussel Control	

**Zebra Mussel Research Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ZMR-2-07	Jul 1992	Accelerated Corrosion of Ferrous Metals Resulting from Zebra Mussel Infestations	
ZMR-2-08	Jul 1992	Nontoxic Foul-Release Coatings for Zebra Mussel Control	
ZMR-2-09	Jul 1992	Freeze Survival of Aerially Exposed Zebra Mussels	
ZMR-2-10	Jul 1992	Aerial Exposure and Mortality of Zebra Mussels	
ZMR-2-11	Jul 1992	Upper Temperature Limits of Zebra Mussels as Indicated by Respiration Rates	
ZMR-2-12	Nov 1992	Use of a Copper-Containing Epoxy Material to Protect a Bay Class Tug from Zebra Mussel Infestations	
ZMR-2-13	Nov 1992	Use of Decreased Air Pressure under Laboratory Conditions to Increase Zebra Mussel Mortality	
Control Strategies			
ZMR-3-01	Jul 1992	Controlling Zebra Mussel Infestations on Flap Gates Associated with Drainage Structures	
ZMR-3-02	Jul 1992	Controlling Zebra Mussel Infestations in Fire Prevention Systems in Locks that Use Raw Water	
ZMR-3-03	Jul 1992	Control of Zebra Mussel Infestations on Floating Plant of the U.S. Army Engineer District, Buffalo	
ZMR-3-04	Jul 1992	Strategies for Zebra Mussel Infestations on Waterway Gauging Stations	
ZMR-3-05	Jul 1992	Components of Hydropower Projects Sensitive to Zebra Mussel Infestations	
ZMR-3-06	Jul 1992	Environmentally Sound Zebra Mussel Control Strategies at Drainage Structures, Pumping Stations, and Water Intakes	
ZMR-3-07	Jul 1992	Components of Vessels and Dredges Susceptible to Zebra Mussel Infestations	
ZMR-3-08	Nov 1992	Components of Navigation Locks and Dams Sensitive to Zebra Mussel Infestations	
ZMR-3-09	Jun 1993	Control of Zebra Mussels in Service Water	
ZMR-3-10	Jun 1993	Use of Reduced Pressure to Accelerate Death of Zebra Mussels	

**Zebra Mussel Research Program
Technical Notes**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Miscellaneous	
ZMR-4-01	Jul 1992	Susceptibility of Different Ages of Concrete to Zebra Mussel Infestation	
ZMR-4-02	Jun 1993	A Method for Calculating the Total Mass of Zebra Mussels	
ZMR-4-03	Jun 1993	Susceptibility of Navigation Locks to Zebra Mussels Infestations	
ZMR-4-04	Jun 1993	A Preliminary Examination of Odor Problems Caused by Decaying Zebra Mussels	
ZMR-4-05	Jun 1993	Strategies Employed by the Power Industry to Reduce or Eliminate Problems Caused by Zebra Mussels	

Geotechnical Laboratory

Geotechnical Laboratory

Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR GL-87-1	Sep 1987	Statistical Analysis of Geotechnical Data, by Gregory Baecher	AD A186 797
CR GL-87-2	Sep 1987	Statistical Quality Control of Engineered Embankments, by Gregory Baecher	AD A186 796
CR GL-87-3	Sep 1987	Error Analysis for Geotechnical Engineering, by Gregory Baecher	AD A186 795
CR GL-87-4	Sep 1987	Uncertainty Analysis for Dam Projects, by Gregory Baecher	AD A187 515
CR GL-87-5	Sep 1987	A Study of Lateral Pressures on Basement Walls Due to Swelling Soils, by W. K. Wray	AD A186 423
CR GL-88-1	Nov 1988	True Triaxial and Directional Shear Cell Experiments on Dry Sand, by S. Sture, M. M. Alawi, and H. -Y. Ko	AD A201 282
CR GL-89-1	Feb 1989	Rock Quality Designation (RQD) After Twenty Years, by D. U. Deere and D. W. Deere	AD A207 597
CR GL-89-2		Re-Evaluation of the Lower San Fernando Dam: Report 1 An Investigation of the February 9, 1971 Slide:	
	Sep 1989	Volume I Text, by Gonzalo Castro, T. O. Keller, and S. S. Boynton	AD A214 589
	Sep 1989	Volume II Appendixes A-F, by Gonzalo Castro, T. O. Keller, and S. S. Boynton	AD A214 794
	Sep 1989	Report 2 Examination of the Post-Earthquake Slide of February 9, 1971, by H. B. Seed, R. B. Seed, L. F. Harder, and H. -L. Jong	AD A214 427
	Sep 1989	Report 3 The Behavior of Undrained Contractive Sand and its Effect on Seismic Liquefaction Flow Failures on Earth Structures, by Andres Vasquez-Herrera and Ricardo Dobry	AD A215 417
CR GL-90-1*	Sep 1990	Electromagnetic, Frequency Domain Modeling of Tunnel Signatures, by R. J. Greenfield	AD B148 809

* Statement B. See Preface.

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR GL-83-1	Apr 1983	Geotechnical Construction Control Data Base System: User's Manual, by E. V. Edris, Jr., D. P. Hammer, and Wipawi Vanadit-Ellis	AD A130 606
IR GL-84-1	Sep 1984	Boring Information and Subsurface Data Base Package: User's Guide, by W. E. Strohm, Jr., and J. B. Palmerton	AD A148 623
	Nov 1984	Errata Sheet No. 1	
IR GL-85-1	Sep 1985	Microcomputer Boring and Subsurface Data Package: User's Guide, by W. E. Strohm, Jr.	AD A162 469
IR GL-85-2	Oct 1985	Piezometer Data Base Package User's Guide, by E. V. Edris, Jr., and Wipawi Vanadit-Ellis	AD A163 264
IR GL-87-1		User's Guide: UTEXAS2 Slope-Stability Package:	
	Aug 1987	Volume I User's Manual, by E. V. Edris, Jr., and S. G. Wright	AD A187 674
	Feb 1989	Volume II Theory, by CAGE, G-CASE Task Group on Slope Stability	AD A207 044
	Dec 1992	Volume III Example Problems, by E. V. Edris, Jr., D. F. Munger, and R. A. Brown	AD A263 742
	Dec 1992	Diskette	AD M000 217
	Nov 1992	Volume IV User's Manual, by E. V. Edris, Jr. and S. G. Wright	
IR GL-90-1*	Feb 1990	Installation of Air Transportable Airfield Damage Repair Kit, by H. L. Green and T. P. Williams	AD B141 418
IR GL-90-2	Sep 1990	Seismic Refraction Data Processing Software: SEISMO Version 2.7, by D. E. Yule and M. K. Sharp	AD A228 330
IR GL-91-1	May 1991	User's Manual for Computer-Controlled Microwave Oven System (CCMOS) for Drying Soil, by P. A. Gilbert	AD A237 638
IR GL-91-2	Aug 1991	Microcomputer Geotechnical Quality Assurance of Compacted Earth Fill Data Package: User's Guide, by E. B. Edris, Jr., W. E. Strohm, Jr., and K. G. Woo	AD A241 212

* Statement B. See Preface.

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR GL-92-1	Apr 1992	Compaction Control of Earth-Rock Mixtures: How to Develop and Use Density Interference Coefficients and Optimum Water Content Factors, by V. H. Torrey III	AD A251 070
IR GL-92-2	May 1992	User's Guide for the Boring Log Design File Builder, Version 2.01, by Keith Nash	AD A268 878
IR GL-92-3	May 1992	Description and Application of Dual Mass Dynamic Cone Penetrometer, by S. L. Webster, R. H. Grau, and T. P. Williams	AD A251 960
IR GL-92-4		USACE Geotechnical Earthquake Engineering Software:	
	Sep 1992	Report 1 WESHAKI for Personal Computers (Version 1.0), by D. W. Sykora and R. E. Wahl	AD A257 068
	Sep 1992	Diskette	AD M000 181
IR GL-93-1	May 1993	Technical Urban Search and Rescue, System to Locate Survivors (STOLS) Units, Operator's Manual	AD A266 317

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-79-1	Feb 1979	Limited Evaluation of the Holland Vertical-Cut Belt Loader, by C. E. Green	AD A065 867
MP GL-79-2	Feb 1979	Comparison of the Ride and Shock Responses of the M60 STB and M60 HSS/ATB Hybrid Tanks, by N. R. Murphy	AD A066 941
MP GL-79-3	Mar 1979	Evaluation of Three Constitutive Models for Soils, by P. C. Lucia and J. M. Duncan	AD A068 222
MP GL-79-4	Mar 1979	Evaluation of the Effectiveness of Membranes for Prevention of Crack Reflection in Thin Overlays, by P. J. Vedros, Jr.	AD A067 986
MP GL-79-5	Mar 1979	The Mechanisms by Which Fabrics Stabilize Aggregate Layers on Soft Subgrades, by T. C. Kinney and E. J. Barenberg	AD A069 064
MP GL-79-6	Mar 1979	Mobility Performance of the M578 Light Recovery Vehicle and Other Selected Vehicles, by D. D. Randolph	AD A068 082
MP GL-79-7*	Apr 1979	MISERS BLUFF Series; Phase II, Far-Field Seismic Investigations, by S. S. Cooper and R. E. Wahl	AD B036 727L
MP GL-79-8*	Nov 1979	MISERS BLUFF Series: Phase II, Ground Motion Measurements in the Strong-Motion Region, by S. S. Cooper and R. E. Wahl	AD B044 834L
MP GL-79-9	Apr 1979	Proposed Guidelines for Laboratory Testing of Geological Materials for Nuclear Power Facilities, by A. G. Franklin and W. F. Marcuson III	AD A071 095
Unnumbered	May 1979	Airfield Damage Repair; Field Reference Document, by V. C. Barber, H. L. Green, and G. M. Hammit	
MP GL-79-10	May 1979	Mobility Performance of Selected Truck/Trailer Combinations in the HIMO West Germany Study Area (TACV Addendum), by D. D. Randolph	AD A068 870
MP GL-79-11	Jun 1979	Liquefaction Analysis for LaCrosse Nuclear Power Station, by W. A. Bieganousky and W. F. Marcuson III	AD A072 778
MP GL-79-12	May 1979	Effects of Back-Pressure Saturation Techniques on Results of R Triaxial Compression Tests, by R. T. Donaghe and F. C. Townsend	AD A071 053

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-79-13	Jun 1979	Response and Stability of Earth Dams During Strong Earthquakes, by S. K. Sarma	AD A073 010
MP GL-79-14	Jul 1979	Develop Safety Practices for Electrokinetic Treatment of Mine Waste, by C. F. Green	AD A072 925
MP GL-79-15	Jul 1979	Proposed Guidelines for Site Investigations for Foundations of Nuclear Power Plants, by A. G. Franklin	AD A073 219
MP GL-79-16	Jul 1979	State-of-the-Art of Undisturbed Sampling of Cohesionless Soils, by W. F. Marcuson III and A. G. Franklin	AD A073 620
MP GL-79-17	Aug 1979	Use of Shear Waves in Seismic Refraction Surveying, by A. G. Franklin	AD A073 372
MP GL-79-18	Aug 1979	Structural Evaluation of Open-Graded Bases for Highway Pavements, by W. R. Barker and R. C. Gunkel	AD A075 111
MP GL-79-19	Aug 1979	Results of Geotechnical Computer Usage Survey, by D. P. Hammer and R. D. Bennett	AD A073 826
MP GL-79-20	Aug 1979	Visit to Japan to Observe Damage Which Occurred During the Near Izu Oshima Earthquakes, January 14 and 15, 1978, by W. F. Marcuson III	AD A075 448
MP GL-79-21	Sep 1979	Overview for Design of Foundations on Expansive Soils, by L. D. Johnson	AD A076 551
MP GL-79-22	Oct 1979	Study of Ground Motions at Soil Sites During Two California Earthquakes, by Ricardo Dobry, Sohan Singh, and W. E. Bond	AD A077 629
MP GL-80-1	Jan 1980	Rayleigh-Wave Velocity Determinations for Cottonwood Creek Project, California, by J. R. Curro, Jr.	AD A082 051
MP GL-80-2	Mar 1980	Use of Fabrics and Other Measures for Retarding Reflective Cracking of Asphaltic Concrete Overlays, by R. D. Jackson	AD A085 851
MP GL-80-3	Apr 1980	Minimum Concrete Strength for Pavements and Floor Slabs, by R. S. Rollings	
MP GL-80-4	Jun 1980	Evaluation of Soil Suction from Filter Paper, by D. R. Snethen and L. D. Johnson	AD A087 019
MP GL-80-5	Jun 1980	Interpretation of Data from Uphole Refraction Surveys, by A. G. Franklin	AD A087 775
MP GL-80-7	Aug 1980	Investigation for South Fill Area, United States Military Academy, West Point, New York, by H. M. Taylor, Jr., J. K. Poplin, and G. B. Mitchell	AD A089 751

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-80-9	Dec 1980	Analysis of an Assemblage of Discs Employing Interactive Graphics, by J. B. Palmerton	AD A095 735
MP GL-80-10	Sep 1980	The Joint Occurrence of Earthquakes and Floods, by M. E. Hynes-Griffin	AD A090 721
MP GL-80-11	Sep 1980	Bonded Concrete Overlays: Construction and Performance, by M. I. Darter and E. J. Barenberg	AD A090 609
MP GL-80-12	Aug 1980	Multiple-Port Piezometer Installation at Rocky Mountain Arsenal, by M. A. Vispi	AD A090 131
MP GL-80-13	Sep 1980	Microgravimetric Techniques for Geotechnical Applications, by D. K. Butler	AD A090 274
MP GL-80-14	Sep 1980	Recycled Materials--Applications to Air Force Pavements, by E. R. Brown	AD A090 610
MP GL-80-15	Sep 1980	Mathematical Analysis of Landside Seepage Berms, by R. A. Barron	AD A092 014
MP GL-80-16*	Oct 1980	Experimental Ride and Shock Tests with the Loopwheel Development Vehicle, by N. R. Murphy, Jr.	AD B052 380L
MP GL-80-17	Nov 1980	Traffic Slope Tests of Military Inventory Items and Their Effectiveness in Riverine Egress Tests, by G. L. Carr and W. E. Willoughby	AD A093 309
MP GL-80-18	Dec 1980	Dynamic Foundation Investigation for MMW Radar Facility, Roi-Namur, Kwajalein Atoll, Marshall Islands, by R. E. Wahl and J. L. Llopis	AD A095 072
MP GL-80-19	Dec 1980	Storage of Residual Fuel Oil in Underground Unlined Rock Caverns, by D. C. Banks	AD A095 384
Unnumbered	Dec 1980	Airfield Bomb Damage Repair Methods; Field Training Document, by P. J. Vedros, Jr.	AD A095 461
MP GL-81-1	Mar 1981	In Situ Seismic Investigation of Coyote Dam, by R. E. Wahl, J. L. Llopis, and R. F. Ballard, Jr.	AD A098 051
MP GL-81-2	Jul 1981	Site Effects on Power Spectral Densities and Scaling Factors, by F. K. Chang	AD A102 899
	Nov 1981	Errata Sheet No. 1	
MP GL-81-3	Aug 1981	Overview for Design and Construction of Drilled Shafts in Cohesive Soils, by L. D. Johnson, W. C. Sherman, Jr., and M. M. Al-Hussaini	AD A105 429

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-81-4	Aug 1981	Evaluation of Membrane-Type Materials for Streambank Erosion Protection, by D. W. White, Jr.	AD A100 474
MP GL-81-5	Sep 1981	Probabilistic Modeling of Subgrade Soil Strengths, by Y. T. Chou	AD A104 336
MP GL-81-6	Sep 1981	Field Test Evaluation of Regulated-Set Cement Concrete Repair Procedures, by R. L. Hutchinson, C. L. Rone, and R. H. Denson	
MP GL-81-7	Sep 1981	Geological and Seismological Investigations at Ririe Dam, Idaho, by D. M. Patrick and C. B. Whitten	AD A104 833
MP GL-81-8	Oct 1981	Evaluation of Membrane Interlayers for Prevention of Crack Reflection in Thin Overlays, by P. J. Vedros, Jr.	AD A107 585
MP GL-81-10	Nov 1981	Precast Concrete Pavements, by R. S. Rollings and Y. T. Chou	AD A108 802
MP GL-82-1	Mar 1982	Geotechnical Computer Program Survey, compiled and edited by E. V. Edris, Jr., and Wipawi Vanadit-Ellis	AD A114 106
MP GL-82-2	Mar 1982	Geophysical Investigation at Gathright Dam, by S. S. Cooper, J. P. Koestler, and A. G. Franklin	AD A114 402
MP GL-82-3	Mar 1982	Consolidation of Soft Layers by Finite Strain Analysis, by K. W. Cargill	AD A114 112
MP GL-82-4	Mar 1982	Analysis of Field Compaction Data, DeGray Dam, Caddo River, Arkansas, by W. E. Strohm, Jr., and V. H. Torrey III	AD A117 835
MP GL-82-5	Apr 1982	Assessment of the Liquefaction Hazards Resulting from Explosive Removal of the Bird's Point-New Madrid Fuze Plug Levee, by S. G. Sanders	AD A114 992
MP GL-82-6	Apr 1982	Frequency Response Characteristics of Military Vehicles, by R. A. Weiss	AD A115 660
MP GL-82-7	Sep 1982	User's Guide for Computer Program HEAVE, by L. D. Johnson	
MP GL-82-8	Aug 1982	Geotechnical Centrifuges Observed in the Soviet Union, 6-29 September 1979, by P. A. Gilbert	AD A119 656
MP GL-82-9	Aug 1982	Engineering and Geologic Investigation of Potential Sources of Aggregate, Fort Irwin, California, by S. L. Webster and L. M. Smith	AD A118 994

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-82-10	Sep 1982	The Effect of End Platens, Method of Loading, and Specimen Size in Monotonic Triaxial R Tests, by H. V. Johnson	AD A121 541
MP GL-82-11	Sep 1982	Prediction of Pavement Roughness, by W. R. Barker	AD A120 008
MP GL-82-12	Sep 1982	Geomorphic Investigation of the Bayou Bodcau and Tributaries Project Area, Louisiana, by L. M. Smith	AD A119 988
MP GL-82-13	Sep 1982	Modeling of Electrokinesis, by J. B. Warriner and P. A. Taylor	AD A120 453
MP GL-82-14	Sep 1982	Preliminary Investigation of a Proposed Pearl River Cutoff Through the Old Jackson Sanitary Landfill, by D. R. Alexander and Charlie Whitten	AD A120 455
MP GL-82-15	Sep 1982	The Use of Downhole Geophysical Methods to Detect Zones of Poor-Quality Rock or Voids, by S. S. Cooper	AD A121 501
MP GL-82-16	Sep 1982	Analytical and Data Processing Techniques for Interpretation of Geophysical Survey Data with Special Application to Cavity Detection, by D. K. Butler, A. F. Gangi, R. E. Wahl, D. E. Yule, and D. E. Barnes	AD A121 196
	Dec 1982	Errata Sheet No. 1	
MP GL-82-17	Oct 1982	Evaluation of Sod Saver Blocks and M. C. Gill Panels for Tactical Bridge Access/Egress Applications, by D. A. Ellison	AD A121 884
MP GL-82-18	Dec 1982	In Situ Seismic Investigation of Black Butte Dam, by J. L. Llopis and R. E. Wahl	AD A123 949
MP GL-83-1	Mar 1983	Geophysical Survey Analyses and Interpretation: Newton Dam, Utah, by D. K. Butler and J. R. Curro, Jr.	
MP GL-83-2*	Mar 1983	Airfield Pavement Evaluation, K-16 Seoul Airbase, Seoul, Korea, by D. M. Coleman	AD B074 046L
MP GL 83 3*	Apr 1983	Airfield Pavement Evaluation, K-3 Pohang Airbase, Pohang, Korea, by D. M. Coleman and H. M. Taylor, Jr.	AD B074 047L
MP GL-83-4*	Apr 1983	Airfield Pavement Evaluation, R-813 Chinhae Airbase, Chinhae, Korea, by D. M. Coleman	AD B074 896L
MP GL-83-5*	Apr 1983	Airfield Pavement Evaluation, T-8 Cheong-Eup Landing Strip, Cheong-Eup, Korea, by D. M. Coleman	AD B074 895L

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-83-6*	Apr 1983	Airfield Pavement Evaluation, K-9 Pusan Airbase, Pusan, Korea, by D. M. Coleman	AD B075 001L
MP GL-83-7*	Apr 1983	Airfield Pavement Evaluation, T-2 Kumi Landing Strip, Kumi, Korea, by D. M. Coleman	AD B074 969L
MP GL-83-8*	Apr 1983	Airfield Pavement Evaluation, T-8 Eonyang Landing Strip, Eonyang, Korea, by D. M. Coleman	AD B074 894L
MP GL-83-9*	Jun 1983	Airfield Pavement Evaluation, K-59 Air Force Base, Chongju, Korea, by D. R. Alexander	AD B075 644L
MP GL-83-10*	Jun 1983	Airfield Pavement Evaluation, K-18 Air Force Base, Kangnung, Korea, by D. R. Alexander	AD B075 605L
MP GL-83-11*	Jun 1983	Airfield Pavement Evaluation, K-46 Air Force Base, Hoengsong, Korea, by D. R. Alexander and H. M. Taylor, Jr.	AD B075 794L
MP GL-83-12*	Jun 1983	Airfield Pavement Evaluation, R-217 Airbase, Pochon, Korea, by D. R. Alexander	AD B076 184L
MP GL-83-13*	Jun 1983	Airfield Pavement Evaluation, R-404 Airbase, Yanggu, Korea, by D. R. Alexander	AD B075 757L
MP GL-83-14*	Jun 1983	Airfield Pavement Evaluation, R-407 Airbase, Sokch'o, Korea, by D. R. Alexander	AD B075 772L
MP GL-83-15*	Jun 1983	Airfield Pavement Evaluation, K-58 Air Force Base, Yechon, Korea, by D. R. Alexander	AD B075 795L
MP GL-83-16*	Jun 1983	Airfield Pavement Evaluation, K-5 Air Force Base, Taejon, Korea, by D. R. Alexander	AD B075 787L
MP GL-83-17*	Jun 1983	Airfield Pavement Evaluation, A-306 Airfield Chunchon, Korea, by D. R. Alexander	AD B076 383L
MP GL-83-18*	May 1983	Airfield Pavement Evaluation, R-113 Airbase, Susaek, Korea, by D. R. Alexander	AD B076 183L
MP GL-83-19	Aug 1983	Seismic Analysis of Tunnel Boring Machine Signals at Kerckhoff Tunnel, by R. J. Greenfield	AD A132 629
MP GL-83-20	Sep 1983	Evaluation of Revised Manual Compaction Rammers and Laboratory Compaction Procedures, by R. C. Horz	AD A153 179
MP GL-83-21*	May 1983	Airfield Pavement Evaluation, T-14 Kimpo Landing Strip, Seoul, Korea, by D. M. Coleman	AD B076 598L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-83-22*	Jul 1983	Airfield Pavement Evaluation, R-222 Airbase, Ganamri, Korea, by D. R. Alexander	AD B077 128L
MP GL-83-23	Sep 1983	Seismic Design, Analysis, and Remedial Measures to Improve Stability of Existing Earth Dams, by W. F. Marcuson III and A. G. Franklin	AD A133 437
MP GL-83-24	Sep 1983	Cyclic Rotation of Principal Planes to Investigate Liquefaction of Sands, by R. T. Donaghe and P. A. Gilbert	AD A133 819
MP GL-83-25*	Jun 1983	Airfield Pavement Evaluation, A-511 (Camp Humphreys), Pyongtaek, Korea, by D. R. Alexander	AD B077 428L
MP GL-83-26	Sep 1983	Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering, edited by M. E. Hynes-Griffin and L. L. Buege	AD A136 497
MP GL-83-27	Sep 1983	Compendium of Abstracts on Statistical Applications in Geotechnical Engineering, edited by M. E. Hynes-Griffin and G. W. Deer	AD A136 355
MP GL-84-1*	Feb 1984	Airfield Pavement Evaluation, Hunter Army Airfield, Savannah, Georgia, by R. W. Grau	AD B080 742L
MP GL-84-2	Apr 1984	Microgravity Survey of Wilson Dam Powerplant Switchyards, Florence, Alabama, by D. K. Butler and D. E. Yule	AD A142 325
MP GL-84-3	May 1984	Geophysical Investigations in Support of Clearwater Dam Comprehensive Seepage Analysis, by J. P. Koester, D. K. Butler, S. S. Cooper, and J. L. Llopis	AD A142 324
MP GL-84-4	May 1984	Stabilization of Moving Land Masses by Cast-in-Place Piles, by J. B. Palmerton	AD A142 689
MP GL-84-7	Jun 1984	Improved Surfacing Materials for Tracked Vehicular Traffic, by R. D. Jackson	AD A142 697
MP GL-84-8	Jun 1984	Probabilistic Rock Slope Engineering, by S. M. Miller	AD A144 826
MP GL-84-9	Jul 1984	Nondestructive Vibratory Testing and Evaluation Procedure for Military Roads and Streets, by D. M. Coleman	AD A145 039
MP GL-84-10	Jul 1984	Scale and Time Effects in Hydraulic Fracturing, by Hadi Widjaja, J. M. Duncan, and H. B. Seed	AD A144 639

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-84-11*	Jul 1984	Fuel-Resistant Pavement Sealers, by J. E. Shoenberger	AD B085 128L
MP GL-84-12	Jul 1984	Soil Destabilization for Vehicle Barriers, by H. G. Brown and W. R. Baker	AD A146 721
MP GL-84-13	Jul 1984	Rationalizing the Seismic Coefficient Method, by M. E. Hynes-Griffin and A. G. Franklin	AD A144 730
MP GL-84-14	Jul 1984	Microearthquake Monitoring Sponsored by the Corps of Engineers, by R. B. Meade	AD A146 798
MP GL-84-15	Jul 1984	Influence of Consolidation Shear Stresses and Relative Density on Threshold Strain and Pore Pressure During Cyclic Straining of Saturated Sand, by Rune Dyvik, Ricardo Dobry, G. E. Thomas, and W. G. Pierce	AD A146 431
MP GL-84-16	Aug 1984	Geophysical Seepage Detection Studies, Mill Creek Dam, Walla Walla, Washington, by D. K. Butler, R. E. Wahl, and M. K. Sharp	AD A146 409
MP GL-84-17	Sep 1984	The Current State-of-the-Art of Rock Cutting and Dredging, by H. J. Hignett	AD A150 500
MP GL-84-18	Sep 1984	Active Detection of Tunnels by Induced Seismic Spectra, by R. F. Ballard, Jr., T. B. Kean II, R. D. Lewis, and G. E. Smith, Jr.	AD A149 776
MP GL-84-20	Nov 1984	Predicted and Actual Performance of a Structure in Expansive Soils, by M. E. Simmons	AD A149 669
MP GL-84-21*	Nov 1984	Membrane Surfacing of LACV-30 Path at Fort Story, Virginia, by R. H. Grau	AD B089 381L
MP GL-85-1	Jan 1985	Seismic Design of Gravity Retaining Walls, by R. V. Whitman and Samson Liao	AD A152 325
MP GL-85-2	Feb 1985	Review of Rigid Pavement Design for Vehicular Parking Areas, by J. C. Potter	AD A154 284
MP GL-85-3	Mar 1985	Synthesis of Railroad Design Methods, Track Response Models, and Evaluation Methods for Military Railroads, by D. M. Coleman	AD A155 656
MP GL-85-4*	Mar 1985	Airfield Pavement Evaluation, Campbell Army Airfield, Fort Campbell, Kentucky, by R. W. Grau	AD B092 124L
MP GL-85-5*	Mar 1985	Airfield Pavement Evaluation, Lawson Army Airfield, Fort Benning, Georgia, by R. W. Grau	AD B092 125L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-85-6*	Apr 1985	Trafficability Tests with the Finnish SISU A-45 Cargo Truck Towing the SISU FA-303 Powered Trailer, by D. W. Moore	AD B091 885L
MP GL-85-7*	Apr 1985	Airfield Pavement Evaluation, Mackall Army Airfield, Camp Mackall, Hoffman, North Carolina, by D. M. Coleman	AD B192 507L
MP GL-85-8	May 1985	Criteria for Limit Equilibrium Slope Stability Program Package, by the CAGE Task Group on Slope Stability	AD A155 665
MP GL-85-9*	Jun 1985	Airfield Pavement Evaluation, Post Army Airfield, Fort Sill, Oklahoma, by R. A. Bentsen	AD B093 230L
MP GL-85-10*	May 1985	Airfield Pavement Evaluation, Marshall Army Airfield, Fort Riley, Kansas, by R. A. Bentsen and D. D. Mathews	AD B093 231L
MP GL-85-11*	Jun 1985	Airfield Pavement Evaluation, Robert Gray Army Airfield, Fort Hood, Texas, by D. R. Alexander	AD B094 557
MP GL-85-12	May 1985	Analysis of Strong-Motion Data From the Mount Borah, Idaho, Earthquake of 28 October 1983, by F. K. Chang	AD A157 585
MP GL-85-13	Aug 1985	Computer Techniques for Producing Color Maps, by A. N. Williamson, Jr.	AD A161 159
MP GL-85-14	Sep 1985	Use of X-ray Radiographic Techniques in the Evaluation Of Soil Liners, by P. G. Malone, J. H. May, K. W. Brown, and J. C. Thomas	AD A161 243
MP GL-85-15	Nov 1985	Potential Applications of Alkali-Activated Alumino-Silicate Binders in Military Operations, by P. G. Malone, C. A. Randall, Jr., and Thaddeus Kirkpatrick	AD A166 196
MP GL-85-16	Aug 1985	BOSEF: Beam on Swelling Elastic Foundation, by J. P. Stewart	AD A160 700
MP GL-85-17*	Aug 1985	Airfield Pavement Evaluation, Butts Army Airfield, Fort Carson, Colorado, by R. A. Bentsen	AD B095 572L
MP GL-85-18*	Aug 1985	Airfield Pavement Evaluation, Hood Army Airfield, Fort Hood, Texas, by R. A. Bentsen and C. W. Dorman	AD B095 633L
MP GL-85-19	Sep 1985	Rock Failure Criteria for Design of Underground Structural Supports, by G. A. Nicholson	AD A159 807
MP GL-85-20*	Sep 1985	Airfield Pavement Evaluation, Biggs Army Airfield, Fort Bliss, Texas, by R. A. Bentsen	AD B097 167L

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-85-21	Aug 1985	Crater Repair of North Auxiliary Airfield, South Carolina, by S. J. Alford and A. J. Bush III	AD A160 156
MP GL-85-22*	Oct 1985	Terrain Characterization for Recovery and Towing Tests With the Light Armored Vehicle, by W. E. Willoughby and D. W. Moore	AD B097 977L
MP GL-85-23	Sep 1985	Potential for Using Loess in Sand Asphalt Mixtures, by E. R. Brown and R. T. Graham	AD A164 197
MP GL-85-24*	Sep 1985	Airfield Pavement Evaluation, Gray Army Airfield, Fort Lewis, Washington, by R. A. Bentsen	AD B096 766L
MP GL-85-25	Sep 1985	Equations for Nonbonded Concrete Overlays, by Y. T. Chou	AD A163 173
MP GL-85-26	Sep 1985	Comparative Study of Nondestructive Pavement Testing, WES NDT Methodologies, by J. W. Hall, Jr., and D. R. Alexander	AD A163 379
MP GL-85-27	Sep 1985	Reliability of the Flexible Pavement Design Model, by J. C. Potter	AD A162 004
MP GL-85-28*	Nov 1985	Rigid Airfield Pavement Distress Prediction, by S. D. Kohn	AD B098 740L
MP GL-85-29	Dec 1985	Geophysical Seepage Studies at Center Hill Dam, Tennessee, by D. E. Yule, J. L. Llopis, and M. K. Sharp	AD A164 133
MP GL-85-30*	Nov 1985	Airfield Bomb Damage Repair Methods, by P. J. Vedros and G. M. Hammitt II	AD B098 766L
MP GL-85-31*	Dec 1985	Airfield Damage Repair Exercise in Europe, 1982; Progressive Crater Repair, by G. M. Hammitt II and L. D. McCallister	AD B098 716L
MP GL-85-32*	Dec 1985	Airfield Damage Repair Exercise in Europe, 1983, by A. W. Semple and J. W. Horne	AD B098 765L
MP GL-85-33*	Dec 1985	Airfield Damage Repair (ADR) Training and Evaluation Outlines, by J. W. P. Patin and G. M. Hammitt II	AD B098 705L
MP GL-85-34*	Dec 1985	Airfield Damage Repair Exercise in Europe, 1984, by A. W. Semple and J. W. Horne	AD B098 715L
MP GL-86-1*	Jan 1986	Airfield Damage Repair Techniques of 18th Engineer Brigade in Europe, by Theodore Stroup, David Reed, and G. M. Hammitt II	AD B100 443L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-86-2*	Jan 1986	Airfield Damage Repair, by V. C. Barber, H. L. Green, and G. M. Hammitt II	AD B103 198
MP GL-86-3	Jan 1986	Cracking and Seating of Portland Cement Concrete Pavement Prior to Asphalt Concrete Overlay; Facilities Technology Application Test, FY 84, by L. N. Godwin	AD A169 532
MP GL-86-4	Feb 1986	Asphalt Pavement Recycling Primer, by T. W. Vollar	AD A166 439
MP GL-86-5	Jan 1986	Field Evaluation of the Water Wedge for Cutting Portland Cement Concrete Pavements for Repair and Restoration of Paved Surfaces (REREPS), by D. M. Coleman	AD A166 346
MP GL-86-6*	Jan 1986	Precast Concrete Slab Design for Repair and Restoration of Paved Surfaces (REREPS), by W. N. Brabston and T. W. Vollar	AD B100 280L
MP GL-86-7*	Jan 1986	Airfield Pavement Evaluation, Allen Army Airfield, Fort Greely, Alaska, by D. R. Alexander	AD B101 186L
MP GL-86-8*	Feb 1986	Airfield Pavement Evaluation, Fritzsche Army Airfield, Fort Ord, California, by R. A. Bentsen and D. D. Mathews	AD B102 045L
MP GL-86-9*	Mar 1986	Airfield Pavement Evaluation, Hunter-Liggett Army Airfield, Fort Hunter-Liggett, California, by S. D. Kohn	AD B102 402L
MP GL-86-10*	Feb 1986	Airfield Pavement Evaluation, Bryant Army Airfield (Fort Richardson), Anchorage, Alaska, by D. R. Alexander	AD B102 172L
MP GL-86-11*	Mar 1986	Airfield Pavement Evaluation, Wainwright Army Airfield (Fort Wainwright), Fairbanks, Alaska, by R. W. Grau	AD B102 271L
MP GL-86-12*	Mar 1986	Airfield Pavement Evaluation, Barstow-Daggett Airport, Daggett, California, by R. A. Bentsen	AD B102 156L
MP GL-86-13*	Mar 1986	Airfield Pavement Evaluation, Los Alamitos Army Airfield, Los Alamitos, California, by R. A. Bentsen	AD B102 291L
MP GL-86-14*	Apr 1986	Airfield Pavement Evaluation, Polk Army Airfield, Fort Polk, Louisiana, by R. A. Bentsen	AD B102 408L
MP GL-86-15*	May 1986	Evaluation of AM-2 MOD 5 Production Landing Mat, by C. W. Dorman and T. B. Rosser III	AD B104 872L
MP GL-86-16*	May 1986	Airfield Pavement Evaluation, Simmons Army Airfield, Fort Bragg, North Carolina, by T. B. Rosser	

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-86-17*	Jun 1986	Airfield Pavement Evaluation, Harvey Barracks Army Airfield, Kitzingen, Federal Republic of Germany, by P. S. McCaffrey, Jr.	AD B104 900L
MP GL-86-18*	Jul 1986	Airfield Pavement Evaluation, Cairns Army Airfield, Fort Rucker, Alabama, by R. A. Bentsen	AD B105 069L
MP GL-86-19	Aug 1986	Facilities Technology Application Tests; Fuel-Resistant Pavement Sealers, by J. E. Shoenberger and E. R. Brown	AD A171 473
MP GL-86-20*	Aug 1986	Airfield Pavement Evaluation, McCoy Army Airfield, Camp McCoy, Wisconsin, by P. S. McCaffrey, Jr., and J. D. Perkins, Jr.	AD B105 071L
MP GL-86-21	Jul 1986	Structural Enhancement of Railroad Track Structures Using Asphalt Underlayment, by D. M. Coleman	AD A172 953
MP GL-86-22*	Aug 1986	Airfield Pavement Evaluation, Volk Field, Air National Guard, Camp Douglas, Wisconsin, by P. S. McCaffrey, Jr.	AD B105 240L
MP GL-86-23	Aug 1986	Review of Rigid Pavement Design for Concrete Floor Slabs on Grade, by J. C. Potter	AD A171 808
MP GL-86-24	Sep 1986	Future Research Needs For Dredgeability of Rock: Rock Dredging Workshop, 1985, by H. J. Smith	AD A172 291
MP GL-86-25	Aug 1986	Mohicanville Reinforced Dike No. 2, Design Memorandum, by Jack Fowler, R. E. Leach, J. F. Peters, and R. C. Horz	AD A173 269
MP GL-86-26	Aug 1986	Verification of Design and Construction Techniques for Gaillard Island Dredged Material Disposal Area, Mobile, Alabama, by Jack Fowler, H. N. Blakeney, and M. L. Hayden	AD A173 512
MP GL-86-27*	Sep 1986	Transient Electromagnetic Methods for Ground-Water Assessment, by D. K. Butler and D. V. Fitterman	AD B105 936L
MP GL-86-28	Sep 1986	Light-Initiated Detonation Systems, by S. S. Cooper, P. G. Malone, S. W. Bartholomew, and W. J. Necker	AD A172 551
MP GL-86-29*	Sep 1986	Ingress/Egress and Swim Tests with the Bradley Fighting Vehicle System, by W. E. Willoughby	AD B106 140L
MP GL-86-30*	Oct 1986	Airfield Pavement Evaluation, Sampson Field, Seneca Army Depot, New York, by M. J. Horihan	AD B107 224L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-86-31*	Oct 1986	Airfield Pavement Evaluation, Selah Creek Airstrip, Yakima Firing Center, Washington, by M. J. Horihan	AD B107 322L
MP GL-86-32*	Oct 1986	Airfield Pavement Evaluation, Wheeler-Sack Army Airfield, Fort Drum, New York, by M. J. Horihan	AD B107 321L
MP GL-86-33	Nov 1986	Evaluation of Buried, Concrete-Lined, Corrugated Metal Pipe, by J. C. Potter	AD A176 379
MP GL-86-34	Nov 1986	Evaluation of Asphalt Rubber and Engineering Fabrics as Pavement Interlayers, by R. C. Ahlrich	AD A176 526
MP GL-86-35*	Nov 1986	Airfield Pavement Evaluation, Amedee Army Airfield, Sierra Army Depot, Herlong, California, by M. A. Kennedy	
MP GL-86-36*	Nov 1986	Airfield Pavement Evaluation, Michael Army Airfield, Dugway Proving Ground, Dugway, Utah, by M. A. Kennedy	
MP GL-86-37*	Nov 1986	Airfield Pavement Evaluation, Ray S. Miller Army Airfield, Camp Ripley, Minnesota, by M. A. Kennedy	
MP GL-86-38	Dec 1986	Soft Soil Stabilization Study for Wilmington Harbor South Dredge Material Disposal Area, by R. M. Koerner, Jack Fowler, and C. A. Lawrence	AD A177 446
MP GL-86-39	Nov 1986	A Guide for Design and Construction of Roller-Compacted Concrete Pavements, by D. W. Pittman and S. A. Ragan	AD A176 367
MP GL-86-40	Dec 1986	Dustproofing Unsurfaced Tank Trails, Grafenwohr Training Area, Federal Republic of Germany, June 15-29, 1985, by R. A. Hass	AD A178 942
MP GL-86-41*	Dec 1986	Airfield Pavement Evaluation, Moore Army Airfield, Fort Devens, Massachusetts, by M. A. Kennedy	
MP GL-86-42*	Dec 1986	Development Test 1 of Access/Egress Roadway System, by D. W. White, Jr.	AD B110 208L
MP GL-87-1	Mar 1987	Response Spectral Analysis of Franklin Falls Dam, New Hampshire, by F. K. Chang	AD A180 004
MP GL-87-2	Jul 1987	Skiffes Creek Dredged Material Disposal Area Alternatives, Fort Eustis, Virginia, by Jack Fowler, W. L. Hanks, and T. S. Holloway	

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-87-3	Apr 1987	Stabilization of Very Soft Soils Using Geosynthetics, by Jack Fowler	AD A180 245
MP GL-87-4	May 1987	Perimeter Dike Stability Analyses, Craney Island Disposal Area, Norfolk District, Norfolk, Virginia, by Jack Fowler, E. V. Edris, Jr., W. L. Hanks, and T. S. Holloway	AD A182 764
MP GL-87-5	Apr 1987	Pavement Evaluation Concepts Using Nondestructive Structural Evaluation and Pavement Condition Index, by J. W. Hall, Jr.	AD A181 373
MP GL-87-6*	Apr 1987	Airfield Pavement Evaluation, Phillips Army Airfield, Aberdeen Proving Ground, Maryland, by R. A. Bentsen, W. P. Grogan, and M. A. Kennedy	
MP GL-87-7*	Apr 1987	Airfield Pavement Evaluation, Forney Army Airfield, Fort Leonard Wood, Missouri, by M. J. Horihan	
MP GL-87-8	May 1987	Subsurface Investigation of a Liquefaction-Induced Lateral Spread, Thousand Springs Valley, Idaho, by R. D. Andrus, and T. L. Youd	AD A182 912
MP GL-87-9	Jun 1987	Geotechnical Feasibility Study Replacement of Extension of the Craney Island Disposal Area, Norfolk, Virginia, by S. J. Spigolon and Jack Fowler	AD A182 458
MP GL-87-10*	Jun 1987	Airfield Pavement Evaluation, Godman Army Airfield, Fort Knox, Kentucky, by M. J. Horihan	AD B114 017L
MP GL-87-11*	Jun 1987	Airfield Pavement Evaluation, Blackstone Army Airfield, Camp Pickett, Virginia, by M. A. Kennedy and W. P. Grogan	AD B114 052L
MP GL-87-13*	Jun 1987	Airfield Pavement Evaluation, Sherman Army Airfield, Fort Leavenworth, Kansas, by M. J. Horihan	
MP GL-87-14*	Jul 1987	Airfield Pavement Evaluation, Felker Army Airfield, Fort Eustis, Virginia, by M. A. Kennedy	
MP GL-87-15*	Jul 1987	Airfield Pavement Evaluation, Grayling Army Airfield, Camp Grayling, Michigan, by T. B. Rosser III	
MP GL-87-16	Jul 1987	Open-Graded Bases for Airfield Pavements, by W. R. Barker	AD A184 461
MP GL-87-17	Jul 1987	Condition Survey and Paver Implementation, Eielson Air Force Base, Alaska, by R. A. Bentsen	AD A185 211

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-87-18*	Aug 1987	Airfield Pavement Evaluation, Davison Army Airfield, Fort Belvoir, Virginia, by M. A. Kennedy, M. J. Horihan, and P. S. McCaffrey, Jr.	AD B115 457L
MP GL-87-19	Aug 1987	Dustproofing Unsurfaced Areas: Facilities Technology Application Test Demonstration, FY 86, by J. P. Armstrong	AD A185 185
MP GL-87-20	Aug 1987	Roller-Compacted Concrete Pavement Construction at Wright-Patterson AFB, Ohio, by D. W. Pittman	
MP GL-87-21	Sep 1987	Development of a Laboratory Technique for Correcting Results of Undrained Triaxial Shear Tests on Soils Containing Coarse Particles for Effects of Membrane Compliance, by R. B. Seed and Hossain Anwar	AD A185 542
MP GL-87-22	Sep 1987	Examination of Existing Shear Wave Velocity and Shear Modulus Correlations in Soils, by D. W. Sykora	AD A214 721
MP GL-87-23	Aug 1987	Measurement of Horizontal and Vertical Swell Pressures from a Triaxial Laboratory Test; a Feasibility Study, by L. D. Johnson	AD A185 496
MP GL-87-24	Sep 1987	Liquefaction Susceptibility of Fine-Grained Soils--Preliminary Study Report, by N. -Y. Chang	AD 187 581
MP GL-87-25	Sep 1987	An Examination of Slope Stability Computation Procedures for Sudden Drawdown, by S. G. Wright	AD A187 240
MP GL-87-26	Sep 1987	Creation of a Data Base of Seismic Shear Wave Velocities for Correlation Analysis, by D. W. Sykora	
MP GL-87-27	Sep 1987	A Review of Radon Emanation and Mobilization in Minerals and Rocks, by C. P. Cameron	AD A189 764
MP GL-87-28	Sep 1987	Suitability of Sites for Hazardous Waste Disposal, Concord Naval Weapons Station, Concord, California, by R. J. Luton, R. D. Bennett, C. C. McAneny, and D. N. Wong	AD A186 985
MP GL-87-29	Nov 1987	Condition Survey and PAVER Implementation, MacDill Air Force Base, Florida, by R. A. Bentsen and P. S. McCaffrey, Jr.	AD A188 916
MP GL-87-30	Nov 1987	Condition Survey and PAVER Implementation, MacDill Auxiliary Field No. 1 (Avon Park Range), Florida, by R. A. Bentsen and P. S. McCaffrey, Jr.	AD A189 973

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-87-31*	Dec 1987	Expedient Landing Strips and Airfield Damage Repair for C-130 Aircraft in Support of Airborne/Air Assault Missions, by G. M. Hammitt II and R. S. Rollings	AD B118 464L
MP GL-88-1	Feb 1988	A Lateral-Load Test of a Full-Scale Pile Group in Sand, by C. S. Morrison and L. C. Reese	AD A194 216
MP GL-88-2	Feb 1988	Behavior of a Large-Scale Pile Group Subjected to Cyclic Lateral Loading, by D. A. Brown and L. C. Reese	
MP GL-88-3	Feb 1988	Development of a Laboratory Test to Identify the Scour Potential of Soils at Piles Supporting Offshore Structures, by S. -T. Wang and L. C. Reese	AD A193 332
MP GL-88-4	Feb 1988	An Investigation of the Behavior of Vertical Piles in Cohesive Soils Subjected to Repetitive Lateral Loads, by J. H. Long and L. C. Reese	AD A194 440
MP GL-88-5	Mar 1988	Development and Initial Testing of the Automated Military Cone Penetrometer, by W. E. Perkins	AD A194 841
MP GL-88-6	Mar 1988	Proceedings of the Workshop on Design, Construction, and Research for Ribbed Mat Foundations, by L. D. Johnson	AD A194 571
MP GL-88-7*	Apr 1988	Airfield Pavement Evaluation, Sharpe Army Airfield, Sharpe Army Depot, Stockton, California, by T. B. Rosser III	AD B121 126L
MP GL-88-8*	Apr 1988	Airfield Pavement Evaluation, Haley Army Heliport, Fort Sheridan, Illinois, by J. A. Harrison	AD B122 255L
MP GL-88-9*	May 1988	Airfield Pavement Evaluation, Libby Army Airfield, Fort Huachua, Arizona, by T. B. Rosser III	AD B122 099L
MP GL-88-10	Jun 1988	Experimental Research into the Behavior of Piles and Pile Groups Subjected to Cyclic Lateral Loading, by L. C. Reese, D. A. Brown, and S. -T. Wang	AD A196 799
MP GL-88-11	Jun 1988	Analysis of the Pile Load Test Program at the Lock and Dam 26 Replacement Project, by L. M. Tucker and Jean-Louis Briaud	AD A196 924
MP GL-88-12	Jun 1988	Lateral Pile-Group Interaction Factors for Free-Headed Pile Groups in Sand From Full-Scale Experiments, by Mauricio Ochoa and M. W. O'Neill	AD A197 363

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-88-13*	Jun 1988	Airfield Pavement Evaluation, Condron Army Airfield, White Sands Missile Range, New Mexico, by T. B. Rosser III	AD B123 827L
MP GL-88-14	Jun 1988	A Pressuremeter Method for Single Piles Subjected to Cyclic Lateral Loads in Sand, by R. L. Little and Jean-Louis Briaud	AD A197 287
MP GL-88-15	Jun 1988	Geophysical Site Investigation, Ohio River Navigation Project--Olmstead Site, by D. E. Yule and M. K. Sharp	AD A196 639
MP GL-88-16*	Jul 1988	Condition Survey, Campbell Army Airfield, Fort Campbell, Kentucky, by T. B. Rosser III	AD B123 883L
MP GL-88-17*	Jul 1988	Airfield Pavement Evaluation, Kelly Army Heliport, Fort Sam Houston, Texas, by P. S. McCaffrey, Jr.	AD B124 143L
MP GL-88-18*	Jul 1988	Airfield Pavement Evaluation, Muir Army Airfield, Fort Indiantown Gap, Annville, Pennsylvania, by W. P. Grogan	AD B122 474L
MP GL-88-19*	Jul 1988	Condition Survey, Lawson Army Airfield, Fort Benning, Georgia, by W. P. Grogan	
MP GL-88-20*	Jul 1988	Condition Survey, Mackall Army Airfield, Camp Mackall, Hoffman, North Carolina, by W. P. Grogan	AD B122 909L
MP GL-88-21*	Jul 1988	Airfield Pavement Evaluation, Laguna Army Airfield, Yuma Proving Ground, Arizona, by P. S. McCaffrey, Jr.	AD B124 488L
MP GL-88-22*	Jul 1988	Condition Survey, Marshall Army Airfield, Fort Riley, Kansas, by T. B. Rosser III	AD B123 690
MP GL-88-23*	Jul 1988	Condition Survey, Post Army Airfield, Fort Sill, Lawton, Oklahoma, by T. B. Rosser III	AD B123 691L
MP GL-88-24*	Jul 1988	Airfield Pavement Evaluation, Redstone Army Airfield, Redstone Arsenal, Huntsville, Alabama, by W. P. Grogan	AD B123 530L
MP GL-88-25*	Jul 1988	Condition Survey, Hunter Army Airfield, Savannah, Georgia, by T. B. Rosser III	AD B123 692L
MP GL-88-26*	Jul 1988	Airfield Pavement Evaluation, Tipton Army Airfield, Fort George G. Meade, Maryland, by J. A. Harrison	AD B123 693L
MP GL-88-27	Aug 1988	Full Scale Cyclic Lateral Load Tests on Six Single Piles in Sand, by R. L. Little and Jean-Louis Briaud	AD A199 115

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-88-28	Aug 1988	Axial Response of Three Vibratory and Three Impact Driven H-Piles in Sand, by L. M. Tucker and Jean-Louis Briaud	AD A199 126
MP GL-88-29	Aug 1988	Pavement Crack and Joint Sealants, by L. N. Lynch	AD A198 544
MP GL-88-30	Sep 1988	Substandard Materials for Pavement Construction, by R. S. Rollings	AD A199 763
MP GL-88-31*	Sep 1988	Condition Survey, Robert Gray Army Airfield, Fort Hood, Texas, by T. B. Rosser III	AD B126 960L
MP GL-88-32*	Sep 1988	Condition Survey, Hood Army Airfield, Fort Hood, Texas, by T. B. Rosser III	AD B127 907L
MP GL-88-33	Sep 1988	Evaluation of Quarrying and Asphalt Construction Equipment, by R. R. Johnson	AD A199 764
MP GL-88-34	Dec 1988	Earthquake-Induced Liquefaction of Fine-Grained Soils--Considerations from Japanese Research, by J. P. Koester	AD A207 046
MP GL-88-35	Dec 1988	Conceptual Design; Interim Ground-Water Recharge System, RMA North Boundary Area, by R. J. Lutton	
MP GL-89-2*	Mar 1989	Airfield Pavement Evaluation, Bucholz Army Airfield, Kwajalein Atoll, Marshall Islands, by W. P. Grogan	AD B131 746L
MP GL-89-3*	Mar 1989	Joint Sealant Study and Field Performance Survey, by L. N. Lynch	AD B131 767L
MP GL-89-4*	Apr 1989	Light Engineer Force Crater-Repair Demonstration, Fort Bragg, North Carolina, by T. P. Williams	AD B131 756L
MP GL-89-5		Study of Embankment Performance During Overtopping and Throughflow:	
	Apr 1989	Report 1 Feasibility Study, by H. -Y. Ko, R. J. Dunn, and Ebrahim Simantob	AD A207 755
	Apr 1989	Report 2 Hydraulic Study and Modeling of Models, by H. -Y. Ko, R. J. Dunn, and Ebrahim Simantob	AD A207 756
	Apr 1989	Report 3 Model-Prototype Comparison Studies, by H. -Y. Ko, R. J. Dunn, and Ebrahim Simantob	AD A207 954

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-89-7	Apr 1989	Subsurface Conditions at Site 16 Lone Star Army Ammunition Plant, Texas, by R. J. Lutton, J. D. Broughton, D. E. Yule, et al.	AD A208 125
MP GL-89-8*	Apr 1989	Airfield Pavement Evaluation, Dyess Army Airfield, Roi-Namur, Kwajalein Atoll, Marshall Islands, by W. P. Grogan	AD B132 836
MP GL-89-9	Apr 1989	Development of Failure Criteria of Rigid Pavement Thickness Requirements for Military Roads and Streets, Elastic Layered Method, by Y. T. Chou	AD A207 903
MP GL-89-10*	Jun 1989	Airfield Pavement Evaluation, Wright Army Airfield, Fort Stewart, Georgia, Facilities Engineering Application Program (FEAP), by J. A. Harrison	AD B130 633L
MP GL-89-11*	Jun 1989	Condition Survey, Gray Army Airfield, Fort Lewis, Washington, by P. S. McCaffrey, Jr.	AD B134 434L
MP GL-89-12*	Jul 1989	Condition Survey, Hunter-Liggett Army Airfield, Fort Hunter-Liggett, California, by W. P. Grogan	AD B134 932L
MP GL-89-13*	Jul 1989	Condition Survey, Michael Army Airfield, Dugway Proving Ground, Dugway, Utah, by T. B. Ross: III	AD B135 240L
MP GL-89-14*	Aug 1989	Improvement in Hard Rock Percussion Drilling, by J. L. Gatz and M. A. Vispi	AD B136 376L
MP GL-89-15	Sep 1989	Acoustic Emission Monitoring of Cofferdam Performance, Locks and Dam 26 (Replacement), by Ground Engineering, Inc.	AD A212 820
MP GL-89-16	Sep 1989	Spectral Characteristics of Small Magnitude Earthquakes with Application to Western and Eastern North American Tectonic Environments: Surface Motions and Depth Effects, by R. B. Darragh, R. K. Green, and F. T. Turcotte	AD A212 488
MP GL-89-17	Sep 1989	Estimated Ground Motions for a New Madrid Event, by W. J. Silva, R. D. Darragh, R. K. Green, and F. T. Turcotte	AD A212 821
MP GL-89-18	Sep 1989	Geophysical Investigation at Hazardous Waste Management Site 16, Radford Army Ammunition Plant, Radford, Virginia, by J. L. Llopis and K. J. Sjostrom	AD A212 665
MP GL-89-19	Sep 1989	Condition Survey Report, Robins Air Force Base, Georgia, by R. A. Bentsen and D. D. Mathews	AD A213 181

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-89-20*	Sep 1989	Condition Survey, Fritzsche Army Airfield, Fort Ord, California, by D. D. Mathews	AD B137 072L
MP GL-89-21	Sep 1989	Investigation of the Ida-Raisinville Sanitary Sewer Pipe Distress, by R. E. Leach, G. S. Wong, and G. B. Mitchell	AD A213 111
MP GL-89-22	Sep 1989	The Effects of the Construction Process on Selected Fresh and Hardened Properties of Roller-Compacted Concrete (RCC) Pavements, by D. W. Pittman	AD A213 735
MP GL-89-23*	Sep 1989	Condition Survey, Butts Army Airfield, Fort Carson, Colorado, by D. D. Mathews	AD B137 146
MP GL-89-24	Sep 1989	Analysis of Data from Instrumentation Program: Lock and Dam No. 1, Red River Waterway, Louisiana, by Wipawi Vanadit-Ellis, R. L. Hall, and P. W. Graham	AD A214 677
MP GL-89-25	Oct 1989	A Geographic Information System (GIS) for the Southern Louisiana Deltaic Environments, by A. N. Williamson and L. D. Britsch	AD A214 676
MP GL-89-26	Nov 1989	Lunar Surface Mobility Studies, Past and Future, by G. W. Turnage and D. C. Banks	AD A216 451
MP GL-89-27	Nov 1989	Design and Construction of Mat Foundations, by L. D. Johnson	AD A216 450
MP GL-89-28*	Dec 1989	Condition Survey, Polk Army Airfield, Fort Polk, Louisiana, by J. A. Harrison and D. D. Mathews	AD B138 925L
MP GL-89-29	Dec 1989	Blast Effects Monitoring Study at Hazardous Waste Site Clean-Up, Meddybemps, Maine, by D. E. Yule, N. J. Sydow, and J. L. Pickens	AD A216 290
MP GL-89-30	Dec 1989	Geotextile Reinforced Embankments on Soft Foundations, by Jack Fowler	AD A218 009
MP GL-90-1	Jan 1990	Evaluation of Asphalt Binder Modifiers, by G. L. Anderton	AD A217 273
MP GL-90-2*	Feb 1990	Condition Survey, Bryant Army Airfield, (Fort Richardson), Anchorage, Alaska, by J. A. Harrison and P. S. McCaffrey, Jr.	AD B142 197
MP GL-90-3*	Feb 1990	Condition Survey, Felker Army Airfield, Fort Eustis, Virginia, by G. L. Carr	AD B142 228

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-90-4	Apr 1990	Use of Geogrids in Railroad Track: A Literature Review and Synopsis, by D. M. Coleman	AD A221 396
MP GL-90-5	Apr 1990	Foundation Investigation for Ground Based Radar Project--Kwajalein Island, Marshall Islands, by D. E. Yule and M. K. Sharp	AD A221 320
MP GL-90-6	May 1990	Geophysical Investigation of Burial Site 3-A, Defense Depot, Ogden, Utah, by M. K. Sharp, D. E. Yule, and D. K. Butler	AD A224 175
MP GL-90-7	Jun 1990	Condition Survey and Paver Implementation, Edwards Air Force Base (North Base), California, by R. A. Bentsen	AD A224 978
MP GL-90-8*	Jun 1990	Condition Survey, Biggs Army Airfield, Fort Bliss, Texas, by D. D. Mathews	AD B145 867
MP GL-90-9	Jun 1990	Condition Survey and Paver Implementation, Edwards Air Force Base, California, by R. A. Bentsen	AD A224 979
MP GL-90-10		Corps of Engineers Strong-Motion Instrumentation Program:	
	Jul 1990	Report 1 Earthquake Response Spectral Analysis of Arkabutla Dam, Mississippi, by F. K. Chang	AD A226 231
MP GL-90-11*	Jul 1990	Condition Survey, Simmons Army Airfield, Fort Bragg, North Carolina, by T. B. Rosser III	AD B147 475
MP GL-90-12	Aug 1990	Condition Survey and Paver Implementation, Edwards, Air Force Base (South Base), California, by R. A. Bentsen	AD A226 302
MP GL-90-13	Aug 1990	Condition Survey and Paver Implementation, Cannon Air Force Base, New Mexico, by W. P. Grogan	AD A227 117
MP GL-90-14*	Aug 1990	Condition Survey, Allen Army Airfield, Fort Greely, Alaska, by D. D. Mathews	AD B147 958
MP GL-90-15*	Sep 1990	Nondestructive Pavement Testing and Evaluation: Facilities Engineering Applications Program (FEAP) Demonstration, by W. P. Grogan	AD B148 816
MP GL-90-16*	Sep 1990	Condition Survey, Wainwright Army Airfield (Fort Wainwright), Fairbanks, Alaska, by J. A. Harrison	AD B149 056

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-90-17	Sep 1990	The Influence of Soil Suction on the Shear Strength of Unsaturated Soil, by R. W. Peterson	AD A229 815
MP GL-90-18*	Sep 1990	Evaluation of Fiberglass-Reinforced Plastic (FRP) Panels, by R. W. Grau and P. S. McCaffrey, Jr.	AD B148 483
MP GL-90-19	Sep 1990	Foundation Investigation of the Upstream Switchyard of Wilson Dam Powerplant: Microgravity Survey, by D. E. Yule, D. K. Butler, and M. K. Sharp	AD A227 708
MP GL-90-20*	Sep 1990	Condition Survey, Cairns Army Airfield, Fort Rucker Alabama, by T. B. Rosser III	AD B149 791L
MP GL-90-21	Sep 1990	Effects of Variable Tire Pressure on Road Surfacing, by R. W. Grau	AD A227 860
MP GL-91-1*	Jan 1991	Condition Survey, Los Alamitos Army Airfield, Los Alamitos, California, by D. D. Mathews	AD B152 681
MP GL-91-2*	Jan 1991	Condition Survey, Godman Army Airfield, Fort Knox, Kentucky, by D. D. Mathews	AD B152 726
MP GL-91-3	Feb 1991	Literature Review on Geotextiles to Improve Pavements for General Aviation Airports, by D. W. White, Jr.	AD A232 871
MP GL-91-4	Feb 1991	Condition Survey and Paver Implementation, Davis-Monthan Air Force Base, Arizona, by T. B. Rosser III	AD A233 396
MP GL-91-5		Engineer Model Improvement Program:	
*	Feb 1991	Report 5 Combat Simulation of Gap and River Crossings: Engineer Considerations, by P. F. Hadala, D. A. Horner, and T. C. Dean	AD B154 384
MP GL-91-6	Mar 1991	Geophysical Surveys for Location of a Suspected Abandoned Mine Opening: Grays Landing Site, by D. K. Butler and T. B. Kean, II	AD A235 416
	Apr 1991	Errata Sheet No. 1	
MP GL-91-7	Mar 1991	Wave Analysis of Mat Foundations to Resist Differential Soil Movements, by L. D. Johnson	AD A234 565
MP GL-91-8*	Mar 1991	Trafficability Tests with the USSR ZIL Model 131, 3-1/2-ton, 6x6 Truck, by C. R. May	AD B154 469
MP GL-91-9*	Mar 1991	Pavement Crack and Joint Sealant Evaluation for FY 89 and FY 90, by L. N. Lynch	AD B154 479

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-91-10*	Mar 1991	Evaluation of Skipped Zones for the Combat Engineer Vehicle Mine Rake, by J. V. Farr, R. B. Ahlvin, and R. M. Drinkard	AD B154 749
MP GL-91-11	Apr 1991	Geophysical Investigation at an Existing Landfill, Badger Army Ammunition Plant, Baraboo, Wisconsin, by C. B. Whitten and K. J. Sjostrom	AD A236 176
MP GL-91-12	May 1991	Large Centrifuge: A Critical Army Capability for the Future, by R. H. Ledbetter	AD A243 287
MP GL-91-13	Jun 1991	Investigation of Airfield Runways at Jacksonville Naval Air Station, by R. C. Ahlrich	AD A238 954
MP GL-91-14*	Jun 1991	Modification of Air Transportable Airfield Damage Repair Kit, by C. J. Smith	AD B157 210
MP GL-91-15	Jul 1991	Pavement Marking Types and Application, by L. N. Lynch	AD A240 189
MP GL-91-16	Aug 1991	Compaction Characteristics of Earth-Rock Mixtures, by V. H. Torrey III and R. T. Donaghe	AD A242 217
MP GL-91-17	Aug 1991	Geological, Geomorphological, and Geotechnical Aspects of the Marchand Levee Failure, Marchand, Louisiana, by J. B. Dunbar and V. H. Torrey III	AD A241 428
MP GL-91-18*	Aug 1991	Airfield Pavement Failure Report for Runway 04-22 and Associated Taxiways and Aprons at Campbell Army Airfield, Fort Campbell, Kentucky, by R. W. Grau, J. A. Harrison, and P. S. McCaffrey, Jr.	AD B158 223L
MP GL-91-19*	Aug 1991	Cape Canaveral Air Force Station Skid Strip Pavement Failure Investigation, by J. W. Hall, Jr., and J. C. Potter	AD B175 733L
MP GL-91-20	Sep 1991	Investigation of Airfield Pavement Failure at Cairo East Air Base, by R. C. Ahlrich	AD A241 492
MP GL-91-21*	Sep 1991	Airfield Pavement Evaluation, Wideawake Airfield, Ascension Island, by J. A. Harrison	AD B159 070
MP GL-92-1	Jan 1992	Development of Failure Criteria of Flexible Pavement Thickness Requirements for Military Roads and Streets, Elastic Layered Method, by Y. T. Chou	AD A245 701
MP GL-92-2*	Jan 1992	Dust Control in Desert Environments, by R. H. Grau, A. J. Bush III, D. L. Coleman, et al.	AD B161 671

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-92-3	Jan 1992	Geotechnical Centrifuge Used at University of Cambridge Geotechnical Centre, August-September 1991, by P. A. Gilbert	AD A246 490
MP GL-92-4	Feb 1992	User's Guide: Structural Enhancement of Railroad Track, by D. M. Coleman	AD A269 527
MP GL-92-5	Feb 1992	Geophysical Investigation at Solid Waste Management Unit No. 3, Fort Buchanan, Puerto Rico, by J. L. Llopis and M. K. Sharp	AD A247 104
MP GL-92-6	Apr 1992	Geogrid Reinforced Base Courses for Flexible Pavements for Light Aircraft: Literature Review and Test Section Design, by S. L. Webster	AD A251 370
MP GL-92-7	Mar 1992	User's Guide: Nondestructive Pavement Evaluation, by W. P. Grogan	AD A268 683
MP GL-92-8	Jun 1992	Geophysical Investigation at Philadelphia Naval Shipyard, by M. K. Sharp	AD A250 594
MP GL-92-9	Mar 1992	User's Guide: Dustproofing Unsurfaced Areas, by R. H. Grau	AD A268 684
MP GL-92-10	Apr 1992	Evaluation of Grounding and Mooring Points for Army Aircraft, by R. H. Grau and D. L. Cooksey	AD A250 749
MP GL-92-11	May 1992	Stability of Open-Graded Bases Under Wheel Loads Using A Model Testing Approach, by C. R. Gonzalez	AD A253 209
MP GL-92-12	Jun 1992	Reconnaissance Report: Flooding Resulting from Typhoon Uring in Ormoc City, Leyte Province, The Philippines, by M. L. Pearson and J. G. Oliver	AD A269 264
MP GL-92-13		ALBE Geographic Information System/User Interface/Graphics:	
*	May 1992	Volume I Programmer's Guide (Version 1.0), by T. C. Falls, C. D. Butler, B. T. Webb, et al.	
*	May 1992	Volume II Library Reference (Version 1.0), T. C. Falls, C. D. Butler, B. T. Webb, et al.	
MP GL-92-14	Jun 1992	User's Guide: Fuel-Resistant Pavement Sealers, by J. E. Shoenberger	AD A269 512
MP GL-92-15	Jun 1992	User's Guide: Pavement Joint and Crack Sealing Using Field-Molded Sealants, by L. N. Lynch	AD A259 317

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-92-16	Jun 1992	User's Guide: Geotextiles as Separation Layers in Pavement Structures, by J. E. Shoenberger	AD A264 650
MP GL-92-17	Jul 1992	A Case Study: Damage to the Metropolitan Oakland International Airport Caused by the Loma Prieta Earthquake, by B. A. Vallerga and W. P. Grogan	AD A269 386
MP GL-92-18	Jul 1992	A Computer Program for the Calculation of the Equivalent Single-Wheel Load Factor, by C. R. Gonzalez	AD A269 577
MP GL-92-19	Aug 1992	User's Guide: Cracking and Seating of Portland Cement Concrete Pavements, by R. C. Ahlrich	AD A264 905
MP GL-92-20	Aug 1992	User's Guide: Asphalt Rubber and Geotextile Interlayers, by R. C. Ahlrich	AD A264 781
MP GL-92-21*	Jul 1992	ALBE Tactical Decision Aid (TDA) User's Guide (Version 1.0), T. C. Falls, C. D. Butler, B. T. Webb, et al.	
MP GL-92-22*	Aug 1992	Pavement Investigation at Mississippi Army Ammunition Plant, by T. W. Vollar and R. T. Graham	AD B167 037
MP GL-92-23	Aug 1992	Kwajalein Drydock Pile Foundation Analysis, by L. D. Johnson	AD A255 081
MP GL-92-24	Aug 1992	User's Guide: Subsurface Drainage for Military Pavements, by W. P. Grogan	AD A264 904
MP GL-92-25*	Aug 1992	Airfield Pavement Evaluation, Sampson Field, Seneca Army Depot, New York, by T. B. Rosser	
MP GL-92-26*	Aug 1992	Airfield Pavement Evaluation, Vilseck Army Airfield, Vilseck, Federal Republic of Germany, by P. S. McCaffrey, Jr.	AD B175 707
MP GL-92-27*	Aug 1992	Airfield Pavement Evaluation, Harvey Barracks Army Airfield, Kitzingen, Federal Republic of Germany, by P. S. McCaffrey, Jr.	AD B175 791L
MP GL-92-28*	Aug 1992	Establishment of Test Courses for Palletized Loading System Vehicle Operational Tests, by R. H. Johnson and D. W. Moore	AD B168 658
MP GL-92-29	Sep 1992	User's Guide: Pavement Markings, by L. N. Lynch	AD A269 316
MP GL-92-30	Sep 1992	User's Guide: Cold-Mix Recycling of Asphalt Concrete Pavements, by J. E. Shoenberger	AD A256 593

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-92-31	Sep 1992	McCON--A General Contouring Program for Personal Computers, by J. B. Palmerton	AD A258 425
MP GL-92-32	Sep 1992	Reanalysis of Multiple-Wheel Landing Gear Traffic Tests, by R. G. Ahlvin and J. W. Hall, Jr.	AD A256 593
MP GL-92-33*	Sep 1992	Airfield Pavement Evaluation, Grafenwoehr Army Airfield. Grafenwoehr, Federal Republic of Germany, by P. S. McCaffrey, Jr.	AD B175 792L
MP GL-92-34	Sep 1992	Geophysical Investigation at Dugway Proving Ground, Utah, by J. L. Llopis and J. S. Zawila	AD A257 098
MP GL-92-35	Sep 1992	Effect of Sampling Disturbance on Laboratory-Measured Soil Properties, by P. A. Gilbert	AD A257 268
MP GL-92-36	Sep 1992	ALBE Tactical Decision Aid (TDA) User's Guide (Version 2.0), by S. Bussels, G. Blaisdell, T. Blyer, and R. Bradley	
MP GL-92-37		ALBE Geographic Information System/User Interface/ Graphics:	
*	Sep 1992	Volume II Library Reference (Version 2.0), by T. C. Falls, C. D. Butler, B. T. Webb, et al.	
MP GL-92-38	Dec 1992	Use of the Site Characterization and Analysis Penetrometer System at Grandville, Michigan, Superfund Site, by M. K. Sharp, Raju Kala, and Jeff Powell	AD A260 973
MP GL-92-39	Dec 1992	Field Evaluation of the Site Characterization and Analysis Penetrometer System at Philadelphia Naval Shipyard, Philadelphia, Pennsylvania, by M. K. Sharp, R. S. Olsen, Raju Kala, and Jeff Powell	AD A262 506
MP GL-92-40	Dec 1992	Proceedings of the Government Users Workshop on Ground Penetrating Radar Applications and Equipment, 26-27 March 1992, Vicksburg, Mississippi, by D. K. Butler	AD A261 873
MP GL-92-41		ALBE Geographic Information System/User Interface/ Graphics:	
*	Dec 1992	Volume I Programmer's Guide (Version 2.0), by C. D. Butler, T. C. Falls, B. T. Webb, et al.	AD B172 912
MP GL-93-1	Jan 1993	User's Guide: Concrete Block Pavement, by G. L. Anderton	

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP GL-93-2	Mar 1993	Soil Sampling Program at Solid Waste Management Unit No. 3, Fort Buchanan, Puerto Rico, by J. L. Llopis	AD A263 553
MP GL-93-4*	Mar 1993	Airfield Pavement Evaluation, Sinop Army Airfield, Field Station Sinop, Turkey, by R. W. Grau and P. S. McCaffrey, Jr.	AD B174 436L
MP GL-93-5	May 1993	User's Guide: Hot-Mix Recycling of Asphalt Concrete Pavements, by J. E. Shoenberger	AD A266 939
MP GL-93-6	May 1993	Geophysical and Archaeological Investigations for Location of a Historic Cemetery, Fort Stewart, Georgia, by D. K. Butler, J. L. Llopis, and F. L. Briuer	AD A267 096

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-79-1	Jan 1979	An Assessment of the Inland Water Crossing Performance of Selected Tactical Support Vehicles (WACROSS), by C. J. Nuttall, Jr.	AD A065 409
TR GL-79-2	Mar 1979	Traffic Tests of Expedient Airfield Construction Concepts for Possible Application in the National Petroleum Reserve Alaska (NPRA), by C. D. Burns	AD A069 581
TR GL-79-3*	Mar 1979	Ride and Shock Test Results and Mobility Assessment of Selected 1/4- to 1-1/4-Ton Vehicles, by J. H. Robinson, D. D. Randolph, and B. G. Schreiner	AD B037 460L
TR GL-79-4	Apr 1979	Development of a Structural Design Procedure for Rigid Airport Pavements, by Frazier Parker, Jr., W. R. Barker, R. C. Gunkel, and E. C. Odom	AD A069 548
TR GL-79-5*	May 1979	Ride and Shock Test Results and Mobility Assessment of Selected 10-Ton Cargo Trucks, by B. G. Schreiner and D. D. Randolph	AD B039 606L
TR GL-79-6	May 1979	A Terrain-Vehicle Interaction Model for Analysis of Steering Performance of Track-Laying Vehicles, by G. Y. Baladi and Behzad Rohani	AD A072 815
Unnumbered	Jul 1979	Evaluation of Materials for Contingency Runways, by C. L. Rone, A. L. Sullivan, and J. H. Shamburger (published as Civil and Environmental Engineering Development Office Technical Report No. 78-46)	AD A073 679
TR GL-79-7		Engineering Geology and Geomorphology of Stream-bank Erosion:	
	Sep 1979	Report 1 Eel River Basin, California, by L. M. Smith and D. M. Patrick	AD A075 729
	Oct 1981	Report 2 Yazoo River Basin Uplands, Mississippi, by C. B. Whitten and D. M. Patrick	AD A114 662
	Feb 1982	Report 3 The Application of Waterborne Geophysical Techniques in Fluvial Environments, by J. R. May	AD A114 656
	Sep 1982	Report 4 Supplemental Update to Report 3, by J. R. May	AD A119 835

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-79-8	Jul 1979	Analysis of Grid Cell Reinforced Pavement Bases, by J. K. Mitchell, T-C. Kao, and Edward Kavazanjian, Jr.	AD A073 137
TR GL-79-9*	Jul 1979	Ride and Shock Test Results and Mobility Assessment of Czechoslovakia TATRA 13, U. S. M520E 1 GOER, and U. S. M656 Cargo Trucks, by B. G. Schreiner and D. D. Randolph	AD B040 135L
TR GL-79-10*	Jul 1979	Mobility Performance of the GL-CM Candidate Vehicles and Other Selected Vehicles, by D. D. Randolph	AD B040 463L
TR GL-79-11	Aug 1979	Evaluation of Drilled and Grouted-in-Place Dowels for Load Transfer of Portland Cement Concrete, Tyndall Air Force Base, Florida, by R. W. Grau	AD A075 112
TR GL-79-12	Sep 1979	Use of Lime in Levee Restoration, by F. C. Townsend	AD A075 787
TR GL-79-13	Sep 1979	Evaluation of Sample Disturbance on Soils Using the Concept of "Reference Strain," by V. P. Drnevich	AD A077 913
TR GL-79-14	Sep 1979	Susceptibility of Dispersive Clay at Grenada Dam, Mississippi, to Piping and Rainfall Erosion, by E. B. Perry	AD A076 007
TR GL-79-15	Sep 1979	Rational Design of Tunnel Supports: An Interactive Graphics Based Analysis of the Support Requirements of Excavations in Jointed Rock Masses, by M. D. Voegele	AD A084 693
TR GL-79-16	Sep 1979	Evaluation of Effects of Panama Canal Deepening Upon the Stability of La Pita Hill, by W. O. Miller	AD A075 778
TR GL-79-17*	Sep 1979	Ride and Shock Test Results and Mobility Assessment of German M.A.N., U.S. M520E 1 GOER, and U.S. M656 Cargo Trucks, by B. G. Schreiner and D. D. Randolph	AD B041 656L
TR GL-79-18	Sep 1979	Centrifugal Model Analysis of Coal Waste Embankment Stability, by F. C. Townsend, D. J. Goodings, A. N. Schofield, and M. M. Al-Hussaini	
TR GL-79-19	Sep 1979	Tunnel Design by Rock Mass Classifications, by Z. T. Bieniawski	AD A076 540
TR GL-79-19	Jan 1990 Revised	Tunnel Design by Rock Mass Classifications, by Z. T. Bieniawski	AD A219 783

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-79-20		Investigation of Beach Sand Trafficability Enhancement Using Sand-Grid Confinement and Membrane Reinforcement Concepts:	
	Nov 1979	Report 1 Sand Test Sections 1 and 2, by S. L. Webster	AD A078 652
	Feb 1979	Report 2 Sand Test Sections 3 and 4, by S. L. Webster	AD A098 383
TR GL-79-21	Nov 1979	Utilization of Marginal Construction Materials for LOC, by R. W. Grau	AD A078 725
TR GL-79-22	Nov 1979	Geotechnical Properties of Oil Shale Retorted by the PARAHO and TOSCO Processes, by F. C. Townsend and R. W. Peterson	AD A082 317
TR GL-79-23	Sep 1979	Geotechnical Containment Alternatives for Industrial Waste Basin F, Rocky Mountain Arsenal, Denver, Colorado; A Quantitative Evaluation, by S. P. Miller	AD A083 631
TR GL-79-24	Dec 1979	Field Tests of Plastic Pipe for Airport Drainage Systems, by W. J. Horn	AD A087 135
TR GL-80-1		Nondestructive Testing for Light Aircraft Pavements:	
	Jan 1980	Phase I Evaluation of Nondestructive Testing Devices, by A. J. Bush III	AD A083 597
TR GL-80-2	Mar 1980	Analytical and Graphical Methods for the Analysis of Slopes in Rock Masses, by A. J. Hendron, Jr., E. J. Cording, and A. K. Aiyer	AD A084 685
TR GL-80-3	Mar 1980	Documentation and Analysis of Rock Island Underseepage Data, by R. W. Cunny	AD A083 138
TR GL-80-4	Jun 1980	Evaluation of Geophysical Methods for Cavity Detection at the WES Cavity Test Facility, by D. K. Butler and W. L. Murphy	AD A088 101
TR GL-80-5	Jul 1980	Development of a Quantitative Method to Predict Critical Shear Stress and Rate of Erosion of Natural Undisturbed Cohesive Soils, by Kandiah Arulanandan, Ernest Gillogley, and Ryan Tully	AD A091 716
TR GL-80-6	Sep 1980	Partial Field Validation of the Surfzone Transition Analytical Methodology (STAM), by G. W. Turnage	AD A090 720

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-80-7*	Oct 1980	Test Areas for High Mobility/Agility (HIMAG) Chassis Test Program, by B. G. Schreiner and C. E. Green	AD B053 529L
TR GL-81-1	Jan 1981	Ride Test Results for the FAMECE Dumper and Comparison Vehicles, by W. E. Willoughby	AD A096 261
TR GL-81-2	Jan 1981	15 Mile Road/Edison Corridor Sewer Tunnel Failure Study, Detroit Area, Michigan, by Dick Albert, G. C. Hoff, Brian Lorence, et al.	AD A096 440
TR GL-81-3*	Mar 1981	Ride and Shock Test Results and Mobility Predictions of the Swedish Scania SBAT III Cargo Truck, by B. G. Schreiner	AD B057 072L
TR GL-81-4	May 1981	Field Test Sections on Expansive Soil, by L. D. Johnson	AD A100 474
TR GL-81-6		Structural Analysis Computer Programs for Rigid Multi-Component Pavement Structures with Discontinuities--WESLIQID AND WESLAYER:	
	May 1981	Report 1 Program Development and Numerical Presentations, by Y. T. Chou	AD A104 545
	May 1981	Report 2 Manual for the WESLIQID Finite Element Program, by Y. T. Chou	AD A104 546
	May 1981	Report 3 Manual for the WESLAYER Finite Element Program, by Y. T. Chou	AD A104 547
TR GL-81-7	Aug 1981	C-5A Operational Utility Evaluation Soil Tests and Analysis, by R. W. Grau	AD A105 555
TR GL-81-8	Sep 1981	Evaluation of Quality and Performance of Stone as Riprap or Armor, by R. J. Luton, B. J. Houston, and J. B. Warriner	AD A107 901
TR GL-81-9*	Sep 1981	Mobility Performance of the German M.A.N. 10-Ton Tractor when Towing GL-CM Semitrailers, by D. D. Randolph, R. P. Smith, and R. G. Temple	AD B060 123L
TR GL-81-10	Oct 1981	Tunnel Cost-Estimating Methods, by R. D. Bennett	AD A107 890
TR GL-81-11	Oct 1981	Investigation of Compaction Criteria for Airport Pavement Subgrade Soils, by W. N. Brabston	AD A108 518

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-81-12		Bomb Crater Repair Techniques for Permanent Airfields:	
	Oct 1981	Report 1 Series 1 Tests, by D. L. Cooksey	AD A108 716
	Oct 1985	Report 2 Series 2 and 3 Tests, by S. J. Alford and G. M. Hammitt II	AD A164 394
	Oct 1985	Report 3 Series 4 Tests, by S. J. Alford and G. M. Hammitt II	AD A164 682
TR GL-81-13		Armored Combat Vehicle Technology (ACVT) Program:	
*	Nov 1981	Volume I Results of HIMAG Chassis Tests, by N. R. Murphy, Jr.	
*	Nov 1981	Volume II Data from HIMAG Chassis Tests, by N. R. Murphy, Jr.	
TR GL-82-1	Mar 1982	Study to Investigate the Effects of Skin Friction on the Performance of Drilled Shafts in Cohesive Soils, by Woodward-Clyde Consultants, Houston, Texas. In 3 volumes	AD A114 305
TR GL-82-2		Natural Processes Influencing Terrain Attributes:	
	Jun 1982	Report 1 Prediction of Residual Soil Texture in Humid Temperate Climates of the Federal Republic of Germany and Selected Analogous Portions of the United States--Pilot Study, by W. K. Dornbusch, Jr.	AD A116 939
TR GL-82-3	Jul 1982	New Pressure Test for Determining Coefficient of Permeability of Rock Masses, by R. D. Bennett and R. F. Anderson	AD A116 982
TR GL-82-4	Jun 1982	Stearability Analysis of Tracked Vehicles on Soft Soil; Theoretical Predictions Versus Field Measurements, by Behzad Rohani and G. Y. Baladi	AD A117 834
TR GL-82-5*	Jun 1982	Mobility Assessment of German M.A.N. 10-Ton Tractors Towing Pershing Semitrailers, by D. D. Randolph and R. G. Temple	AD B066 219L
TR GL-82-6		Regional Groundwater Study of Rocky Mountain Arsenal, Denver, Colorado:	
*	Jul 1982	Report 1 Hydrogeological Definition, by J. H. May	AD B068 471L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-82-6* (Cont.)	Sep 1984	Report 2 Contaminant Distribution, by P. A. Spaine, D. W. Thompson, and J. H. Dildine	AD B086 321L
TR GL-82-7	Sep 1982	Membrane-Soil Composite Layers in the Design, Construction, and Performance of an Expedient Bridge and Approach, by G. L. Regan	AD A120 563
TR GL-82-8	Sep 1982	The PQS Probe: Simultaneous Measurement of Penetration Resistance and Pore Pressure, by S. S. Cooper and A. G. Franklin	AD A120 422
TR GL-82-9	Sep 1982	Tunnel Detection, by R. F. Ballard, Jr.	AD A121 447
TR GL-82-10	Sep 1982	Mobility Analysis of Selected Lightweight Armored Wheeled Concept Vehicles, by D. D. Randolph and Keafur Grimes	AD A120 737
TR GL-82-11		MX Road Design Criteria Studies:	
*	Sep 1982	Report 2 Investigation of a Proprietary Material for Dust Control, by C. R. Styron III and A. C. Spivey, Jr.	AD P069 056L
TR GL-82-12		Mobility Assessment of the Roland Wheeled Vehicle System:	
	Nov 1982	Report 1 Results of Field Tests, by B. G. Schreiner and C. E. Green	AD A123 287
	Sep 1982	Report 2 Mobility Assessment Using the Army Mobility Model, by Keafur Grimes and D. D. Randolph	AD A121 483
TR GL-83-1		Cavity Detection and Delineation Research:	
	Mar 1983	Report 1 Microgravimetric and Magnetic Surveys: Medford Cave Site, Florida, by D. K. Butler	AD A124 574
	Jun 1983	Report 2 Seismic Methodology: Medford Cave Site, Florida, by J. R. Curro, Jr.	AD A131 322
	May 1983	Report 3 Acoustic Resonance and Self-Potential Applications: Medford Cave and Manatee Springs Sites, Florida, by S. S. Cooper	AD A130 822
	Mar 1983	Report 4 Microgravimetric Survey: Manatee Springs Site, Florida, by D. K. Butler, C. B. Whitten, and F. L. Smith	AD A125 900

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-83-1 (Cont.)	Jan 1983	Report 5 Electromagnetic (Radar) Techniques Applied to Cavity Detection, by R. F. Ballard, Jr.	AD A132 923
TR GL-83-2*	Jan 1983	Mobility Performance of Candidate Vehicles for Corps Support Weapon System, by R. P. Smith	AD B071 566L
TR GL-83-3	Mar 1983	Concrete Block Pavements, by R. S. Rollings	AD A129 535
TR GL-83-4	Apr 1983	Evaluation of the Erosion Potential of Embankment Core Materials Using the Laboratory Triaxial Erosion Test Procedure, by R. L. Sanchez, A. I. Strutynsky, and M. L. Silver	AD A130 977
TR GL-83-5	Sep 1983	Surface and Subsurface Geologic Conditions Along Selected Reaches of the Mississippi River from Rosedale, Miss. to Lake Providence, La., by W. L. Murphy	AD A133 099
TR GL-83-6*	Aug 1983	Ride and Shock Test Results and Mobility Performance Evaluation of Small Emplacement Excavator (SEE) Tractor in Selected Study Areas, by C. E. Green, D. D. Randolph, and Keafur Grimes	AD B076 525L
TR GL-83-7*	Aug 1983	Ride and Shock and Limited Drawbar Test Results of the Truck Tractor, 10-Ton, 8x8, M.A.N. with GLCM Semitrailer, by J. H. Robinson	AD B077 516L
TR GL-83-8*	Aug 1983	Mobility Comparison of the High-Mobility Multipurpose Wheeled Vehicles (HMMWV) and the Commercial Utility Cargo Vehicles (CUCV), by R. P. Smith	AD B076 556L
TR GL-83-9*	Aug 1983	Mobility Performance of the GLCM/TEL and Other Selected Vehicles in the Mid-East and Far East Study Areas, by Keafur Grimes	AD B077 142L
TR GL-83-10*	Sep 1983	Ride and Shock Test Results and Mobility Assessment of HMMWV Candidate Vehicles, by C. E. Green, D. D. Randolph, and Keafur Grimes	AD B077 158L
TR GL-83-11*	Sep 1983	Hydrogeology of Basin A/South Plants Area, Rocky Mountain Arsenal, Denver, Colorado, Phase I, by J. H. May, J. D. Crabtree, R. W. Hunt, and W. L. Murphy	AD B077 543L
TR GL-83-12*	Sep 1983	Adaptation and Condensation of the Army Mobility Model for Cross-Country Mobility Mapping, by G. W. Turnage and J. L. Smith	AD B077 797L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-83-13	Oct 1983	Design of Gravity Dams on Rock Foundations: Sliding Stability Assessment by Limit Equilibrium and Selection of Shear Strength Parameters, by G. A. Nicholson	AD A137 225
TR GL-83-14	Oct 1983	In Situ and Laboratory Shear Devices for Rock: A Comparison, by G. A. Nicholson	AD A137 226
TR GL-83-15	Sep 1983	In Situ Determination of Liquefaction Potential Using the PQS Probe, by W. E. Norton	AD A136 853
TR GL-83-16	Oct 1983	Repair and Restoration of Paved Surfaces; FY 82, Phase II, Backfilling of Craters, by V. C. Barber	AD A135 745
TR GL-83-17*	Dec 1983	Results of Soft-Soil, Acceleration, Turning, and Maneuver Tests with WES M113/2E HOTROD, GM XM1, GM ATR, and a Contemporary M113, by C. E. Green	AD B081 029L
TR GL-83-18	Dec 1983	Development of Probabilistic Rigid Pavement Design Methodologies for Military Airfields, by M. W. Witczak, J. Uzan, and M. Johnson	AD A138 212
TR GL-83-19*	Dec 1983	Mobility Assessment of Mobile Protected Weapons System (MPWS) Candidate Vehicles, by D. D. Randolph and Keafur Grimes	AD B079 676L
TR GL-84-1		Steerability Analysis of Multiaxial Wheeled Vehicles:	
	Jan 1984	Report 1 Development of a Soil-Wheel Interaction Model, by G. Y. Baladi, Behzad Rohani, and D. E. Barnes	AD A144 696
TR GL-84-2	Feb 1984	Evaluation of Properties of Recycled Asphalt Concrete Hot Mix, by E. R. Brown	AD A140 479
TR GL-84-3*	Feb 1984	Mobility Test Results for the Light Armored Vehicles (LAV) at Twentynine Palms, California, by W. E. Willoughby	AD B083 124L
TR GL-84-4	Feb 1984	Effects of Military Traffic on Buried, High-Pressure Pipe, by J. C. Potter	AD A140 319
TR GL-84-5	Mar 1984	Methodology for Design and Construction of Drilled Shafts in Cohesive Soils, by L. D. Johnson	AD A144 419
TR GL-84-6	Jun 1984	Engineering Criteria for Use of Geotextile Fabrics in Pavement and Railroad Construction, by R. H. Grau	AD A144 813

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-84-7	Jun 1984	Geological-Seismological Evaluation of Earthquake Hazards at Surry Mountain Damsite, New Hampshire, by E. L. Krinitzsky	AD A143 097
TR GL-84-8	Jun 1984	Geological-Seismological Evaluation of Earthquake Hazards at West Thompson Damsite, Connecticut, by E. L. Krinitzsky	AD A143 078
TR GL-84-9*	Sep 1984	Results of Mobility Tests on the Surrogate Fast Attack Vehicle, by R. H. Gillespie	AD B019 276L
TR GL-84-10	Sep 1984	Investigation of Density Variation in Triaxial Test Specimens of Cohesionless Soil Subjected to Cyclic and Monotonic Loading, by P. A. Gilbert	AD A148 944
TR GL-84-11*	Sep 1984	Tactical Mobility Study, by J. H. Robinson and T. C. Dean	AD B087 564L
	Feb 1985	Errata Sheet No. 1	
TR GL-84-12*	Sep 1984	Mobility Test Results of the Tracked Armor Protected Amphibious Vehicle, LVTP7, by C. E. Green	AD B088 053L
TR GL-84-13	Oct 1984	Foundaouon Grouting Practices at Corps of Engineers Dams, by John Albritton, Lawson Jackson, and Robert Bangert	AD A152 527
TR GL-84-14		Engineering Geology of Selected Areas, U.S. Army Engineer Division, Lower Mississippi Valley:	
	Dec 1984	Report 1 The American Bottom Area, MO-IL:	
		Volume I Main Text, by L. M. Smith and F. L. Smith	AD A154 258
		Volume II Plates, by L. M. Smith and F. L. Smith	
TR GL-85-1	Jan 1985	State-of-the-Art Construction Technology for Deep Tunnels and Shafts in Rock, by R. D. Bennett, H. J. Hignett, Stig Johansson, et al.	
TR GL-85-2	Mar 1985	Nondestructive Tests for the Evaluation of Railroad Track Foundations and Lime Slurry Pressure Injection Stabilization, by R. H. Ledbetter	AD A157 453

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-85-3	Apr 1985	Geotechnical Descriptions of Rock and Rock Masses, by W. L. Murphy	AD A157 493
TR GL-85-4*	Apr 1985	Mobility Assessment of the Heavy Expanded Mobility Tactical Truck (HEMTT) Initial Production Vehicles, by B. G. Schreiner, D. W. Moore, and Keafur Grimes	AD B093 140L
TR GL-85-5		The Vaiont Slide, A Geotechnical Analysis Based on New Geologic Observations of the Failure Surface:	
	Jun 1985	Volume I Main Text, by A. J. Hendron, Jr., and F. D. Patton	AD A158 192
	Jun 1985	Volume II Appendixes A through G, by A. J. Hendron, Jr., and F. D. Patton	AD A158 193
TR GL-85-6*	May 1985	Field Test Results and Mobility Predictions for the Yugoslav FAP 2026 Cargo Truck, by B. G. Schreiner	AD B094 298L
TR GL-85-7*	Jun 1985	Mobility Performance of the BV206, M116AAI, M116WES, M113SIT, and Standard M113, by C. E. Green and G. L. Mason, Jr.	AD B094 172L
TR GL-85-8	Jun 1985	A Review of Developments in Agricultural Science Applicable to Military Soil Moisture Prediction Requirements, by L. F. Hall	AD A157 670
TR GL-85-9	Sep 1985	Strength and Deformation Properties of Earth-Rock Mixtures, by R. T. Donaghe and V. H. Torrey III	AD A160 701
TR GL-85-10*	Sep 1985	Feasibility of Acoustic/Seismic Assessment of Damage and Hazards During Rapid Excavation Associated with Deep-Based Facilities, by D. K. Butler	AD B096 714
TR GL-85-11	Sep 1985	Dustproofing Unsurfaced Areas; Facilities Technology Application Test Demonstrations, FY 84, by C. R. Styron III, R. A. Hass, and Karen Kelley	AD A163 161
TR GL-85-12*	Sep 1985	Development of a Terrain and Road Data Base for HML Transporter Concepts, by G. L. Mason, Jr., R. P. Smith, M. W. Gray, and R. B. Ahlvin	AD B096 658L
TR-GL-85-13*	Oct 1985	Severity Ranking of Courses Used for High-Mobility Multipurpose Wheeled Vehicle (HMMWV) Tests at Camp Roberts, Fort Hunter Liggett, and Aberdeen Proving Ground, by C. J. Nuttall, Jr., C. E. Green, T. C. Dean, and M. W. Gray	AD B098 079L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-86-1		Correlation of Nondestructive Pavement Evaluation Test Results of Conventional Quality Control and In-Situ Strength Tests on an MX Road Test Section:	
	Feb 1986	Volume I Main Text, by D. R. Alexander	AD A167 672
	Feb 1986	Volume II Appendix A, by D. R. Alexander	AD A167 671
TR GL-86-2*	Mar 1986	Results of Mobility Tests on the Mobile Protected Gun System Improved Suspension Program, by R. H. Gillespie and N. R. Murphy, Jr.	AD B101 867L
TR GL-86-3		Geomorphological Investigation of the Atchafalaya Basin, Area West, Atchafalaya Delta, and Terrebonne Marsh:	
	Apr 1986	Volume I by Lawson Smith, Joseph Dunbar, and L. D. Britsch	AD A168 865
TR GL-86-4	May 1986	Pavement Recycling: Facilities Technology Application Test (FTAT) Demonstration, FY 84, Fort Gillem, Georgia, by Timothy Vollar	AD A169 284
TR GL-86-5	May 1986	Evaluation of Waterways Experiment Station Developed Aluminum Access/Egress Modules, by S. D. Triplett and D. W. White, Jr.	AD A171 511
TR GL-86-6		Evaluation and Repair of War-Damaged Port Facilities:	
	May 1986	Report 1 Port Construction History, Inspection Techniques, and Major Port Characteristics, by C. J. Smith	AD A170 416
TR GL-86-7		Seismic Stability Evaluation of Alben Barkley Dam and Lake Project:	
	Sep 1992	Volume I Summary Report, by R. E. Wahl and P. F. Bluhm	
	Jun 1986	Volume II Geological and Seismological Evaluation, by E. L. Krinitzsky	AD A170 665
	Mar 1989	Volume III Field and Laboratory Investigations, by R. S. Olsen, P. F. Bluhm, M. E. Hynes, et al.	AD A206 745
	Sep 1992	Volume IV Liquefaction Susceptibility Evaluation and Post-Earthquake Strength Determination, by R. E. Wahl, R. S. Olsen, P. F. Bluhm, et al.	AD A257 466

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-86-7 (Cont.)	Sep 1992	Volume V Stability Evaluation of Geotechnical Structures, by P. F. Bluhm, R. E. Wahl, and R. S. Olsen	AD A257 713
TR GL-86-8	Sep 1986	Geological-Seismological Evaluation of Earthquake Hazards at Prompton and Francis E. Walter Damsites, Pennsylvania, by E. L. Krinitzsky	AD A172 938
TR GL-86-10*	Jul 1986	Mobility Performance Evaluation of the First Article Preproduction SEE Tractor, by C. E. Green	AD B105 012L
TR GL-86-12	Jul 1986	Evaluation of Fleximat as an Assault Egress Surfacing, by S. D. Triplett	AD A171 621
TR GL-86-13	Jul 1986	The Large Strain, Controlled Rate of Strain (LRCRS) Device for Consolidation Testing of Soft Fine-Grained Soils, by K. W. Cargill	AD A171 591
TR GL-86-14	Sep 1986	Performance Prediction of Low Volume Airfield Pavement, by A. J. Bush III	AD A172 270
TR GL-86-15	Aug 1986	Probabilistic and Reliability Analysis of the California Bearing Ratio (CBR) Design Method for Flexible Airfield Pavements, by Y. T. Chou	AD A173 231
TR GL-86-16	Sep 1986	Geological-Seismological Evaluation of Earthquake Hazards at Franklin Falls Dam site, New Hampshire, by E. L. Krinitzsky and J. B. Dunbar	AD A173 230
TR GL-86-17	Oct 1986	Technical Evaluation Reports of Airfield Damage Repair Solution, by G. M. Hammitt II, J. W. P. Patin, and Robert Devens	AD A181 083
TR GL-86-18	Dec 1986	Comparison of Measures of Vibration Affecting Occupants of Military Vehicles, by N. R. Murphy, Jr., and F. H. Ahmad	AD A178 359
TR GL-86-19*	Nov 1986	Sand-Grid Demonstration Roads Constructed for JLOTS II Test at Fort Story, Virginia, by S. L. Webster	AD B108 654L
TR GL-86-20	Dec 1986	Dustproofing Unsurfaced Areas: Facilities Technology Application Test (FTAT) Demonstration, FY 85, by R. A. Hass	AD A176 861
TR GL-86-21		Evaluation and Repair of War-Damaged Port Facilities:	
	Oct 1986	Report 4 Concepts for Expedient War-Damage Repair of Pier and Wharf Support Structures, by Eastport International Inc.	AD A178 055

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-87-1*	Feb 1987	Mobility Performance of Candidate Vehicles for the Ground-Based Sensor Component of the Forward Area Air Defense System (FAADS), by J. H. Robinson, R. P. Smith, R. B. Ahlvin and A. B. Reaves	AD B109 587L
TR GL-87-2	Feb 1987	Investigation of Anchor Systems for the Mobile Aircraft Arresting System (MAAS), by G. L. Carr	AD A178 478
TR GL-87-3	Feb 1987	Advanced Construction Procedures; Confined Bases for Airport Pavements, by J. C. Potter	AD A174 851
TR GL-87-4	Mar 1987	Geological-Seismological Evaluation of Earthquake Hazards at Blackfoot Dam, Idaho, by E. L. Krinitzsky	AD A181 076
TR GL-87-5*	Mar 1987	Results of Mobility Tests with Nuclear, Biological, and Chemical Surrogate Reconnaissance Systems, by C. E. Green, D. M. Rogillio, and D. E. Strong	AD B113 300L
TR GL-87-6*	Mar 1987	Evaluation of the M2 Bradley Fighting Vehicle System (BFVS) Crossing Gaps in Selected Areas in the Federal Republic of Germany, by J. H. Robinson, T. C. Dean, R. F. Unger, and R. P. Smith	AD B110 728L
TR GL-87-7*		Stresses in M1 Tank Tracks:	
	Apr 1987	Report 1 Initial Field and Simulation Studies, by N. R. Murphy, Jr., A. S. Lessem, and B. E. Reed	AD B113 494L
TR GL-87-8	Apr 1987	Maximum Theoretical Specific Gravity of Bituminous Paving Mixtures, by R. R. Johnson and K. L. Kelley	AD A181 599
TR GL-87-9*	Apr 1987	Mobility Predictions of Selected Foreign Vehicles and Comparison U.S. Vehicles in the Federal Republic of Germany and the Middle East Study Areas, by P. A. Morris and T. C. Dean	AD B113 659L
TR GL-87-10	Apr 1987	Uniaxial Tensile Test for Soil, by D. A. Leavell and J. F. Peters	AD A183 770
TR GL-87-11*	May 1987	Digital Mobility-Terrain Data Base Development and Mobility Evaluations in the Puckapunyal and Batchelor Areas in Australia, by T. C. Dean, J. H. Robinson, and C. D. Bullock	AD B112 149L
TR GL-87-12		Evaluation and Repair of War-Damaged Port Facilities:	

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-87-12 (Cont.)	Jun 1987	Report 3 Concepts for Expedient War-Damaged Repair of Pier and Wharf Decking, by C. T. Jahren	AD A183 488
TR GL-87-13	Jul 1987	Geological Investigation of the Mississippi River Deltaic Plain: Land Loss and Land Accretion, by J. R. May and L. D. Britsch	
TR GL-87-14		Seismic Stability Evaluation of Folsom Dam and Reservoir Project:	
	Apr 1989	Report 2 Interface Zones, by D. W. Sykora and M. E. Hynes	AD A207 331
	Mar 1989	Report 3 Concrete Gravity Dam, by R. L. Hall, S. C. Woodson, and J. M. Nau	AD A205 949
	Mar 1988	Report 4 Mormon Island Auxiliary Dam - Phase I, by M. E. Hynes-Griffin, R. E. Wahl, R. T. Donaghe, and Takaski Tsuchida (includes Appendixes A-B)	AD A194 227
	Dec 1990	Report 4 Mormon Island Auxiliary Dam - Phase I; Update, by M. E. Hynes, R. E. Wahl, R. T. Donaghe, and Takashi Tsuchida	AD A230 279
	Nov 1988	Report 5 Seismic Stability Evaluation of Dike 5, by R. E. Wahl and M. E. Hynes	AD A201 387
	Apr 1989	Report 6 Right and Left Wing Dams, by R. E. Wahl, M. E. Hynes, D. E. Yule, and D. J. Elton	AD A206 660
	Jul 1988	Report 7 Upstream Retaining Wall, by H. J. Leeman, Jr., M. E. Hynes, W. V. Ellis, and Takashi Tsuchida	AD A199 450
	Oct 1988	Report 8 Mormon Island Auxiliary Dam - Phase II, by R. E. Wahl, S. G. Crawford, M. E. Hynes, et al.	AD A201 228
	Aug 1992	Report 8 Mormon Island Auxiliary Dam - Phase II; Update, by R. E. Wahl, S. G. Crawford, M. E. Hynes, et al.	AD A257 485
TR GL-87-15	Jul 1987	Comparative Study of Nondestructive Pavement Testing, MacDill Air Force Base, Florida, by J. W. Hall, Jr.	AD A186 082
TR GL-87-16*	Jul 1987	Mobility Assessment of U.S. and German Tracked Recovery Vehicles in the Federal Republic of Germany Study Area, by P. A. Morris and R. B. Ahlvin	AD B115 889L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-87-17*	Jul 1987	Soft Soil and Side Slope Field Test Results for the Ground-Launched Cruise Missile Transporter-Erector-Launcher, by R. F. Unger	AD B115 103L
TR GL-87-18	Aug 1987	Cost-Effective Surfacing for Tracked-Vehicle Traffic, by J. E. Shoenberger	AD A185 543
TR GL-87-19	Aug 1987	Dry-Soil Compaction Investigation, by W. N. Brabston	AD A185 485
TR GL-87-20*	Aug 1987	A Theoretical Study of the Radiation Patterns of a Tunnel-Boring Machine (Infinite Medium), by A. F. Gangi	AD B115 180L
TR GL-87-21*	Aug 1987	Survivable Tire Test Results, by C. E. Green, M. W. Gray, R. H. Johnson, and R. H. Multer	AD B115 890L
TR GL-87-22	Aug 1987	Laboratory Tests on Granular Filters for Embankment Dams, by E. B. Perry	AD A185 623
TR GL-87-23*	Sep 1987	Development of an Anchorage System for the Access/Egress Roadway Surfacing, by D. W. White, Jr.	AD B117 724L
TR GL-87-24	Sep 1987	Probabilistic and Reliability Design Procedures for Flexible Airfield Pavements-Elastic Layered Method, by Y. T. Chou	AD A187 533
TR GL-87-25	Oct 1987	Comparative Evaluation of 10-lb Sliding Weight and Sleeve-Type Manual Compaction Rammers for Pavement Design and Quality Control Applications, by W. N. Brabston	AD A188 379
TR GL-87-26*	Nov 1987	Mobility Performance of Candidate Vehicle for the Fiber Optic Guided Missile (FOG-M) Component of the Forward Area Air Defense System (FAADS), by J. H. Robinson, R. P. Smith, and A. M. Reaves	AD B117 535L
TR GL-88-1*	Feb 1988	Test Results for Verification of M113A2 Swim Product Improvement and an Interim Training Procedure for Swimming the Vehicle, by C. E. Green and D. M. Rogillio	AD B120 904L
TR GL-88-2	Feb 1988	Life Cycle Cost for Drainage Structures, by J. C. Potter	AD A191 569
TR GL-88-3		Stresses in M1 Tank Tracks:	
*	Apr 1988	Report 2 Initial Thermal Field and Simulation Studies, by N. R. Murphy, Jr., and A. S. Lessem	AD B123 021L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-88-5	Apr 1988	Geological Investigation of the Pearl River Basin, by J. B. Dunbar	AD A271 812
TR GL-88-6	May 1988	Geophysical Investigation in Support of Beaver Dam Comprehensive Seepage Investigation, by J. L. Llopis and D. K. Butler	AD A195 588
TR GL-88-8		Test Results for the Hard Mobile Launcher Mobility Test Program at Yuma Proving Ground, Yuma, Arizona:	
*	Jun 1988	Volume I Main Text, by R. H. Gillespie, G. L. Mason, Jr., B. G. Schreiner, et al.	AD B124 136L
TR GL-88-9		Retrogressive Failure in Sand Deposits of the Mississippi River:	
	Jun 1988	Report 1 Field Investigations, Laboratory Studies and Analysis of the Hypothesized Failure Mechanism, by Victor Torrey III, J. B. Dunbar, and R. W. Peterson	AD A198 760
	Jun 1988	Report 2 Empirical Evidence in Support of the Hypothesized Failure Mechanism and Development of the Levee Safety Flow Slide Monitoring System, by V. H. Torrey	AD A198 065
TR GL-88-10*	Jul 1988	An Empirical Constitutive Relationship for Rock Mass Based on Rock Mass Classification, by G. A. Nicholson	
TR GL-88-11*	Aug 1988	Mobility Assessment of German M.A.N. 10-Ton Tractors Towing Selected Pershing Semitrailers, by C. P. Rabalais	AD B124 455L
TR GL-88-12	Aug 1988	Experimental Evaluation of Variables Affecting the Testing of Pavements by the Spectral-Analysis-of-Surface-Waves Method, by D. R. Hiltunen	AD A199 281
TR GL-88-13*	Aug 1988	Updated Soil Moisture-Strength Prediction (SMSP) Methodology, by J. G. Kennedy, E. S. Rush, G. W. Turnage, and P. A. Morris	AD B126 187L
TR GL-88-14*	Sep 1988	Mobility Assessment of SLF-Propelled Air Cushion Assisted Vehicles (ACAV) and Selected Logistical-Over-the-Shore (LOTS) Vehicles, by Keafur Grimes	

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-88-15*	Sep 1988	Methodology for Development of Digital Terrain Data for the Automated Model of Dismounted Combat, by C. D. Bullock	AD B127 041L
	Jul 1989	Errata Sheet No. 1	
TR GL-88-16		Evaluation and Repair of War-Damaged Port Facilities:	
	Sep 1988	Report 2 Port Vulnerability, Pier and Wharf Repair and Storage Area Repair, by C. J. Smith, D. L. Cooksey, F. M. Warren and E. F. O'Neill III	AD A200 457
TR GL-88-17*	Sep 1988	Test Results of the Hard Mobile Launcher Mobility Test Bed at Malmstrom AFB, Great Falls, Montana, by G. L. Mason, Jr., and R. H. Gillespie	AD B127 902L
TR GL-88-18*	Sep 1988	Mobility Analysis for the TRADOC Wheeled Versus Tracked Vehicle Study, by R. F. Unger	AD B126 025L
TR GL-88-19*	Sep 1988	Mobility Models Utilizing Acceleration and Deceleration, by G. B. McKinley	AD B126 034L
TR GL-88-20		Thermodynamics of Frictional Materials:	
	Nov 1988	Report 1 Constitutive Theory of Soils with Dilatant Capability, by K. C. Valanis and J. F. Peters	AD A202 994
TR GL-88-21	Nov 1988	Computer Controlled Microwave Oven System for Rapid Water Content Determination, by P. A. Gilbert	AD A203 684
TR GL-88-27		Geology and Hydrogeology of the Ammunition Burning Ground, Crane Naval Weapons Support Center:	
*	Oct 1988	Volume I Main Text, by R. W. Hunt	AD B127 350L
*	Oct 1988	Volume II Plates, by R. W. Hunt	AD B127 351L
	Oct 1988	Volume III Boring Logs and Well Installation Diagrams, by R. W. Hunt	
TR GL-89-2*	Jan 1989	Test Results for the Hard Mobile Launcher Mobility Test Bed at Malmstrom AFB, Great Falls, Montana, 1988, by R. H. Gillespie, G. L. Mason, Jr., and C. R. May	AD B130 333L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-89-3		Evaluation of Nondestructive Test Equipment for Airfield Pavements:	
	Jan 1989	Phase I Calibration Test Results and Field Data Collection, by R. A. Bentsen, A. J. Bush III, and Andrew Harrison	AD A207 159
TR GL-89-4*	Mar 1989	Evaluating the Effect of Off-Road Obstacles on Unit Movement, by A. W. Harrell	AD B131 807L
TR GL-89-5	Apr 1989	Design Criteria for Aggregate-Surfaced Roads and Airfields, by Y. T. Chou	AD A207 059
TR GL-89-6	Apr 1989	The Influence of Soil Surface Conditions on the Traction of Wheeled and Tracked Military Vehicles, by D. W. Moore	AD A208 253
TR GL-89-7*	Jul 1989	Comparison of the Tactical Mobility of the Light Medium Tactical Vehicle (LMTV) and Alternative Vehicles, by D. D. Randolph, Keafur Grimes, and C. P. Rabalais	
TR GL-89-8		Stresses in M1 Tank Tracks:	
*	Jul 1989	Report 3 Initial Validation of Track Analysis Codes and Development of a Track Design Workstation, by A. S. Lessem and B. E. Reed	AD B134 517L
TR GL-89-9*	Aug 1989	Mobility Evaluation of the Technology Demonstrator 5-Ton Truck Testbed, by D. W. Moore	AD B136 377L
TR GL-89-10	Sep 1989	In Situ Seismic Investigation of Folsom Dam and Reservoir Project, by J. L. Llopis	AD A212 861
TR GL-89-11	Aug 1989	Start-Up Performance of Ground-Water Recharge Trenches, Rocky Mountain Arsenal, by R. J. Lutton	AD A212 485
TR GL-89-12	Sep 1989	Geophysical Assessment of Foundation Conditions: Right Abutment, Mill Creek Dam, by D. K. Butler, D. E. Yule, J. L. Llopis, and M. K. Sharp	AD A213 188
TR GL-89-13	Sep 1989	LEVEEMSU: A Software Package Designed for Levee Underseepage Analysis, by T. F. Wolff	AD A214 060
TR GL-89-14	Sep 1989	Development of Finite-Element-Based Design Procedure for Sheet-Pile Walls, by D. A. Leavell, J. D. Peters, E. V. Edris, and T. L. Holmes	AD A214 479

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-89-15*	Dec 1989	Mobility Classification of Terrain in the Federal Republic of Germany, by J. H. Robinson, T. C. Dean, and C. D. Bullock	AD B144 117
TR GL-89-16*	Dec 1989	Design, Development, and Operation of a Directional Shear Cell, by J. R. Arthur, F. Cutler, T. Dunstan, et al.	AD A216 300
TR GL-90-1*	Mar 1990	Mobility Performance Evaluation of the Renault TRM 2000, by D. M. Rogillio	AD B143 922
TR GL-90-2		Land Loss Rates:	
	Apr 1990	Report 1 Mississippi River Deltaic Plain by L. D. Britsch and E. B. Kemp III	AD A220 403
	Nov 1990	Report 2 Louisiana Chenier Plain, by J. B. Dunbar, L. D. Britsch, and E. B. Kemp III	AD A229 640
	Mar 1992	Report 3 Louisiana Coastal Plain, by J. B. Dunbar, L. D. Britsch, and E. B. Kemp III	AD A247 943
TR GL-90-3*	Apr 1990	Mobility Test Results of the TATRA 813 8x8 Wheeled Vehicle, by R. H. Johnson and B. G. Schreiner	AD B143 338
TR GL-90-4*	Apr 1990	Results of Field Tests of the WES Traverse and Column Movement Models, by G. B. McKinley, S. J. Price, and D. A. Horner	AD B143 921
TR GL-90-5*	May 1990	Automated Selection and Evaluation of Avenues of Approach, by G. B. McKinley	AD B145 235
TR GL-90-6*	May 1990	Statistical Analysis of Edge Components Associated with Geologic Linear Features Mapped from Landsat Thematic Mapper Data, by J. D. Lashlee and B. I. Naugle	AD B145 868
TR GL-90-7	Jun 1990	Maintenance Management System, by Joseph Banks, Jan Coester, and Peter Graziano	AD A225 373
TR GL-90-8		Engineer Model Improvement Program:	
*	Sep 1990	Report 1 Standardization of Terrain Data for the Vector-In-Commander and Engineer Functional Area Models, by G. L. Mason, T. C. Dean, and J. V. Farr	AD B148 482

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-90-8* (Cont.)	Sep 1990	Report 2 Enhanced Representation of Minefield Effects for the Vector-In-Commander and Engineer Functional Area Models, by R. W. Meier, J. V. Farr, and J. G. Green	AD B149 058
*	Jul 1990	Report 3 Minefield Effects on Attacking Armor: Some High Resolution Minefield Model Results, by Scott Lathrop, Brian Layton, Mark McRay, et al.	AD B147 287
*	Sep 1991	Report 4 Effects of Road Degradation on Convoy Movement, by G. L. Mason	AD B158 652
*	Jun 1992	Report 7 Parameter Sensitivity Analysis of the Vector-In-Commander-(VIC-) Based Engineer Functional Area Model, by E. A. Baylot, Jr.	AD B165 444
*	Aug 1992	Report 9 Enhancements to the Road Networks for the Vector-In-Commander and Engineer Functional Area Models, by J. G. Green, J. V. Farr, and G. L. Mason	AD B167 410
TR GL-90-9*	Jul 1990	Hard Mobile Launcher Engineering Test Unit 1988-89, Northern Tier Test Results, by M. W. Gray, R. A. Jones, R. H. Gillespie, and C. R. May	AD B152 146
TR GL-90-10	Jul 1990	Geological-Seismological Evaluation of Earthquake Hazards for Appurtenant Structures at Gathright Dam, Virginia, by E. L. Krinitzsky and J. B. Dunbar	AD A225 688
TR GL-90-11	Aug 1990	Geological-Seismological Evaluation of Earthquake Hazards at Hartwell and Clemson Upper and Lower Dams, South Carolina, by E. L. Krinitzsky and J. B. Dunbar	AD A225 623
TR GL-90-12	Aug 1990	Geomorphic Investigation of Davis Pond, Louisiana, by L. D. Britsch and J. B. Dunbar	
TR GL-90-13		Proposed 9th Infantry Division Force Conversion; Maneuver Damage, Erosion and Natural Resources Assessment, Fort Lewis, Washington:	
	Aug 1990	Volume I Main Text, by M. L. Pearson, P. A. Morris, R. L. Larson, et al.	AD A227 621
	Aug 1990	Volume II Plates, by M. L. Pearson, P. A. Morris, and R. L. Larson, et al.	AD A226 651

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-90-14*	Aug 1990	Ingress/Egress and Swim Tests with the High-Survivability Variant of the M2A2 BFVS, by W. E. Willoughby, D. W. Moore, and D. M. Rogillio	AD B149 057
TR GL-90-15	Sep 1990	Back Calculation of Composite Pavement Layer Moduli, by Mark Anderson	AD A227 501
TR GL-90-16	Sep 1990	Investigations of Magnetic Field Disturbances at Little Rock Air Force Base Compass Calibration Hardstand, by D. K. Butler and T. B. Kean	AD A227 327
TR GL-90-17	Sep 1990	Property Changes in Lime Treated Expansive Clays Under Continuous Leaching, by L. D. McCallister and T. M. Petry	AD A229 440
TR GL-90-18	Sep 1990	An Investigation of the Frost Resistance of Air-Entrained and Nonair-Entrained Roller-Compacted Concrete (RCC) Mixtures for Pavement Applications, by S. A. Ragan, D. W. Pittman, and W. P. Grogan	AD A229 441
TR GL-90-19*	Sep 1990	Comparison Tests of Bias Ply and Radial Tires on the M915 Series of Trucks, by D. M. Rogillio	AD B149 418
TR GL-90-21*	Sep 1990	Dye Trace of Beech Creek Aquifer Ammunition Burning Ground, Naval Weapons Support Center, Crane, Indiana, by W. L. Murphy and Jeffrey Ciocco	AD B149 661L
TR GL-90-22	Sep 1990	Hot In-Place Recycling of Asphalt Pavements, by J. E. Shoenberger and T. W. Vollar	AD A228 983
TR GL-90-23	Sep 1990	Water Detection Response Team Geophysics Element Case Histories, by D. K. Butler, J. L. Llopis, D. E. Yule, and M. K. Sharp	AD A228 669
TR GL-90-24*	Sep 1990	Suspension Performance of Hydropneumatic and Torsion Bar Suspension Systems on the M1 Tank, by R. B. Underwood III	AD B149 123
TR GL-90-25	Sep 1990	Evaluation Procedure for Reinforced Concrete Box Culverts Under Airfield Pavements, by D. M. Coleman, J. A. Harrison, and S. C. Woodson	AD A227 920
TR GL-90-26	Dec 1990	Computer-Controlled Microwave Drying of Potentially Difficult Organic and Inorganic Soils, by P. A. Gilbert	AD A237 487
TR GL-91-1	Feb 1991	Concrete Paving Blocks: Facilities Engineering Applications Program (FEAP) Demonstration, FY 89, by G. L. Anderson	AD A232 228

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-91-2		U.S. Army Wheeled Versus Tracked Vehicle Mobility Performance Test Program:	
		Report 1 Mobility in Slippery Soils and Across Gaps:	
*	Jan 1991	Volume I Program Summary, by W. E. Willoughby, R. A. Jones, C. D. Cothorn, et al.	AD B152 890
TR GL-91-3	Apr 1991	The Effects of Natural Sands on Asphalt Concrete Engineering Properties, by R. C. Ahlrich	AD A235 656
TR GL-91-4*	Apr 1991	Mobility Performance Evaluation of the Palletized Loading System (PLS) Candidate Vehicles, by C. E. Green and R. H. Johnson	AD B155 325
TR GL-91-5*	Apr 1991	Convoy Operation System Analysis Model (COSAM), by D. A. Horner and G. B. McKinley	AD B156 013
TR GL-91-6*	Apr 1991	Mobility and Plowing Capabilities of the Combat Mobility Vehicle, by J. V. Farr, C. P. Rabalais, R. B. Underwood III, and R. B. Ahlvin	AD B157 146
TR GL-91-7		U.S. Army Wheeled Versus Tracked Vehicle Mobility Performance Test Program:	
*	May 1991	Report 2 Mobility in Shallow Snow, by C. E. Green and G. L. Blaisdell	AD B156 014
TR GL-91-8	Apr 1991	Alternatives for Control of Shoreline Erosion at Fort Eustis, Virginia, by E. B. Perry, R. D. Carver, and R. L. Lazor	AD A237 198
TR GL-91-9*	Jun 1991	Seismic Location of Small Explosions and Shot Hole Drilling at the Colorado School of Mines' Edgar Mine, Idaho Springs, Colorado, by R. D. Lewis	AD B156 943
TR GL-91-10*	Jun 1991	Mobility and Trafficability Study for Fort Polk, Adjacent Forest Service Lands, Peason Ridge, and Vernon Parish, Louisiana, by C. D. Bullock and J. H. Robinson	AD B156 728
TR GL-91-11	Jul 1991	Geological and Seismological Evaluation of Earthquake Hazards at Ririe Dam, Idaho, by E. L. Krinitzsky and J. B. Dunbar	AD A239 303
TR GL-91-12*	Jul 1991	Concrete Block Pavement for Airfields, by G. L. Anderton	AD B156 838

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-91-13	Jul 1991	Construction and Evaluation of Resin Modified Pavement, by R. C. Ahlrich and G. L. Anderton	AD A239 872
TR GL-91-14	Jul 1991	Development of a Reliability-Based Method for Evaluating a Pavement Feature, by W. P. Grogan	AD A240 747
TR GL-91-15	Aug 1991	Geophysical Investigation of the Grassy Island Confined Disposal Area, Detroit, Michigan, by R. D. Lewis, et al.	AD A240 809
TR GL-91-16	Aug 1991	Compaction Control of Earth-Rock Mixtures, by V. H. Torrey III and R. T. Donaghe	AD A241 703
TR GL-91-17		Stresses in M1 Tank Tracks:	
*	Aug 1991	Report 4 Validation of the Track Analysis Codes and an Application of the Track Design Workstation, by A. S. Lessem and B. E. Reed	AD B158 914L
TR GL-91-18	Sep 1991	Engineering Use of Geotextiles in Railroad Track Construction and Rehabilitation, by D. M. Coleman and H. M. Taylor	AD A241 546
TR GL-91-19*	Aug 1991	CASTFOREM: Unit Movement Enhancements, by W. C. Dickson	AD B158 609
TR GL-91-20	Sep 1991	Site-Specific Seismic Evaluation of the Ground Based Free Electron-Technology Integration Experiment (GBFEL-TIE) Project, White Sands Missile Range, New Mexico, by R. E. Wahl, M. E. Hynes, M. K. Sharp, and J. P. Koester	AD A242 999
TR GL-91-22		Seismic Stability Evaluation of Ririe Dam and Reservoir Project:	
		Report 1 Construction History and Field and Laboratory Studies:	
	Sep 1991	Volume 1 Main Text, by D. W. Sykora, J. P. Koestler, M. E. Hynes, et al.	AD A242 568
	Sep 1991	Volume 2 Appendixes A-J, by D. W. Sykora, J. P. Koester, M. E. Hynes, et al.	AD A244 263
		Report 2 Stability Calculations, Analysis, and Evaluations:	
	Sep 1991	Volume 1 Main Text, by D. W. Sykora, J. P. Kostler and M. E. Hynes	AD A242 569

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-91-22 (Cont.)	Sep 1991	Volume 2 Appendixes A through E, by D. W. Sykora, J. P. Koester, and M. E. Hynes	AD A268 785
TR GL-91-23	Nov 1991	A Study of Embankment Performance During Overtopping, by P. A. Gilbert and S. P. Miller	AD A247 674
TR GL-91-24	Nov 1991	Geological-Seismological Evaluation of Earthquake Hazards at Eisenhower and Snell Locks, Saint Lawrence Seaway, Massena, New York, by E. L. Krinitszsky	AD A242 566
TR GL-91-25*	Oct 1991	Digital Image Enhancement of Satellite Data for Transportation Network Extraction, by B. I. Naugle, J. D. Lashlee, and J. H. Robinson	AD B160 620
TR GL-91-26	Dec 1991	Origin of Developments for Structural Design of Pavements, by R. G. Ahlvin	AD A245 673
TR GL-91-27*	Dec 1991	Classification of Urban Areas from Digital Satellite Data for Mobility Modeling Data Base Development, by B. I. Naugle, J. D. Lashlee, and J. H. Robinson	AD B161 349
TR GL-91-28*	Dec 1991	Removing the Topographic Effect from Digital Satellite Data for Mobility-Modeling Data Base Development, by B. I. Naugle, J. D. Lashlee, and J. H. Robinson	AD B161 454
TR GL-92-1	Feb 1992	Geologic Reconnaissance of the Shreveport, Louisiana to Daingerfield, Texas Reach, Red River Waterway, by Paul Albertson	AD A271 857
TR GL-92-2*	Mar 1992	Seismic Detection and Location of Tunnel Boring Machines at the Stanislaus River Hydroelectric Development Project, Calaveras County, California, by R. D. Lewis	AD B162 506
TR GL-92-3*	Apr 1992	Mobility Assessment of the USSR KAMAZ, Model 43101, 5-TON, 6X6 Truck, by C. R. May and C. E. Green	AD B165 027
TR GL-92-4*	May 1992	Geology of the Chu'Dong Area Demilitarized Zone Sector, Kumwha-Gun (Kangwon-Do), Republic of Korea, by C. P. Cameron	AD B164 935
TR GL-92-5	May 1992	Strength Property Estimation for Dry, Cohesionless Soils Using the Military Cone Penetrometer, by W. E. Perkins, R. W. Meier, and J. V. Farr	AD A255 558

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-92-6	Jun 1992	Laboratory Measurement of Pullout Resistance of Geotextiles Against Cohesive Soils, by P. A. Gilbert, J. C. Oldham, and L. R. Coffing, Jr.	AD A253 752
TR GL-92-7*	Jun 1992	Mobility Performance Tests of the High Mobility Multi-Purpose Wheeled Vehicle With A Central Tire Inflation System and Towed Trailer, by R. A. Jones	AD B167 109L
TR GL-92-8*	Jun 1992	Limited Evaluation of the Operational Envelope of the M2 BFVS in Ingressing/Egressing Water Obstacles, by R. A. Jones and W. E. Willoughby	AD B167 172L
TR GL-92-9*	Jul 1992	Gap Crossing Analysis Within Theaters of Operation, by J. H. Robinson, C. D. Bullock, R. D. Taylor, et al.	AD B172 633L
TR GL-92-10	Jul 1992	In Situ Material Characterization For Pavement Evaluation by the Spectral-Analysis-of-Surface-Waves (SASW) Method, by D. R. Alexander	AD A255 660
TR GL-92-11		Stochastic Vehicle Mobility Forecasts Using the NATO Reference Mobility Model:	
	Aug 1992	Report 1 Basic Concepts and Procedures, by Allan Lessem, Richard Ahlvin, and George Mason	AD A255 682
TR GL-92-12	Aug 1992	Assessment and Selection of an Automated Electrical Resistivity Interpretation Procedure, by J. E. Simms and D. K. Butler	AD A255 749
TR GL-92-13*	Sep 1992	Mobility Test Results of the CAT 30/30 and Challenger C-65 Tractors with Combat Systems Trailer, by C. E. Green, R. H. Johnson, and C. R. May	AD B167 550L
TR GL-92-14*	Sep 1992	Ingress/Egress and Swim Tests with the High-Survivability Variant of the M2 Bradley Fighting Vehicle System, by R. A. Jones and W. E. Willoughby	AD B168 499L
TR GL-92-15*	Sep 1992	Mobility Modeling Support for the REFORGER 87 Military Exercises in the Federal Republic of Germany, by J. D. Lashlee and J. H. Robinson	AD B175 790L
TR GL-92-16	Sep 1992	Two-Dimensional Planar Geosystems Subjected to Three-Dimensional Dynamic Loads, by D. W. Sykora and J. M. Roesset	AD A258 723
TR GL-92-17	Sep 1992	Validation Study of Two Rigid Body Dynamic Computer Models, by R. A. Jones	AD A258 188

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-92-18		ALBE Geographic Information System/User Interface/ Graphics:	
*	Jul 1992	Volume III Technical Design Overview (Version 1.0), by C. D. Butler, T. C. Falls, B. T. Webb, et al.	
TR GL-92-19*	Dec 1992	NATO Reference Mobility Model, Edition II, NRMM II User's Guide, by R. B. Ahlvin and P. W. Haley	AD B170 301
TR GL-92-20	Dec 1992	Aberdeen Area Fire Training Area Hydrologic Assessment, Aberdeen Proving Ground, by C. B. Whitten, S. P. Miller, N. A. Derryberry, and Roy Wade	AD A261 847
TR GL-92-21	Dec 1992	Geophysical Investigation for Groundwater Resources at the Soto Cano Air Base, Honduras, by R. D. Lewis and J. E. Simms	AD A260 302
TR GL-92-22		ALBE Geographic Information System/User Interface/ Graphics	
*	Dec 1992	Volume III Technical Design Overview (Version 2.0), by C. D. Butler, T. C. Falls, B. T. Webb, et al.	
TR GL-93-1*	Mar 1993	Mobility Performance Evaluation of the Initial Production Palletized Loading System (PLS) Vehicle, by C. R. May and C. E. Green	AD B172 992
TR GL-93-4*	May 1993	Mobility Evaluation of the Advanced Technology Demonstrator II 5-Ton Truck Testbed, by D. W. Moore	AD B175 432
TR GL-93-5*	Apr 1993	Mobility Performance Evaluation of the Mobility Technology Testbed (MTTB), by C. R. May and C. E. Green	
TR GL-93-6	May 1993	Geogrid Reinforced Base Courses for Flexible Pavements for Light Aircraft: Test Section Construction, Behavior Under Traffic, Laboratory Tests, and Design Criteria, by S. L. Webster	AD A266 333
TR GL-93-7*	Jun 1993	An Evaluation of Raster Scanned Large Format Camera Photography for Mobility and Combat Modeling Data Base Development, by J. D. Lashlee and J. H. Robinson	AD B176 493
TR GL-93-8		Mobility Assessment of the FSU SA-8 TLAR RSV, 6x6, Amphibious Transporter:	
	Jun 1993	Volume I Main Text, by C. R. May and C. E. Green	AD B175 979

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR GL-93-9*	Jun 1993	Mobility Assessment of the Czechoslovakian TATRA-815 (RM-70), 8x8, Wheeled Vehicle, by C. R. May and C. E. Green	AD B174 893
TR GL-93-10*	Jun 1993	Mobility Assessment of the USSR ZIL-135, 8x8, Truck, by C. R. May and C. E. Green	AD B174 891

* Statement B. See Preface.

Video Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
VR GL-85-1	Sep 1985	Displacement of Rock Blocks in Unlined Channels, by J. B. Palmerton	
VR GL-88-1	Dec 1987	Geotextile Reinforced Dike Test Section, Craney Island, Norfolk District, by Jack Fowler	

Unnumbered

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Jun 1993	Rock Testing Handbook (Test Standards 1993)	

Soil Mechanics Information Analysis Center Information Exchange Bulletin

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
93-1	Mar 1993	SMIAC Bulletin	

Hydraulics Laboratory

Hydraulics Laboratory

Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR HL-88-1	Aug 1988	An Evaluation of the Standard Elutriate Test as an Estimator of Contaminant Release at the Point of Dredging, by D. D. Ludwig, J. H. Sherrard, and R. A. Amende	AD A198 542
CR HL-91-1	Jan 1991	Literature Review and Technical Evaluation of Sediment Resuspension During Dredging, by J. B. Herbich and S. B. Brahme	AD A232 583
CR HL-92-1	Sep 1992	Identification of Piping and Sapping Erosion of Streambanks, by D. J. Hagerty	AD A259 028
CR HL-93-1	Mar 1993	Velocity and Scour Prediction in River Bends, by C. R. Thorne and S. R. Abt	AD A265 781

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR HL-79-1	Feb 1979	A User's Manual for the Tsunami Inundation Numerical Model, by J. R. Houston and H. L. Butler	AD B034 516L
IR HL-81-1	Sep 1981	A Guide to the Planning and Hydraulic Design of Jet Pump Remedial Sand Bypassing Systems, by T. W. Richardson and E. C. McNair, Jr.	AD A105 904
IR HL-84-1	May 1984	Operation Manual: Pressure-Momentum Method of Discharge Measurement, by R. G. McGee	AD A144 815
IR HL-85-1	Jul 1985	User's Manual for the Generalized Computer Program System: Open-Channel Flow and Sedimentation, TABS-2; Main Text, by W. A. Thomas and W. H. McAnally, Jr.	AD A159 249
IR HL-85-1	Aug 1985	User's Manual for the Generalized Computer Program System: Open-Channel Flow and Sedimentation, TABS-2; Main Text and Appendices A Through O, by W. A. Thomas and W. H. McAnally, Jr. (Published in loose-leaf form)	AD A162 390

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-79-1	Jan 1979	Levee Wash Protection by Trees; Hydraulic Model Investigation, by D. G. Markle	AD A065 189
MP HL-79-2	Mar 1979	The Dynamic Loop Effect on the Mississippi River, Project Design Flood Flow Line, by C. J. Huval	AD A069 277
MP HL-79-3	Mar 1979	Spillway Velocity Measurement and Flip Bucket Trajectory, Raystown Dam, Juniata River, Pennsylvania, by T. L. Fagerburg	AD A068 983
MP HL-79-4	Apr 1979	Mission Bay, California, Littoral Compartment Study, by L. Z. Hales	AD A070 027
MP HL-79-5	May 1979	Numerical Analysis of Tidal Circulation for Long Beach Outer Harbor Proposed Landfill, by D. G. Outlaw and D. C. Raney	AD A069 796
	May 1979	Appendix B Tidal Circulation Velocity Patterns, by D. G. Outlaw and D. C. Raney	
MP HL-79-6	May 1979	Recent Automation Changes in Model Velocity Analysis and Data Acquisition by Miniature Pressure Meters, by D. L. Durham, H. C. Greer III, and K. A. Turner	AD A072 692
	Aug 1979	Errata Sheet No. 1	
MP HL-79-7	Jul 1979	Pumping Stations - Field Performance Investigation, by B. P. Fletcher	AD A078 773
MP HL-79-8	Oct 1979	Stilling Basins for Outlet Works, by T. E. Murphy	AD A078 907
MP HL-80-1	Jan 1980	Planning of Automated Data Acquisition and Process Control Systems (ADACS), by R. H. Multer	AD A081 043
MP HL-80-2*	Feb 1980	Corps of Engineers Experiences with Flow-Induced Vibrations, by F. M. Neilson and E. B. Pickett	AD B046 732L
MP HL-80-3	Sep 1980	VAHM - A Vertically Averaged Hydrodynamic Model Using Boundary-Fitted Coordinates, by B. H. Johnson	AD A094 247
MP HL-80-4	Sep 1980	Lock Design, Bottom Longitudinal Dredging and Emptying System, by T. E. Murphy	AD A089 970
MP HL-80-5	Oct 1980	Old River Overbank Structure Outlet Modifications; Hydraulic Model Investigation, by R. R. Copeland	AD A092 802

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-81-1	Jan 1981	Stability of Rubble-Mound Breakwater; Maalaea Harbor, Maui, Hawaii; Hydraulic Model Investigation, by R. D. Carver and D. G. Markle	AD A096 822
MP HL-81-2	Jan 1981	Nanticoke River, Maryland, Dye Dispersion Study; Chesapeake Bay Hydraulic Model Investigation, by D. R. Richards, S. R. Rives, and D. F. Bastian	AD A095 895
MP HL-81-3	Jun 1981	Numerical Analysis of Harbor Resonance: Response in East Channel, Los Angeles Harbor, by D. G. Outlaw and J. R. Houston	AD A103 426
MP HL-81-4	Sep 1981	Advective Effects in the Numerical Simulation of Long Large Amplitude Wave Behavior, by H. L. Butler	AD A105 231
MP HL-81-5	Aug 1981	Significant Stresses of Arrested Saline Wedges, by G. H. Keulegan	AD A105 121
MP HL-81-6	Dec 1981	Air Demand Tests, Libby Dam, Kootenai River, Montana, by E. D. Hart	AD A110 425
MP HL-82-1	Oct 1982	Tsunami Response of Barbers Point Harbor, Hawaii, by P. D. Farrar and J. R. Houston	AD A122 299
MP HL-82-2	Dec 1982	Air Demand and Vibration Measurements, Wynoochee Dam, Wynoochee River, Washington, by E. D. Hart	AD A123 915
MP HL-83-1	Jan 1983	Bank Protection Techniques Using Spur Dikes, by R. R. Copeland	AD A125 156
MP HL-83-2	Apr 1983	Wave Stability Study of Riprap-Filled Cells; Hydraulic Model Investigation, by D. G. Markle	AD A129 428
MP HL-83-3	May 1983	Wave and Seepage-Flow Effects on Sand Stream-banks and Their Protective Cover Layers; Demonstration Hydraulic Models, by D. G. Markle	AD A130 595
MP HL-83-4	Jun 1983	Indian Creek Pumping Station Hydraulic Prototype Tests, Mankato, Minnesota, by R. G. McGee	AD A130 388
MP HL-83-5	Jul 1983	Poststorm Reconnaissance of Tropical Storm Chris, by T. H. Flor	AD A131 948
MP HL-83-7	Oct 1983	Sedimentation Study for the Rochester, Minnesota, Flood-Control Project, by D. T. Williams	AD A135 520
MP HL-83-8	Oct 1983	Tampa Bay Dredged Material Disposal Site Analysis, by D. T. Williams	AD A134 862
MP HL-84-1	Apr 1984	Estimated Flooding from Hypothetical Flow Conditions on the Lower Fox River, Wisconsin, by R. W. McCarty	AD A141 911

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-84-2	May 1984	Documentation of Wave-Height and Tidal Analysis Programs for Automated Data Acquisition and Control Systems, by K. A. Turner and D. L. Durham	AD A142 679
MP HL-84-3	Sep 1984	Techniques to Reduce the Sediment Resuspension Caused by Dredging, by G. L. Raymond	AD A146 898
MP HL-84-4	Sep 1984	A Discussion of Adaptive Grids and Their Applicability in Numerical Hydrodynamic Modeling, by B. H. Johnson, J. F. Thompson, and A. J. Baker	AD A151 843
MP HL-85-1	Feb 1985	An Experiment in Mixing and Interfacial Stress, by G. H. Keulegan	AD A155 010
MP HL-85-2	Mar 1985	Investigation of Tidally Induced Turbulent Flow, by N. W. Scheffner	AD A157 841
MP HL-85-3	May 1985	Impact of Proposed Runway Extension at Little Rock Municipal Airport on Water-Surface Elevations and Navigation Conditions in Arkansas River, by J. P. Stewart, L. L. Daggett, and R. F. Athow	AD A155 588
MP HL-85-4	Sep 1985	Lockport Power Plant Sluice Gate and Control Works Discharge Evaluation, by E. D. Hart and R. G. McGee	AD A161 426
MP HL-85-5	Sep 1985	Development of an Adaptive Boundary-Fitted Coordinate Code for Use in Coastal and Estuarine Areas, by J. F. Thompson and B. H. Johnson	AD A168 575
MP HL-85-6		Reevaluation of the Oliver Lock Replacement Project:	
	Sep 1985	Appendix B: Economics, by L. L. Daggett and Glenda Smith	AD A163 256
MP HL-85-7	Oct 1985	Ship Navigation Simulator Study, Upper Mobile Bay Channel, by C. J. Huval	AD A164 915
MP HL-86-1		Alcatraz Disposal Site Investigation:	
	Mar 1986	Report 1 by M. J. Trawle and B. H. Johnson	AD 168 170
	Oct 1986	Report 2 North Zone Disposal of Oakland Outer Harbor and Richmond Inner Harbor Sediments, by M. J. Trawle	AD A174 609
	May 1987	Report 3 San Francisco Bay-Alcatraz Disposal Site Erodibility, by A. M. Teeter	AD A181 837
MP HL-86-2	Apr 1986	Pressure Calculation for Two-Dimensional Flow Inside Hydraulic Structures, by R. S. Bernard	AD A169 039

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-86-3	May 1986	Proceedings: CE Workshop on Design and Operation of Selective Withdrawal Intake Structures	AD A169 370
MP HL-86-4	Jul 1986	St. Lucie Canal and Estuary Sedimentation Study; Mathematical Model Investigation, by D. T. Williams, J. J. Ingram, and W. A. Thomas	AD A171 830
MP HL-86-5	Aug 1986	Puget Sound Generic Dredged Material Disposal Alternatives, by M. J. Trawle and B. H. Johnson	AD A173 309
MP HL-86-6	Sep 1986	St. Stephen Powerhouse Tailrace Velocity Measurement, by T. L. Fagerburg	AD A172 900
MP HL-86-7	Sep 1986	Estuary Model Test Evaluation, by N. J. Brogdon, Jr.	AD A173 403
MP HL-87-1	Apr 1987	Reanalysis of Beach Erosion Board Technical Memorandum No. 94, by E. C. McNair, Jr.	AD A182 243
MP HL-87-2		A Numerical Model Analysis of Mississippi River Passes Navigation Channel Improvements:	
	Jun 1987	Report 1 55-Foot Channel Tests, by D. R. Richards and M. J. Trawle	AD A199 646
	Sep 1988	Report 2 45-Foot Channel Tests and Flow Diversion Schemes, by D. R. Richards and M. J. Trawle	AD A199 647
	Sep 1988	Report 3 Bank Breaching Without Supplement 2, by D. R. Richards and M. J. Trawle	AD A199 448
	Sep 1988	Report 5 Three-Dimensional Numerical Model Results, by D. R. Richards and D. P. Bach	AD A200 477
MP HL-87-4	Aug 1987	Scour Protection for Dam No. 3, Monongahela River, Pennsylvania; Hydraulic Model Investigation, by R. L. Stockstill	AD A185 441
MP HL-87-5	Sep 1987	Methods for Reducing Computational Costs of Typical Finite Element Unsteady Hydrodynamic Models, by A. J. Baker, P. D. Manhardt and B. H. Johnson	AD A185 499
MP HL-87-6	Oct 1987	Scour Protection for Pike Island Dam, Ohio River; Hydraulic Model Investigation, by J. E. Hite, Jr.	AD A180 480
MP HL-88-1	Mar 1988	Lock Hydraulic System Model and Prototype Study Data; Corps of Engineers Projects 1937-1984, by E. B. Pickett and F. M. Neilson	AD A193 551
MP HL-88-2	Mar 1988	Nomographic Riprap Design, by A. J. Reese	AD A195 328

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-88-3	Apr 1988	Scour Protection for Dam No. 7, Monongahela River, Pennsylvania; Hydraulic Model Investigation, by T. E. Murphy, Jr., and J. E. Hite, Jr.	AD A194 388
MP HL-88-4	Jun 1988	Levee Design Profiles for the Williamson, West Virginia, Flood Protection Project, by D. T. Williams	AD A196 208
MP HL-88-5	Aug 1988	Air Demand and Conduit Pressures, Stillhouse Hollow Dam, Lampasas River, Texas, by E. D. Hart	AD A199 358
MP HL-88-6	Aug 1988	Evaluation of Release Improvement Techniques for J. Percy Priest Reservoir, by R. E. Price	AD A198 985
MP HL-88-7	Aug 1988	Jefferson Barracks Bridge; Movable-Bed Model Study, by J. E. Foster	AD A199 359
MP HL-88-8	Sep 1988	Field Investigation of New Haven Harbor, Connecticut, by T. S. Dozier	AD A199 747
MP HL-88-9	Sep 1988	Feasibility of Sand Bypassing Systems for Reducing Maintenance Dredging in the St. Marys River Entrance Channel, by D. R. Richards and J. E. Clausner	AD A200 476
MP HL-88-10	Oct 1988	Cypress Creek Sediment Impact Assessment, Summary Report; Numerical Model Investigation, by R. R. Copeland and W. A. Thomas	AD A200 475
MP HL-88-11	Nov 1988	Sardis Lower Lake Rock Weir; Hydraulic Model Investigation, by D. R. Cooper	AD A203 525
MP HL-89-1	Apr 1989	Lower Granite Fish Guidance Efficiency Study, Snake River, Washington; Hydraulic Model Investigation, by R. A. Davidson	AD A207 056
MP HL-89-2	Jun 1989	Hydraulic Analyses of J. Strom Thurmond Reservoir Headwaters, by M. L. Schneider	AD A210 184
MP HL-89-3	Jul 1989	Evaluation of Bank Erosion Potential, Clifton, Arizona; Numerical Model Investigation, by R. R. Copeland and W. A. Thomas	AD A210 957
MP HL-89-4	Aug 1989	Scour Protection for Morgantown Dam, Monongahela River, West Virginia; Hydraulic Model Investigation, by J. E. Hite, Jr.	AD A212 483
MP HL-89-5	Sep 1989	Hydraulic Design of Navigation Locks, by J. P. Davis	AD A213 174
MP HL-89-6	Sep 1989	LaCueva Arroyo Inlet, Albuquerque, New Mexico, by C. H. Tate, Jr.	AD A213 497

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-89-7	Sep 1989	Schematic Numerical Modeling of Harbor Deepening Effects on Sedimentation, Charleston, South Carolina, by A. M. Teeter and Walter Pankow	AD A216 316
MP HL-89-8	Nov 1989	Phase I Model Study Results, Copeland Cut Reach, St. Lawrence River; Numerical Model Investigation, by R. E. Heath	AD A215 699
MP HL-90-1	Jan 1990	Nonconnah Creek Sedimentation Study; Analysis Using A Numerical Modeling Approach, by W. A. Thomas	AD A217 876
MP HL-90-2	Apr 1990	Crabtree Creek Quarry Pit Structure; Hydraulic Model Investigation, by W. B. Fenwick	AD A220 796
MP HL-90-3	Jun 1990	Numerical Model Predictions of Cumberland Sound Sediment Redistribution Associated with Trident Channel Expansion, by M. A. Granat	AD A224 170
MP HL-90-4		Evaluation of an Experimental Jet Fluidizer for Removal of Sand Waves in the Columbia River:	
	Jul 1990	Report 1 1987 Exercise, by W. D. Martin, G. E. Banks, and M. P. Alexander	AD A225 983
	Sep 1991	Report 2 1988 Exercise, by M. A. Granat and M. P. Alexander	AD A242 407
MP HL-90-5	Jul 1990	Evaluation of Nanjing Hydraulic Research Institute Physical Model Current Meter, by N. J. Brogdon, Jr., and R. F. Athow, Jr.	AD A226 224
MP HL-90-6	Aug 1990	Numerical Modeling of Kentucky Lake Flood Events, by B. H. Johnson and B. L. Martin	AD A226 030
	Aug 1990	Errata Sheet No. 1	
MP HL-90-7	Aug 1990	Wynoochee Dam Water Temperature Control Study, by S. K. Martin and S. E. Howington	AD A226 764
MP HL-90-8	Aug 1990	Numerical Modeling of Unsteady Flows Through the Proposed Olmstead Hinged Pool, by B. H. Johnson and L. L. Weisinger	AD A227 468
MP HL-90-9	Sep 1990	Kings Bay Upper Basin Remedial Measures; Physical Model Study, by N. J. Brogdon, Jr., and J. V. Letter, Jr.	AD A227 642
MP HL-90-10	Oct 1990	Flood-Control Channel National Inventory, by R. W. McCarley, J. J. Ingram, B. J. Brown, and A. J. Reese	AD A229 454
MP HL-91-1	May 1991	Rio Hondo Sediment Assessment Analysis Using SAM; Numerical Model Investigation, by N. K. Raphelt, M. J. Trawle, and W. A. Thomas	AD A238 572

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP HL-91-2	May 1991	Sediment Assessment of South Branch Potomac River, at Petersburg, West Virginia, by N. K. Raphelt	AD A239 720
MP HL-91-3	Jun 1991	Riprap Stability Tests in Large Tilting Flume	AD A238 164
MP HL-91-4	Sep 1991	Annotated Bibliography on Grade Control Structures, by F. M. Neilson, T. N. Waller, and K. M. Kennedy	AD A241 356
MP HL-92-1	Apr 1992	Effectiveness of Contraction Training Dikes at Charleston Harbor, Charleston, South Carolina, by A. M. Teeter, Walter Pankow, S. B. Heltzel, and S. C. Knowles	AD A251 369
MP HL-92-2	Sep 1992	Abiaca Creek Sedimentation Study, by G. E. Freeman, L. W. Benn, N. K. Raphelt, and W. A. Thomas	AD A255 878
MP HL-92-3	Sep 1992	Riprap Design For Towboat-Induced Forces In Lock Approaches, by S. K. Martin	AD A256 657
MP HL-92-4	Nov 1992	Gillham Dam Outlet Works Tower Hydraulic Prototype Study, Gillham Lake, Arkansas, by D. C. McVan	AD A260 931
MP HL-92-5	Dec 1992	Riprap Resistance Tests from a Large Test Chamber, by S. T. Maynard	AD A261 160
MP HL-93-1	Apr 1993	Navigation Return Velocities in Island Reaches, by S. T. Maynard	AD A265 936

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-79-1		Newburyport Harbor, Massachusetts:	
	Feb 1979	Report 1 Design for Wave Protection and Erosion Control, by C. R. Curren and C. E. Chatham, Jr.	AD A066 361
	Mar 1985	Report 2 Design for Hydrodynamics, Salinity, and Sedimentation; Hydraulic Model Investigation, by N. J. Brogdon, Jr., and D. M. White	AD A157 046
TR HL-79-2	Feb 1979	A Numerical Model for Tsunami Inundation, by J. R. Houston and H. L. Butler	AD A065 090
TR HL-79-3	Mar 1979	Navigation Conditions at John H. Overton Lock and Dam, Red River; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A068 212
TR HL-79-4	Mar 1979	Kissimmee River Structures, Central and Southern Florida Flood Control Project; Hydraulic Model Investigation, by H. O. Turner, Jr., and G. A. Pickering	AD A067 296
TR HL-79-5	Mar 1979	Shoaling in Harbor Entrances; Hydraulic Model Investigation, by B. K. Melton and J. J. Franco	AD A068 213
TR HL-79-6	Mar 1979	Outlet Works for Cerrillos Dam, Cerrillos River, and Portugues Dam, Portugues River, Puerto Rico; Hydraulic Model Investigation, by J. F. George	AD A068 214
TR HL-79-7	Mar 1979	Navigation Conditions on the Lower Cumberland River, Kentucky; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A068 618
TR HL-79-8	May 1979	Prototype Gate Vibration Tests, Barkley Dam, Cumberland River, Kentucky, by E. D. Hart and J. E. Hite, Jr.	AD A071 572
TR HL-79-9	May 1979	Vortex Problem at Intake, Lower St. Anthony Falls Lock and Dam, Mississippi River, Minneapolis, Minnesota; Hydraulic Model Investigation, by J. H. Ables, Jr.	AD A072 918
TR HL-79-10	Jun 1979	Lake Chicot Pumping Plant Outlet Structure, Arkansas; Hydraulic Model Investigation, by E. D. Rothwell and B. P. Fletcher	AD A073 655
	Nov 1979	Errata Sheet No. 1	

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-79-11	Jul 1979	Sensitivity of Base Data in the Analysis of Lock Capacity: A Case Study of Locks and Dam 26, Mississippi River, by L. L. Daggett	AD A074 584
TR HL-79-12		Mayport-Mill Cove Model Study:	
	Jul 1979	Report 1 Hydraulic, Salinity, and Shoaling Verification; Hydraulic Model Investigation, by N. J. Brogdon, Jr.	AD A073 601
	Aug 1979	Report 2 Mayport Naval Basin Study; Hydraulic Model Investigation, by N. J. Brogdon, Jr.	AD A077 046
	Sep 1979	Report 3 Mill Cove Study; Hydraulic Model Investigation, by N. J. Brogdon, Jr., and J. W. Parman	AD A078 701
TR HL-79-13	Aug 1979	Floating Breakwater Wave-Attenuation Tests for East Bay Marina, Olympia Harbor, Washington; Hydraulic Model Investigation, by R. D. Carver	AD A075 779
TR HL-79-14	Aug 1979	Navigation Conditions at Lock and Dam 53, Ohio River, Kentucky and Illinois; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A074 473
TR HL-79-15	Sep 1979	San Juan National Historic Site, San Juan, Puerto Rico; Design for Prevention of Wave-Induced Erosion; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A075 777
TR HL-79-16*	Sep 1979	Placed-Stone Stability Tests, Tillamook, Oregon; Hydraulic Model Investigation, by D. G. Markle and D. D. Davidson	AD B041 737L
TR HL-79-17	Nov 1979	Navigation Conditions at the Upstream Approach to Lock and Dam No. 3, Mississippi River; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A077 521
TR HL-79-18	Nov 1979	Carquinez Strait, California, Salinity Barrier Calibration Study; Hydraulic Model Investigation, by R. C. Berger, Jr.	AD A078 651
TR HL-79-19	Oct 1979	Navigation Conditions at Locks and Dam 26, Mississippi River; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A077 529
TR HL-79-20	Nov 1979	Model Study of Harry S. Truman Spillway, Osage River, Missouri; Hydraulic Model Investigation, by G. A. Pickering and D. B. Murray	AD A081 818

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-79-21	Dec 1979	Modifications to Filling and Emptying System of Lock No. 1, Mississippi River, Minneapolis, Minnesota; Hydraulic Model Investigation, by J. H. Ables, Jr.	AD A083 327
TR HL-80-1	Jan 1980	Effects of First Underlayer Weight on the Stability of Stone-Armored, Rubble-Mound Breakwater Trunks Subjected to Nonbreaking Waves with No Overtopping; Hydraulic Model Investigation, by R. D. Carver	AD A081 515
TR HL-80-3		Erosion Control of Scour During Construction:	
	Mar 1980	Report 1 Present Design and Construction Practice, by L. Z. Hales	AD A082 636
	Aug 1980	Report 2 Literature Survey of Theoretical, Experimental and Prototype Investigations, by L. Z. Hales	AD A088 893
	Sep 1980	Report 3 Experimental Measurements of Refraction, Diffraction, and Current Patterns Near Jetties, by L. Z. Hales	AD A092 712
	Jun 1983	Report 4 Stability of Underlayer Material Placed in Advance of Construction to Prevent Scour; Hydraulic Model Investigation, by L. Z. Hales and J. R. Houston	AD A135 945
	Sep 1984	Report 5 Experimental Measurements of Refraction and Diffraction Downcoast of an Oblique Breakwater, by L. Z. Hales	AD A149 743
	Sep 1984	Report 6 FINITE -- A Numerical Model for Combined Refraction and Diffraction of Waves, by J. R. Houston and L. W. Chou	AD A149 467
	Sep 1984	Report 7 CURRENT -- A Wave-Induced Current Model, by S. R. Vemulakonda	AD A148 102
	Jan 1985	Report 8 Summary Report, by L. Z. Hales	AD A153 808
TR HL-80-4	Mar 1980	Selective Withdrawal Riser for Sutton Dam, West Virginia; Hydraulic Model Investigation, by J. F. George, M. S. Dortch, and C. H. Tate, Jr.	AD A083 632
TR HL-80-5	Apr 1980	Bald Eagle Creek and Little Juniata River Channel Improvement Project; Hydraulic Model Investigation, by J. F. George	AD A085 242
TR HL-80-6	Mar 1980	Pumping Station for Teche-Vermilion Basins, Atchafalaya River, Louisiana; Hydraulic Model Investigation, by P. E. Saunders and B. P. Fletcher	AD A085 244

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-80-7	May 1980	Seabrook Lock Complex, Lake Pontchartrain, La., Design for Wave Protection at Lock Entrance; Hydraulic Model Investigation, by R. R. Bottin, Jr., and K. A. Turner	AD A086 819
TR HL-80-8	Jun 1980	Seabrook Lock Complex, Lake Pontchartrain, Louisiana; Design for Wave Protection at a Temporary Entrance During Various Phases of Lock Construction; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A086 878
TR HL-80-9	Jun 1980	Littoral Processes Study, Vicinity of Santa Ana River Mouth from Anaheim Bay to Newport Bay, California, by L. Z. Hales	AD A086 120
TR HL-80-10	Jun 1980	Oceanside Harbor and Beach, California, Design of Structures for Harbor Improvement and Beach Erosion Control; Hydraulic Model Investigation, by C. R. Curren and C. E. Chatham, Jr.	AD A088 587
TR HL-80-11		Wave Information Study for U. S. Coastlines:	
	Jul 1980	Report 1 Surface Pressure Field Reconstruction for Wave Hindcasting Purposes, by W. D. Corson, D. T. Resio, and C. L. Vincent	AD A089 150
TR HL-80-12	Jul 1980	Utilization of Filter Fabric for Streambank Protection Applications, by M. P. Keown and E. A. Dardeau, Jr.	AD A090 821
TR HL-80-13	Aug 1980	Prototype Filling and Emptying System Measurements, New Bankhead Lock, Black Warrior River, Alabama, by A. R. Tool	AD A088 896
TR HL-80-14	Aug 1980	Hurricane Surge Stage-Frequency Analysis for Dade County, Florida, by C. E. Abel	AD A089 735
TR HL-80-15	Aug 1980	Spillway for Cooper Dam, Sulphur River, Texas; Hydraulic Model Investigation, by J. F. George	AD A091 237
TR HL-80-16	Sep 1980	Tsunami Elevation Predictions for American Samoa, by J. R. Houston	AD A090 275
TR HL-80-17	Sep 1980	Lock Approach Canal Surge and Tow Squat at Lock and Dam 17, Arkansas River Project; Mathematical Model Investigation, by C. J. Huval	AD A090 595
TR HL-80-18	Sep 1980	Type 19 Flood Insurance Study: Tsunami Predictions for Southern California, by J. R. Houston	AD A091 657
TR HL-80-19	Sep 1980	McMillan Pumping Station, Washington, D. C.; Hydraulic Model Investigation, by G. R. Triplett	AD A090 276

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-80-20	Dec 1980	Kaskaskia River Grade-Control Structure and Navigation Channel, Fayetteville, Illinois; Hydraulic Model Investigation, by J. L. Grace, Jr., and Potong Bhramayana	AD A096 201
TR HL-81-1	Mar 1981	Virden Creek Pumping Station and Gravity-Flow Outlet Structure, Waterloo, Iowa; Hydraulic Model Investigation, by E. D. Rothwell	AD A098 459
TR HL-81-2	Mar 1981	Sidewall Forces on Richard B. Russell Flip Bucket Spillway, Savannah River; Hydraulic Model Investigation, by B. P. Fletcher	AD A098 396
TR HL-81-3	Apr 1981	Channel Control Structures for Souris River, Minot, North Dakota; Hydraulic Model Investigation, by P. A. Saunders and J. L. Grace, Jr.	AD A100 372
TR HL-81-4	Apr 1981	Fixed-Cone Valves, New Melones Dam, California; Hydraulic Model Investigation, by S. T. Maynard and J. L. Grace, Jr.	AD A099 595
TR HL-81-5	Apr 1981	Rubble-Mound Breakwater Stability and Wave-Attenuation Tests, Port Ontario Harbor, New York; Hydraulic Model Investigation, by R. D. Carver and D. G. Markle	AD A099 309
TR HL-81-6	Sep 1981	Flood Control and Irrigation Outlet Works and Tailrace Channel for New Melones Dam, Stanislaus River, California; Hydraulic Model Investigation, by S. T. Maynard	AD A105 861
TR HL-81-7	Aug 1981	Navigation Conditions at McAlpine Locks and Dam, Ohio River; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A107 734
TR HL-81-9	Sep 1981	Investigation of Release Temperatures for Kinzua Dam, Allegheny River, Pennsylvania; Hybrid Model Investigation, by M. S. Dortch	AD A106 974
	Nov 1981	Errata Sheet No. 1	
TR HL-81-10	Sep 1981	Lock Culvert Valve Loss Coefficients; Hydraulic Laboratory Investigation, by G. A. Pickering	AD A107 735
TR HL-81-11	Sep 1981	Breakwater and Revetment Stability Study, San Juan National Historic Site, San Juan, Puerto Rico; Hydraulic Model Investigation, by D. G. Markle	AD A108 120
TR HL-81-12	Oct 1981	Evaluation of In-Reservoir Cofferdam on Richard B. Russell Reservoir and Hydropower Releases; Hybrid Model Investigation, by D. R. Smith, J. P. Holland, Bruce Loftis, and C. H. Tate, Jr.	AD A108 895

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-81-13	Nov 1981	Grays Landing Spillway and Stilling Basin, Monongahela River, Pennsylvania; Hydraulic Model Investigation, by E. D. Rothwell, N. R. Oswalt, and S. T. Maynard	AD A109 645
TR HL-81-14	Dec 1981	Verification of the Chesapeake Bay Model; Chesapeake Bay Hydraulic Model Investigation, by N. W. Scheffner, L. G. Crosby, D. F. Bastian, et al.	AD A111 812
TR HL-82-1	Jan 1982	Cache River Pumping Station, South of Mound City, Illinois; Hydraulic Model Investigation, by E. D. Rothwell and B. P. Fletcher	AD A112 700
TR HL-82-2		Lake Pontchartrain and Vicinity Hurricane Protection Plan:	
	Jan 1982	Report 1 Prototype Data Acquisition and Analysis, by D. G. Outlaw	AD A112 996
	Jun 1982	Report 2 Physical and Numerical Model Investigation of Control Structures and the Seabrook Lock; Hydraulic and Mathematical Model Investigation, by H. L. Butler, R. C. Berger, L. L. Daggett, and T. F. Berninghausen	AD A120 162
	Oct 1983	Report 3 Numerical Model Investigation of Plan Impact on the Tidal Prism of Lake Pontchartrain, by H. L. Butler	AD A139 839
TR HL-82-3	Jan 1982	Low Freshwater Inflow Study; Chesapeake Bay Hydraulic Model Investigation, by D. R. Richards and L. F. Gulbrandsen	AD A112 215
	Mar 1982	Errata Sheet No. 1	
TR HL-82-4	Feb 1982	Pollution Control Facilities Project, Southeastern Oakland County Sewage Disposal System, Oakland County, Michigan; Hydraulic Model Investigation, by R. R. Copeland	AD A112 647
TR HL-82-5	Feb 1982	Baltimore Harbor and Channels Deepening Study; Chesapeake Bay Hydraulic Model Investigation, by M. A. Granat and L. F. Gulbrandsen	AD A114 283
TR HL-82-6	Feb 1982	Development and Maintenance of Typical Navigation Channel, Red River; Hydraulic Model Investigation, by J. E. Foster, C. R. O'Dell, and J. J. Franco	AD A112 567

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-82-7		Dredging: An Annotated Bibliography on Operations, Equipment, and Processes	AD A116 362
	Mar 1982	Installment 1	AD A137 453
	Dec 1983	Installment 2	
	1985	Installment 3	AD A157 539
TR HL-82-8	Apr 1982	Pumping Performance and Turbidity Generation of Model 600/100 PNEUMA Pump; Main Text and Appendixes A and B, by T. W. Richardson, J. E. Hite, Jr R. A. Schafer, and J. D. Ethridge, Jr.	AD A117 854
	Apr 1982	Appendix C	AD A117 146
TR HL-82-9	Apr 1982	Effects of Storage Reallocation on Thermal Characteristics of Cowanesque Lake, Pennsylvania; Numerical Model Investigation, by J. P. Holland	AD A118 007
TR HL-82-10	May 1982	Model-Prototype Comparison Study of Dike Systems, Mississippi River; Potamology Investigations, by J. J. Franco	AD A120 713
TR HL-82-11	May 1982	Summary Report: Model-Prototype Comparison Study of Dike Systems, Mississippi River; Potamology Investigations, by J. J. Franco	AD A120 144
TR HL-82-12	Apr 1982	Norfolk Lake, Arkansas, Temperature Analysis; Mathematical Model Investigation, by J. P. Holland, M. S. Dortch, and D. R. Smith	AD A117 670
TR HL-82-13	Jun 1982	Blue Waters Ditch Pumping Station, East St. Louis, Illinois; Hydraulic Model Investigation, by S. T. Maynard	AD A119 311
TR HL-82-14	Jul 1982	Kahului Breakwater Stability Study, Kahului, Maui, Hawaii; Hydraulic Model Investigation, by D. G. Markle	AD A120 181
TR HL-82-15		The Atchafalaya River Delta:	
	May 1991	Report 1 A Plan for Predicting Delta Evolution, by W. H. McAnally, Jr., S. B. Heltzel, and B. P. Donnell	AD A241 541
		Report 2 Field Data; Section I: Atchafalaya Bay Program Description and Data:	
	Jun 1988	Volume I Main Text, by C. J. Coleman, A. M. Teeter, B. P. Donnell, et al.	AD A197 560

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-82-15 (Cont.)	Jun 1988	Volume II Appendixes A through D, by C. J. Coleran, A. M. Teeter, B. P. Donnell, et al.	AD A198 080
	Sep 1989	Report 2 Field Data, Section 2: Settling Characteristics of Bay Sediments, by A. M. Teeter and Walter Pankow	AD A214 538
	Aug 1990	Report 2 Field Data, Section 3: Grain Size Analysis of Selected Bay Sediments, by Walter Pankow, A. M. Teeter, and B. P. Donnell	AD A226 510
	Aug 1990	Report 2 Field Data, Section 4: Terrebonne Marshes Program Description and Data, by H. A. Benson and B. P. Donnell	AD A226 857
	Jul 1982	Report 3 Extrapolation of Delta Growth, by J. V. Letter, Jr.	AD A120 778
	Jan 1984	Report 4 Generic Analysis of Delta Development, by J. T. Wells, S. J. Chinburg, and J. M. Coleman	AD A140 446
	Dec 1988	Report 5 The Atchafalaya River Delta Quasi-Two-Dimensional Model of Delta Growth and Impacts on River Stages, by W. A. Thomas, R. E. Heath, J. P. Stewart, and D. G. Clark	AD A204 516
	Jul 1984	Report 6 Interim Summary Report of Growth Predictions, by W. H. McAnally, Jr., W. A. Thomas, J. V. Letter, Jr., and J. P. Stewart	AD A144 647
	Sep 1985	Report 7 Analytical Analysis of the Development of the Atchafalaya River Delta, by F. C. Wang	AD A164 931
	Jan 1985	Report 8 Numerical Modeling of Hurricane-Induced Storm Surge, by B. A. Ebersole	AD A152 817
	Jan 1985	Report 9 Wind Climatology, by B. A. Ebersole	AD A152 818
	Mar 1985	Report 10 Wave Hindcasts--Main Text and Appendices A and B, by R. E. Jensen	AD A156 693
	Mar 1985	Appendix C Wave Hindcast Information for Stations 1-10, by R. E. Jensen	AD A157 075
	May 1991	Report 11 Two-Dimensional Modeling, by B. P. Donnell, J. V. Letter, Jr., and A. M. Teeter	AD A237 639
	Jan 1992	Report 12 Two-Dimensional Modeling of Alternative Plans and Impacts on the Atchafalaya Bay and Terrebonne Marshes, by B. P. Donnell and J. V. Letter, Jr.	AD A246 089

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-82-15 (Cont.)	Jan 1982	Report 13 Summary Report of Delta Growth Predictions, by B. P. Donnell and J. V. Letter, Jr.	AD A245 672
TR HL-82-16	Jul 1982	Prevention of Shoaling at Little Lake Harbor, Michigan; Hydraulic Model Investigation, by W. C. Seabergh and J. W. McCoy	AD A120 776
TR HL-82-17	Aug 1982	Design for Wave Protection and Prevention of Shoaling, Geneva-on-the-Lake Small-Boat Harbor, Ohio; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A120 823
TR HL-82-18	Aug 1982	Design for Flood Control, Wave Protection, and Prevention of Shoaling, Rogue River, Oregon; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A120 826
	Jun 1983	Appendix B Results of Additional Tests, by R. R. Bottin, Jr.	AD A131 819
TR HL-82-19	Aug 1982	Kahoma Stream Channel Improvement Project, Maui, Hawaii; Hydraulic Model Investigation, by J. F. George	AD A120 777
TR HL-82-20	Aug 1982	Development of a Numerical Modeling Capability for the Computation of Unsteady Flow on the Ohio River and Its Major Tributaries, by B. H. Johnson	AD A121 283
TR HL-82-21	Sep 1982	Pointe Coupee Pumping Station Siphon, Upper Pointe Coupee Loop Area, Louisiana; Hydraulic Model Investigation, by R. R. Copeland	AD A120 159
TR HL-82-22	Sep 1982	South Fork Tillatoba Creek Drop Structures, Mississippi; Hydraulic Model Investigation, by J. E. Hite, Jr., and G. A. Pickering	AD A121 274
TR HL-82-23	Sep 1982	McGee Creek Pumping Station Siphon, Pike County, Illinois; Hydraulic Model Investigation, by R. R. Copeland	AD A121 948
TR HL-82-24	Oct 1982	Los Esteros Spillway, Pecos River, New Mexico; Hydraulic Model Investigation, by B. P. Fletcher	AD A121 993
TR HL-82-25	Oct 1982	Channel Widths in Bends and Straight Reaches Between Bends for Push Towing; Hydraulic Model Investigation, by L. J. Shows and J. J. Franco	AD A122 334
TR HL-82-26	Nov 1982	Revetment Stability Study, Fort Fisher State Historic Site, North Carolina; Hydraulic Model Investigation, by D. G. Markle	AD A123 754
TR HL-83-1	Jan 1983	Numerical Modeling of Explosion Waves, by J. R. Houston and L. W. Chou	AD A125 322

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-83-2	Feb 1983	Fixed-Cone Valve Prototype Tests, New Melones Dam, California, by T. L. Fagerburg	AD A129 444
TR HL-83-3	Mar 1983	Pointe Coupee Pumping Station Sump and Outlet Structure, Upper Pointe Coupee Loop Area, Louisiana; Hydraulic Model Investigation, by R. R. Copeland	AD A128 517
TR HL-83-4	Mar 1983	Survey of Portable Hydraulic Dredges, by G. R. Clark	AD A131 454
TR HL-83-5	Mar 1983	Weir Jetty Performance: Hydraulic and Sedimentary Considerations; Hydraulic Model Investigation, by W. C. Seabergh	AD A129 508
TR HL-83-6	Mar 1983	Cleveland Harbor, Ohio, Design for the Safe and Efficient Passage of 1,000-ft-Long Vessels at the West (Main) Entrance; Hydraulic Model Investigation, by R. R. Bottin, Jr.	AD A129 783
TR HL-83-7	Apr 1983	Big Creek Flood-Control Project, Cleveland, Ohio; Hydraulic Model Investigation, by G. A. Pickering	AD A130 780
TR HL-83-8		Mississippi Sound Wave-Hindcast Study, by R. E. Jensen	
	Apr 1983	Main Text and Appendices A and B	AD A133 339
	Apr 1983	Appendices C and D	AD A133 340
	Apr 1983	Appendices E Through G	AD A133 341
TR HL-83-9	Jun 1983	Bloomington Spillway, North Branch Potomac River, Maryland and West Virginia; Hydraulic Model Investigation, by B. P. Fletcher	AD A131 298
TR HL-83-10	Jun 1983	Functional Design of Control Structures for Oregon Inlet, North Carolina; Hydraulic Model Investigation, by N. W. Hollyfield, J. W. McCoy, and W. C. Seabergh	AD A131 999
	Mar 1985	Errata Sheet No. 1	
TR HL-83-11	Jul 1983	Edgewater Marina, Cleveland, Ohio, Design for Wave Protection; Hydraulic Model Investigation, by R. R. Bottin, Jr., and H. F. Acuff, Jr.	AD A131 998
TR HL-83-12	Aug 1983	Barkley Dam Spillway Tailor Gate and Emergency Bulkheads, Cumberland River, Kentucky; Hydraulic Model Investigation, by J. E. Hite, Jr., and G. A. Pickering, Jr.	AD A132 661

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-83-13		Norfolk Harbor and Channels Deepening Study:	
	Jun 1983	Report 1 Physical Model Results; Chesapeake Bay Hydraulic Model Investigation, by D. R. Richards and M. R. Morton	AD A134 563
	Mar 1985	Report 2 Sedimentation Investigation; Chesapeake Bay Hydraulic Model Investigation, by R. C. Berger, Jr., S. B. Heltzel, R. F. Athow, Jr., et al.	AD A154 978
TR HL-83-14	Jun 1983	Wave Data Acquisition and Hindcast for Saginaw Bay, Michigan, by A. W. Garcia and R. E. Jensen	AD A133 392
TR HL-83-15	Jun 1983	Design for Prevention of Beach Erosion at Presque Isle Beaches, Erie, Pennsylvania; Hydraulic Model Investigation, by W. C. Seabergh	AD A135 394
TR HL-83-16		Columbia River Estuary Hybrid Model Studies:	
	Sep 1983	Report 1 Verification of Hybrid Modeling of the Columbia River Mouth, by W. H. McAnally, Jr., N. J. Brogdon, Jr., and J. V. Letter, Jr.	AD A134 978
	Sep 1983	Report 4 Entrance Channel Tests, by W. H. McAnally, Jr., N. J. Brogdon, and J. P. Stewart	AD A134 581
TR HL-83-17	Jun 1983	Mission Bay Harbor, California, Design for Wave and Surge Protection and Flood Control; Hydraulic Model Investigation, by C. R. Curren	AD A136 371
TR HL-83-18	Sep 1983	Breakwater Stability Study, Mission Bay, California; Hydraulic Model Investigation, by D. G. Markle	AD A137 468
TR HL-83-19	Oct 1983	Smithland Locks and Dam, Ohio River; Hydraulic Model Investigation, by J. J. Franco and T. J. Pokrefke, Jr.	AD A137 178
TR HL-83-20	Nov 1983	Shoaling Conditions in Lock and Dam 13 Pool, Arkansas River; Hydraulic Model Investigation, by J. E. Foster, C. M. Noble, and J. E. Glover	AD A143 747
TR HL-83-21	Sep 1983	Nawiliwili Breakwater Stability Study, Nawiliwili Harbor, Kauai, Hawaii; Hydraulic Model Investigation, by D. J. Markle and C. R. Herrington	AD A140 551
TR HL-84-1	Feb 1984	R. D. Bailey Outlet Works, Guyandot River, West Virginia; Hydraulic Model Investigation, by J. E. Hite, Jr.	AD A139 291
TR HL-84-2	Mar 1984	Prototype Evaluation of Sluiceway Aeration System, Libby Dam, Kootenai River, Montana, by R. G. McGee	AD A142 815

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-84-3	Mar 1984	Riprap Protection on Navigable Waterways, by S. T. Maynard	AD A143 303 AD A144 069
TR HL-84-4		Old River Diversion, Mississippi River:	
	Apr 1984	Report 3 Barge Barrier Study; Hydraulic Model Investigation, by C. R. Nickles and T. J. Pokrefke, Jr.	AD A142 221
	Apr 1989	Report 4 Outflow Channel Investigations; Hydraulic Model Investigation, by C. R. Nickles and T. J. Pokrefke, Jr.	AD A207 019
TR HL-84-5	Apr 1984	21st Street Pumping Station, Bettendorf, Iowa; Hydraulic Model Investigation, by R. R. Copeland	AD A142 186
TR HL-84-6	Jul 1984	Agitation Dredging: Lessons and Guidelines from Past Projects, by T. W. Richardson	AD A150 146
TR HL-84-7	Aug 1984	Fixed-Cone Valve Prototype Tests, Final Series, New Melones Dam, California, by T. L. Fagerburg	AD A148 939
TR HL-84-8	Sep 1984	Filling and Emptying System, Walter Bouldin Lock, and Lock Culvert Valve for Coosa River Waterway, Alabama; Hydraulic Model Investigation, by J. F. George	AD A149 670
TR HL-84-9	Nov 1984	A Technique to Optimally Locate Multilevel Intakes for Selective Withdrawal Structures, by M. S. Dortch and J. P. Holland	AD A150 047
TR HL-84-10	Dec 1984	Dimensions for Safe and Efficient Deep-Draft Navigation Channels; Hydraulic Model Investigation, by H. O. Turner, Jr.	AD A151 619
TR HL-84-11	Dec 1984	Navigation Conditions in Vicinity of Walter Bouldin Lock and Dam, Coosa River Project; Hydraulic Model Investigation, by C. M. Myrick and J. J. Franco	AD A150 879
	Mar 1985	Errata Sheet No. 1	
TR HL-84-12	Dec 1984	Navigation Conditions at Mitchell Lock and Dam, Coosa River, Alabama; Hydraulic Model Investigation, by C. M. Myrick	AD A150 657
TR HL-85-1	Mar 1985	General Spillway Investigation; Hydraulic Model Investigation, by S. T. Maynard	AD A156 686
TR HL-85-2	Mar 1985	Buck Island Reach, Mississippi River; Hydraulic Model Investigation, by C. R. Nickles, T. J. Pokrefke, Jr., and J. E. Glover	AD A156 217

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-85-3	Apr 1985	Reverification of the Chesapeake Bay Model; Chesapeake Bay Hydraulic Model Investigation, by M. A. Granat, L. F. Gulbrandsen, and V. R. Pankow	AD A155 486
TR HL-85-4	Jun 1985	Ship Simulation Study of John F. Baldwin (Phase II) Navigation Channel, San Francisco Bay, California, by Carl Huval, Bradley Comes, and R. T. Garner III	AD A157 076
TR HL-85-5	Sep 1985	Spectral Analysis of Columbia River Estuary Currents, by B. P. Donnell and W. H. McAnally, Jr.	AD A161 609
TR HL-86-1		Mississippi River Passes Physical Model Study:	
	Jan 1986	Report 2 Shoaling and Hydraulic Investigations in Southwest Pass; Hydraulic Model Investigation, by H. A. Benson and R. A. Boland, Jr.	AD A166 777
TR HL-86-2	May 1986	Mill Creek Channel, Walla Walla, Washington; Hydraulic Model Investigation, by D. W. Robinson and R. R. Copeland	AD A169 608
TR HL-86-3	May 1986	Riprap Stability and Navigation Tests for the Divide-Cut Section, Tennessee-Tombigbee Waterway; Hydraulic Model Investigation, by S. T. Maynard and N. R. Oswalt	AD A170 323
TR HL-86-4	Jun 1986	Burlington Spillway and Outlet Works, Souris River, North Dakota; Hydraulic Model Investigation, by J. V. Markussen and N. R. Oswalt	AD A171 752
TR HL-86-5	Jun 1986	Little Sioux Control Structure, Little Sioux River, Iowa; Hydraulic Model Investigation, by J. E. Hite, Jr.	AD A171 592
TR HL-86-6	Jun 1986	Lock and Dam 1, Red River Waterway; Hydraulic Model Investigation, by J. E. Foster, C. R. O'Dell, and J. E. Glover	AD A171 594
TR HL-86-7	Dec 1986	Sheldrake River Tunnel, Mamaroneck, New York; Hydraulic Model Investigation, by C. H. Tate, Jr.	AD A181 888
TR HL-86-8	Oct 1986	McGee Creek Pumping Station Sump, Pike County, Illinois; Hydraulic Model Investigation, by G. R. Triplett	AD A174 884
TR HL-86-9	Nov 1986	Selective Withdrawal Riser for Cave Run Lake, by S. T. Maynard and C. H. Tate, Jr.	AD A175 375
TR HL-86-10	Dec 1986	San Lorenzo River Sedimentation Study; Numerical Model Investigation, by R. R. Copeland	AD A176 812

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-87-1	Apr 1987	A Mathematical Study of the Impact on Salinity Intrusion of Deepening the Lower Mississippi River Navigation Channel, by B. H. Johnson, M. B. Boyd and G. H. Keulegan	AD A180 835
TR HL-87-2	Apr 1987	Post-Pool Raise Spillway Prototype Test for Chief Joseph Dam, Columbia River, Washington, by T. L. Fagerburg	AD A180 043
TR HL-87-3	Apr 1987	Safe Navigation Speeds and Clearance at Lower Sill, Temporary Lock 52, Ohio River, by S. T. Maynard	AD A181 207
TR HL-87-4	Apr 1987	Scour Protection for Locks and Dams 2-10, Upper Mississippi River; Hydraulic Model Investigation, by J. V. Markussen and S. C. Wilhelms	AD A181 889
TR HL-87-5	May 1987	Ship Navigation Simulator Study, Savannah Harbor Widening Project, Savannah, Georgia, by C. J. Hewlett, L. L. Daggett, and S. B. Heltzel	AD A182 222
TR HL-87-6	Sep 1987	Fine-Grained Sediments: An Annotated Bibliography on Their Dynamic Behavior in Aquatic Systems, by A. Teeter, S. Hodges, and C. Coleman	AD A188 349
TR HL-87-7	May 1987	Bank Protection, Bass Location, Willamette River, Oregon; Hydraulic Model Investigation, by R. A. McCollum, C. W. O'Neal, and J. E. Glover	AD A181 884
TR HL-87-8	May 1987	North Diversion Structure, Albuquerque, New Mexico; Hydraulic Model Investigation, by C. H. Tate, Jr.	AD A182 442
TR HL-87-9	May 1987	Channel Development in the Lower Reach of the Red River; Hydraulic Model Investigation, by J. E. Foster, C. R. O'Dell, and J. E. Glover	AD A182 441
TR HL-87-10	Oct 1987	Evaluation of Vertical Motion Sensors for Potential Application to Heave Correction in Corps Hydrographic Surveys, by G. C. Downing and T. L. Fagerburg	AD A187 713
TR HL-87-11	Aug 1987	Isabella Dam Spillway, Kern River, California; Hydraulic Model Investigation, by W. G. Davis	AD A187 236
TR HL-87-12	Sep 1987	Technical Supplement to Dredged Material Disposal Study, US Navy Home Port, Everett, Washington, by S. A. Adamec, Jr., B. H. Johnson, A. M. Teeter, and M. J. Trawle	AD A186 968
TR HL-87-13	Sep 1987	Corpus Christi Inner Harbor Shoaling Investigation, by T. M. Smith, W. H. McAnally, Jr., and A. M. Teeter	AD A189 323
TR HL-87-14	Oct 1987	Walnut Creek Flood-Control Project, Contra Costa County, California; Hydraulic Model Investigation, by W. G. Davis	AD A187 714

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-87-15	Oct 1987	Lift Gate for Lockport Lock, Illinois Waterway; Hydraulic Model Investigation, by D. R. Cooper	AD A188 380
TR HL-87-16	Dec 1987	Hurricane Protection Structure for London Avenue Outfall Canal, Lake Pontchartrain, New Orleans, Louisiana; Hydraulic Model Investigation, by J. R. Leech	AD A189 348
TR HL-87-17	Dec 1987	Gallipolis Lock Intake Vortex Study, Ohio River; Hydraulic Model Investigation, by R. A. Davidson	AD A188 817
TR HL-88-1	Feb 1988	Hydrodynamic Forces on Tainter Gates and Stilling Basin, Old River Control Auxiliary Structure; Hydraulic Model Investigation, by B. P. Fletcher and J. L. Grace, Jr.	AD A192 262
TR HL-88-2	Feb 1988	Pumping Station Inflow--Discharge Hydraulics, Generalized Pump Sump Research Study, by B. P. Fletcher, G. R. Triplett, J. L. Grace, and J. J. Robertson	AD A201 693
TR HL-88-3	Feb 1988	Sweetwater River Channel Improvement Project, San Diego County, California; Hydraulic Model Investigation, by H. O. Turner, Jr.	AD A194 791
TR HL-88-4	Mar 1988	Stable Riprap Size for Open Channel Flows, by S. T. Maynard	AD A195 245
TR HL-88-5	Mar 1988	Old River Overbank Structure, Louisiana; Hydraulic Model Investigation, by J. L. Grace, Jr., N. R. Oswalt, and E. D. Rothwell	AD A194 978
TR HL-88-6	Apr 1988	Old River Low-Sill Control Structure: Dynamic Hydraulic Forces Acting on the Stilling Basin, Survey Boat Safety, and Debris Passage; Hydraulic Model Investigation, by B. P. Fletcher	AD A194 306
TR HL-88-7	Apr 1988	Pond Creek Pumping Station, Southwestern Jefferson County, Kentucky; Hydraulic Model Investigation, by B. P. Fletcher	AD A194 387
TR HL-88-8	Apr 1988	Lower James River Circulation Study, Virginia; Evaluation of Craney Island Enlargement Alternatives, by S. B. Heltzel and M. A. Granat	AD A194 439
TR HL-88-9		Lake Darling Spillway, Souris River, North Dakota:	
	Apr 1988	Report 1 Hydraulic Model Investigation, by D. R. Cooper	AD A196 086
	Sep 1992	Report 2 Modified Spillway; Hydraulic Model Investigation, by D. R. Cooper	AD A258 434
TR HL-88-10	May 1988	Dynamic Loading on Sidewall Monoliths of a Spillway Stilling Basin; Hydraulic Model Investigation, by B. P. Fletcher and P. E. Saunders	AD A194 916

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-88-11	May 1988	Muddy Creek Grade Control Structures, Muddy Creek, Mississippi and Tennessee; Hydraulic Model Investigation, by C. H. Tate, Jr.	AD A196 210
TR HL-88-12	Jun 1988	Steele Bayou Gravity Control Structure, Vicksburg, Mississippi; Hydraulic Model Investigation, by W. B. Fenwick	AD A197 649
TR HL-88-13	Jun 1988	Cinque Hommes, Jones Cutoff, Bois Brule, and Missouri Chute Pumping Stations; Perry County, Missouri, and Randolph County, Illinois; Hydraulic Model Investigation, by B. P. Fletcher	AD A197 699
TR HL-88-14	Jun 1988	Old River Control Auxiliary Structure; Hydraulic Model Investigation, by B. P. Fletcher and P. Bhramayana	AD A196 618
TR HL-88-15	Jun 1988	Red River Waterway Sedimentation Study Downstream from Lock and Dam No. 1; Numerical Model Investigation, by R. R. Copeland and W. A. Thomas	AD A196 885
TR HL-88-16	Jul 1988	Advance Maintenance in Entrance Channels: Evaluation of Selected Projects; Hydraulic Model Investigation, by M. J. Trawle and J. A. Boyd	AD A198 898
TR HL-88-17	Aug 1988	Blountstown Reach, Apalachicola River; Movable-Bed Model Study, by R. A. McCollum	AD A199 360
TR HL-88-18	Aug 1988	Sediment Transport in Hyperconcentrated Flows in Sand-Bed Streams of Volcanic Origin, by B. J. Brown	AD A200 192
TR HL-88-19	Aug 1988	Application of a Two-Dimensional Model of Hydrodynamics and Water Quality (CE-QUAL-W2) to Cordell Hull Reservoir, Tennessee, by S. E. Howington	AD A198 899
TR HL-88-20	Aug 1988	Inventory of Training Structures in Estuaries, by Walter Pankow and M. J. Trawle	AD A198 537
TR HL-88-21	Sep 1988	Martins Fork Lake Sedimentation Study; Hydraulic Model Investigation, by W. D. Martin	AD A199 778
TR HL-88-22	Sep 1988	Temperature Analysis, Howard A. Hanson Reservoir, Washington; Mathematical Model Investigation, by M. L. Schneider and R. E. Price	AD A200 228
TR HL-88-23	Sep 1988	Wax Lake Outlet Control Structure, Louisiana; Hydraulic Model Investigation, by R. A. Davidson	AD A199 971
TR HL-88-24	Sep 1988	New Haven Harbor Numerical Model Study, by D. R. Richards	AD A200 191
TR HL-88-25	Sep 1988	I-664 Bridge-Tunnel Study, Virginia; Sedimentation and Circulation Investigation, by S. B. Heltzel	AD A200 184

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-88-26	Nov 1988	Telegraph Canyon Creek Channel Improvement Project, San Diego County, California; Hydraulic Model Investigation, by G. A. Pickering and J. F. George	AD A201 070
TR HL-88-27	Nov 1988	San Francisco Bay: Modeling System for Dredged Material Disposal and Hydraulic Transport, by V. R. Pankow	AD A200 469
TR HL-88-28	Dec 1988	Total Sediment Load Measurement Using Point-Source Suspended-Sediment Data, by J. J. Ingram	AD A201 648
TR HL-88-29	Nov 1988	Wax Lake Outlet Control Structure, Atchafalaya River; Hydraulic Model Investigation, by C. R. Nickles and T. J. Pokrefke, Jr.	AD A203 497
TR HL-89-1	Jan 1989	Submersible-Type Tainter Gate for Spillway, Marseilles Lock and Dam; Hydraulic Model Investigation, by D. R. Cooper	AD A204 592
TR HL-89-2	Feb 1989	West Access Channel Realignment, Atchafalaya River; Hydraulic Model Investigation, by C. R. Nickles and D. M. Maggio	AD A207 280
TR HL-89-3	Feb 1989	Effects of Cooper River Rediversion Flows on Shoaling Conditions at Charleston Harbor, Charleston, South Carolina, by A. M. Teeter	AD A205 454
TR HL-89-4	Mar 1989	Water Quality Outlet Works Prototype Tests, Warm Springs Dam, Dry Creek, Russian River Basin, Sonoma County, California, by T. L. Fagerburg, R. E. Price, and S. E. Howington	AD A207 058
TR HL-89-5	Apr 1989	Dutch Gulch Outlet Works, Cottonwood Creek, California; Hydraulic Model Investigation, by W. G. Davis	AD A208 037
TR HL-89-6	Apr 1989	Corte Madera Lock Sedimentation Study; Numerical Model Investigation, by R. R. Copeland and W. A. Thomas	AD A207 175
TR HL-89-7	Apr 1989	Little Dell Outlet Structure, Utah; Hydraulic Model Investigation, by B. P. Fletcher	AD A207 531
TR HL-89-8	Apr 1989	Development of an Efficient Solution Scheme for Incompressible Steady-State Flow, by J. P. Holland	AD A207 726
TR HL-89-9	Apr 1989	Field Studies of Sediment Resuspension Characteristics of Selected Dredges, by T. N. McLellan, R. N. Havis, D. F. Hayes, and G. L. Raymond	AD A207 922
TR HL-89-10	May 1989	Navigation Conditions at Gallipolis Locks and Dam, Ohio River; Hydraulic Model Investigation, by L. J. Shows and R. T. Wooley	AD A209 400

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-89-11	May 1989	Deposition and Erosion Testing on the Composite Dredged Material Sediment Sample from New Bedford Harbor, Massachusetts, by A. M. Teeter and Walter Pankow	AD A208 990
TR HL-89-12	Jun 1989	Newport News Channel Deepening Study, Virginia; Numerical Model Investigation, by H.-C. J. Lin and W. D. Martin	AD A208 993
TR HL-89-13	Jul 1989	Intake Structure Operation Study, Lost Creek Dam, Oregon, by S. E. Howington	AD A210 588
TR HL-89-14	Jul 1989	Verification of the Hydrodynamic and Sediment Transport Hybrid Modeling System for Cumberland Sound and Kings Bay Navigation Channel, Georgia, by M. A. Granat, N. J. Brogdon, J. T. Cartwright, and W. H. McAnally, Jr.	AD A211 045
TR HL-89-15	Aug 1989	Prototype Evaluation of Bay Springs Lock, Tennessee-Tombigbee Waterway, Mississippi, by R. G. McGee	AD A212 431
TR HL-89-16		Red River Waterway, John H. Overton Lock and Dam:	
	Sep 1990	Report 4 Stilling Basin, Riprap, and Hydropower Requirements; Spillway and Hydropower Model Investigation, by S. T. Maynard and J. V. Markussen	AD A227 172
	Aug 1989	Report 5 Sedimentation in Lock Approaches; TABS-2 Numerical Model Investigation, by B. M. Comes, R. R. Copeland, and W. A. Thomas	AD A211 620
TR HL-89-17	Aug 1989	Kinzua Dam, Allegheny River, Pennsylvania and New York; Hydraulic Model Investigation, by W. B. Fenwick	AD A212 430
TR HL-89-18	Aug 1989	Clover Fork Tunnel Diversion Project, Harlan, Kentucky; Hydraulic Model Investigation, by S. K. Martin	AD A212 878
TR HL-89-19	Sep 1989	Model Study of Prado Flood-Control Dam; Hydraulic Model Investigation, by J. F. George	AD A213 101
TR HL-89-20	Sep 1989	Thermal Analysis of Prompton Reservoir Modification, Pennsylvania; Numerical Model Investigation, by R. E. Price and J. P. Holland	AD A213 734
TR HL-89-21	Sep 1989	Small-Boat Survey Systems, by B. W. McCleave and E. D. Hart	AD A215 820
TR HL-89-22	Nov 1989	An Analysis of Training Structure Designs in Southwest Pass, Mississippi River, by S. B. Heltzel, W. D. Martin, R. C. Berger, and D. R. Richards	AD A216 113

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-89-23	Nov 1989	Winyah Bay, Georgetown, South Carolina, Data Collection Survey Report, by T. L. Fagerburg	AD A215 824
TR HL-89-24	Nov 1989	Sedimentation Analysis of the Proposed San Rafael Canal Tidal Barrier, San Rafael, California, by L. M. Hauck	AD A217 213
TR HL-89-25	Sep 1989	Mississippi-Louisiana Estuarine Area Study: Salinity and Circulation at and Near Bay Boudreau in Biloxi Marshes, Eastern Louisiana, by Walter Pankow, J. M. Savage, A. M. Teeter, and W. H. McAnally, Jr.	AD A216 462
TR HL-89-26	Dec 1989	A Numerical Model Study of the Effect of Channel Deepening on Shoaling and Salinity Intrusion in the Savannah Estuary, by B. H. Johnson, M. J. Trawle, and P. G. Kee	AD A217 107
TR HL-89-27	Sep 1989	Navigation Conditions at Oliver Lock and Dam, Black Warrior River Project; Hydraulic Model Investigation, by R. T. Wooley	AD A216 924
TR HL-90-1	Feb 1990	Formed Suction Intake Approach Appurtenance Geometry, by B. P. Fletcher	AD A218 754
TR HL-90-2		Red River Waterway, Lock and Dam No. 4:	
	Jun 1992	Report 3 Sedimentation Conditions; Hydraulic Model Study, by D. S. Mueller, D. M. Maggio, and T. J. Pokrefke	AD A253 577
	Feb 1992	Report 4 Stilling Basin and Riprap Requirements; Spillway Hydraulic Model Study, by J. R. Leech	AD A247 763
	Mar 1990	Report 5 Sedimentation in Lock Approaches; Tabs-2 Numerical Model Investigation, by R. R. Copeland, R. E. Heath, and W. A. Thomas	AD A221 283
TR HL-90-3	May 1990	Waimea River Sedimentation Study, Kauai, Hawaii; Numerical Model Investigation, by R. R. Copeland	AD A223 186
TR HL-90-4	May 1990	Yazoo Backwater Pumping Station Discharge Outlet, by J. R. Leach	AD A223 429
TR HL-90-5	Sep 1990	Numerical Modeling of Hydrodynamics, Brazos Island Harbor Project, Texas (Brownsville Ship Channel), by L. M. Hauck and Ben Brown, Jr.	AD A229 207
TR HL-90-6		San Francisco Central Bay Suspended Sediment Movement:	
	Sep 1990	Report 1 Summer Condition Data Collection Program and Numerical Model Verification, by L. M. Hauck, A. M. Teeter, Walter Pankow, and R. A. Evans, Jr.	AD A228 040

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-90-7	Aug 1990	Mississippi River-Gulf Outlet, Louisiana; Field Data Report, by T. L. Fagerburg	AD A227 194
TR HL-90-8	Aug 1990	Yazoo Backwater Pumping Station Sump, West-Central Mississippi; Hydraulic Model Investigation, by B. P. Fletcher	AD A227 223
TR HL-90-9	Aug 1990	Red River Waterway, Revised Outlets for Red River Locks; Hydraulic Model Investigation, by R. L. Stockstill	AD A227 929
TR HL-90-10	Aug 1990	Near-Bed Optical Backscatter Sensor and Vector-Measuring Velocity Meter Calibration, by T. C. Pratt	AD A231 728
TR HL-90-11		Ship Navigation Simulator Study, Sacramento River Deepwater Ship Channel Project, Sacramento, California: Report 1 Phase 1:	
	Sep 1990	Volume 1 Main Text and Appendix A, by R. H. T. Nguyen and L. L. Daggett	AD A229 287
	Sep 1990	Volume 2 Appendixes B and C, by R. H. T. Nguyen and L. L. Daggett	AD A229 286
TR HL-90-12	Sep 1990	New Madrid Pumping Station, Gravity Flow Conduit and Confluence, New Madrid Floodway, Missouri; Hydraulic Model Investigation, by J. R. Leech	AD A227 457
TR HL-90-13	Sep 1990	Channel Maintenance by Training Structures: Guidance for Numerical Model Mesh Development, by R. C. Berger, Jr.	AD A226 745
TR HL-90-14	Sep 1990	San Ramon Bypass Channel Overflow Weir, Contra Costa County, California; Hydraulic Model Investigation, by W. G. Davis	AD A227 266
TR HL-90-15	Sep 1990	Velocities Induced by Commercial Navigation, by S. T. Maynard	AD A227 268
TR HL-90-16	Sep 1990	Intake Structure Operation Study, Elk Creek Dam, Oregon, by S. E. Howington	AD A227 265
TR HL-90-17		Sand Waves:	
	Sep 1992	Report 1 Sand Wave Shoaling in Navigation Channels, by D. R. Levin, W. J. Lillycrop, and M. P. Alexander	
	Sep 1990	Report 2 Engineering Considerations and Dredging Techniques, by M. P. Alexander	AD A228 025

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-90-18	Oct 1990	Rio Puerto Nuevo Flood-Control Project, San Juan, Puerto Rico; Hydraulic Model Investigation, by R. L. Stockstill and J. R. Leech	AD A231 076
TR HL-90-19		A Study of Vegetation on Revetments, Sacramento River Bank Protection Project:	
	Nov 1990	Phase I: Literature Review and Pilot Study, by D. F. Shields, Jr., L. T. Etheridge, and T. N. Waller	AD A230 763
TR HL-90-20		Dredging Alternatives Study, Cubits Gap, Lower Mississippi River:	
	Jan 1991	Report 1 TABS-1 Numerical Model Investigation, by R. R. Copeland	AD A231 650
		Report 2 TABS-2 Numerical Model Investigation:	
	Nov 1990	Volume I Main Text and Appendix A, by H. J. Lin, W. D. Martin, and D. R. Richards	AD A231 238
	Nov 1990	Volume II Appendix B, by H. J. Lin, W. D. Martin, and D. R. Richards	AD A231 281
TR HL-90-21		Cumberland Sound and Kings Bay, Pre-Trident and Basic Trident Channel Hydrodynamic and Sediment Transport Hybrid Modeling:	
	Dec 1990	Volume I Main Text and Appendixes A, C, and D, by M. A. Granat and N. J. Brogdon	AD A231 434
	Apr 1991	Volume II Appendix B, by W. H. McAnally, Jr., and M. A. Granat	AD A237 166
TR HL-91-1	Jan 1991	Data Employed in the Development of a Three-Dimensional, Time-Varying Numerical Hydrodynamic Model of Chesapeake Bay, by A. F. Blumberg, B. H. Johnson, R. H. Heath, et al.	AD A231 654
TR HL-91-2	Jan 1991	TABS-MD Numerical Modeling Investigation of Shoaling in the Mississippi River-Gulf Outlet, by B. P. Donnell and J. V. Letter, Jr.	AD A232 691
TR HL-91-3	Jan 1991	St. Johns Bayou Pumping Station, Missouri; Hydraulic Model Investigation, by B. P. Fletcher	AD A234 193

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-91-4		Cumberland Sound Monitoring:	
	Feb 1991	Report 1 1988 Data Collection Report, by T. L. Fagerburg, H. A. Benson, J. W. Parman, and G. M. Fisackerly	AD A234 192
	Aug 1991	Report 2 1989 Data Collection Report, by T. L. Fagerburg, C. J. Coleman, J. W. Parman, and G. M. Fisackerly	AD A241 238
	Apr 1992	Report 3 1990 Data Collection Report, by T. L. Fagerburg, C. J. Coleman, J. W. Parman, and G. M. Fisackerly	AD A250 875
	Oct 1992	Report 4 1991-1992 Data Collection Report, by T. L. Fagerburg, C. J. Coleman, J. W. Parman, and G. M. Fisackerly	AD A258 227
TR HL-91-5	Mar 1991	Melvin Price Locks and Dam Auxiliary Lock and Rotary Lock Culvert Valve, Mississippi River, Alton, Illinois; Hydraulic Model Investigation, by W. G. Davis and R. A. Davidson	AD A236 437
TR HL-91-6	Apr 1991	Ship Navigation Simulation Study, Miami Harbor Navigation Improvement Project, Miami, Florida, by J. C. Hewlett	AD A234 569
TR HL-91-7		Development and Verification of a Three-Dimensional Numerical Hydrodynamic, Salinity, and Temperature Model of Chesapeake Bay:	
	Aug 1991	Volume I Main Text and Appendix D, by B. H. Johnson, R. E. Heath, B. B. Hsieh, et al.	AD A243 785
	Aug 1991	Volume II Appendixes A through C, by B. H. Johnson, R. E. Heath, B. B. Hsieh, et al.	AD A243 786
TR HL-91-8	May 1991	Ship Navigation Simulation Study, Brazos Island Harbor 42-Foot Improvement, Brownsville, Texas, by D. W. Webb and L. L. Daggett	AD A236 603
TR HL-91-9	May 1991	Alton Pumping Station, Alton, Illinois; Hydraulic Model Investigation, by T. L. Kirkpatrick and B. P. Fletcher	AD A237 488
TR HL-91-10		Red River Waterway, Lock and Dam No. 3:	
	Jun 1991	Report 4 Stilling Basin and Riprap Requirements; Spillway Hydraulic Model Study, by S. T. Maynard	AD A237 440

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-91-10 (Cont.)	Dec 1991	Report 5 Sedimentation in Lock Approaches; TABS-2 Numerical Model Investigation, by R. R. Copeland, B. M. Comes, and W. A. Thomas	AD A245 639
TR HL-91-11	Jun 1991	Morning Glory Inlet and Manifold Outlet Structure, McCook Reservoir, Chicago, Illinois; Hydraulic Model Investigation, by B. P. Fletcher	AD A239 044
TR HL-91-12	Jul 1991	Submersible-Type Tainter Gate for Spillway, Peoria Lock and Dam; Hydraulic Model Investigation, by D. R. Cooper	AD A241 405
TR HL-91-13	Aug 1991	Soil Conservation Service Low Drop Structure Model Study; Hydraulic Model Investigation, by C. H. Tate, Jr.	AD A241 213
TR HL-91-14	Sep 1991	A Turbulence Model for Recirculating Flow, by R. S. Bernard	AD A241 355
TR HL-91-15		Harry S. Truman Dam Spillway and Powerhouse, Osage River, Missouri; Hydraulic Model Investigation:	
	Sep 1991	Volume I Main Text, by J. R. Leech	AD A241 967
	Sep 1991	Volume II Appendix A, by J. R. Leech	AD A241 737
TR HL-91-16	Sep 1991	Field Data Collection Report, Boston Harbor Project, Massachusetts, by T. L. Fagerburg, C. J. Coleman, and G. M. Fisackerly	AD A241 686
TR HL-91-17	Sep 1991	McCook Reservoir Water Quality Model; Numerical Model Investigation, by R. E. Price and Dottie Tillman	AD A243 014
TR HL-91-18	Sep 1991	Ship Simulation Study of Grays Harbor Navigation Project, Grays Harbor, Washington, by J. C. Hewlett, K. M. Eagles, C. J. Huval, and L. L. Daggett	AD A244 084
TR HL-91-19	Sep 1991	Pompton Dam Spillway, Pompton Lake, Ramapo River Basin, New Jersey; Hydraulic Model Investigation, by D. R. Cooper	AD A245 867
TR HL-91-20	Oct 1991	User's Guide for a Three-Dimensional Numerical Hydrodynamic, Salinity, and Temperature Model of Chesapeake Bay, by B. H. Johnson, R. E. Heath, B. B. Hsieh, et al.	AD A242 993
TR HL-91-21	Oct 1991	Impact of Agricultural Levees on Flood Hazards, by B. R. Hall	AD A242 638

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-91-22	Dec 1991	Field Data Collection Report, Saugus River and Tributaries Flood Damage Reduction Project, Lynn, Malden, Revere, and Saugus, Massachusetts, by T. L. Fagerburg, C. J. Coleman, J. W. Parman, and G. M. Fisackerly	AD A246 259
TR HL-91-23	Dec 1991	Perry Creek Conduit, Sioux City, Iowa; Hydraulic Model Investigation, by J. E. Hite, Jr.	AD A245 815
TR HL-92-1	Feb 1992	Brush Creek, Kansas City, Missouri; Hydraulic Model Investigation, by Walter Linder and H. O. Turner, Jr.	AD A248 499
TR HL-92-2	Feb 1992	Lockwoods Folly Numerical Circulation Study, by R. A. Evans	AD A248 506
TR HL-92-3	Mar 1992	Field Data Collection Report, Mouth of the Colorado River, Texas, by T. L. Fagerburg, C. J. Coleman, J. W. Parman, and G. M. Fisackerly	AD A250 408
TR HL-92-4	Jun 1992	Hydrodynamic Data Collection in Cumberland Sound, Georgia, by T. L. Fagerburg, S. C. Knowles, G. M. Fisackerly, et al.	AD A254 638
TR HL-92-5	Jun 1992	Riprap Stability: Studies in Near-Prototype Size Laboratory Channel, by S. T. Maynard	AD A254 960
TR HL-92-6	Jun 1992	Lower Mississippi River, Tarbert Landing to East Jetty Sedimentation Study; Numerical Model Investigation, by R. R. Copeland and W. A. Thomas	AD A254 685
TR HL-92-7		Houston-Galveston Navigation Channels, Texas Project:	
	Jul 1992	Report 2 Two-Dimensional Numerical Modeling of Hydrodynamics, by Hsin-Chi J. Lin	AD A255 082
TR HL-92-8	Aug 1992	Effects of a Proposed Bushy Park Entrance Canal Relocation, Cooper River, South Carolina, by A. M. Teeter	
TR HL-92-9	Sep 1992	Depth-Averaged Numerical Modeling for Curved Channels, by R. S. Bernard and M. L. Schneider	AD A258 068
TR HL-92-10	Sep 1992	Truckee River Flood-Control Project, Truckee Meadows (Reno-Sparks Metropolitan Area), Nevada; Hydraulic Model Investigation, by R. L. Stockstill	AD A259 083
TR HL-92-11	Sep 1992	Hydrodynamics at Mouth of Colorado River, Texas, Project; Numerical Model Investigation, by L. M. Hauck	AD A257 272
TR HL-92-12	Sep 1992	Prototype Evaluation of Selective Withdrawal System, Taylorsville Dam, Salt River, Kentucky, by R. G. McGee and S. E. Howington	AD A256 219

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-92-13	Nov 1992	Olmsted Lock Outlet, Ohio River; Hydraulic Model Investigation, by R. L. Stockstill	AD A259 299
TR HL-92-14	Oct 1992	Outlet Works for Seven Oaks Dam, Santa Ana River, San Bernardino County, California; Hydraulic Model Investigation, by D. R. Cooper	AD A259 194
TR HL-92-15	Dec 1992	Center Hill Fuseplug Spillway, Caney Fork River, Tennessee; Hydraulic Model Investigation, by B. P. Fletcher and P. A. Gilbert	AD A259 906
TR HL-92-16	Oct 1992	Debris Spillway and Chute for Millers Ferry Powerhouse, Alabama River, Alabama; Hydraulic Model Investigation, by D. R. Cooper	AD A261 220
TR HL-93-1	Mar 1993	St. Stephen Powerhouse Fish Lift, Cooper River Rediversion Project, South Carolina; Hydraulic Model Investigation, by T. E. Murphy, Jr., and J. E. Hite, Jr.	AD A265 312
TR HL-93-2	Mar 1993	Fort Peck Tunnel No. 1 Rehabilitation, Fort Peck Dam, Montana, by C. H. Tate, Jr., and R. G. McGee	
TR HL-93-3		Demonstration Erosion Control Project Monitoring Program, Fiscal Year 1992 Report:	
	Mar 1993	Volume I Main Text, by N. K. Raphelt, T. N. Waller, D. D. Abraham, et al.	AD A267 190
	Jun 1993	Volume II Appendix A, Hickahala-Senatobia Watershed Profiles and Cross Sections, by T. N. Waller and L. C. Hubbard	
	May 1993	Volume III Appendix B, Long Creek Watershed Profiles and Cross Sections, by T. N. Waller and L. C. Hubbard	AD A267 554
	Jun 1993	Volume IV Appendix C, Batupan Bogue Watershed Profiles and Cross Sections, by T. N. Waller and L. C. Hubbard	AD A267 830
	Jun 1993	Volume VI Appendix E, Expeditious Design and Review of Pipe-Drop Drainage Features, by C. C. Watson and S. R. Abt	AD A268 223
	Jun 1993	Volume VII Appendix F, Model Study of Bendway Weirs as Bank Protection, by T. J. Pokrefke	AD A271 162
TR HL-93-4	May 1993	A Three-Dimensional Numerical Model Study for the Chesapeake and Delaware Canal and Adjacent Bays, by B. B. Hsieh, B. H. Johnson, and D. R. Richards	AD A266 272

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR HL-93-5	May 1993	Numerical Model Investigation of Saugus River and Tributaries, Massachusetts, Flood Damage Reduction Project, by Hsin-Chi J. Lin and D. R. Richards	AD A266 336

Video Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
VR HL-89-1	Aug 1989	Debris Study of the Proposed Diversion Tunnels at Harlan, Kentucky, by S. K. Martin	

Information Technology Laboratory

Information Technology Laboratory

Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR ITL-89-1	Sep 1989	State of the Art on Expert Systems Applications in Design, Construction and Maintenance of Structures, by M. Arockiasamy and Sunghoon Lee	AD A198 542
CR ITL-90-1	Oct 1990	Geographic Information Systems: A Primer, by B. E. Davis and K. L. Schultz	AD A231 465
CR ITL-90-2	Nov 1990	Design Reliability for Estimating Cost of Pile Foundations, by Ahmed Banafa, D. M. Frangopol, and G. G. Goble	AD A230 993
CR ITL-92-1	Jun 1992	Optimization of Steel Pile Foundations Using Optimality Criteria, by A. S. Hoback and K. Z. Truman	AD A268 642
CR ITL-92-2	Sep 1992	Knowledge-Based Expert System for Selection and Design of Retaining Structures, by M. Arockiasamy, G. Sreenivasan, and K. Shen	AD A258 843
CR ITL-92-3	Sep 1992	Evaluation of Thermal and Incremental Construction Effects for Monoliths AL-3 and AL-5 of the Melvin Price Locks and Dams, by K. Z. Truman, D. J. Petruska, and Abdelkader Ferhi	AD A259 236

Information Exchange Bulletins*

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
K-79-1 thru K-79-3	Mar 1979 thru Sep 1979	Engineering Computer Notes	
K-80-1 thru K-80-4	Mar 1980 thru Dec 1980	Engineering Computer Notes	
K-81-1 thru K-81-3	Apr 1981 thru Oct 1981	Engineering Computer Notes	
K-82-1 thru K-82-3	Mar 1982 thru Oct 1982	Engineering Computer Notes	
K-83-1	May 1983	Engineering Computer Notes	
K-84-1	Apr 1984	Engineering Computer Notes	
K-84-2	Oct 1984	Engineering Computer Notes	
K-85-1	Apr 1985	Engineering Computer Notes	
ATC-86-1	Mar 1986	Engineering Computer Notes	
ITL-86-1	Aug 1986	Engineering Computer Notes	
ITL-87-1 thru ITL-87-2	Jan 1987 thru Aug 1987	Engineering Computer Notes	
ITL 90-1	Jul 1990	Engineering Computer Notes	
ITL 91-1	Jun 1991	Engineering Computer Notes	
ITL 91-2	Sep 1991	Engineering Computer Notes	
ITL 92-1	Jan 1992	Engineering Computer Notes	
ITL-92-2	Jul 1992	Engineering Computer Notes	

* Formerly issued by the Automation Technology Center.

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR ITL-86-1	Oct 1986	Guide for Preparation of Waterways Experiment Station Technical - Information Reports	
	Aug 1987	Change No. 1	
IR ITL-87-1	Apr 1987	User's Guide: Computer Program for Two-Dimensional Analysis of U-Frame Structures (CUFRAM), by W. P. Dawkins	AD A182 553
IR ITL-87-2	May 1987	User's Guide for Concrete Strength Investigation and Design (CASTR) in Accordance with ACI 318-83, by C. C. Hamby and W. A. Price III	AD A182 902
IR ITL-87-2	Mar 1992 Revised	User's Guide for Concrete Strength Investigation and Design (CASTR) in Accordance with ACI 381-89, by C. C. Hamby and W. A. Price III	AD A249 027
IR ITL-87-3		User's Guide: A Three-Dimensional Stability Analysis Design Program (3DSAD):	
	Jun 1987	Report 1 Revision I: General Geometry Module, by F. T. Tracy	AD A184 261
	Sep 1989	Report 2 General Loads Module, by F. T. Tracy and M. A. Leggett	AD A220 331
	Sep 1989	Report 6 Free-Body Module, by F. T. Tracy and M. A. Leggett	AD A213 978
IR ITL-87-4	Jun 1987	User's Guide: 2-D Frame Analysis Link Program (LINK2D), by C. A. Merrill	AD A183 569
IR ITL-87-5	Oct 1987	Sliding Stability of Concrete Structures (CSLIDE), by M. E. Pace and V. R. Noddin	AD A189 334
IR ITL-87-6*	Dec 1987	Criteria Specifications for and Validation of a Computer Program for the Design or Investigation of Horizontally Framed Miter Gates (CMITER), by W. A. Price III and M. D. Weiland	AD B119 185L
IR ITL-88-1	Apr 1988	User's Guide: Computer Program for Analysis of Planar Grid Structures (CGRID), by W. P. Dawkins	AD A195 977
IR ITL-88-2*	Jun 1988	User's Guide for Design and Investigation of Horizontally Framed Miter Gates (CMITER), by C. C. Hamby, J. A. Hood, and W. A. Price IIIIR	AD B129 581

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
ITL-88-3*	Jun 1988	Manual for a Conversationally Oriented Real-Time Programming System (CORPS) on the Cybernet CDC Computer System, by H. W. Jones and D. G. Biedenharn	AD B125 160
IR ITL-88-4*	Sep 1988	User's Guide for Revised Computer Program to Calculate Shear, Moment, and Thrust (CSMT), by F. T. Tracy, R. L. Hall, K. W. Trahan, et al.	AD B127 876
IR ITL-90-1	Feb 1990	User's Guide: Computer Program for Design and Analysis of Sheet Pile Walls by Classical Methods (CWALSHT), by W. P. Dawkins	AD A220 932
IR ITL-90-2*	Jun 1990	User's Guide: Pile Group--Concrete Pile Analysis Program (CPGC) Preprocessor to CPGA Program, by Ralph Strom, Kevin Abraham, and H. W. Jones	AD B154 304L
IR ITL-90-4	Sep 1990	Tutorial Guide: Computer Aided Structural Modeling (CASM); Version 1.01, Release Date - February 1990, by David Wickersheimer, Gene McDermott, Ken Taylor, and Carl Roth	AD A228 402
IR ITL-90-5	Sep 1990	User's Guide: Computer Aided Structural Modeling (CASM), Version 1.01, Release Date - February 1990, by David Wickersheimer, Gene McDermott, Ken Taylor, and Carl Roth	AD A228 456
IR ITL-90-6	Sep 1990	User's Guide: Computer Program for Two-Dimensional Analysis of U-Frame or W-Frame Structures (CWFRAM), by T. D. Jordan and W. F. Dawkins	AD A229 059
IR ITL-91-1	Oct 1991	User's Guide: Computer Program for Design and Analysis of Sheet-Pile Walls by Classical Methods (CWALSHT) Including Rowe's Moment Reduction, by W. P. Dawkins	AD A243 811
IR ITL-92-1	Nov 1992	Vendor Information System (VIS) User's Manual, by M. F. Harrison and P. A. Duett	AD A260 624
IR ITL-92-2	Dec 1992	Cadd User's Guide to the CEAP-NET and WES Bulletin Board, by Matt Hale, Martin Montes, and Roger Porzig	
IR ITL-92-3		Concept Design Example, Computer Aided Structural Modeling (CASM):	
	Jun 1992	Report 1 Schema A, by David Wickersheimer, Gene McDermott, Carl Roth, and M. E. Pace	AD A254 137
	Jun 1992	Report 2 Scheme B, by David Wickersheimer, Gene McDermott, Carl Roth, and M. E. Pace	AD A264 760

* Statement B. See Preface.

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR ITL-92-3 (Cont.)	Jun 1992	Report 3 Scheme C, by David Wickersheimer, Gene McDermott, Carl Roth, and M. E. Pace	AD A254 137
IR ITL-92-4	Apr 1992	User's Guide: Computer-Aided Structural Modeling (CASM); Version 3.00, by David Wickersheimer, Gene McDermott, Carl Roth, and M. E. Pace	AD A255 074
IR ITL-92-5	Apr 1992	Tutorial Guide: Computer-Aided Structural Modeling (CASM); Version 3.00, by David Wickersheimer, Gene McDermott, Carl Roth, and M. E. Pace	AD A255 075
IR ITL-93-1	Jan 1993	Guide for Preparation of Waterways Experiment Station Technical Information Reports	AD A260 251
IR ITL-93-2	Apr 1993	Guide for Preparation of Waterways Experiment Station Contract Reports	

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Dec 1987	Information Systems Plan (includes Appendices A-L)	
Unnumbered	Jun 1988	FY 89 Information Management Plan	
MP ITL-89-1	Jun 1989	FY 91-97 Information Management Plan	
MP ITL-89-2	Oct 1989	Review of Automated Review Management System, by N. Radhakrishnan	
MP ITL-90-1	Mar 1990	Guide for the Use of Intergraph RandMicas Structural Software for Computer-Aided Design and Drafting (CADD)	AD A220 624
MP ITL-90-2	Jun 1990	FY 92-98 Information Management Plan	
MP ITL-90-3	May 1990	Design of Sharp Cutoff Filters with Low Quality Factors, by M. G. Ellis	AD A223 130
MP ITL-90-4	Jun 1990	List of Publications of the U.S. Army Engineer Waterways Experiment Station; Volume II, by A. S. Clark and P. A. Taccarino	AD A263 268
MP ITL-90-5	Dec 1990	Review of Finite Element Procedures for Earth Retaining Structures, by R. M. Ebeling	AD A232 230
MP ITL-90-6	Dec 1990	Software Development Standards for Project Cost Management Information System, by M. B. Wright	AD A234 282
MP ITL-90-7	Sep 1990	CADD Surface Modeling for Input to Wave Reponse Numerical Investigations, by S. D. Hatton	AD A227 950
MP ITL-91-1	Jan 1991	Integration of Automated Systems in the Directorate of Engineering Housing	AD A232 026
MP ITL-91-2	Apr 1991	Geotechnical Application Programs for CADD (Computer-Aided Design and Drafting System)	AD A239 110
	Apr 1991	Diskette for Geotechnical Application Programs for Computer Aided Design and Drafting Systems (CADD) (for microcomputers)	AD M000 065
MP ITL-92-1	Jun 1992	Potential Methodologies of Intelligent Access to Multiple Databases, by Peggy Wright	

Technical Reports

Number	Date	Title	AD Number
TR ITL-87-1	Jan 1987	Recommendations: Load-Transfer Criteria for Piles in Clay, by A. G. Heydinger	AD A181 713
TR ITL-87-2	Jan 1987	A Case Project Study of Finite Element Analysis of Concrete Flat Slabs, by David Raisanen	AD A181 712
TR ITL-87-3	Jan 1987	Evaluation of the P-Level Finite-Element Program "FIESTA", by R. L. Hall and C. A. Merrill	AD A181 511
TR ITL-87-4		Finite Element Studies of a Horizontally Framed Miter Gate:	
		Report 1 Initial and Refined Finite Element Models (Phases A, B, and C):	
*	Aug 1987	Volume II Main Text, by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B115 309L
*	Aug 1987	Volume II Appendixes A-G, by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B114 953L
*	Aug 1987	Report 2 Simplified Frame Model (Phase D), by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B115 310L
*	Aug 1987	Report 3 Alternate Configuration Miter Gate Finite Element Studies--Open Sections, by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B115 311L
*	Aug 1987	Report 4 Alternate Configuration Miter Gate Finite Element Studies--Closed Sections, by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B115 312L
*	Aug 1987	Report 5 Alternate Configuration Miter Gate Finite Element Studies--Additional Closed Sections, by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B115 313L
*	Aug 1987	Report 6 Elastic Buckling of Girders in Horizontally Framed Miter Gates, by L. Z. Emkin, K. M. Will, and B. J. Goodno	AD B115 314L
	Aug 1987	Report 7 Application and Summary, by J. P. Hartman, J. D. Gibson, and M. D. Nelson	AD A185 535

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR ITL-87-5	May 1987	Theoretical Manual for Design of Cellular Sheet Pile Structures (Cofferdams and Retaining Structures), by Mark Rossow, Edward Demsky, and Reed Mosher	AD A182 903
TR ITL-87-6	May 1987	Finite Element Method Package for Solving Steady-State Seepage Problems, by D. G. Biedenharn and F. T. Tracy	AD A183 083
TR ITL-87-7	Sep 1987	Comparison of Axial Capacity of Vibratory-Driven Piles to Impact-Driven Piles, by R. L. Mosher	AD A188 305
TR ITL-87-8	Dec 1987	Procedure for Static Analysis of Gravity Dams Using the Finite Element Method - Phase Ia, by K. M. Will	AD A192 410
TR ITL-88-1	Apr 1988	Development of Design Formulas for Ribbed Mat Foundations on Expansive Soils, by J. P. Hartman and B. H. James	AD A194 807
TR ITL-88-2*	Apr 1988	User's Guide: Pile Group Graphics Display (CPGG) Postprocessor to CPGA Program, by J. J. Jaeger, J. J. Jobst, and D. K. Martin	AD B122 516
TR ITL-88-3		Lock and Dam No. 26 (Replacement) Cofferdam Experimental and Analytical Study:	
	Sep 1988	Report 5 Tensile Tests of Steel Sheet Piles, by E. F. O'Neill and W. E. McDonald	AD A201 285
TR ITL-89-1	Jan 1989	WES Communications Plan for Voice and Data, by M. G. Ellis, Sr., and M. B. McGrath	
TR ITL-89-2	Apr 1989	Study on the Availability of Commercial Software for the Corps' Life Cycle Project Management, by N. Radhakrishnan, Bobby Hughey, and Warren Bennett	AD A208 254
TR ITL-89-3	Jul 1989	User's Guide: Pile Group Analysis (CPGA) Computer Program, by J. P. Hartman, J. J. Jaeger, J. J. Jobst, and D. K. Martin	AD A212 544
	Jan 1990	Errata Sheet	
TR ITL-89-4	Aug 1989	CBASIN--Structural Design of Saint Anthony Falls Stilling Basins According to Corps of Engineers Criteria for Hydraulic Structures; Computer Program X0098, by W. A. Price and E. S. Alling	AD A212 545

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR ITL-89-5	Aug 1989	CCHAN--Structural Design of Rectangular Channels According to Corps of Engineers Criteria for Hydraulic Structures; Computer Program X0097, by W. A. Price and E. S. Alling	AD A212 546
TR ITL-89-6	Aug 1989	The Response-Spectrum Dynamic Analysis of Gravity Dams Using the Finite Element Method; Phase II, by Paul Wiersma	AD A212 547
TR ITL-90-1	Apr 1990	A Study of the Effects of Differential Loadings on Cofferdams, by J. R. Martin II, G. W. Clough, and C. E. Via, Jr.	AD A222 319
TR ITL-90-2	Apr 1990	Optical Storage Technology, by E. D. Keenan and N. Radhakrishnan	AD A224 028
TR ITL-90-3		Investigation and Design of U-Frame Structures Using Program CUFRBC:	
	May 1990	Volume A Program Criteria and Documentation, by C. O. Hays, Jr.	AD A224 387
	May 1990	Volume B User's Guide for Basins, by C. O. Hays, Jr., and Tom Wright	AD A225 097
	May 1990	Volume C User's Guide for Channels, by C. O. Hays, Jr., and Clifford Ford	AD A224 388
TR ITL-90-4	May 1990	Finite Element Study of Tieback Wall for Bonneville Navigation Lock, by R. L. Mosher and V. R. Knowles	AD A223 077
TR ITL-90-5	Jun 1990	WES Fiber Optics Ethernet Communication System, by M. G. Ellis	AD A229 058
TR ITL-90-6	May 1992	User's Guide for the Incremental Construction Soil-Structure Interaction Program SOILSTRUCT, by R. M. Ebeling, J. F. Peters, and G. W. Clough	AD A251 388
TR ITL-90-7	Oct 1990	Methods of Evaluating the Stability and Safety of Gravity Earth-Retaining Structures Founded on Rock; Phase 2 Study, by R. M. Ebeling, J. M. Duncan and G. W. Clough	AD A229 798
TR ITL-91-1	Jun 1991	Settlement of Shallow Footings on Sand: Report and User's Guide for Computer Program CSANDSET, by Virginia Knowles	AD A238 950
TR ITL-91-2	Jun 1991	Soil Structure Interaction Parameters for Silt, by T. D. Stark, J. V. Vettel, S. M. Fitzwilliam, and R. M. Ebeling	AD A239 930

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR ITL-91-3	Sep 1991	Application of Finite Element, Grid Generation, and Scientific Visualization Techniques to 2-D and 3-D Seepage and Groundwater Modeling, by F. T. Tracy	AD A242 771
TR ITL-91-4	Nov 1991	Structural Evaluation of Eisenhower and Snell Locks, St. Lawrence Seaway, Massena, New York, by R. L. Mosher, T. L. Bevins, and B. D. Neeley	AD A242 726
TR ITL-92-1	Apr 1992	Three-Dimensional Finite Element Analysis of Sheet-Pile Cellular Cofferdams, by R. L. Mosher	AD A253 398
TR ITL-92-2	May 1992	Finite Element Modeling of Welded Thick Plates for Bonneville Navigation Lock, by J. J. Jaeger, Zhili Feng, D. S. Kim, et al.	AD A251 501
TR ITL-92-3	May 1992	Solution of Soil-Structure Interaction Problems by Coupled Boundary Element-Finite Element Method, by T. Kuppusamy, M. A. Zarco, and R. E. Ebeling	AD A252 505
TR ITL-92-4	Jun 1992	Introduction to the Computation of Response Spectrum for Earthquake Loading, by R. M. Ebeling	AD A253 417
TR ITL-92-5	Aug 1992	Vendor Information System (VIS) Systems Manual, by P. S. Duett and M. F. Harrison	AD A256 174
TR ITL-92-6	Aug 1992	Applications of the Finite Element Seepage Analysis for Program CSEEP (X8202), by V. R. Knowles	AD A255 778
TR ITL-92-7	Sep 1992	Refined Stress Analysis of Melvin Price Locks and Dam, by H. W. Jones	AD A258 000
TR ITL-92-8	Sep 1992	Determination of Residual Stress and Effects in Thick-Section Weldments for Hydraulic Structures, by C. L. Tsai, D. S. Kim, Y. L. Shim, et al.	AD A258 557
TR ITL-92-9	Nov 1992	Intelligent Access to Multiple Relational Database Systems, by Peggy Wright	AD A261 198
TR ITL-92-10	Nov 1992	An Image Processing Technique for Achieving Lossy Compression of Data at Ratios in Excess of 100:1, by M. G. Ellis	AD A259 218
TR ITL-92-11	Nov 1992	The Seismic Design of Waterfront Retaining Structures, by R. M. Ebeling and E. E. Morrison, Jr.	AD A268 607
TR ITL-92-12		Computer-Aided, Field-Verified Structural Evaluation:	
	Nov 1992	Report 1 Development of Computer Modeling Techniques for Miter Lock Gates, by B. C. Commander, J. X. Schulz, G. G. Goble, and C. P. Chasten	AD A260 625

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR ITL-92-12 (Cont.)	Dec 1992	Report 2 Field Test and Analysis Correlation at John Hollis Bankhead Lock and Dam, by B. C. Commander, J. X. Schulz, G. G. Gobel, and C. P. Chasten	AD A262 681

Structures Laboratory

Structures Laboratory

Contract Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR SL-88-1		Effects of Material Property Uncertainties on Ground Shock Environments:	
*	Feb 1988	Report 1 Two-Dimensional Calculations of Site 1 with Simplified DI Source, by I. S. Sandler, David Rubin, and Lorraine Whitman	AD B121 143
*	Sep 1988	Report 2 Two-Dimensional Calculations of Site 1 with Material Property Variations, by I. S. Sandler and David Rubin	AD B125 356
CR SL-88-2	Apr 1988	An Implicit Finite Difference Formulation for Treating Multiphase Flow in Wet Porous Soils, by P. J. Hassig	AD A195 333
CR SL-88-3	May 1988	An Endochronic Plasticity Model for ISST Soils, by K. C. Valanis and H. E. Read	AD A195 391
CR SL-89-1*	Jan 1989	Microcomputer Version of the LAYER Code for Simplified Ground Shock Calculations, by David Rubin and I. S. Sandler	AD B130 988
CR SL-89-2*	Jun 1989	Penetration of a Low L/D, Flared Earth Penetrating Weapon into Frozen Soil Targets, by C. W. Miller, J. A. Hollowell, and W. L. McKay	AD B135 064
CR SL-89-3	Sep 1989	Simplified Analysis of Concrete Gravity Dams Including Foundation Flexibility, by J. M. Nau	AD A213 160
CR SL-91-1*	Jul 1991	Internal Blast Environment from Internal and External Explosions: A User's Guide for the BLASTIN, CHAMBER, TUNREF, and BLASTX Codes, by J. R. Britt	AD B175 636
CR SL-91-2*	Sep 1991	Non-Normal Impact of AP Projectile into Array of Large-Caliber Boulders, by M. D. Gelman, R. B. Nelson, and Y. M. Ito	AD B159 683
CR SL-92-1*	Feb 1992	EXCALIBUR Code Analysis for Penetrator Structural Response, by M. D. Gelman and Y. M. Ito	AD B162 331
CR SL-92-2	Feb 1992	Plane Wave Propagation in Random Granular Media, by Martin Ostojca-Starzewski	AD A247 300
CR SL-92-3*	Jan 1992	1-D Probabilistic Ground Shock Analysis of Generic Mountain C, by J. B. Wilson and S. H. Schuster	AD B163 638

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
CR SL-92-4	Apr 1992	Constitutive Modeling of Rocks with Internal Cracks, by Dusan Krajcinovic and Michal Basista	AD A251 366
CR SL-92-5	Aug 1992	Stochastic Models of Wavefront Propagation in Random Granular Media, by Martin Ostoja-Starzewski	AD A255 127
CR SL-92-6*	Sep 1992	Development of Passive Attenuators for Conventional Weapons, by Q. A. Baker	AD B168 657
CR SL-93-1		Effect of Equation of State on HYDROPLUS Yield Estimates for Contained Explosions in Frozen Rocks:	
*		Report 1 Theoretical Investigation Using First-Principle Ground Shock Code with Best-Estimate Equations of State for Ice, Water, and Limestone, by S. H. Schuster, V. E. Koik, A. C. Cooper, and Y. M. Ito	AD B174 372
*		Report 2 Theoretical Investigation Using First-Principle Ground Shock Code with Best-Estimate Equations of State for Ice, Water, and Sandstone, by S. H. Schuster, A. V. Cooper, and Y. M. Ito	

* Statement B. See Preface.

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR SL-83-1	Oct 1983	Computer-Aided Analysis of Concrete Strength Test, by R. L. Campbell, Sr.	AD A136 265
IR SL-86-1	Sep 1986	Procedure for Assembling WES Column-Based Soil Stress Gages, by D. D. Rickman and H. G. White	AD A172 948
IR SL-87-1	Mar 1987	Manual for the Research Quality Management System, Structures Laboratory, Concrete Technology Division, by L. D. Wakeley	AD A180 369
IR SL-88-1	Apr 1988	User's Guide for Microcomputer Programs CONWEP and FUNPRO, Applications of TM 5-855-1, "Fundamentals of Protective Design for Conventional Weapons," by D. W. Hyde	AD A195 867
IR SL-89-1*	Mar 1989	User's Guide for Armor Plate Test Frame, by Paul Graham	
IR SL-89-2*	Jun 1989	Program "UGT" User's Guide for Estimating the Cost of Horizontal Line-of-Sight Underground Test Events, by J. B. Cheek	AD B134 252
IR SL-92-1*	May 1992	Early-Time Ground Shock from Buried Conventional Explosives: User's Guide for SABER-PC/CWE, by H. D. Zimmerman, R. T. Shimano and Y. M. Ito	AD B164 813
IR SL-93-1*	Mar 1993	Two-Dimensional Projectile Penetration Into Curvilinear Geologic/Structural Targets: User's Guide for PENCURV-PC, by D. C. Creighton and R. P. Berger	

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-79-2*	Jan 1979	Airblast and Ground Shock Produced by the M58-A1 Linear Explosive Charge, Phase I Experiments, by J. K. Ingram	AD B034 491L
MP SL-79-3	Jan 1979	Scientific Exchange Program in the Field of Polymer Concrete, by J. M. Scanlon (also cited as CTIAC No. 35)	AD A065 318
MP SL-79-4	Jan 1979	Quality Control During Hot and Cold Weather Concreting, by J. M. Scanlon (also cited as CTIAC No. 36)	AD A066 989
MP SL-79-5*	Mar 1979	Destruction of Bridge Decking with Explosion-Produced Water Plumes, by B. J. Armstrong	AD B037 562L
MP SL-79-6	Mar 1979	MISERS BLUFF Series; Phase II, Ground Shock and Airblast Measurements Data Report, by D. W. Murrell and J. H. Stout	AD B036 664L
MP SL-79-7	Mar 1979	Verification of Temperature and Thermal Stress Analysis Computer Programs for Mass Concrete Structures, by T. C. Liu, R. L. Campbell, and A. A. Bombich	AD A069 376
MP SL-79-8*	Apr 1979	Response of Foam-Layered Earth-Covered Structures to Contact Burst Rounds, by D. R. Bucci	AD B038 203L
MP SL-79-9*	Apr 1979	Response of a Tubular Sandbag to Thrust and Moment Loading, by S. J. Ressler	AD B037 590L
MP SL-79-10*	May 1979	Improved Portable CP Bunker (Airmobile), by D. R. Bucci	AD B037 632L
MP SL-79-11*	May 1979	ESSEX - DIAMOND ORE RESEARCH PROGRAM; Small-Scale Tunnel Destruction Experiments, ESSEX IV, by C. E. Joachim	AD B039 722L
MP SL-79-12	May 1979	High-Strength Concrete, Past, Present, Future, by K. L. Saucier (also cited as CTIAC No. 37)	AD A069 881
MP SL-79-14	Jun 1979	Response of a Model Roof Slab to Fragment Impact Loading, by T. R. Lutman	AD A072 926
MP SL-79-15	Jun 1979	Repair of Concrete Surfaces Subjected to Abrasion Erosion Damage, by J. E. McDonald and T. C. Liu (also cited as CTIAC No. 40)	AD A073 085

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-79-16	Jul 1979	Examination of Grout and Rock from Duval Mine, New Mexico, by A. D. Buck and J. P. Burkes	AD A073 304
MP SL-79-17	Aug 1979	Testing of 6-In.-Diameter Concrete Cores from Martin Dam, Alabama Power Company, by D. L. Ainsworth, A. D. Buck, S. A. Ragan, and Katharine Mather (also cited as CTIAC No. 38)	AD A073 404
MP SL-79-18	Aug 1979	Nondestructive Testing of Concrete T-Walls, Atchafalaya Basin Protection Levees, New Orleans District, by H. T. Thornton, Jr.	AD A073 906
MP SL-79-19	Sep 1979	Feasibility of Use of Simple Models to Test Explosive Cratering of Roads on Slopes in Rock, by C. C. McAneny	AD A079 600
MP SL-79-20	Sep 1979	The Structural and Durability Properties of Various Concrete Repairs, by C. E. Pace	AD A077 290
MP SL-79-21	Sep 1979	Concrete and Rock Tests, Rehabilitation Work, Marseilles Dam, Illinois Waterway, Chicago District, by R. L. Stowe	AD A077 372
MP SL-79-22	Sep 1979	The 7.6-Angstrom Reaction Product in Smectite Clay-Lime Mixtures, by A. D. Buck and Katharine Mather (also cited as CTIAC No. 41)	AD A075 351
MP SL-79-23	Sep 1979	Grouting Instrumentation, Old River Low Sill Control Structure, by D. L. Ainsworth	AD A076 220
MP SL-79-24	Nov 1979	Loading Rate Effects on Compressibility of Sand, by J. J. Jackson, Jr., J. Q. Ehrigott, and Behzad Rohani	AD A078 495
MP SL-79-25	Nov 1979	Investigation of Lightweight Concrete and Materials, East Los Angeles Comprehensive Health Center Building, by A. D. Buck and T. C. Liu	AD A078 205
MP SL-79-26	Dec 1979	Probabilistic Soil Sampling Program for MX-Related Site Characterization, by E. H. Vanmarcke	AD A084 251
MP SL-80-1	Apr 1980	Finite-Element Calculations of Foam HEST 1, by J. E. Windham	AD A085 255
MP SL-80-2	Apr 1980	Ultrasonic Velocity Measurements in Concrete, Lock and Dam No. 24, Mississippi River, by H. T. Thornton, Jr., and Dale Glass	AD A084 095
MP SL-80-3*	Apr 1980	Tests of Demolition Shaped Charges and Block Demolition Charges Against Simulated Bridge Piers, by D. R. Coltharp	AD B048 366L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-80-4	Apr 1980	Concrete and Rock Tests, Major Rehabilitation and Compliance, Lockport Lock, Illinois Waterway, Chicago District, by R. L. Stowe, S. A. Ragan, R. L. Campbell, et al.	AD A085 380
MP SL-80-5	Apr 1980	Birds Point-New Madrid Floodway Emergency Operation, Explosive Design Summary, by A. D. Rooke, Jr.	AD A085 798
MP SL-80-6	Apr 1980	Concrete and Rock Tests, Major Rehabilitation of Starved Rock Lock and Dam, Illinois Waterway, Chicago District, Phase II Compliance, Scour Detection, by R. L. Stowe and B. A. Pavlov	AD A085 584
MP SL-80-7	Jul 1980	Propagation of Explosive Shock Through Rubble Screens, by J. W. Brown, D. W. Murrell, and J. H. Stout	AD A088 419
MP SL-80-8	Sep 1980	Concrete and Rock Tests, Major Rehabilitation, Dresden Island Lock and Dam, Illinois Waterway, Chicago District, Phase I Rehabilitation, by R. L. Stowe, G. S. Wong, and B. A. Pavlov	AD A090 278
MP SL-80-9	Sep 1980	Stability and Stress Analyses, Marseilles Dam, Illinois Waterway, by C. E. Pace and R. L. Campbell	AD A090 030
MP SL-80-10	Sep 1980	Construction of Tremie Concrete Cutoff Wall, Wolf Creek Dam, Kentucky, by T. C. Holland and J. R. Turner	AD A090 279
MP SL-80-12	Sep 1980	Calculation of Ground Shock Motion Produced by Airburst Explosions Using Cagniard Elastic Propagation Theory, by J. R. Britt	AD A090 031
MP SL-80-13	Sep 1980	Investigation of Distressed Composite Walls, U. S. Army Reserve Armory, Greenwood, Mississippi, by R. H. Denson	AD A090 611
MP SL-80-14	Sep 1980	Investigation of Deterioration of Brick in Navigation Lock Control House Structures, Tulsa District, by R. H. Denson, G. S. Wong, and T. B. Husbands	AD A101 021
MP SL-80-15	Sep 1980	Structural Stability Evaluation, Pokegama Dam, by C. E. Pace, R. L. Campbell, and G. S. Wong	AD A090 612
MP SL-80-16*	Sep 1980	Development of a Tubular Sandbag for Overhead Protection Against Small High-Explosive Superquick Fuze Rounds, by R. W. White	AD B053 470L
MP SL-80-17	Oct 1980	Factors Affecting Sulfate Resistance of Mortars, by Katharine Mather (also cited as CTIAC No. 44)	AD A092 831

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-80-18	Oct 1980	Monitoring Deflection at Lockport and at Brandon Road Locks, Chicago District, by Dale Glass and B. R. Sullivan	AD A092 700
MP SL-80-19	Dec 1980	Concrete Deterioration in Spillway Warm-Water Chute, Raystown Dam, Pennsylvania, by T. C. Holland, T. B. Husbands, A. D. Buck, and G. S. Wong (also cited as CTIAC No. 42)	AD A094 246
MP SL-81-1	Mar 1981	Concrete and Rock Tests, Major Rehabilitation of Dresden Island Lock and Dam, Illinois Waterway, Chicago District, Phase II Compliance, Scour Detection, by R. L. Stowe and B. A. Pavlov	AD A098 613
MP SL-81-2		PSU/WES Interlaboratory Comparative Methodology Study of an Experimental Cementitious Repository Seal Material:	
	Mar 1981	Report 1 Short-Term Results, by D. M. Roy, M. W. Grutzeck, and Katharine Mather (superseded by Report 2)	AD A097 456
	Mar 1982	Report 2 Final Results, by D. M. Roy, M. W. Grutzeck, Katharine Mather, and A. D. Buck (supersedes Report 1)	AD A114 248
MP SL-81-3	Mar 1981	Analysis of Steerability of Tracked Vehicles; Theoretical Predictions Versus Field Measurements, by G. Y. Baladi and Behzad Rohani	AD A098 777
MP SL-81-4	Apr 1981	Correlation of Mobility Cone Index with Fundamental Engineering Properties of Soil, by Behzad Rohani and G. Y. Baladi	AD A101 409
MP SL-81-5	May 1981	Examination of Samples of Bell Canyon Test 1-FF Grout, by J. E. Rhoderick, G. S. Wong, and A. D. Buck	AD A101 213
MP SL-81-6	May 1981	Examination of Sample of Grout After 63 Years Exposure Underground, by J. E. Rhoderick	AD A101 057
	Jan 1982	Errata Sheet No. 1	
MP SL-81-7	May 1981	Examinations of Simulated Borehole Specimens, by J. E. Rhoderick and A. D. Buck	AD A101 416
	Aug 1981	Errata Sheet No. 1	
MP SL-81-8	May 1981	Study of a Proprietary Pozzolanic Product, by A. D. Buck	AD A101 058
	Jan 1982	Errata Sheet No. 1	

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-81-9	Jun 1981	Deterioration and Repair of Concrete in the Lower Monumental Navigation Lock Wall, by E. K. Schrader	AD A101 635
MP SL-81-10	Jan 1981	Porous Portland Cement Concrete: The State of the Art, by Alfred Monahan (also cited as CTIAC No. 46)	AD A098 177
MP SL-81-11*	Jul 1981	Effectiveness of an Ungulate Warhead Design Against Runways, by L. K. Davis	AD B058 340L
MP SL-81-12	Jul 1981	Use of a Foam HEST to Simulate Low-Yield Nuclear Overpressures, by S. A. Kiger	AD A103 315
MP SL-81-13	Jul 1981	Characterization and Reactivity of Silica Fume, by A. D. Buck and J. P. Burkes (also cited as CTIAC No. 47)	AD A103 369
MP SL-81-14	Jun 1981	Evaluation of Condition of Lake Superior Regulatory Structure, Sault Ste. Marie, Michigan, by H. T. Thornton, Jr., C. E. Pace, R. L. Stowe, et al.	AD A101 604
MP SL-81-15	Jun 1981	An Expedient Method for Excavation of Foxholes, by G. A. Woodbury and A. D. Rooke, Jr.	AD A102 812
MP SL-81-16	Jun 1981	Structural Stability Evaluation, Gull Lake Dam, by C. E. Pace	AD A103 011
MP SL-81-17	Jul 1981	Structural Stability Evaluation, Sandy Lake Dam, by C. E. Pace	AD A103 012
MP SL-81-18	Jul 1981	Cratering Capabilities of Low-Yield Nuclear Weapons, by J. N. Strange	AD A108 989
MP SL-81-19*	Aug 1981	Cable Vulnerability Study, by J. D. Day and C. E. Joachim	AD B058 956L
MP SL-81-20	Aug 1981	Examination of ERDA-10 Grout Specimens at Different Ages, by A. D. Buck, J. P. Burkes, and J. E. Rhoderick	AD A105 165
MP SL-81-21	Aug 1981	Condition Survey, Repair and Rehabilitation, Lock and Dam No. 24, Mississippi River, by R. L. Stowe and H. T. Thornton, Jr.	AD A105 653
MP SL-81-22	Sep 1981	Structural Stability Evaluation, Leech Lake Dam, by C. E. Pace	AD A104 777
MP SL-81-23*	Sep 1981	MISERS BLUFF; Phase II, Event 1, Determination of the Drag Coefficient for a Typical Industrial Structural Member, by J. W. Ball	AD B059 695L

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-81-24*	Sep 1981	MISERS BLUFF; Phase II, Event 1, Development and Verification of a Steel Girder Bridge Analytical Model, by J. W. Ball	AD B059 696L
MP SL-81-25	Sep 1981	A One-Dimensional Plane Wave Propagation Code for Layered Rate-Dependent Hysteretic Materials, by J. O. Curtis	AD A105 241
MP SL-81-26	Sep 1981	Acoustic Emission from Concrete Specimens, by P. F. Mlakar, R. E. Walker, and B. R. Sullivan	AD A105 416
MP SL-81-27	Sep 1981	Structural Stability Evaluation, Winnibigoshish Dam, by E. C. Pace	AD A107 337
MP SL-81-28	Oct 1981	Tensile Tests on Articulated Concrete Mattress Specimens, by Dale Glass	AD A107 422
MP SL-81-29	Oct 1981	Evaluation of Tests for Determining the Pumpability of Concrete Mixtures, by S. A. Ragan	AD A107 524
MP SL-81-30	Nov 1981	Predictions of the Airblast and Ground Motions Resulting from Explosive Removal of the Birds Point-New Madrid Fuze Plug Levee, by J. L. Drake and L. F. Ingram	AD A107 557
MP SL-81-31	Oct 1981	Structural Stability Evaluation, Pine River Dam, by C. E. Pace	AD A108 551
MP SL-81-32	Nov 1981	Abrasion-Erosion Resistance of Fiber-Reinforced Concrete, by T. C. Liu and J. E. McDonald	AD A108 988
MP SL-81-34	Dec 1981	Composition of Rock Core from Hole AEC-8, New Mexico, by J. E. Rhoderick and A. D. Buck	AD A111 275
MP SL-82-1	Apr 1982	Durability of Reinforced Concrete Beams Exposed to Marine Environment, by E. F. O'Neil (also cited as CTIAC No. 49)	AD A117 284
MP SL-82-2	Apr 1982	Durability of Post-Tensioned Concrete Beams Exposed to Severe Natural Weathering, by E. F. O'Neil (also cited as CTIAC No. 50)	AD A117 283
MP SL-82-3	Jun 1982	Condition Survey of Depere Lock and Dam, Lower Fox River, Wisconsin, by R. L. Stowe and J. C. Ahlvin (also cited as CTIAC No. 51)	AD A119 121
MP SL-82-4	Jun 1982	Condition Survey of Cedars Lock and Dam, Lower Fox River, Wisconsin, by R. L. Stowe and J. C. Ahlvin (also cited as CTIAC No. 52)	AD A119 696

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-82-5	Jun 1982	Determination of Properties of Concrete Used in Thermal Studies for Lock and Dam No. 2, Red River Waterway, by T. C. Holland, T. C. Liu, and A. A. Bombich (also cited as CTIAC No. 55)	AD A117 285
MP SL-82-6	Jun 1982	Grout Formulations for Nuclear Waste Isolation, by A. D. Buck and Katharine Mather	AD A115 953
MP SL-82-7	Jun 1982	Probabilistic Solution for One-Dimensional Plane Wave Propagation in Homogeneous Bilinear Hysteretic Materials, by Behzad Rohani	AD A118 030
MP SL-82-8	Jul 1982	Site Characterization for Probabilistic Ground Shock Predictions, by J. G. Jackson, Jr.	AD A120 398
MP SL-82-9	Jul 1982	Thermal Studies of HEMSS Cylindrical Test Beds Containing SRI-RMG-2C4 Grout, by A. A. Bombich (also cited as CTIAC No. 56)	AD A118 993
MP SL-82-10	Jul 1982	The HEMSS 3T Experiment, by A. A. Bombich (also cited as CTIAC No. 57)	AD A120 669
MP SL-82-11*	Aug 1982	Effectiveness of Rock-Rubble/Boulder Screens for Degrading the Penetration of Shaped Charge Jets, by Behzad Rohani, D. R. Coltharp, C. C. McAneny, et al.	AD B069 333L
MP SL-82-12	Aug 1982	Optimization of High-Strength Concrete Mixture Proportions for the ANMCC Improvement Projects, by A. A. Bombich and A. D. Magoun (also cited as CTIAC NO. 58)	AD A118 966
MP SL-82-13*	Aug 1982	Response of MX Horizontal Shelter Models to Static and Dynamic Loading, by V. T. Cost and G. E. Albritton	AD B067 378
MP SL-82-14	Sep 1982	Evaluation of Concrete Cores from Waterbury Dam, Waterbury, VT., by C. E. Pace, R. L. Stowe, and G. S. Wong (also cited as CTIAC No. 53)	AD A123 418
MP SL-82-15	Sep 1982	Evaluation of Three State-of-the-Art Water-Jet Systems for Cutting/Removing Concrete, by C. E. Pace (also cited as CTIAC No. 54)	AD A123 579
MP SL-82-16*	Sep 1982	Crack Survey and Gage Installation in Cross-Over Galleries, Kaskaskia Lock, Chester, Illinois, by R. H. Denson, G. S. Wong, and D. Bean (also cited as CTIAC No. 60)	

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-82-17*	Sep 1982	Six Candidate Shock Attenuating Material Systems for the Alternate National Military Command Center (ANMCC) Improvement Project - Omaha District, by R. H. Denson, W. B. Ledbetter, and Donald Saylak (also cited as CTIAC No. 61)	
MP SL-82-18	Sep 1982	Concrete Temperature Control Study for the Old River Auxiliary Structure, by A. A. Bombich (also cited as CTIAC No. 62)	AD A120 419
MP SL-82-20	Sep 1982	In-Place Stability and Deterioration of Structures, by C. E. Pace and A. M. Alexander	AD A125 899
MP SL-83-1*	Jan 1983	Aircraft Response to Multiple Encounters with Runway Damage, by L. K. Davis	AD B072 701L
MP SL-83-2**	Feb 1983	Conventional Weapons Effects on Fighting Position Covers/Shelters, by M. I. Hammons and R. W. White	AD B072 380L
MP SL-83-4	Mar 1983	Tug Fork River Big Bend Cutoff Blast Monitoring Study, by C. E. Joachim	AD A130 271
MP SL-83-5	May 1983	Studies of the Constitution of Fly Ash Using Selective Dissolution, by A. D. Buck, T. B. Husbands, and J. P. Burkes (also cited as CTIAC No. 62)	AD A132 041
MP SL-83-6	May 1983	Investigation of Cement Pastes and Related Materials by Scanning Electron Microscopy and X-ray Diffraction, by Katharine Mather, C. R. Hallford, J. P. Burkes, and A. D. Buck (also cited as CTIAC No. 4)	AD A130 586
MP SL-83-7**	Jun 1983	Cratering and Ditching Experiments with Slurry Blasting Agents, FY 75-FY 78, by H. D. Carleton, J. J. Sullivan, and A. D. Rooke, Jr.	AD B075 596L
MP SL-83-8	Jun 1983	Evaluation of WES One-Dimensional Dynamic Soil Testing Procedures, by Lynn Seaman	AD A130 925
MP SL-83-9	Jun 1983	Ejecta Distribution from Near-Surface Explosions on a Layered Soil: DISTANT RUNNER Events 2 and 3, by A. D. Rooke, Jr.	AD B076 226L
MP SL-83-10	Jun 1983	Explosive Ditching and Pavement Breaching Tests at Yuma Proving Ground, 1978-1980, by G. A. Woodbury, J. J. Sullivan, and A. D. Rooke, Jr.	AD A131 187

* For Official Use Only.

** Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-83-11*	Jul 1983	Numerical Analysis of Projectile Penetration into Boulder Screens, by R. B. Nelson, Y. M. Ito, D. E. Burks, et al.	AD B076 576L
MP SL-83-12	Aug 1983	Petrographic Examination of Bell Canyon Tests (BCT) 1-FF Field Grouts over a Three-Year Period, by J. P. Burkes and J. E. Rhoderick (also designated as Report No. SAND 83-7115)	AD A132 725
	Sep 1983	Errata Sheet No. 1	
MP SL-83-13	Aug 1983	Alkali Reactivity of Strained Quartz as a Constituent of Concrete Aggregate, by A. D. Buck (also cited as CTIAC No. 65)	AD A133 909
MP SL-83-14	Sep 1983	Preventative Measures to Limit Stress Corrosion Cracking in Prestressed Concrete, by E. F. O'Neil (also cited as CTIAC No. 64)	AD A136 665
MP SL-83-15	Sep 1983	Abrasion-Erosion Resistance of Concrete Made with Two Aggregates, Stonewall Jackson Dam, West Virginia, by T. C. Holland (also cited as CTIAC No. 66)	AD A133 432
MP SL-83-16	Sep 1983	Abrasion-Erosion Evaluation of Concrete Mixtures for Stilling Basin Repairs, Kinzua Dam, Pennsylvania, by T. C. Holland (also cited as CTIAC No. 67)	AD A133 488
MP SL-83-17	Sep 1983	Evaluation of Concrete Cores, Caruthersville Floodwall, by G. S. Wong	AD A133 833
MP SL-83-18	Sep 1983	Modification of Bell Canyon Test (BCT) 1-FF Grout, by A. D. Buck, J. E. Rhoderick, J. P. Burkes, et al. (also designated as Report No. SAND 83-7097)	AD A134 876
MP SL-83-19	Sep 1983	Penetration of 1/7 Scale Model of a Semi-Armor Piercing (SAP) Bomb into Confined Boulder Overlays: Test and Analysis, by C. W. Miller, W. L. McKay, and J. A. Hollowell	AD B079 383L
MP SL-83-20*	Dec 1983	Application of Shaped Charges to Rapid Atomic Demolition Munition (ADM) Emplacement, by C. E. Joachim	AD B079 943L
MP SL-84-1	Feb 1984	Condition Evaluation of Supersonic Naval Ordnance Research Tract (SNORT), by B. R. Sullivan, C. E. Pace, and R. L. Campbell	AD A140 036
MP SL-84-2	Feb 1984	Alkali-Silica Reaction in Concrete in a North Dakota Highway, by A. D. Buck (also cited as CTIAC No. 68)	AD A140 098

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-84-3	Mar 1984	High-Strength Concrete for Peacekeeper Facilities, by K. L. Saucier (also cited as CTIAC No. 70)	AD A140 510
MP SL-84-4	Mar 1984	Concrete Quality Assurance Using Accelerated Strength Testing, by S. A. Ragan	AD A142 804
MP SL-84-5*	May 1984	Instructure Shock Spectra and Comments on Soil-Structure Interaction for the TRIDENT Reentry Body Complex, Kings Bay, GA, by S. A. Kiger	AD B083 374L
MP SL-84-6	Apr 1984	A Probabilistic One-Dimensional Ground-Shock Code for Layered Nonlinear Hysteretic Materials, by Behzad Rohani and J. D. Cargile	AD A142 016
MP SL-84-7	Jun 1984	Elastic-Plastic Response Charts for Nuclear Overpressures, by L. K. Guice and S. A. Kiger	AD A144 111
MP SL-84-8*	Jun 1984	Ground Motion Measurements, Pre-DIRECT COURSE Event, by J. K. Ingram	AD B085 057L
MP SL-84-9*	Jun 1984	Ground Motion Measurements, DIRECT COURSE Main Event, by J. K. Ingram	AD B085 056L
MP SL-84-10	Jun 1984	Workability of Fluid Hydraulic Cement Systems Containing Salt, by A. D. Buck, J. A. Boa, Jr., and D. M. Walley	AD A144 960
MP SL-84-11*	Sep 1984	Shock Analysis of the Piping System in the Saudi Navy Command Center at Jubail, by V. P. Chiarito, R. S. Wright, and S. A. Kiger	AD B086 839L
MP SL-84-12*	Oct 1984	Materials Systems Investigation for MOBA/MOUT Live-Fire Training Villages, by R. H. Denson, G. C. Hoff, D. L. Kopp, et al. (also cited as CTIAC No. 69)	AD B089 193L
MP SL-84-13	Oct 1984	Compressive Strength-Maturity Relationships of Mortar Containing Fly Ash, by S. A. Ragan	AD A148 705
MP SL-84-14*	Dec 1984	Statistical Variation of Laboratory Soil Properties, by A. E. Jackson, Jr.	AD B089 515L
MP SL-84-15	Dec 1984	Evaluation of Epoxy Resin Systems as Backing Materials for Miter Gates, by D. L. Bean (also cited as CTIAC No. 71)	AD A154 737
MP SL-85-1	Jan 1985	Development of Generalized 2-D and 3-D Distinct Element Programs for Modeling Jointed Rock, by P. A. Cundall and R. D. Hart	AD A153 927

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-85-2*	Feb 1985	The Effects of Blast and Flechette/Fragment Penetration on Field Fortifications, by W. S. Wood	AD B092 405L
MP SL-85-4*	May 1985	Penetration of a 0.231-Scale Model of an Improved Hard Target Penetrator into Diorite Boulder Overlays, by Behzad Rohani, C. F. Austin, Y. M. Ito, et al.	AD B096 189L
MP SL-85-5	May 1985	Systems and Materials to Prevent Floodwaters from Entering Buildings, by C. E. Pace	AD A156 050
MP SL-85-6	Aug 1985	Development of a Sanded Nonsalt Expansive Grout for Repository Sealing Application, by A. D. Buck	AD A160 594
MP SL-85-7	Aug 1985	Thermal Stability of Certain Hydrated Phases in Systems Made Using Portland Cement, by A. D. Buck, J. P. Burkes, and T. S. Poole	AD A160 443
MP SL-85-8	Aug 1985	Development of Two Candidate Concrete Mixtures (Salt, Nonsalt) for Repository Sealing Applications, by A. D. Buck	AD A160 692
MP SL-85-9	Sep 1985	Characterization of Four Class H High Sulfate-Resistant Portland Cements, by A. D. Buck and R. E. Reinhold	AD A160 551
MP SL-85-10	Sep 1985	Characterization of Several Plasters and One Retarder for Repository Sealing Mixtures, by A. D. Buck, J. P. Burkes, and R. E. Reinhold	AD A160 595
MP SL-85-11	Aug 1985	Development of a Sanded Expansive Salt Grout for Repository Sealing Application, by A. D. Buck, J. A. Boa, Jr., and D. M. Walley	AD A160 431
MP SL-85-13	Sep 1985	Creep Test of WIPP Site Anhydrite Core, by R. L. Stowe	AD A160 444
MP SL-85-14	Sep 1985	Sulfate Resistance of Hydraulic Cements Containing Blast-Furnace Slag, by A. D. Buck (also cited as CTIAC No. 72)	AD A161 985
MP SL-85-15	Sep 1985	Distribution of Chloride in a Salt-Saturated Grout in Contact With Rock Salt, by L. D. Wakeley and J. P. Burkes	AD A161 866
MP SL-85-16	Sep 1985	Cementitious Mixtures for Sealing Evaporite and Clastic Rocks in a Radioactive-Waste Repository, by L. D. Wakeley and D. M. Roy	AD A161 865

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-85-17*	Oct 1985	Preliminary Structural Design Calculations for HF Receiving and Transmitting Stations, by J. T. Baylot and S. B. Garner	AD B098 073L
MP SL-85-18	Dec 1985	Epoxy-Resin Grouting of Cracks in Concrete, by D. L. Bean (also cited as CTIAC No. 74)	AD A164 306
MP SL-85-19*	Dec 1985	Optimal Design of Shallow-Buried Structures Subjected to the Effects of a Nuclear Detonation, by C. E. Canada and Mark McVay	AD B099 613L
MP SL-86-1	May 1986	Development of a 10,000-psi Multiaxial Cubical Soil Test Cell with Pore Pressure Measurement Facilities, by Hon-Yim Ko, Stein Sture, and V. C. Janoo	AD A169 303
MP SL-86-2	Apr 1986	Development of Freshwater Grout Subsequent to the Bell Canyon Tests (BCT), by L. D. Wakeley, D. M. Walley, and A. D. Buck	AD A169 085
MP SL-86-3*	Jun 1986	Mitigation of Blast Pressures Inside Conventional Fighting Positions, by J. C. Ray and W. L. Huff	AD B104 585
MP SL-86-4*	May 1986	Fortification Overhead Protection Using Sandgrid Construction, by A. T. Hamlin	AD B104 851L
MP SL-86-5	Jul 1986	Explosive Tests on Reinforced Concrete Walls at Camp Shelby, Mississippi, by D. R. Coltharp	AD A171 947
MP SL-86-6	Jul 1986	Study of Stored Energy Systems Proposed for Testing a Pressure-Regulating Valve, by J. B. Cheek	AD A170 390
MP SL-86-7	Apr 1986	Facilities Technology Application Tests; Concrete Repair, by T. B. Husbands	AD A171 519
MP SL-86-8*	Sep 1986	Profile and Material Property Estimates for CARES-Dry and ISST Ground Shock Calculations, by A. E. Jackson, Jr., and J. D. Cargile	AD B104 998
MP SL-86-9*	Sep 1986	Alkali-Silica Reaction in Concrete from Fontana Dam, North Carolina, Tennessee Valley Authority, by A. D. Buck and Katharine Mather (also cited as CTIAC No. 76)	AD A171 892
MP SL-86-10	Aug 1986	Soil-Cement Study, Truscott Brine Dam, Texas, by R. H. Denson, Tony Husbands, and O. K. Loyd (also cited as CTIAC No. 75)	AD A171 891

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-86-11	Aug 1986	WES High-Pressure Uniaxial Strain and Triaxial Shear Test Equipment, by S. A. Akers, P. A. Reed, and J. Q. Ehrgott	AD A171 877
MP SL-86-12	Sep 1986	Abrasion-Erosion Evaluation of Concrete Mixtures for Repair of Low-Flow Channel, Los Angeles River, by T. C. Holland (also cited as CTIAC No. 78)	AD A172 494
MP SL-86-13	Sep 1986	Posttest Analysis of a Laboratory-Cast Monolith of Salt-Saturated Concrete, by L. D. Wakeley and T. S. Poole	AD A172 874
MP SL-86-14	Sep 1986	Abrasion-Erosion Evaluation of Concrete Mixtures for Stilling Basin Repairs, Kinzua Dam, Pennsylvania, by T. C. Holland (also cited as CTIAC No. 73)	AD A172 804
MP SL-86-15*	Oct 1986	A Study of Techniques for the Selective Demolition of Urban Structures, by C. Wilton, J. V. Zaccor, and J. M. Loizeaux	AD B113 402L
MP SL-86-16	Oct 1986	Evaluation of the Frost Resistance of Roller-Compacted Concrete Pavements, by S. A. Ragan (also cited as CTIAC No. 77)	AD A174 350
MP SL-86-17*	Nov 1986	Executive Summary of Geotechnical Operations Conducted for FY 82 Silo Test/Combined Effects Program, by J. S. Zelasko	AD B108 009L
MP SL-86-29	Sep 1986	Mechanical Properties of Reid-Bedford Model Sand, by B. R. Phillips	
Unnumbered	Mar 1987	Schedule of Charges for Testing and Services and Quantities of Material Required for Testing	
MP SL-87-1	Apr 1987	Frost Resistance of High-Strength Concrete, by A. D. Buck, J. P. Burkes, and J. C. Ahlvin (also cited as CTIAC No. 79)	AD A179 995
MP SL-87-2*	May 1987	Installation and Rehabilitation of Groundwater Monitoring Wells at Selected MINUTEMAN Sites, by J. V. Farr	AD B113 143L
MP SL-87-3	May 1987	Condition Survey of Lock No. 7, Monongahela River, by R. L. Stowe	AD A182 888
MP SL-87-4	Jun 1987	Condition Survey of Lock No. 8, Monongahela River, by R. L. Stowe	AD A183 709

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-87-5	Jul 1987	Alkali-Carbonate Rock Reaction at Center Hill Dam, Tennessee, by G. S. Wong (also cited as CTIAC No. 80)	AD A187 237
MP SL-87-6*	Jul 1987	Evaluation of Computer Program for Proportioning Concrete Mixture, by B. D. Neeley	AD B116 663L
MP SL-87-7*	Jul 1987	Ground Motion Measurements, Combined DIHEST Calibration, Event 1, by C. E. Joachim and D. W. Murrell	AD B114 927L
MP SL-87-8*	Aug 1987	A Study of Corrosion to Interior Metal Door Frames, Bayne Jones Army Hospital, Fort Polk, La., by E. F. O'Neil (also cited as CTIAC No. 81)	AD B115 258
MP SL-87-9	Sep 1987	Properties of Laboratory-Tested Specimens of Concrete from Small-Scale Seal Performance Tests at the Waste Isolation Pilot Plant, by G. D. Comes, L. D. Wakeley, and E. F. O'Neil III	AD A189 709
MP SL-87-10	Sep 1987	Studies of the Geochemical Stability of a Salt-Saturated Expansive Grout, by L. D. Wakeley and T. S. Poole	AD A190 504
MP SL-87-11*	Sep 1987	Rapid Runway Cutting with Linear Shaped Charges, by C. E. Joachim	AD B116 962L
MP SL-87-12*	Sep 1987	Evaluation of Compacted Earth Blocks for Use as Expedient Field Fortifications, by P. G. Hayes	AD B117 896L
MP SL-88-1*	Jan 1988	Ricochet and Stability of MK82, MK83, and MK84 General-Purpose Bombs in Soil, by D. C. Creighton	AD B120 157L
MP SL-88-2	Jan 1988	Recommendations to the NRC for Review Criteria for Alternative Methods of Low-Level Radioactive Waste Disposal, Task 2A: Below-Ground Vaults, by R. H. Denson, D. L. Bean, D. L. Ainsworth, et al.	AD A189 020
MP SL-88-3	Feb 1988	Field Investigation of a Neoprene Pad Capping System, by B. D. Neeley and R. J. Becker	AD A190 496
MP SL-88-4	Jan 1988	Recommendations to the NRC for Review Criteria for Alternative Methods of Low-Level Radioactive Waste Disposal, Task 2B: Earth-Mounded Concrete Bunkers, by R. H. Denson, D. L. Bean, D. L. Ainsworth, et al.,	AD A193 186
MP SL-88-5	Apr 1988	Wall Armor Pullout Testing, by W. E. McDonald	AD A194 724

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP SL-88-6	Aug 1988	Condition Survey of Locks and Dam 3, Monongahela River, by G. S. Wong and R. L. Stowe	AD A197 812
MP SL-88-7	Aug 1988	Condition Survey of Lock No. 2, Monongahela River, by G. S. Wong, R. L. Stowe, J. C. Ahlvin, and J. G. Tom	AD A197 813
MP SL-88-8*	Sep 1988	Liquid Explosive Tests Conducted During Light Infantry Cooperative Demolition Test, Makua Range, Oahu, Hawaii, 7-11 July 1986, by E. W. Stevens	AD B127 897
MP SL-88-9	Nov 1988	Vibration Study of the Bloomington Intake Tower, by V. P. Chiarito and T. L. Fagerburg	AD A202 585
MP SL-88-30*	Jul 1988	Tactical Applications of Exploding-Pipe Antiarmor Ditches in Irregular Terrain, by L. Huskey and H. Bielke	AD B124 995
Unnumbered	Apr 1989	Corps of Engineers Structural Engineering Conference, June 27 - July 1, 1988, St. Louis, Missouri, Volume I	AD B133 990
Unnumbered	Apr 1989	Corps of Engineers Structural Engineering Conference, June 27 - July 1, 1988, St. Louis, Missouri, Volume II	AD B133 991
MP SL-89-1*	Mar 1989	Design of Concrete Chambered Revetments, by S. C. Woodson	AD B172 449
MP SL-89-2	Aug 1989	Preliminary Sound-Abatement Tests Using Shock-Attenuating Concrete (SACON) and Other Materials, Big Black Test Facility, by W. L. Huff, G. L. Carre, T. R. Stanton, et al.	AD A212 816
MP SL-89-3	Aug 1989	Investigation of Early Stiffening of Concrete at Red River Lock and Dam No. 3, by T. S. Poole and J. B. Cook	AD A212 822
Unnumbered	Sep 1989	Schedule of Charges for Testing and Services and Quantities of Material Required for Testing	
MP SL-90-1	Apr 1990	Effectiveness of Membrane-Forming Curing Compounds for Curing Concrete, by C. L. White and T. B. Husbands (also cited as CTIAC No. 83)	AD A222 067
MP-SL-90-3	Oct 1990	Preliminary Investigation of Cementitious Materials for Olmsted Lock and Dam, by T. S. Poole, M. C. Sykes, and S. D. Griffin	AD A229 723
MP-SL-91-1	Jan 1991	TNT Equivalent of Maritime Prepositioned Ships (TEMPS) Test; WES Free-Field Airblast Measurements, by Charles E. Joachim	AD B152 230L

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP-SL-91-2	Mar 1991	Evaluation of a Software Program for Storing, Computing, and Reporting Concrete Test Results, by Roy Campbell	AD A235 837
MP-SL-91-3	Feb 1991	Ejecta Missile Survey, Misers Gold Event, Experiment 8405, by J. J. Sullivan	AD B153 627
MP-SL-91-4	Mar 1991	Equipment Response to In-Structure Shock, by J. W. Ball, J. H. Weathersby, and S. A. Kiger	AD B154 284
MP-SL-91-5	Apr 1991	Effect of Changing Fly Ash Content, Temperature, and Calcium Chloride Levels on Strength Development of Mortars and Time of Settings of Pastes, by Toy S. Poole and John B. Cook	AD A236 423
MP-SL-92-1	Feb 1992	Blast Valve Effectiveness for Conventional Weapons, by J. W. Ball, J. H. Weathersby, and S. A. Kiger	AD B162 505
MP-SL-92-2	Mar 1992	Brick Model Test of Shallow Underground Magazines, by C. E. Joachim and G. S. Rubin de la Borbolla	AD A250 597
MP-SL-92-3	Jun 1992	Review of Measurement Techniques and Principles With Potential Application for Development of Device to Indicate Adequacy of Fresh Concrete Consolidation, by A. M. Alexander	AD A252 848
Unnumbered	Dec 1992	Corps of Engineers Structural Engineering Conference, 8-12 July 1991, St. Johns County, Florida, Volume I	AD A269 604
Unnumbered	Dec 1992	Corps of Engineers Structural Engineering Conference, 8-12 July 1991, St. Johns County, Florida, Volume II	AD A269 605
MP-SL-93-1	Apr 1993	Assessing Workability Complaints in Mass Concrete Construction, by Billy D. Neeley	AD A266 175
MP-SL-93-2	Apr 1993	Stability of Calcium Chloroaluminate and Calcium Sulfoaluminate Phases in Hydraulic-Cement Mixtures, by T. S. Poole	AD A265 057
MP-SL-93-3*	Jun 1993	Explosively Formed Penetrator Design Calculations Using DYNA2D, by P. S. King	AD B175 663L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-79-1*	Feb 1979	Vulnerability of Bridge Piers to Conventional Munitions, by L. K. Davis and J. W. Meyer	AD B037 522L
TR SL-79-2*	Apr 1979	ESSEX - DIAMOND ORE RESEARCH PROGRAM; Bridge Test, ESSEX III, by J. W. Ball	AD B039 062L
TR SL-79-3*	May 1979	Hardened Protective Structures for Mounted and Dismounted TOW Antitank Weapons, by G. L. Carre	AD B039 065L
TR SL-79-4*	Jul 1979	Static Loading of MX Model Closures, by J. V. Getchell and J. M. Watt, Jr.	AD B040 533L
TR SL-79-6*	Sep 1979	ESSEX - DIAMOND ORE RESEARCH PROGRAM; POL Storage and Distribution Facilities Test, ESSEX V, Phase 3, by W. L. Huff	AD B041 752L
TR SL-79-7	Sep 1979	An Effective Stress Model for Ground Motion Calculation, by G. Y. Baladi	AD A076 537
TR SL-79-8	Sep 1979	Earthquake Analysis of the Gravity Dam Monoliths of the Richard B. Russell Dam, by C. D. Norman and H. E. Stone	AD A077 658
TR SL-79-9*	Oct 1979	ESSEX - DIAMOND ORE RESEARCH PROGRAM; Ejecta Measurements Report, ESSEX I, Phase 2, by J. F. Dishon	AD B041 978L
TR SL-79-11*	Nov 1979	ESSEX - DIAMOND ORE RESEARCH PROGRAM; Hardened Structure Response, ESSEX V, by J. R. Hossley and G. E. Albritton	AD B043 747L
TR SL-79-13*	Dec 1979	Response of a Buried Hardened Arch Structure to the Effects of Localized Explosions, by S. A. Kiger and G. E. Albritton	AD B044 048L
TR SL-79-14	Nov 1979	Earthquake Analysis of the Modified Geometry of the Concrete Nonoverflow Section, Richard B. Russell Dam, by C. D. Norman	AD A079 693
TR SL-79-15	Dec 1979	Projectile Penetration in Soil and Rock: Analysis for Non-Normal Impact, by R. S. Bernard and D. C. Creighton	AD A081 044

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-80-1*	Mar 1980	Response of Buried Hardened Box Structures to the Effects of Localized Explosions, by S. A. Kiger and G. E. Albritton	AD B046 322L
TR SL-80-2*	Apr 1980	Federal Republic of Germany Dynamic Tests of Statically Designed Structures in the MISERS BLUFF II-1 Event, by J. W. Ball and R. R. Kaufmann	AD B047 455L
TR SL-80-3*	May 1980	MISERS BLUFF; Phase II, Event 1, Bridge Test: Pretest Analysis, Construction, and Test Data, by J. W. Ball	AD B048 443L
	Apr 1981	Errata Sheet No. 1	
TR SL-80-4		Strength Design of Reinforced Concrete Hydraulic Structures:	
	Jul 1980	Report 1 Preliminary Strength Design Criteria, by T. C. Liu	AD A087 691
	Dec 1981	Report 2 Design Aids for Use in the Design and Analysis of Reinforced Concrete Hydraulic Structural Members Subjected to Combined Flexure and Axial Loads, by T. C. Liu and Scott Gleason	AD A111 648
	Jan 1982	Report 3 T-Wall Design, by T. C. Liu	AD A113 629
	Aug 1986	Report 4 Load-Moment Characteristics of Reinforced Concrete Circular Conduits, by V. P. Chiarito and P. F. Mlakar	AD A173 229
	Apr 1987	Report 5 Experimental Study on the Ultimate Behavior of Model Reinforced Concrete Circular Conduits, by R. S. Wright and V. P. Chiarito	AD A182 451
	Jul 1987	Report 6 Analytical Study of the Ultimate Behavior of Model Reinforced-Concrete Circular Conduits, by K. H. Gerstle	AD A184 882
	Sep 1988	Report 7 Strength of Circular Reinforced Concrete Conduits, Analysis and Design, by K. H. Gerstle	AD A199 894
	Sep 1989	Report 8 Design of Buried Circular Conduits-Flexure and Shear, by S. C. Woodson	AD A212 815
	Aug 1989	Report 9 Analysis and Design of Reinforced Concrete Conduits, by K. H. Gerstle, Piotr Noakowski, and Thomas Rauscher	AD A212 036

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-80-5	Jul 1980	Development of a Program for Computer-Based Resistance Analysis (COBRA), by J. B. Cheek, Jr.	AD A088 420
TR SL-80-6	Sep 1980	Study for Development of Fiberglass Reinforced Plastic Earth-Covered Ammunition Storage Magazines	AD A090 277
TR SL-80-7		Vulnerability of Shallow-Buried Flat-Roof Structures:	
*	Sep 1980	Report 1 Foam HEST 1 and 2, by S. A. Kiger and J. V. Getchell	AD B052 887L
*	Oct 1980	Report 2 Foam HEST 4, by J. V. Getchell and S. A. Kiger	AD B053 650L
*	Feb 1981	Report 3 Foam HEST 5, by J. V. Getchell and S. A. Kiger	AD B057 047L
*	Dec 1981	Report 4 Foam HEST 3 and 6, by J. V. Getchell and S. A. Kiger	AD B062 507L
TR SL-80-7		Vulnerability of Shallow-Buried Flat-Roof Structures:	
*	Feb 1982	Report 5 Foam HEST 7, by S. A. Kiger and J. V. Getchell	AD B064 380L
*	Sep 1984	Report 6 Final Report: A Computational Procedure, by S. A. Kiger, T. R. Slawson, and D. W. Hyde	AD B086 868L
TR SL-80-9*	Oct 1980	Static Loading of Shallow-Buried Model Cylinders, Phase III of III, by V. T. Cost and J. M. Watt, Jr.	AD B054 667L
TR SL-81-1	Mar 1981	Design of Dowels for Anchoring Replacement Concrete to Vertical Lock Walls, by T. C. Liu and T. C. Holland	AD A100 104
TR SL-81-3*	Apr 1981	Response of Buried MX Vertical Shelters to Dynamic Loading, by G. E. Albritton	AD B058 897L
TR SL-81-4	Jul 1981	Test and Analysis of Upgraded One-Way Reinforced Concrete Floor Slabs, by M. K. McVay	AD A103 544
TR SL-81-5		Project SPERRE:	
*	Jul 1981	Report 1 Phase I: Literature Survey--Explosive Cratering Tests in Rock, by C. C. McAneny	AD B060 073L
*	Jul 1981	Report 2 Phase I: Literature Survey--Analysis of Literature Data for Explosive Cratering Tests in Rock, by L. K. Davis and C. C. McAneny	AD B060 074L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-81-5* (Cont.)	Jul 1981	Report 3 Phase II: Field Tests--Explosive Cratering Experiments in Granite and Sandstone, by L. K. Davis, C. C. McAneny, and C. E. Joachim	AD B060 075L
*	Jul 1981	Report 4 Phase III: Fundamental Studies--Experimental and Analytical Modeling of Explosive Crater Formation in Jointed Rock, by L. K. Davis	AD B060 076L
*	Jul 1981	Report 5 Summary Report: Road Cratering in Rock with Preemplaced Charges, by L. K. Davis and C. C. McAneny	AD B060 077L
TR SL-81-6	Sep 1981	The Influence of a Shallow Water Table on Cratering, by B. L. Carnes	AD A105 464
TR SL-81-7	Oct 1981	Comparison of Vibration Test Results for a Model and Prototype Gravity Dam, by C. D. Norman and H. E. Stone	AD A107 994
TR SL-82-2*	Feb 1982	MIDDLE GUST Series: Cratering by Large High-Explosive Detonations on a Clay-Over-Shale Medium, by J. W. Meyer, C. C. McAneny, and A. D. Rooke, Jr.	AD B064 555L
TR SL-82-3	Apr 1982	A Review of Methods for Concrete Removal, by R. L. Campbell, Sr.	AD A114 100
TR SL-82-4	Apr 1982	Investigation of the Rapid Analysis Machine (RAM) for Determining the Cement Content of Fresh Concrete, by J. G. Tom	AD A117 669
	Sep 1982	Errata Sheet No. 1	
TR SL-82-5		Subscale MX Shelter Closure Structural Response Test Program:	
*	Jun 1982	Report 1 Phases I and II Closure Static Tests, by P. S. Eagles and G. E. Albritton	AD B067 560L
*	Jul 1982	Report 2 Static Tests on Phase II Closure-Headworks Assemblies, by M. I. Hammons, G. E. Albritton, and P. S. Eagles	AD B068 745L
*	Aug 1982	Report 3 Dynamic Tests on Closure-Headworks Assemblies, by M. I. Hammons and G. E. Albritton	AD B068 668L
TR SL-82-7	Sep 1982	Non-normal Projectile Penetration in Soil and Rock: User's Guide for Computer Code PENCO2D, by D. C. Creighton	AD A121 890

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-82-8	Oct 1982	Seismic Analysis of Intake Towers, by P. F. Mlakar and P. S. Jones	AD A123 578
TR SL-82-9	Oct 1982	Annotated Bibliography: Polymers in Concrete, by J. E. McDonald and E. F. O'Neil	AD A123 414
TR SL-82-10	Dec 1982	An Elastic-Viscoplastic Constitutive Model for Earth Materials, by G. Y. Baladi and Behzad Rohani	AD A123 393
TR SL-83-1*	Mar 1983	Field Artillery Emplacements Development and Weapons Effects Evaluation, by R. W. White	AD B074 005L
TR SL-83-2	May 1983	Vibration Test of Richard B. Russell Concrete Dam Before Reservoir Impoundment, by V. P. Chiarito and P. F. Mlakar	AD A128 844
TR SL-83-3	Jun 1983	Kinetic Shear Strength of Three Rock Types, by J. Q. Ehrgott	AD A132 692
TR SL-83-4	Oct 1983	An Objective Waveform Comparison Technique, by G. Y. Baladi and D. E. Barnes	AD A136 130
TR SL-83-5*	Sep 1983	Munitions/Bare Charge Equivalence (MBCE) in Soil, by C. E. Joachim and L. K. Davis	AD B078 483L
TR SL-83-6	Sep 1983	An Evaluation of the Separated Bay Concept for a Munition Assembly Complex; An Experimental Investigation of the Department of Energy Building 12-64 Complex, by R. D. Volz and S. A. Kiger	AD A137 467
TR SL-83-7	Dec 1983	Tests and Evaluation of Upgraded Flat-Plate and Waffle-Slab Floor Systems, by S. C. Woodson and M. K. McVay	AD A139 005
TR SL-84-1	Jan 1984	Concrete Behavior Under Dynamic Tensile-Compressive Load, by P. F. Mlakar, K. P. Vitaya-Udom, and R. A. Cole	AD A141 735
TR SL-84-4*	Apr 1984	MILL RACE Event, 16 September 1981, Experiments 2601 and 2602, Industrial Structures Test, by J. M. Watt, Jr.	AD B085 129L
TR SL-84-6	May 1984	Tests and Analyses of 1/4-Scale Upgraded Nine-Bay Reinforced Concrete Basement Models, by S. C. Woodson	AD A146 813
TR SL-84-7	Apr 1984	Dynamic Shear Failure of Shallow-Buried Flat-Roofed Reinforced Concrete Structures Subjected to Blast Loading, by T. R. Slawson	AD A145 974

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-84-8	Jun 1984	Selected Bibliography on Construction Methods for Architectural Concrete and Portland-Cement Plaster, by R. H. Denson	AD A143 102
TR SL-84-9	Jun 1984	How to Avoid Deficiencies in Architectural Concrete Construction, by J. A. Dobrowolski and J. M. Scanlon	AD A144 689
TR SL-84-10	Jun 1984	How to Avoid Deficiencies in Portland-Cement Plaster Construction, by J. W. Ribar and J. M. Scanlon	AD A144 688
TR SL-84-11*		Silo Test Program (STP) 3.5A Event:	
	Aug 1986	Volume I: The Test Environment, by C. R. Welch, P. S. Eagles, J. S. Zelasko, et al.	AD B106 142L
TR SL-84-12	Jul 1984	Reactivity of Quartz at Normal Temperatures, by A. D. Buck and Katharine Mather	AD A146 888
TR SL-84-13	Jul 1984	Blast Door and Entryway Design and Evaluation, by D. W. Hyde and S. A. Kiger	AD A146 814
TR SL-84-14*	Sep 1984	Kirtland Underground Munitions Storage Complex Model Designs, Construction, and Test Data, by J. W. Ball, J. T. Baylot, and S. A. Kiger	AD B088 197L
TR SL-84-15		Peacekeeper Quantity-Distance Verification Program: Quantity-Distance Tests (QDT):	
*	Sep 1984	Main Text and Appendices A Through F, by P. S. Jones, D. L. Tilson, L. K. Davis, et al.	AD B090 671L
*	Dec 1984	Appendix G, by P. S. Jones, D. L. Tilson, L. K. Davis, et al.	AD B091 921L
TR SL-84-16*	Sep 1984	Vulnerability of an Underground Weapon Storage Facility, by J. T. Baylot	AD B089 234L
TR SL-84-17	Oct 1984	No-Slump Roller-Compacted Concrete (RCC) for Use in Mass Concrete Construction, by K. L. Saucier	AD A148 564
TR SL-84-18	Oct 1984	Response of Earth-Covered Slabs in Clay and Sand Backfills, by S. A. Kiger, P. S. Eagles, and J. T. Baylot	AD A149 296
TR SL-84-19*	Oct 1984	DIRECT COURSE Event, 26 October 1983, Federal Republic of Germany; Model Slab Structures Test, by T. C. Falls and J. M. Watt, Jr.	AD B089 217L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-84-21	Dec 1984	Cement Composition and Concrete Durability in Sea Water, by A. D. Buck, Katharine Mather, and Bryant Mather	AD A152 288
TR SL-84-22	Dec 1984	Airblast Attenuation in Entranceways and Other Typical Components of Structures; Small-Scale Tests Data Report 1, by J. R. Britz and C. D. Little, Jr.	AD A157 002
TR SL-84-23	Dec 1984	Airblast Attenuation in Entranceways and Other Typical Components of Structures; Small-Scale Tests Data Report 2, by C. D. Little, Jr.	AD A157 003
TR SL-85-1*	Feb 1985	Advanced Storage Concepts: Roof Entry Tests, by J. T. Baylot	AD B091 433L
TR SL-85-2*	Jun 1985	Industrial Structures Test, DIRECT COURSE Event, 26 October 1983, by T. C. Falls and J. M. Watt	AD B094 128
TR SL-85-3*	Jul 1985	Probabilistic Approach to Two-Dimensional Projectile Penetration into Geologic Targets, by D. C. Creighton	AD B096 152L
TR SL-85-4	Aug 1985	Effects of Shear Stirrup Details on Ultimate Capacity and Tensile Membrane Behavior of Reinforced Concrete Slabs, by S. C. Woodson	AD A161 222
TR SL-85-5	Aug 1985	Effects of Reinforcement Configuration on Reserve Capacity of Concrete Slabs, by S. C. Woodson and S. B. Garner	AD A162 155
TR SL-85-6	Sep 1985	Force-Pulse Tests of Tactical Communication Equipment, by R. D. Crowson and Frederick Safford	AD A162 421
TR SL-85-7*	Oct 1985	WES Medium Level (WML) Stress Gage, by C. R. Welch	AD B098 831L
TR SL-85-8	Oct 1985	Structural Element Tests in Support of the Keyworker Blast Shelter Program, by T. R. Slawson, H. M. Taylor, Jr., F. D. Dallriva, and S. A. Kiger	AD A165 136
TR SL-85-9	Oct 1985	Expansive Grout Plug Effects in Restrained Environments, by C. E. Pace and C. W. Gulick	AD A163 009
TR SL-86-1*	Feb 1986	Static and Dynamic Slab Tests Conducted at WES: FY 78-84, by L. K. Guice and T. R. Slawson	AD B101 625L
TR SL-86-2	Feb 1986	Effects of Edge Restraint on Slab Behavior, by L. K. Guice	AD 167 447
TR SL-86-3	Apr 1986	Large-Scale Shallow-Buried Structure Test, by F. D. Dallriva and T. R. Slawson	AD B102 277L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-86-4*	Apr 1986	Mine-Clearing Performance of XM268 Blasting Agent Line Charge, by M. B. Ford	AD B102 461L
TR SL-86-5	Apr 1986	Yield Effects on the Response of a Buried Blast Shelter, by T. R. Slawson, S. B. Garner, and S. C. Woodson	AD A169 320
TR SL-86-6	May 1986	Dynamic Test of a Corrugated Steel Keyworker Blast Shelter, by S. C. Woodson, T. R. Slawson, and R. L. Holmes	AD A168 736
TR SL-86-7	May 1986	Probabilistic Non-Normal Projectile Penetration in Soil and Rock: User's Guide for Computer Code PROPEN, by D. C. Creighton	AD B103 945L
TR SL-86-8	May 1986	Tests and Analyses of the Panama Canal Locks Tow Track System, by V. T. Cost	AD A170 444
TR SL-86-9*	May 1986	Revised Vehicle Dynamics Module: User's Guide for Computer Program VEHDYN II, by D. C. Creighton	AD B102 925L
TR SL-86-10	May 1986	Variations in Cementitious Media, by R. E. Reinhold, R. E. Richter, A. D. Buck, et al.	AD A171 753
TR SL-86-11*	Jun 1986	Hollow Line-Charge Concept: Experimental Evaluation, by M. B. Ford	AD B104 817L
TR SL-86-12		Hard Silo Component Test Program:	
*	Oct 1986	Report 1 Closure Component Static Tests, by M. I. Hammons, G. E. Albritton, J. P. Balsara, et al.	AD B107 781L
*	Oct 1986	Report 2 Addendum A to Closure Component Static Tests, by M. I. Hammons, G. E. Albritton, J. P. Balsara, et al.	AD B109 002L
	Dec 1986	Report 10 Static Test of Small-Scale Dome Closures, by M. I. Hammons, G. E. Albritton, J. P. Balsara, et al.	
*	Dec 1986	Report 30 Core Static Tests 3, 4, 5, and 8 (CST-3, CST-4, CST-5, and CST-8), by V. T. Cost, G. E. Albritton, and J. P. Balsara	AD B109 604L
*	Dec 1986	Report 31 Core Static Tests 1 and 2 (CST-1 and CST-2), by V. T. Cost, G. E. Albritton, J. P. Balsara, and John Karagozian	AD B109 448L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-86-12* (Cont.)	Dec 1986	Report 32 Core Static Tests 9, 10, and 11 (CST-9, CST-10, and CST-11), by V. T. Cost and John Karagozian	AD B109 556
*	Dec 1986	Report 39 Core Static Tests 13, 14, 15, and 16 (CST-13, CST-14, CST-15, and CST-16), by V. T. Cost and John Karagozian	AD B109 449L
*	Dec 1986	Report 40 Core Static Tests 6 and 7 (CST-6 and CST-7), by V. T. Cost and Ivan Nelson	AD B109 715L
*	Aug 1987	Report 63 Shear Friction Test 2-1 (SF-2-1), by J. T. Baylot, R. L. Holmes, and R. E. Walker	
*	Sep 1987	Report 64 Shear Friction Test 2-2 (SF-2-2), by R. L. Holmes, J. T. Baylot, and R. E. Walker	
*	Aug 1987	Report 65 Shear Friction Test 2-3 (SF-2-3), by J. T. Baylot, R. L. Holmes, and R. E. Walker	
*	Aug 1987	Report 66 Shear Friction Test 2-4 (SF-2-4), by J. T. Baylot, R. L. Holmes, and R. E. Walker	
*	Aug 1987	Report 67 Shear Friction Test 2-5 (SF-2-5), by J. T. Baylot, R. L. Holmes, and R. E. Walker	
*	Sep 1987	Report 70 Silo Destruction Test 1, 2, 3, and 4 (SDT-1, -2 -3, and -4), by R. C. Dove, J. B. Cheek, and R. E. Walker	
	May 1971	Report 71 Multiaxial Tests of High-Strength Concrete, by M. I. Hammons and D. M. Smith	
	Sep 1987	Report 72 Large-Scale Reinforcing Steel Pullout Tests, by D. M. Smith	
TR SL-86-13	Jul 1986	Blast Analysis and Design of Rocket Engine Test Facility Control Rooms, by R. C. Dove and S. A. Kiger	AD A171 679
TR SL-86-14		Ralston Valley Soil Compressibility Study:	
*	Sep 1986	Report 1 Quick-Look Report for DISC Test I, by A. E. Jackson, Jr., D. W. Murrell, J. S. Zelasko, and F. W. Skinner, Jr.	AD B104 951

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-86-14* (Cont.)	Sep 1986	Report 2 Quick-Look Report for DISC Test II, by A. E. Jackson, Jr. and J. S. Zelasko	AD B104 952
*	Sep 1986	Report 3 Laboratory Test Results, by B. R. Phillips and A. E. Jackson, Jr.	AD B104 807
*	Sep 1986	Report 4 Data Base Generation and User's Guide for Computer Program SARFORMS, by D. C. Creighton	AD B104 953
*	Sep 1986	Report 5 Correlation of Laboratory Uniaxial Strain Compressibility with Field Seismic Refraction Data, by E. H. Vanmarcke, A. E. Jackson, Jr., and S. A. Akers	AD B105 042
*	Sep 1986	Report 6 Experimental Evaluation of Static Uniaxial Strain Prediction Procedure, by M. L. Green	AD B104 880
TR SL-86-15*	Sep 1986	Laboratory Test Results for Nellis Baseline Sand, by J. D. Cargile	AD B104 889L
TR SL-86-16		Geotechnical Investigation for the CARES-Dry Site:	
*	Sep 1986	Report 1 Results from Subsurface Exploration Programs, by J. D. Cargile and R. E. Wahl	AD B104 922L
*	Sep 1986	Report 2 Laboratory Test Results, by J. D. Cargile	AD B105 040L
TR SL-86-17*	Sep 1986	Results of Laboratory Tests on Nonprestressed Samples of Clayey Sand from the ISST Test Area, by J. D. Cargile	AD B105 122L
TR SL-86-18		Geotechnical Investigation for DIRECT COURSE and Related Events:	
*	Sep 1986	Report 1 Results from Subsurface Exploration Programs, by B. R. Phillips	AD B105 165L
*	Sep 1986	Report 2 Laboratory Test Results, by B. R. Phillips	AD B105 043L
*	Sep 1986	Report 3 Geologic Profile and Material Property Recommendations, by B. R. Phillips	AD B104 921L
TR SL-86-19*	Sep 1986	Pretest and Posttest Geophysical Investigations at the ISST Test Site, by J. D. Cargile, T. B. Kean II, M. K. Sharp, et al.	AD B104 999L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-86-20		Shear Friction Test Support Program:	
*	Sep 1986	Report 1 Laboratory Test Results for WES Flume Sand Backfill, by M. L. Green	AD B104 823L
*	Sep 1986	Report 2 Laboratory Test Results for SRI Air-Dry ASTM C33 Sand, by D. M. Smith	AD B104 943L
*	Sep 1986	Report 3 Laboratory Friction Test Results for WES Flume Sand Against Steel and Grout, by C. M. Mueller	AD B105 175L
*	Nov 1986	Report 4 Results from Subsurface Exploration of Test Site, by M. L. Green	AD B107 935
*	May 1987	Report 6 Design and Construction, Pretest Predictions, and Posttest Analysis of Shear Friction Test 2-1 (SF-2-1), by J. E. Windham, W. C. Dickson, T. K. Cummins, and M. L. Green	AD B113 424
TR SL-86-21		In Situ Backfill Property Test Program:	
*	Sep 1986	Report 1 Results from DISKO-1 on Dry Flume Sand, by J. E. Windham	AD B106 054L
*	Sep 1986	Report 2 Results from DISKO-2 on Dry Flume Sand, by J. E. Windham	AD B105 423L
*	Sep 1986	Report 5 Laboratory Test Results for Silty Clay Backfill, by M. L. Green	AD B104 899L
TR SL-86-22*	Sep 1986	Results of Plane One-Dimensional Ground Shock Calculations for a Baseline Clay/Clay Shale Geology, by R. W. Meier	AD B105 041L
TR SL-86-23	Sep 1986	Axisymmetric Strain-Path and Stress-Path Tests on CARES-Dry Clayey Sand, by S. A. Akers	AD A171 489
TR SL-86-24	Sep 1986	Axisymmetric Strain Path Tests on Nellis Baseline Sand, by S. A. Akers	AD A171 468
TR SL-86-25*	Sep 1986	Laboratory Friction Test Results for ISST CLayey Sand Against Steel and Grout, by C. M. Mueller	AD B105 044L
TR SL-86-26*	Sep 1986	Nitromethane Drum Storage Blast Vulnerability, DNA Projects 8065-8068, Minor Scale Event, by D. D. Rickman	AD B105 216L
TR SL-86-27	Sep 1986	Mechanical Response of Dry Reid-Bedford Model Sand and Saturated MISERS BLUFF Sand, by B. R. Phillips	AD A171 497

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-86-28	Sep 1986	Mechanical Properties of MISERS BLUFF Sand, by B. R. Phillips	AD A171 499
TR SL-86-29	Sep 1986	Mechanical Properties of Reid-Bedford Model Sand, by B. R. Phillips	AD A171 498
TR SL-86-30	Aug 1986	Steerability Analysis of Tracked Vehicles: Theory and User's Guide for Computer Program TVSTEER, by G. Y. Baladi, D. E. Barnes, and R. P. Berger	AD A172 008
TR SL-86-31*	Aug 1986	Results of Laboratory Tests on Prestressed Samples of Clayey Sand From the ISST Test Area, by J. D. Cargile	AD B106 968L
TR SL-86-32	Sep 1986	Behavior of Partially Restrained Reinforced Concrete Slabs, by L. K. Guice	AD A174 597
TR SL-86-33	Sep 1986	Dynamic Failure Tests and Analysis of a Model Concrete Dam, by C. D. Norman	AD A173 500
TR SL-86-34	Oct 1986	Development of a Theoretically Sound Cap Model for Fitting ISST-Type Material Behavior, by G. Y. Baladi	AD A173 057
TR SL-86-35	Sep 1986	A Study of Explosive Wave Propagation in Granular Materials with Microstructure, by M. H. Sadd, Mohammad Hossain, and Behzad Rohani	AD A173 015
TR SL-86-36	Sep 1986	Development and Field Placement of an Expansive Salt-Saturated Concrete (ESC) for the Waste Isolation Pilot Plant (WIPP), by L. D. Wakeley and D. M. Walley	AD A175 199
TR SL-86-37*	Oct 1986	Simulated Nitromethane Blast and Shock Vulnerability Experiments, MINOR SCALE Event, by J. K. Ingram and D. D. Rickman	AD B106 881L
TR SL-86-38*	Nov 1986	Survivability Analysis of a Weapon Storage Vault, by F. D. Dallriva and S. A. Kiger	AD B107 409L
TR SL-86-39*	Nov 1986	Wiancko Accelerometer Ground Motion Subexperiment, MINOR SCALE Event, by D. D. Rickman and J. K. Ingram	
TR SL-86-40	Dec 1986	Demonstration Test of the Keyworker Blast Shelter: MINOR SCALE, by S. C. Woodson and T. R. Slawson	AD A176 749
TR SL-86-41	Nov 1986	Mechanical Properties of Antelope Lake Soils, by S. A. Akers	AD A175 681
TR SL-86-42*	Dec 1986	Mechanical Properties of Expanded Polystyrene Concrete with Fly Ash, by S. A. Akers	AD B109 161L

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-86-43	Dec 1986	Precast Roof Tests in Support of the Keyworker Blast Shelter Program, by S. B. Garner	
TR SL-86-44	Dec 1986	Seismic Analysis of Gravity Dams, by R. A. Cole and J. B. Cheek	AD A176 899
TR SL-86-45*	Dec 1986	Uniaxial Strain Response of Enewetak Beach Sand, by S. A. Akers	AD B111 070L
TR SL-86-46	Dec 1986	Loading Rate Effects on the One-Dimensional Compressibility of Four Partially Saturated Soils, by J. V. Farr	AD A181 388
TR SL-86-47		Influence of Material Models on Ground Shock Environments:	
*	Dec 1986	Report 1 Three-Invariant H-E-P Model with Separate Reloading (In WAVE-L), by M. H. Wagner, H. D. Zimmerman, G. C. Cooper, et al.	AD B114 865
*	Dec 1986	Report 2 Stick-Type H-E-P Model (In WAVE-L), by M. H. Wagner, H. D. Zimmerman, G. C. Cooper, et al.	AD B114 689
*	Dec 1986	Report 3 Stick-Type H-E-P Model (In CRALE), by S. C. Katz, S. H. Schuster, J. B. Wilson, and Y. M. Ito	
*	Dec 1986	Report 4 Eight-Parameter Cap Model (In CRALE), by J. B. Wilson, S. H. Schuster, S. C. Katz, and Y. M. Ito	AD B114 495L
*	Dec 1986	Report 5 Strain-Dependent Cap Model (In CRALE), by S. C. Katz, S. H. Schuster, J. B. Wilson, and Y. M. Ito	AD B114 168L
*	Dec 1986	Report 6 Strain-Dependent Cap Model with Separate Reloading (In CRALE), by S. C. Katz, S. H. Schuster, J. B. Wilson, and Y. M. Ito	AD B114 507L
TR SL-87-2		Peacekeeper Follow-On Basing Program:	
*	Jun 1987	Report 1 Carry Hard Experiment on Silo in and Near Crater (SINC) Test, by A. L. Harris and P. W. Graham	AD B142 206
*	Aug 1987	Report 2 Carry Hard Test 1 (CHT-1), by D. L. Ward and Robert Strome	AD B115 783

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-87-2* (Cont.)	Aug 1987	Report 3 Carry Hard Test 1R (CHT-1R), by D. H. Nelson and Robert Strome	AD B114 990
*	Dec 1987	Report 4 Carry Hard Test 2 (CHT-2), by D. H. Nelson, J. E. Windham, and W. C. Dickson	AD B142 195
*	Sep 1987	Report 5 Shallow Tunnel Test, by D. L. Ward, W. G. Johnson, J. E. Windham, and W. C. Dickson	
*	Sep 1987	Report 6 Shallow Tunnel Test 2 Calibration (STT-2 CAL), by D. L. Tilson, J. E. Windham, W. C. Dickson, et al.	
*	Aug 1987	Report 7 Carry Hard Test 3 (CHT-3), by P. W. Graham, D. K. Hendry, D. D. Rickman, and J. E. Windham	AD B142 207
*	Sep 1987	Report 8 Carry Hard Test 3 Retest (CHT-3R), by D. K. Hendry, P. W. Graham, D. D. Rickman, and J. E. Windham	AD B142 208
TR SL-87-3*	Jan 1987	Numerical Analyses of Flared EPW Penetration Performance in Weathered Rock, by Y. M. Ito, Yoshio Muki, M. D. Gelman, and R. B. Nelson	AD B110 695
TR SL-87-4		A Methodology for Probabilistic Two-Dimensional Ground Shock Calculations:	
*	Jan 1987	Report 1 Development of a Probabilistic Constitutive Model, by G. Y. Baladi and B. Rohani	AD B110 862L
*	Aug 1989	Report 2 Development and Evaluation of a Practical Probabilistic Ground Shock Calculation Methodology, by G. Y. Baladi and B. Rohani	AD B136 380
TR SL-87-6	Feb 1987	Methods for Controlling Effects of Alkali-Silica Reaction in Concrete, by A. D. Buck and Katharine Mather	AD A178 479
TR SL-87-7	Mar 1987	Nonlinear Response of Concrete Gravity Dams to Strong Earthquake-Induced Ground Motion, by P. F. Mlakar	AD A181 616
TR SL-87-9*	Apr 1987	A Preprocessor for the Revised Vehicle Dynamics Module: User's Guide for Computer Program PREVDYN2, by D. C. Creighton	AD B111 275L
TR SL-87-10	Apr 1987	Vulnerability Evaluation of the Keyworker Blast Shelter, by T. R. Slawson	AD A182 508

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-87-11		Analysis of Dynamic In Situ Backfill Property Tests:	
	Jul 1987	Report 1 A Method for Removing Oscillations and Damping from Diaphragm-Type Stress Gage Records, by Lynn Seaman	AD A183 528
	Jul 1987	Report 2 An Improved Lagrangian Analysis for Stress and Particle Velocity Gage Arrays, by Lynn Seaman	AD A184 280
	Jul 1987	Report 3 The Modified ONED Program for One-Dimensional Planar Stress Wave Propagation, by Lynn Seaman	AD A183 527
*	Jul 1987	Report 4 Computation of K_0 Stress-Strain and Stress-Path Relations for Dry Flume Sand in the DISKO-1 Experiment, by Lynn Seaman	AD B115 915L
*	Jul 1987	Report 5 Computation of K_0 Stress-Strain and Stress-Path Relations for Dry Flume Sand in the SFT-1 Experiment, by Lynn Seaman	AD B117 169L
TR SL-87-13		Design of Structures to Resist Terrorist Attack:	
*	Oct 1987	Report 1 1/10-Scale Model Perimeter Wall Tests, by P. S. Jones, K. P. Vitaya-Udom, and J. M. Watt, Jr.,	AD B117 659L
*	Oct 1987	Report 2 Full-Scale Perimeter Wall and Window Test, by J. M. Watt, Jr. and K. P. Vitaya-Udom	AD B134 084L
*	Dec 1987	Report 3 1/3-Scale Model Exterior Wall Test, and Exterior Bay Roof and Floor Slab Test, by G. P. Clemens and J. M. Watt, Jr.	AD B119 192
*	Oct 1989	Report 5 Embassy Window and Door Blast Standards Verification Program, by D. L. Tilson, J. M. Watt, Jr., Lebron Simmons, and Howard McGee	AD B139 166L
*	Aug 1989	Report 6 Response of an Embassy Lobby to an Internal Bomb, by D. H. Nelson and J. M. Watt, Jr.	AD B136 626L
*	Nov 1989	Report 7 Response of an Embassy Lobby to an Internal Bomb Modified Hardline with Retrofit Support Frame, by D. H. Nelson, J. M. Watt, Jr., and R. L. Holmes	AD B139 167L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-87-14*	May 1987	Mechanical Response of Undisturbed Cores and Remolded Coral Sand from Enewetak Atoll, by C. M. Mueller	AD B114 061L
TR SL-87-15*	May 1987	Posttest Probabilistic Penetration Analysis for Earth Penetrating Weapon (EPW) Tests at Fort Riley, Kansas, by D. C. Crogson	
TR SL-87-16		Geotechnical Investigation of Surficial Soils to Support Hard Mobile Launcher (HML) Studies:	
*	May 1987	Report 1 White Sands Missile Range, June 1985, by B. R. Phillips	AD B113 163L
*	Dec 1987	Report 2 WSMR, YPG/LBGR, and NTS, September through November 1985, by B. R. Phillips and J. C. Schumacher	AD B120 216L
*	Jul 1988	Report 3 WSMR and YPG/LBGR, February 1986, by B. R. Phillips and J. C. Schumacher	AD B125 308
*	Jul 1988	Report 6 Malmstrom Siting Area, February 1987, by C. M. Mueller, A. E. Jackson, Jr., and T. K. Cummins	AD B122 490L
*	Dec 1988	Report 7 Frozen Strength Characterization of WES/CRREL NH&S Test Sites in Montana, by E. J. Camberlain, Glen Durrell, and Richard Roberts	AD B129 747
*	Sep 1988	Report 8 Malmstrom Siting Area, June 1987, by C. M. Mueller, A. E. Jackson, Jr., and T. K. Cummins	AD B126 208
*	Sep 1988	Report 9 Malmstrom Siting Area, September 1987, by C. M. Mueller, A. E. Jackson, Jr., and T. K. Cummins	AD B128 272
TR SL-87-17		Minuteman Hardness Assessment Program:	
*	Jun 1987	Report 1 Results from Field Drilling and Sampling Program, by M. L. Green and A. E. Jackson, Jr.	AD B113 720L
		Report 3 Estimated Groundwater Table Depths at Each Launch Control Center (LCC) and Launch Facility (LF):	
*	Feb 1989	Volume 1 Main Text and Appendices A-D, by J. V. Farr	AD B130 475

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-87-18*	May 1987	Vulnerability of Selected Structures to CANETIP-Type Munitions, by J. C. Ray, W. L. Huff, R. E. Walker, and L. K. Guice	AD B113 788L
TR SL-87-19		Effects of Site Geology on Ground Shock Environments:	
*	Jun 1987	Report 1 Constitutive Models for Materials I2, I3, and W1-W10, by H. D. Zimmerman, M. H. Wagner, J. A. Carney, and Y. M. Ito	AD B113 906L
TR SL-87-20	Jul 1987	Dependence of Expansion of a Salt-Saturated Concrete on Temperature and Mixing and Handling Procedures, by L. D. Wakeley (also cited as CTIAC No. 28)	AD A185 060
TR SL-87-21	Jul 1987	Thermal Stress Analyses of Mississippi River Lock and Dam 26(R), by A. A. Bombich and C. D. Norman	AD A183 664
TR SL-87-22*	Aug 1987	Crater Ejecta Characteristics and Distribution for the MINOR SCALE Event, by S. H. Scott	AD B115 323L
TR SL-87-26*	Sep 1987	Advanced Silo Hardness (ASH) Test Program; External Shock Mitigation (ESM) Test, STP 4.5A ADD-ON, by H. S. McDevitt, Jr.	
TR SL-87-27	Sep 1987	Importance of Rigid-Body Motions on a Single-Degree-of-Freedom Model, by R. L. Hall	AD A188 416
TR SL-87-28*	Nov 1987	Evaluation of Cover Systems Against the M180 Cratering Kit, by R. S. Wright and J. W. Ball	AD B120 235L
TR SL-87-29	Nov 1987	Evaluation of Alternate Roof-Wall Details for the Keyworker Blast Shelter, by T. R. Slawson, S. C. Woodson, and A. L. Harris	AD A189 075
TR SL-87-30*	Nov 1987	Impact of AP Projectile into Array of Large Caliber Boulders, by M. D. Gelman, R. B. Nelson, and Y. M. Ito	AD B118 174
TR SL-87-31	Nov 1987	Dynamic Test of a Corrugated Steel Keyworker Blast Shelter: MISTY PICTURE, by R. L. Holmes, T. R. Slawson, and A. L. Harris	AD A190 607
TR SL-88-1*	Jan 1988	TRS Blast Environment Evaluation Experiment, MISTY PICTURE Event, Data Report, by D. D. Rickman	AD B118 847L
TR SL-88-2	Jan 1988	Fast Triaxial Shear Device Evaluation, by W. F. Carroll	AD A190 349
TR SL-88-3*	Jan 1988	MISTY PICTURE Ground Motion Measurements, Data Report, by D. D. Rickman and J. K. Ingram	AD B118 156L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-88-4	Jan 1988	Development and Implementation of Instrumentation for WIPP Test Series A of the Small-Scale Seal Performance Tests, by D. L. Ainsworth	AD A191 174
TR SL-88-5*	Feb 1988	MISTY PICTURE Ground Motion Measurements, Final Report, by D. D. Rickman and J. K. Ingram	
TR SL-88-8*	Feb 1988	Advanced Silo Hardness (ASH) Test Program; External Shock Mitigation (ESM) Tests, EZ-2 and EZ-3, by H. S. McDevitt, Jr., H. W. McGee, Jr., L. F. Ingram, and J. L. Drake	AD B121 097L
TR SL-88-9	Feb 1988	Rate Effects in Shear for CARES-Dry Soil, by W. F. Carroll	
TR SL-88-10	Feb 1988	Summary of the Richard B. Russell Concrete Dam Vibration Study, by R. S. Wright, V. P. Chiarito, and R. L. Hall	AD A191 063
TR SL-88-11*	Mar 1988	Cone-Index-Based Estimates of Soil Strength: Theory and User's Guide for Computer Code CIBESS, by R. W. Meier and G. Y. Baladi	AD B119 406L
TR SL-88-14	Mar 1988	Vibration Test of Richard B. Russell Concrete Dam After Reservoir Impoundment, by T. L. Bevins, V. P. Chiarito, and R. L. Hall	AD A194 190
TR SL-88-15*	Mar 1988	Initial Conditions and Cubic Power Series Models for Impulse Calculation from Photopole Data, by J. B. Cheek	AD B121 125L
TR SL-88-17*	Mar 1988	Chemical Protection for Army Personnel Shelters, by G. L. Carre	AD B121 775L
TR SL-88-19*	Mar 1988	Crater Ejectra Missile Survey for the MISTY PICTURE Event, by S. H. Scott	AD B121 127L
TR SL-88-20*	Apr 1988	Acoustic Filtering of Kulite HKS Airblast Gages, by D. D. Rickman	AD B121 124L
TR SL-88-22	Jun 1988	Spall Damage of Concrete Structures, by M. K. McVay	AD A199 225
TR SL-88-23*	Jul 1988	High Explosive Tests of Swedish-Norwegian Defense Structures, by R. S. Wright	AD B125 425
TR SL-88-24	May 1988	Review of the Grouting Specification for the Exploratory Shaft, Basalt Waste Isolation Project (BWIP), by L. D. Wakeley, E. F. O'Neil III, and J. A. Boa, Jr.	

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-88-25	Apr 1988	A Technique for Developing Probabilistic Properties of Earth Materials, by J. D. Cargile	AD A195 698
TR SL-88-26*	Apr 1988	Fort Riley Earth Penetration Program: Material Properties Investigation, by J. V. Farr	AD B122 692L
TR SL-88-27		Research Studies on the Behavior of NTS Tuffs and Containment Grouts:	
*	Mar 1989	Report 1 Results from FY 85 Laboratory Tests, by S. A. Akers	AD B131 732
*	Apr 1988	Report 2 Results from FY 87 Laboratory Tests on HSSL-50/50, DSRM-2, and ME8-05(CC) Grouts, by J. V. Farr and A. E. Jackson, Jr.	AD B123 154L
*	Jun 1992	Report 3 Results from FY 88 Laboratory Tests on DSRM-2 and ME8-05(CC) Grouts, by S. A. Akers	
TR SL-88-28		Terrain-Vehicle Interaction Models to Support Hard Mobile Launcher (HML) Studies:	
*	Jun 1988	Report 1 Three-Dimensional Sliding Stability Model for Rigid-Base HML Vehicles on Flat Terrain, by R. W. Meier and G. Y. Baladi	AD B123 683
TR SL-88-29	Jun 1988	Use of Pozzolan or Slag in Concrete to Control Alkali-Silica Reaction and Sulfate Attack, by A. D. Buck	AD A198 810
TR SL-88-31*	Aug 1988	LB/TS Ground Shock Transmission Evaluation Experiment, by J. K. Ingram and D. D. Rickman	AD B126 370L
TR SL-88-32	Aug 1988	Analysis of Stresses and Force Resultants in Oblong Conduits Under Uniformly Distributed Loads, by R. S. Sandhu and Chia-chi Chen	AD A198 853
TR SL-88-34	Aug 1988	Sulfate Resistance of Mortars Made Using Portland Cement and Blends of Portland Cement and Pozzolan or Slag, by G. S. Wong and Toy Poole	AD A199 383
TR SL-88-35*	Sep 1988	Ground Motion Measurements, Projects 8060 and 9200, MINOR SCALE Event, by J. K. Ingram and D. D. Rickman	AD B126 035
TR SL-88-37	Sep 1988	Static Tests of Shallow-Buried Reinforced Concrete Arches, by F. D. Dallriva and R. L. Hall	AD A200 456

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-88-38*	Sep 1988	Results of Axisymmetric Strain-Path and Stress-Path Tests on Yuma Clayey Sand, by C. M. Mueller, S. A. Akers, and A. E. Jackson, Jr.	AD B128 249
TR SL-88-39*	Oct 1988	Expedient Field Fortifications Using Sand-Grid Construction, by P. G. Hayes	AD B127 586L
TR SL-89-1*	Jan 1989	Peacekeeper Rail Garrison Train Alert Shelter (TAS) Spacing Study, by J. S. Shore, D. L. Ward, G. E. Pace, et al.	AD B129 231
TR SL-89-2*	Jan 1989	Scale Model T-Beam Tests to Determine the Terminal Effects Required for Bridge Demolition, by J. C. Ray and W. L. Huff	AD B129 531
TR SL-89-3*	Jan 1989	Development of a High-Range Particle-Velocity Gage, by H. G. White	
TR SL-89-4	Mar 1989	Simplified Earthquake Analysis of Gated Spillway Monoliths of Concrete Gravity Dams, by A. K. Chopra and Hanchen Tan	AD A207 080
TR SL-89-5	Apr 1989	Evaluation of Barrier Cable Impact Pad Materials, by T. B. Husbands and D. L. Bean (also cited as CTIAC No. 84)	AD A207 554
TR SL-89-6	Jun 1989	Thermal Stress Analysis of Lock Wall, Dashields Locks, Ohio River, by M. I. Hammons, S. B. Garner, and D. M. Smith	AD A210 410
TR SL-89-8	Jun 1989	Analysis of Structural Instrumentation Data for Lock and Dam No. 1, Red River, by R. C. Donahey and R. L. Hall	AD A210 194
TR SL-89-9*	Jul 1989	Static Test and Dynamic Analysis of Standard Construction Components, by Lebron Simmons, D. L. Tilson, and J. M. Watt, Jr.	AD B134 507L
TR SL-89-10*	Aug 1989	Peacekeeper Rail Garrison Train Alert Shelter (TAS) Spacing Study; Addendum 1, by J. S. Shore, D. L. Ward, G. E. Pace, et al.	AD B135 377
TR SL-89-11	Sep 1989	Analysis of Posttensioned Anchor Bond-Stress Distribution, Point Marion Lock, Monongahela River, by D. M. Smith and M. I. Hammons (also cited as CTIAC No. 85)	AD A213 498
TR SL-89-12*	Oct 1989	Ammonium Perchlorate Oxidizer Detonation Sensitivity Characterization Tests, by C. E. Joachim	AD B140 739L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-89-14*	Oct 1989	Advanced Silo Hardness (ASH) Add-On Experiment to the Combined DIHEST Calibration Test (CDC-2), by J. H. Weathersby, C. F. Bagge, J. L. Bratton, et al.	AD B138 656
TR SL-89-15	Oct 1989	Effects of Explosions in Underground Magazines, by D. R. Smith, C. E. Joachim, L. K. Davis, and G. W. McMahon	AD A214 436
TR SL-89-17	Nov 1989	Reference Properties of Cement-Based Plugging and Sealing Materials for the Waste Isolation Pilot Plant (WIPP), by C. W. Gulick and L. D. Wakeley	AD A215 831
TR SL-89-18	Sep 1989	Backfill Effects on Response of Buried, Reinforced Concrete Slabs, by P. G. Hayes	AD A215 823
TR SL-90-1	Feb 1990	Evaluation of Nonlinear Constitutive Properties of Concrete, by C. D. Norman (also cited as CTIAC No. 86)	AD A218 669
TR SL-90-2*	Feb 1990	Misty Port III Active Measurements, by D. D. Rickman, C. R. Welch, and J. K. Ingram	AD B141 631
TR SL-90-4*	Apr 1990	Design Calculations for Air Operations Center, Shaikh Isa Air Base, Bahrain, by J. T. Baylot and J. H. Weathersby	AD B143 176
TR SL-90-5*	Apr 1990	Penetration Test of Masonry Walls with Small-Arms Ammunition, by J. W. Ball, G. P. Clemens, and D. R. Colthrap	AD B143 954
TR SL-90-6*	May 1990	In-Structure Shock Analyses of Above Ground Box Structures, by R. S. Wright	AD B145 979
TR SL-90-7*	Jul 1990	Conventional Weapon Test on Mounded Precast Arches, by J. L. Davis and F. D. Dallriva	AD B147 373
TR SL-90-8		Red River Thermal Studies:	
	Jul 1990	Report 1 Concrete Mixture Selection and Characterization, by M. I. Hammons, D. M. Smith, and B. D. Neeley (also cited as CTIAC No. 87)	AD A227 906
	Dec 1991	Report 2 Thermal Stress Analysis, by Sharon Garner, Michael Hammons, and Anthony Bombich	AD A247 055
TR SL-90-9		Deep Basing Program Research Task 2:	
*	Sep 1990	Report 1 Validation of the Universal Distinct Element Computer for Deep Basing Applications, by B. J. Armstrong	AD B150 577L

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-90-9* (Cont.)	Jul 1990	Report 2 Description of the UDEC Code and Its Application to ICBM Deep Basing, by B. J. Armstrong	AD B147 329
*	Jul 1990	Report 3 Calculations of Tunnel Response to In-Situ and Shock Induced Loads, by B. J. Armstrong	AD B147 374
TR SL-90-10	Aug 1990	Shallow Underground Tunnel/Chamber Explosion Test Program Summary Report, by C. E. Joachim	AD A225 622
TR SL-90-11	Oct 1990	Response Limits of Blast-Resistant Slabs, by S. C. Woodson	AD A229 338
TR SL-90-12*	Dec 1990	Vulnerability of Dams to Conventional Munitions, by L. K. Davis	AD B152 746
TR SL-90-13*	Oct 1990	Comparative Scale Model Bridge Pier Tests in Support of the Penetration Augmented Munition (PAM) Development Program, by J. C. Ray	AD B151 340
TR SL-90-14*	Sep 1990	Misers Gold Ground Motion Measurements, by D. D. Rickman, J. K. Ingram, and J. H. Stout	AD B154 671
TR SL-90-15*	Nov 1990	Test and Analyses of Exposedly Damaged Scale Model Bridge Piers, by J. C. Ray	AD B151 705L
TR SL-91-1*	Jan 1991	Misers Gold High-Pressure Airblast Measurements, by D. D. Rickman	AD B152 229
TR SL-91-2	Jan 1991	Evaluation of Parameters Affecting Thermal Stresses in Mass Concrete, by A. A. Bombich, S. Garner, and C. D. Norman (also cited as CTIAC No. 88)	AD A231 703
TR SL-91-4	Apr 1991	Evaluation of Rapid-Setting Concretes for Airfield Spall Repair, by L. D. Wakeley, T. B. Husbands, and C. L. White	AD A237 046
TR SL-91-5*	Apr 1991	Effects of M67 Fragmentation Grenades Against Concrete Panels, by J. H. Weathersby, D. R. Coltharp, and T. R. Stanton	AD B155 841
TR SL-91-6*	Apr 1991	Static Testing of Laminated Thermally Tempered Glass (LTTG), by D. L. Tilson and J. M. Watt, Jr.	AD B154 573
TR SL-91-7	Apr 1991	Development and Implementation of Time-Dependent Cracking Material Model for Concrete, by S. B. Garner and M. I. Hammons	AD A237 416

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-91-8*	May 1991	Effectiveness of High-Strength Concrete in Hardening of Runways Against a Subscale Intermediate Size Runway Penetrator, by J. D. Cargile, T. K. Cummins, and R. Moxley	AD B156 015
TR SL-91-9	Jun 1991	Concrete Mixture Selection and Characterization Study, Olmsted Locks and Dam, Ohio River, by M. I. Hammons, B. D. Neeley, A. M. Alexander, et al. (also cited as CTIAC No. 89)	AD A239 001
TR SL-91-11	Jul 1991	KA-III, PHASE C, M-1 Propellant Tests: Deflagration in Partial Confinement, by C. E. Joachim	AD A240 185
TR SL-91-13*	Jun 1991	Three-Dimensional Projectile Penetration in Soil and Rock: User's Guide for Computer Code PENCO3D, by D. C. Creighton	AD B158 964
TR SL-91-14	Aug 1991	Mechanical Properties of Mass Concrete at Early Ages, by D. M. Smith	AD A241 135
TR SL-91-15*	Aug 1991	The Development and Characterization of Conventional-Strength and High-Strength Portland Cement Concrete Mixtures for Projectile Penetration Studies, by B. D. Neeley, M. I. Hammons, and D. M. Smith	AD B158 814
TR SL-91-16*	Aug 1991	The Potential for Commercial Production of High-Strength Concrete in the Preunified Federal Republic of Germany, by S. A. Ragan	AD B158 813
TR SL-91-17*	Aug 1991	Tactical Explosive System (TEXS) Exploding-Pipe Ditching (EPD) Calibration Test; Yuma Proving Ground, Arizona, March - May 1989, Fort Benning, Georgia, September - October 1989, by F. W. Skinner, Jr., and H. S. McDevitt, Jr.	AD B158 528
TR SL-91-18*	Aug 1991	Blast Window Test Program, by D. L. Tilson, J. C. Hamilton III, D. R. Coltharp, and J. M. Watt, Jr.	AD B158 594
TR SL-91-19*	Oct 1991	Mineral Find 2 and 3 Free-Field Measurements, by D. D. Rickman and C. R. Welch	AD B160 484
TR SL-91-20	Oct 1991	Evaluation of In-Structure Shock Prediction Techniques for Buried Structures, by R. C. Dove	AD A243 178
TR SL-91-21*	Oct 1991	Mineral Find 1 Airblast Measurement, by D. D. Rickman, C. R. Welch, and J. H. Stout	AD B160 608
TR SL-91-22*	Nov 1991	Effective Stress Behavior of Intact Salem Limestone, by T. K. Cummins	AD B160 382

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-91-23*	Oct 1991	Comparative Static Testing of Thermally Tempered Glass (TTG), by D. L. Tilson and J. M. Watts, Jr.	AD B161 130L
TR SL-91-24*	Dec 1991	An Experimental Study of Passive Airblast Attenuation Devices for Conventional Weapons Effects, by R. L. Holmes	
TR-SL-92-1*	Jan 1992	Midnight Hour 1 Active Measurements, by D. D. Rickman and C. R. Welch	AD B162 108
TR SL-92-2	Mar 1992	Lacing Versus Stirrups - An Experimental Study of Shear Reinforcement in Blast-Resistant Structures, by S. C. Woodson	AD A251 438
TR SL-92-5*	Mar 1992	Airblast Testing of Noviflex Glazed Window Systems, by J. M. Watt., Jr. and D. L. Tilson	AD B163 127L
TR SL-92-6	Mar 1992	Investigation of Proprietary Air-Entraining Admixtures to Produce Frost-Resistant Concrete with Low Air Content, by B. D. Neeley, W. E. McDonald, and M. K. Lloyd	AD A248 959
TR SL-92-8*	Apr 1992	Airblast Testing of Blast-Resistant Window Systems, by J. M. Watt, Jr., and D. L. Tilson	AD B164 327
TR-SL-92-9	Apr 1992	Parameters Affecting Loads on Buried Structures Subjected to Localized Blast Effects, by J. T. Baylot	AD A261 365
TR SL-92-10*	Mar 1992	Effectiveness of Yaw-Inducing Bar Screens for Defeating Low Length-to-Diameter Armor-Piercing Projectiles, by J. D. Cargile and T. K. Cummins	AD B164 366
TR SL-92-11	Apr 1992	Improved Strength Design of Reinforced Concrete Hydraulic Structures - Research Support, by S. C. Woodson and W. A. Price	AD A251 470
TR SL-92-12	Jun 1992	Analysis of D'Alembert Unfolding Technique for Hopkinson Bar Gage Records, by A. P. Ohrt	AD A268 494
TR SL-92-14	Jun 1992	Deteriorated Concrete from Liner of WIPP Waste Shaft, by L. D. Wakeley, T. S. Poole, and J. P. Burkes	AD A254 019
TR SL-92-15*	Jun 1992	WES Free-Field Measurements, TELL 91 Test Series, by D. D. Rickman	AD B175 621
TR SL-92-16*	Jun 1992	Development and Characterization of Fiber-Reinforced and Slag-Binder Concrete Mixtures for Projectile Penetration Studies, by M. I. Hammons, B. D. Neeley, and D. M. Smith	AD B166 423

* Statement B. See Preface.

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-92-17*	Aug 1992	Distant Image Ground Motion Measurements, Final Report, by D. D. Rickman, B. D. Fuller, and J. H. Stout	
TR SL-92-19	Aug 1992	Petrographic Techniques Applied to Cement-Solidified Hazardous Waste, by L. D. Wakely, G. S. Wong, and J. P. Burkes	AD A256 067
TR SL-92-20	Aug 1992	Quality Assurance Plan for Placement of Cold-Cap Grout, Demonstration Vault, Hanford Grout Vault Program, by P. T. Harrington, L. D. Wakeley, J. J. Ernzen, and D. M. Walley	AD A255 234
TR SL-92-21	Aug 1992	Grout for Closure of the Demonstration Vault at the U.S. DOE Hanford Facility, by L. D. Wakeley, and J. J. Ernzen	AD A256 220
TR SL-92-24*	Sep 1992	Effectiveness of High-Strength Concrete in Hardening of Runways Against a Subscale, Boosted Submunition, by R. E. Moxley	AD B168 193
TR SL-92-25*	Sep 1992	Evaluation of Trench Structures for Field Storage of Ammunition Trucks, by L. K. Davis, F. W. Skinner, Jr., and G. Rubin de la Borbolla	AD B169 173
TR SL-92-26*	Nov 1992	PENCO2D/ABAQUS: A Simply Coupled Penetration Trajectory/Structural Dynamics Model for Deformable Projectiles, by M. D. Adley	AD B170 378
TR SL-92-27	Nov 1992	Seismic Analysis of Arkabutla Intake-Outlet Structures, by W. G. Johnson, V. P. Chiarito, and R. L. Holmes	AD A259 276
TR SL-92-28		Nonlinear, Incremental Structural Analysis of Olmsted Locks and Dams:	
	Dec 1992	Volume I Main Text, by Sharon Garner, A. A. Bombich, C. D. Norman, et al.	AD A264 718
	Dec 1992	Volume II Appendixes A through I, by Sharon Garner, A. A. Bombich, and C. D. Norman	AD A264 902
TR SL-93-1	Jan 1993	Analysis of Hopkinson Bar Pressure Gage, by J. T. Baylot	AD A262 366
TR SL-93-2*	Jan 1993	Penetration of a Subscale Semi-Armor-Piercing Projectile into Conventional-Strength and High-Strength Concrete Targets, by J. D. Cargile and L. E. Tidwell	AD B171 880
TR SL-93-3	Apr 1993	Design and Development of a Miniature, Column-Based Interface (MCBI) Stress Gage, by D. D. Rickman	

* Statement B. See Preface.

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR SL-93-4	Apr 1993	Length Change and Strength Development of Candidate Cement-Based Sealing Mixtures for the WIPP, by T. S. Poole and L. D. Wakeley	AD A266 316
TR SL-93-5	Apr 1993	Investigation of Probable Causes of Cracking, Aircraft Weather Shelters, Kadena Air Base, Okinawa, by L. D. Wakeley, W. G. Johnson, and P. T. Harrington	AD A265 782
TR SL-93-6*	May 1993	Design Criteria for Rock-Rubble Overlays to Defeat High-Velocity Hard Target Penetrators, by Behzad Rohani and L. E. Tidwell	AD B174 344
TR SL-93-7	Jun 1993	Analysis of Seismic Intrusion Detector (SID) Portion of Tactical Remote Sensor System (TRSS), by B. L. Carnes, N. F. Larsen, and J. C. Morgan	AD B174 890

* Statement B. See Preface.

Concrete Structures Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
C-80-1	Mar 1980	Repair and Rehabilitation	
C-80-2	Aug 1980	Repair and Rehabilitation	
C-81-1 thru C-81-3	Feb 1981 thru Dec 1981	Repair and Rehabilitation	
C-82-1	Sep 1982	Repair and Rehabilitation	
C-83-1	Aug 1983	Repair and Rehabilitation	

Automation Technology Center

Automation Technology Center

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR K-80-1	Feb 1980	User's Guide: Computer Program for Design/Review of Curvilinear Conduits/Culverts (CURCON), by M. M. Harter, B. E. Bircher, and H. B. Wilson	AD A084 476
IR K-80-2	Feb 1980	User's Guide: Computer Program with Interactive Graphics for Coordinate Geometry Analysis, by H. B. Wilson and J. L. Hill	AD A082 128
IR K-80-3	Mar 1980	A Three-Dimensional Finite Element Data Edit Program, by F. T. Tracy and A. M. Wade	AD A084 481
IR K-80-4		A Three-Dimensional Stability Analysis/Design Program (3DSAD):	
	Jun 1980	Report 1 General Geometry Module, by F. T. Tracy	AD A087 074
	Jun 1982	Report 3 General Analysis Module (CGAM), by F. T. Tracy and C. W. Kling	AD A117 387
	Aug 1983	Report 4 Special-Purpose Modules for Dams (CDAMS), by F. T. Tracy, C. W. Kling, and W. J. Holtham	
IR K-80-5	Oct 1980	Computer Programs for Settlement Analysis, by R. L. Mosher and N. Radhakrishnan	AD A093 955
IR K-80-6	Dec 1980	Basic User's Guide: Computer Program for Design and Analysis of Inverted-T Retaining Walls and Floodwalls (TWDA), by W. A. Price, R. L. Hall, H. W. Jones, et al.	AD A097 011
IR K-80-7	Dec 1980	User's Reference Manual: Computer Program for Design and Analysis of Inverted-T Retaining Walls and Floodwalls (TWDA), by W. A. Price, R. L. Hall, H. W. Jones, et al.	AD A100 734
IR K-81-1	Jan 1981	User's Guide for the Interactive Computer Program "LITLPLT," by M. E. George and J. M. Jones II	AD A096 726
IR K-81-2		User's Guide: Computer Program for Design and Analysis of Sheet Pile Walls by Classical Methods (CSHTWAL):	
	Feb 1981	Report 1 Computation Processes, by W. P. Dawkins	AD A098 693
	Mar 1981	Report 2 Interactive Graphics Options, by M. E. George	AD A099 519

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR K-81-3	Feb 1981	Validation Report: Computer Program for Design and Analysis of Inverted-T Retaining Walls and Floodwalls (TWDA), by W. A. Price, R. L. Hall, R. L. Mosher, et al.	AD A099 377
IR K-81-4	Mar 1981	User's Guide: Computer Program for Design and Analysis of Cast-in-Place Tunnel Linings (NEWTUN), by W. J. Holtham and J. R. Fay	AD A099 672
IR K-81-5	Mar 1981	User's Guide: Computer Program for Optimal Design and Analysis of Pile Foundations (PILEOPT), by J. L. Hill	AD A099 122
IR K-81-6	Mar 1981	User's Guide: Computer Program for Optimum Non-linear Dynamic Design of Reinforced Concrete Slabs Under Blast Loading (CBARCS), by J. M. Ferritto, R. M. Wamsley, and P. K. Senter	AD A104 253
IR K-81-7	Mar 1981	User's Guide: Computer Program for Design or Investigation of Orthogonal Culverts (CORTCUL), by W. P. Dawkins	AD A100 968
IR K-81-8	Aug 1981	User's Guide: Interactive Computer Graphics Slope Stability Package with Drum Plot Capabilities (DGSLOPE), by R. L. Hall and P. K. Senter	AD A104 211
IR K-81-9	Aug 1981	User's Guide: Computer Program for Three-Dimensional Analysis of Building Systems (CTABS80), by E. L. Wilson, H. H. Dovey, and Ashraf Habibullah	AD A105 513
IR K-82-1	Jan 1982	User's Guide to the Flood Damage Estimation System, by W. L. Enete	AD A111 968
IR K-82-2	Jan 1982	User's Guide for the Potamology Data Processing System (PODAPS), by W. L. Enete and Sherry Brooks	AD A111 848
IR K-82-3	Apr 1982	Primer on Computer Graphics Programming	AD A116 257
IR K-82-4	Apr 1982	Notebook for Lessons on the Graphics Compatibility Systems (GCS), by Darrell Ward, J. M. Jones II, and M. E. George	AD A116 113
IR K-82-5	May 1982	User's Guide for PATTERN: A Picture- and Model-Generating Interactive Computer Graphics Program, by Les Guice, Charles Schroeder, William Fithin, and M. E. George	AD A119 822
IR K-82-6	Jun 1982	User's Guide: Computer Program for Analysis of Beam-Column Structures with Nonlinear Supports (CBEAMC), by W. P. Dawkins	AD A117 386

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR K-82-7	Jun 1982	User's Guide: Computer Program for Bearing Capacity Analyses of Shallow Foundations (CBEAR), by R. L. Mosher and M. E. Pace	AD A118 487
	Mar 1985	Errata Sheet No. 1	
IR K-83-1	Jan 1983	User's Guide: Computer Program with Interactive Graphics for Analysis of Plane Frame Structures (CFRAME), by J. P. Hartman and J. J. Jobst	AD A129 507
IR K-83-2	Jun 1983	User's Guide: Computer Graphics Program for Generation of Engineering Geometry (SKETCH), by J. A. Brewer III	AD A133 600
IR K-83-3	Jun 1983	User's Guide: Computer Program for Soil-Structure Interaction Analysis of Sheet Pile Retaining Walls (CSHTSSI), by W. P. Dawkins	AD A137 134
IR K-83-4	Sep 1983	User's Guide for a Plane and Axisymmetric Finite Element Program for Steady-State Seepage Problems, by F. T. Tracy	AD A134 090
IR K-83-5	Jul 1983	User's Guide: Computer Program to Calculate Shear, Moment, and Thrust (CSMT) from Stress Results of a Two-Dimensional Finite Element Analysis, by F. T. Tracy, R. L. Hall, and K. W. Trahan	AD A134 089
IR K-83-6	Oct 1983	User's Guide: Interactive Graphics Computer Program for Contouring Randomly Spaced Data, by F. T. Tracy	AD A135 861
IR K-83-7	Nov 1983	Analyzing Sliding Stability of Structures Using the Modified Computer Program GWALL, by R. L. Hall	AD A136 954
IR K-84-1	Jan 1984	User's Guide to the Flood Damage Estimation System, by W. L. Enete	AD A140 786
IR K-84-2	Jan 1984	User's Guide: Computer Program for Optimum Dynamic Design of Nonlinear Metal Plates Under Blast Loading (CSDOOR), by J. M. Ferritto, R. M. Wamsley, and P. K. Senter	AD A140 053
IR K-84-3	Jan 1984	User's Guide: Modified Slope Stability Package with Kansas City Analysis (DGSLOPE), by R. L. Hall and M. E. Pace	AD A140 318
IR K-84-4	Feb 1984	User's Guide: Computer Program for Soil-Structure Interaction Analysis of Axially Loaded Piles (CAXPILE), by W. P. Dawkins	AD A144 329
IR K-84-5	Mar 1984	User's Guide: Computer Program for Analysis of Two-Dimensional Beam-Columns with Nonlinear Supports (CBNTBM), by W. P. Dawkins	AD A143 170

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR K-84-6	Jul 1984	User's Guide to Potamology Data Processing System (PODAPS), by W. L. Enete and Sherry Brooks	AD A146 812
IR K-84-7	Aug 1984	User's Guide: Computer Program for Determining Induced Stresses and Consolidation Settlements (CSETT), by A. E. Templeton	AD A146 730
IR K-84-8	Sep 1984	Seepage Analysis of Confined Flow Problems by the Method of Fragments (CFRAG), by M. E. Pace, Reed Mosher, D. R. Williams, and T. F. Wolff	AD A150 015
IR K-84-9	Sep 1984	User's Guide for Concrete Strength Investigation and Design (CSTR), by C. C. Hamby and W. A. Price III	AD A151 617
IR K-84-10		User's Guide: A Computer Program for Strength Analysis of Nonhydraulic Concrete Structural Elements:	
	Sep 1984	Report 1 Concrete General Strength Investigation (CGSI), by W. A. Price III, M. D. Davister, and M. E. George	AD A156 392
	Sep 1984	Report 2 Strength Design of Reinforced Concrete Column Sections (PCAUC), by C. C. Hamby, D. K. Martin, and W. E. Gaylean	AD A156 393
IR K-84-11	Sep 1984	User's Guide for Computer Program CGFAG, Concrete General Flexure Analysis with Graphics, by W. A. Price III, Harvey Miller, M. L. Waites, and E. T. Gates	AD A155 555

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Sep 1979	Manual for a Conversationally Oriented Real-Time Program-Generating System (CORPS), by H. W. Jones	AD B042 375
MP ATC-86-1	May 1986	Design Analysis of U-Shaped Dry Dock and Lock Structures: A Survey, by A. D. Kerrz	AD A168 986

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR K-80-1	Jan 1980	Survey of Bridge-Oriented Design Software, by D. R. Schelling	AD A081 501
TR K-80-2	Jan 1980	Evaluation of Computer Programs for the Design/Analysis of Highway and Railway Bridges	AD A081 526
TR K-80-3	Jun 1980	Documentation for LMVDPILE Program, by D. K. Martin, H. W. Jones, and N. Radhakrishnan	AD A087 191
TR K-80-4		Documentation of Finite Element Analyses:	
	Dec 1980	Report 1 Longview Outlet Works Conduit, by Richard Huff and C. A. Merrill	AD A096 364
	Jun 1981	Errata Sheet No. 1	
	Dec 1980	Report 2 Anchored Wall Monolith, Bay Springs Lock, by P. T. McGee	AD A096 481
TR K-80-5	Dec 1980	Basic Pile Group Behavior	
TR K-81-1	May 1981	List of Soils, Soil-Structure Interaction and Other Related Computer Programs Available for LMVD Engineers, compiled by N. Radhakrishnan and P. K. Senter	AD A103 384
TR K-81-2	Sep 1981	Theoretical Basis for CTABS80: A Computer Program for Three-Dimensional Analysis of Building Systems, by E. L. Wilson, H. H. Dovey, and Ashraf Habibullah	AD A107 635
TR K-83-1	Sep 1983	Basic Pile Group Behavior, by the CASE Task Group on Pile Foundations	AD A137 200
TR K-83-2	Sep 1983	Accuracy Considerations when Using Some Minicomputers for Scientific and Engineering Problems, by W. F. Ingram, D. F. Dent, and N. Radhakrishnan	AD A134 141
	May 1985	Errata Sheet No. 1	
TR K-83-3	Sep 1983	Reference Manual: Computer Graphics Program for Generation of Engineering Geometry (SKETCH), by J. A. Brewer III, J. N. Jortner, and W. N. Waggenspack, Jr.	AD A133 493
TR K-83-4	Oct 1983	Case Study of Six Major General-Purpose Finite Element Programs, by R. L. Hall and N. Radhakrishnan	AD A139 065

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR K-84-1		Load-Transfer Criteria for Numerical Analysis of Axially Loaded Piles in Sand, by R. L. Mosher:	
	Jan 1984	Part I Load-Transfer Criteria	AD A139 236
	Jan 1984	Part II Load Pile Capacity Curves for Steel and Concrete Piles	AD A139 621
TR K-84-2	Apr 1984	Laterally Loaded Piles and Computer Program COM624G, by L. C. Reese, L. A. Cooley, and N. Radhakrishnan	AD A144 641
TR K-84-3*	Oct 1984	Computer-Aided Drafting and Design for Corps Structural Engineers	AD B092 080L
TR K-85-1		Application of Pasternak Model to Some Soil-Structure Interaction Problems:	
	May 1985	Volume I: Solutions for Plates Continuously Supported on a Pasternak Base, by A. D. Kerr	AD A157 776
	May 1985	Volume II: Determination of Foundation Parameters and the Choice of Models, by A. D. Kerr	AD A157 777
TR K-85-2	Jul 1985	Spring Stiffnesses for Beam-Column Analysis of Soil-Structure Interaction Problems, by R. L. Hall	AD A158 072
TR ATC-86-1	Mar 1986	Foundation Interaction Problems Involving an Elastic Half-Plane, by H. B. Wilson and L. H. Turcotte	AD A167 925
TR ATC-86-2	Apr 1986	The Application of Boundary-Element Techniques for some Soil-Structure Interaction Problems, by C. V. Girija Vallabhan and Jayaraman Sivakumar	AD A168 999
TR ATC-86-3	May 1986	Soil-Beam Interaction Analysis With a Two-Parameter Layer Soil Model: Homogeneous Medium, by Toyoaki Nogami and L. C. Lam	AD A169 271
TR ATC-86-4	May 1986	Red River U-Frame Lock Structure Analysis Comparison, by S. C. Das	AD A171 491
TR ATC-86-5		Decision Logic Table Formulation of ACI 318-77 Building Code Requirements for Reinforced Concrete for Automated Constraint Processing:	
	Jul 1986	Volume I by J. L. Noland	AD A173 663
	Jul 1986	Volume II by J. L. Noland	AD A173 728

* Statement B. See Preface.

Miscellaneous Subjects

Miscellaneous Subjects

Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
0-79-1 thru 0-79-5	Jan 1979 thru Dec 1979	Engineering and Scientific Research at WES	
0-80-1 thru 0-80-4	Apr 1980 thru Oct 1980	Engineering and Scientific Research at WES	
0-81-1 thru 0-81-3	Jan 1981 thru Dec 1981	Engineering and Scientific Research at WES	
0-82-1 thru 0-82-5	Jan 1982 thru Dec 1982	Engineering and Scientific Research at WES	
0-83-1	Jun 1983	Engineering and Scientific Research at WES	
0-83-2	Nov 1983	Engineering and Scientific Research at WES	
0-84-1	Jan 1984	Engineering and Scientific Research at WES	
0-84-2	Jun 1984	Engineering and Scientific Research at WES	

Instruction Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
IR 0-79-1	Mar 1979	Guide for Preparation of Waterways Experiment Station Technical-Information Reports, by T. B. Rosser III, R. T. Smart, and R. M. Schaff (supersedes Instruction Report 0-74-1)	AD A066 737
IR O-79-2	Mar 1979	User's Guide: Computer Program with Interactive Graphics for Analysis of Plane Frame Structures (CFRAME), by J. P. Hartman and J. J. Jobst (superseded by Instruction Report K-83-1)	AD A067 349
IR O-79-3*	Nov 1979	User's Guide for the Interactive Computer Program "CURVEFIT," by R. L. Renner	AD B042 971L
IR O-84-1	Oct 1984	Guide for Preparation of Waterways Experiment Station Technical-Information Reports, by T. B. Rosser III, R. T. Smart, and Rosemary Schaff (supersedes Instruction Report 0-79-1)	
IR O-85-1	Dec 1985	Guide for Preparation of Waterways Experiment Station Technical-Information Reports Prepared by Contractors	
IR O-91-1	Jul 1991	Operation and Maintenance Manual, Ultrasonic Fish Deterrent System, by J. L. Pickens	AD A239 627

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP O-79-1	Mar 1979	Host-Computer Implementation Guidelines for the Three-Dimensional Graphics Compatibility System (GCS), by R. F. Puk	AD A067 976
MP O-79-2	Mar 1979	Device Implementation Guidelines for the Three-Dimensional Graphics Compatibility System (GCS), by R. F. Puk	AD A070 867
MP O-79-3	Mar 1979	Raster Graphics Extensions to the Graphics Compatibility System (GCS), by J. D. Foley, James Templeton, and Dara Dastylar	AD A070 907
MP O-79-4	Oct 1979	Primer on Computer Graphics Programming, by Westinghouse Word Processing Center	AD A082 732
MP O-79-5	Oct 1979	Graphics Compatibility System (GCS) Programmer's Reference Manual, by Westinghouse Word Processing Center	AD A083 424
MP O-80-1*	Sep 1980	Evaluation of Two Acoustic Flowmeters for Dredge Use, by F. P. Hanes, G. C. Downing, and R. F. Beach	
MP O-81-1	Jun 1981	Electrical Noise Problems Associated with Cable and Gage Failure During Explosive Testing, by F. P. Hanes, F. P. Leake, and G. P. Bonner	AD A101 517
Unnumbered	Apr 1982	U. S. Army Corps of Engineers Surveying Requirements Meeting, 2-5 February 1982	AD A117 036
Unnumbered	Feb 1983	U. S. Army Corps of Engineers Surveying Requirements Meeting, Management Sessions, 1-5 February 1982	AD A126 254
Unnumbered	Feb 1985	U. S. Army Corps of Engineers Surveying Conference, 4-8 February 1985	AD A164 678
MP O-86-1	Oct 1986	A Capsule of Civil Works Research and Development, 1977-1986, by A. W. Ford	AD A173 065
MP O-87-1	Oct 1987	Comparison of Workforce Characteristics at WES with Nine Other Army Installations, by M. K. Vincent	
MP O-87-2	Oct 1987	Loss of Doctorates from WES, 1980-1987, by M. K. Vincent	AD A188 135

* Statement B. See Preface.

Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
MP O-87-3	Nov 1987	Comments on Twenty-First Congress, International Association for Hydraulic Research (IAHR), Melbourne, Australia, 19-23 August 1985, by F. R. Brown	AD A190 404
MP O-92-1	Mar 1992	Instrumentation Services Division Effort to Develop Fish Barriers at Richard B. Russell, Georgia, by J. L. Pickens	

Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR O-79-1		Implementation and Evaluation of Interval Arithmetic Software:	
	Apr 1979	Report 2 The Honeywell MULTICS System, by S. Podlaska- Lando, E. K. Reuter, and B. D. Shriver	AD A069 858
	Apr 1979	Report 3 The Honeywell G365 System, by J. Q. Arnold, F. P. Ford, and R. G. Hetherington	AD A070 374
	Apr 1979	Report 4 The IBM 370, DEC 10, and DEC PDP-11/70 Systems, by R. G. Ward	AD A070 530
	Apr 1979	Report 5 The CDC CYBER 70 System, by D. A. Cohn, J. B. Potter, and Myron Ginsberg	AD A070 375
TR O-84-1	Sep 1984	The Pump Sump Research Facility Microcomputer-Controlled Data Acquisition System, by B. W. McCleave	AD A149 798
TR O-85-1	Sep 1985	A Static Analysis of Errors in Transducer Calibration Techniques Used for Blast Phenomena Tests, by Falih Ahmad	AD A163 172
TR O-87-1	Mar 1987	Graduate Education: Experiences and Preferences of WES Engineers and Scientists, by M. K. Vincent	AD A179 552
TR O-87-2	May 1987	Networks of Markovian Queues, by R. A. Franco, Jr.	AD A182 994
TR O-88-1		A Self-Contained Shock Hardened (100KG) Data Acquisition System:	
*	Jun 1988	Report 1 Design and Development, by R. A. Franco, Jr.	AD A122 467L
TR O-89-1	Jan 1989	An Evaluation of the Hardened Digital Recording System, by R. J. Dinan	AD A204 607
TR O-90-1	Dec 1990	Analysis of Wideband Beamformers Designed with Artificial Neural Networks, by Cary Cox	AD A231 668
TR O-91-1	Apr 1991	Analysis of Acoustic Depth Sounder Signals with Artificial Neural Networks, by B. W. McCleave	AD A236 845

* Statement B. See Preface.

Construction Productivity Advancement Program Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
TR CPAR-GL-92-1	May 1992	Evaluation of Asphalt Rubber Binders in Porous Friction, by G. L. Anderton	AD A251 741
TR CPAR-GL-92-2	Dec 1992	Summary of Research on Asphalt Rubber Binders and Mixes, by G. L. Anderton, G. L. Cooper, J. A. Epps, et al.	AD A262 780
TR CPAR-GL-93-1	May 1993	Improved Materials and Processes for Sealing and Resealing Joints in Portland Cement Concrete Pavements: Laboratory Study, by L. N. Lynch, D. W. White, and James Chehovits	AD A269 741

Repair, Evaluation, Maintenance, and Rehabilitation Research Program Information Exchange Bulletins

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
1, No. 1 thru 1, No. 4	Jan 1984 thru Oct 1984	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
2, No. 1 thru 2, No. 3	Mar 1985 thru Sep 1985	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
3, No. 1 thru 3, No. 3	Apr 1986 thru Dec 1986	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
4, No. 1 thru 4, No. 4	Jul 1987 thru Dec 1987	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
5, No. 1 thru 5, No. 3	Mar 1988 thru Sep 1988	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
6, No. 1 thru 6, No. 5	Feb 1989 thru Dec 1989	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
7, No. 1 thru 7, No. 4	Jan 1990 thru Dec 1990	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
8, No. 1 thru 8, No. 4	Feb 1991 thru Dec 1991	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
9, No. 1 thru 9, No. 4	Mar 1992 thru Dec 1992	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	
10, No. 1 thru 10, No. 2	Mar 1993 thru Jun 1993	The REMR Bulletin: News from the Repair, Evaluation, Maintenance, and Rehabilitation Research Program	

Repair, Evaluation, Maintenance, and Rehabilitation Research Program Miscellaneous Papers

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Unnumbered	Feb 1983	REMR Research Program Development Report, by J. M. Scanlon, Jr., J. E. McDonald, C. L. McAnear, et al.	AD A125 998
Unnumbered	Sep 1985	The REMR Notebook	
	Aug 1987	Supplement No. 1	
	Aug 1988	Supplement No. 2	
	Feb 1990	Supplement No. 3	
	Feb 1991	Supplement No. 4	
	Apr 1992	Supplement No. 5	
Unnumbered	Jan 1987	Proceedings of REMR Workshop on Assessment of the Stability of Concrete Structures on Rock, 10-12 September 1985, compiled by W. F. McCleese	AD A185 644
Unnumbered	Aug 1988	REMR Research Publications Index of REMR Technology, current through July 1988; Interim	
Unnumbered	Jan 1988	Proceedings of REMR Workshop on New Remedial Seepage Control Methods for Embankment-Dams and Soil Foundations, 21-22 October 1986, compiled by E. B. Perry	AD A191 073
Unnumbered	Jul 1989	Proceedings of REMR Workshop on Research Priorities for Drainage System and Relief Well Problems, by R. E. Leach and H. M. Taylor, Jr.	AD A212 067
Unnumbered	Oct 1990	Index of REMR Technology and Listing of REMR Research Publications	AD A228 574
Unnumbered	Apr 1991	Proceedings of REMR Workshop on Repair and Maintenance of Shallow-Draft Training Structures 24-25 February 1987, compiled by D. L. Derrick	AD A235 666
Unnumbered	Nov 1992	Annotated Bibliography of REMR Technical Reports through September 1992	AD A260 114
Unnumbered	Mar 1993	Index of REMR Technology and Listing of REMR Research Publications through March 1993, by W. F. McCleese and N. F. Curtis	

Repair, Evaluation, Maintenance, and Rehabilitation Research Program Technical Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Coastal	
TR REMR-CO-1	Dec 1986	Stability of Rubble-Mound Breakwater and Jetty Toes; Survey of Field Experience, by D. G. Markle	AD A180 108
TR REMR-CO-2	Jan 1989	Prototype Experience with the Use of Dissimilar Armor for Repair and Rehabilitation of Rubble-Mound Coastal Structures, by R. D. Carver	AD A204 081
TR REMR-CO-3		Case Histories of Corps Breakwater and Jetty Structures:	
	Jan 1988	Report 1 South Pacific Division, by R. R. Bottin, Jr.	AD A192 294
	Sep 1988	Report 2 South Atlantic Division, by F. E. Sargent	AD A200 458
	Jun 1988	Report 3 North Central Division, by R. R. Bottin, Jr.	AD A198 436
	Sep 1988	Report 4 Pacific Ocean Division, by F. E. Sargent, D. G. Markle, and P. J. Grace	AD A199 879
	Nov 1988	Report 5 North Atlantic Division, by E. R. Smith	AD A207 146
	Nov 1988	Report 6 North Pacific Division, by D. L. Ward	AD A203 865
	Jan 1989	Report 7 New England Division, by F. E. Sargent and R. R. Bottin, Jr.	AD A204 082
	Jan 1989	Report 8 Lower Mississippi Valley Division, by F. E. Sargent and R. R. Bottin, Jr.	AD A204 083
	Jan 1989	Report 9 Southwestern Division, by F. E. Sargent and R. R. Bottin, Jr.	AD A204 084
TR REMR-CO-4	Feb 1988	Stability of Dolos and Tribar Overlays for Rehabilitation of Stone-Armored Rubble-Mound Breakwater and Jetty Trunks Subjected to Breaking Waves, by R. D. Carver and B. J. Wright	AD A192 487
TR REMR-CO-5	Jun 1988	Stability of Dolos Overlays for Rehabilitation of Dolos-Armored Rubble-Mound Breakwater and Jetty Trunks Subjected to Breaking Waves, by R. D. Carver and B. J. Wright	AD A195 392

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Coastal (Cont.)			
TR REMR-CO-6	Aug 1988	Stability of Dolos Overlays for Rehabilitation of Tribar-Armored Rubble-Mound Breakwater and Jetty Trunks Subjected to Breaking Waves, by R. D. Carver and B. J. Wright	AD A198 877
TR REMR-CO-7	Oct 1988	Methods to Reduce Wave Runup and Overtopping of Existing Structures, by J. P. Ahrens	AD A200 455
TR REMR-CO-8	Apr 1989	State-of-the-Art Procedures for Sealing Coastal Structures with Grouts and Concretes, by D. P. Simpson	AD A208 884
TR REMR-CO-9	May 1989	Stability of Dolos Overlays for Rehabilitation of Stone-Armored Rubble-Mound Breakwater Heads Subjected to Breaking Waves, by R. D. Carver	AD A208 577
TR REMR-CO-10	Aug 1989	Study of Breakwaters Constructed with one Layer of Armor Stone; Detroit District, by J. R. Wolf	AD A212 631
TR REMR-CO-11	Feb 1990	Underwater Inspection of Coastal Structures Using Commerically Available Sonars, by W. M. Kucharski and J. E. Clausner	AD A224 169
TR REMR-CO-12	Sep 1989	Stability of Toe Berm Armor Stone and Toe Buttressing Stone on Rubble-Mound Breakwaters and Jetties; Physical Model Investigation, by D. G. Markle	AD A213 589
TR REMR-CO-13	Mar 1990	Laboratory Techniques for Evaluating Effectiveness of Sealing Voids in Rubble-Mound Breakwaters and Jetties with Grouts and Concretes, by D. P. Simpson and J. L. Thomas	AD A220 178
TR REMR-CO-14	Sep 1990	Repair of Localized Armor Stone Damage on Rubble-Mound Structures; Coastal Model Investigation, by D. L. Ward and D. G. Markle	AD A227 014
TR REMR-CO-15	Oct 1990	Field Evaluation of Port Everglades, Florida, Rehabilitation of South Jetty by Void Sealing, by J. D. Rosati, and T. A. Deyes	AD A229 176
TR REMR-CO-16	Oct 1990	Rehabilitation of Permeable Breakwaters and Jetties by Void Sealing: Summary Report, by D. P. Simpson, J. D. Rosati, L. Z. Hales, et al.	AD A229 927
TR REMR-CO-17	Apr 1993	Use of a Rubble Berm for Reducing Runup, Overtopping, and Damage on a 1V to 2H Riprap Slope; Experimental Model Investigation, by D. L. Ward and J. P. Ahrens	AD A266 377

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Concrete and Steel Structures			
TR REMR-CS-1	Sep 1984	Engineering Condition Survey of Concrete in Service, by R. L. Stowe and H. T. Thornton, Jr.	AD A148 893
TR REMR-CS-2	Apr 1985	The Condition of Corps of Engineers Civil Works Concrete Structures, by J. E. McDonald and R. I. Campbell, Sr.	AD A157 992
TR REMR-CS-3	Jul 1986	Latex Admixtures for Portland Cement Concrete and Mortar, by D. L. Bean and T. B. Husbands	AD A171 352
	Nov 1986	Errata Sheet No. 1	
TR REMR-CS-4	Nov 1986	Repair of Waterstop Failures: Case Histories, by J. E. McDonald	AD A176 037
TR REMR-CS-5		Instrumentation Automation for Concrete Structures:	
	Dec 1986	Report 1 Instrumentation Automation Techniques, by John Lindsey, David Edwards, Aubrey Keeter, et al.	AD A178 139
	Jun 1987	Report 2 Automation Hardware and Retrofitting Techniques, by Aubrey Keeter, Byron Stonecypher, Tom Payne, et al.	AD A192 753
	Jan 1987	Report 3 Available Data Collection and Reduction Software, by Brian Currier and M. H. Fenn	AD A192 094
	Apr 1989	Report 4 Demonstration of Instrumentation Automation Techniques at Beaver Dam, Eureka Springs, Arkansas, by E. F. O'Neil	AD A208 571
TR REMR-CS-6	May 1987	In Situ Repair of Deteriorated Concrete in Hydraulic Structures: Feasibility Studies, by R. P. Webster and L. E. Kukacka	AD A182 297
TR REMR-CS-7	Jul 1987	Design of a Precast Concrete Stay-in-Place Forming System for Lock Wall Rehabilitation, by ABAM Engineers, Inc.	AD A185 081
TR REMR-CS-8	Nov 1987	Procedures and Devices for Underwater Cleaning of Civil Works Structures, by C. A. Keeney	AD A188 814
TR REMR-CS-9	Apr 1989	Inspection of the Engineering Condition of Underwater Concrete Structures, by Sandor Popovics and W. E. McDonald	AD A208 295
TR REMR-CS-10	Dec 1987	Development of Nondestructive Testing Systems for In Situ Evaluation of Concrete Structures, by H. T. Thornton, Jr., and A. M. Alexander	AD A191 312

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Concrete and Steel Structures (Cont.)			
TR REMR-CS-11	Jan 1988	In Situ Repair of Deteriorated Concrete in Hydraulic Structures: Laboratory Study, by R. P. Webster and L. E. Kukacka	AD A190 303
TR REMR-CS-12	Mar 1988	Factors Related to the Performance of Concrete Repair Materials, by L. I. Knab	AD A192 818
TR REMR-CS-13	Dec 1987	Rehabilitation of Navigation Lock Walls: Case Histories, by J. E. McDonald	AD A192 202
TR REMR-CS-14	Dec 1987	A Demonstration of the Constructibility of a Precast Concrete Stay-in-Place Forming System for Lock Wall Rehabilitation, by ABAM Engineers, Inc.	AD A195 471
TR REMR-CS-15	Aug 1988	Analysis of Concrete Cracking in Lock Wall Resurfacing, by C. D. Norman, R. L. Campbell, Sr., and Sharon Garner	AD A198 437
TR REMR-CS-16	Jan 1988	Repair of Dam Intake Structures and Conduits: Case Histories, by R. L. Campbell, Sr., and D. L. Bean	AD A192 819
TR REMR-CS-17		Surface Treatments to Minimize Concrete Deterioration:	
	Apr 1988	Report 1 Survey of Field and Laboratory Application and Available Products, by D. L. Bean	AD A195 069
	Sep 1990	Report 2 Laboratory Evaluation of Surface Treatment Materials, by T. B. Husbands and F. E. Causey	AD A227 373
TR REMR-CS-18	Apr 1988	Evaluation of Concrete Mixtures for Use in Underwater Repairs, by B. D. Neeley	AD A193 897
TR REMR-CS-19	Sep 1988	Review of the State of the Art for Underwater Repair Using Abrasion-Resistant Concrete, by B. C. Gerwick, Inc.	AD A199 793
TR REMR-CS-20	Feb 1989	Evaluation of Vinylester Resin for Anchor Embedment in Concrete, by J. E. McDonald	AD A206 847
TR REMR-CS-21	Apr 1989	In Situ Repair of Deteriorated Concrete in Hydraulic Structures: A Field Study, by R. P. Webster, L. E. Kukacka, and D. Elling	AD A208 913
TR REMR-CS-22	Aug 1989	Monolith Joint Repairs: Case Histories, by J. G. May and J. E. McDonald	AD A212 814

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Concrete and Steel Structures (Cont.)	
TR REMR-CS-23	Jan 1990	Evaluation of Polyester Resin, Epoxy, and Cement Grouts for Embedding Reinforcing Steel Bars in Hardened Concrete, by J. F. Best and J. E. McDonald	AD A218 347
TR REMR-CS-24	Sep 1989	Reliability of Steel Civil Works Structures, by P. F. Mlakar, Sassan Toussi, F. W. Kearney, and Dawn White	AD A212 922
TR REMR-CS-25	Jan 1990	Spall Repair of Wet Concrete Surfaces, by J. F. Best and J. E. McDonald	AD A218 708
TR REMR-CS-26	Oct 1989	Analysis of a Short Pulse Radar Survey of Revetments Along the Mississippi River, by S. A. Arcone	AD A213 501
TR REMR-CS-27	Dec 1989	User's Guide: Maintenance and Repair Materials Data Base for Concrete and Steel Structures, by R. L. Stowe, and R. L. Campbell, Sr.	AD A220 386
TR REMR-CS-28	Dec 1989	Concepts for Installation of the Precast Concrete Stay-in-Place Forming System for Lock Wall Rehabilitation in an Operational Lock, by BERGER/ABAM Engineers, Inc.	AD A220 399
TR REMR-CS-29	Mar 1992	Methods of Evaluating the Stability and Safety of Gravity Earth Retaining Structures Founded on Rock, by R. M. Ebeling, G. W. Clough, J. M. Duncan, and T. L. Brandon	AD A251 420
TR REMR-CS-30	Sep 1990	In Situ Repair of Deteriorated Concrete in Hydraulic Structure: Epoxy Injection Repair of a Bridge Pier, by R. P. Webster, L. E. Kukacka, and D. Elling	AD A229 429
TR REMR-CS-32	Mar 1991	Properties of Silica-Fume Concrete, by J. E. McDonald	AD A235 369
TR REMR-CS-33	Oct 1990	Anchor Embedment in Hardened Concrete Under Submerged Conditions, by J. E. McDonald	AD A234 384
TR REMR-CS-34	Nov 1990	Laboratory Evaluation of Concrete Mixtures and Techniques for Underwater Repairs, by B. D. Neeley, K. L. Saucier, and H. T. Thornton, Jr.	AD A231 384
TR REMR-CS-35	Mar 1991	Predicting Concrete Service Life in Cases of Deterioration Due to Freezing and Thawing, by L. M. Bryant and P. F. Mlakar	AD A236 616
TR REMR-CS-36		Evaluation and Repair of Concrete Structures; Annotated Bibliography, 1978-1988:	
	Jun 1991	Volume I by J. E. McDonald and W. E. McDonald	AD A242 218

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Concrete and Steel Structures (Cont.)			
TR REMR-CS-36 (Cont.)	Jun 1991	Volume II by J. E. McDonald and W. E. McDonald	AD A242 219
TR REMR-CS-37	Dec 1991	Underwater Repair of Concrete Damaged by Abrasion-Erosion, by K. H. Khayat	AD A245 901
TR REMR-CS-38	Dec 1991	Underwater Stilling Basin Repair Techniques Using Precast or Prefabricated Elements, by R. D. Rail and H. H. Haynes	AD A245 900
TR REMR-CS-39	Dec 1992	Continuous Deformation Monitoring System (CDMS), by C. A. Lanigan	AD A261 833
TR REMR-CS-40	Apr 1993	Impacts as a Source of Acoustic Pulse-Echo Energy for Nondestructive Testing of Concrete Structures, by A. M. Alexander	AD A264 368
Environmental Impacts			
TR REMR-EI-1	Nov 1986	Applicability of Environmental Laws to REMR Activities, by J. E. Henderson and L. D. Peyman	AD A177 322
TR REMR-EI-2	Nov 1986	Bibliography of Environmental Research Related to REMR, by N. R. Nunnally	AD A177 069
TR REMR-EI-3	Aug 1988	Compliance Requirements for Environmental Laws Applicable to REMR Activities, by J. E. Henderson and L. D. Peyman-Dove	AD A200 193
TR REMR-EI-4	Aug 1988	Seasonal Regulation of Repair, Evaluation, Maintenance, and Rehabilitation (REMR) Activities, by M. W. LaSalle, John Nestler, and A. C. Miller	AD A198 016
TR REMR-EI-5	Aug 1991	The Effects of Vegetation on the Structural Integrity of Sandy Levees, by D. H. Gray, Anne MacDonald, Thomas Thomann, et al.	AD A240 267
Geotechnical			
TR REMR-GT-1	Sep 1984	Mathematical Analyses of Landside Seepage Berms, by R. A. Barron	AD A150 014
TR REMR-GT-2	Aug 1985	Improvement of Liquefiable Foundation Conditions Beneath Existing Structures, by R. H. Ledbetter	AD A160 695
TR REMR-GT-3		Geotechnical Aspects of Rock Erosion in Emergency Spillway Channels:	

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Geotechnical (Cont.)			
TR REMR-GT-3 (Cont.)	Aug 1986	Report 1 by C. P. Cameron, K. D. Cato, C. C. McAneny, and J. H. May	AD A173 163
	Sep 1988	Report 2 Analysis of Field and Laboratory Data, by C. P. Cameron, D. M. Patrick, K. D. Cato, and J. H. May	AD A203 774
	Sep 1988	Report 3 Remediation, by C. P. Cameron, D. M. Patrick, C. O. Bartholomew, et al.	AD A203 775
	Dec 1989	Report 4 Geologic and Hydrodynamic Controls on the Mechanics of Knickpoint Migration, by J. H. May	AD A216 749
	Sep 1990	Report 5 Summary of Results, Conclusions, and Recommendations, by J. H. May, J. B. Palmerton, and C. C. McAneny	AD A288 781
TR REMR-GT-4	Nov 1987	State of the Art for Design and Construction of Sand Compaction Piles, by R. D. Barksdale	AD A188 81c
TR REMR-GT-5	Sep 1987	Inspection and Control of Levee Underseepage During Flood Fights, by R. W. Cunny	AD A188 324
TR REMR-GT-6		Geotechnical Applications of the Self Potential (SP) Method:	
	Mar 1988	Report 1 The Use of Self Potential in the Detection of Subsurface Flow Patterns in and Around Sinkholes, by R. A. Erchul	AD A194 524
	May 1989	Report 2 The Use of Self Potential to Detect Ground-Water Flow in Karst, by R. A. Erchul and D. W. Slifer	AD A209 339
	Feb 1989	Report 3 Development of Self-Potential Interpretation Techniques for Seepage Detection, by R. W. Corwin; Foreward by D. K. Butler	AD A207 704
	Mar 1990	Report 4 Numerical Modeling of SP Anomalies: Documentation of Program SPPC and Applications, by M. J. Wilt and D. K. Butler	AD A220 716
TR REMR-GT-7	Dec 1987	Applications of the State of the Art of Stone Columns--Liquefaction, Local Bearing Failure, and Example Calculations, by R. D. Barksdale	AD A191 606

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Geotechnical (Cont.)			
TR REMR-GT-8	Jul 1988	Review of Consolidation Grouting of Rock Masses and Methods for Evaluation, by R. M. Dickinson	AD A198 209
TR REMR-GT-9	Mar 1988	A Survey of Engineering Geophysics Capability and Practice in the Corps of Engineers, by D. K. Butler, R. E. Wahl, N. W. R. Mitchell, and G. L. Hemphen	AD A194 520
TR REMR-GT-10	Jul 1989	High-Resolution Seismic Reflection Investigations at Beaver Dam, Arkansas, by T. L. Dobecki, T. L. Mueller, and M. B. Savage	AD A211 228
TR REMR-GT-11	Sep 1989	Levee Underseepage Analysis for Special Foundation Conditions, by T. F. Wolff	AD A213 500
TR REMR-GT-12	Sep 1989	Re-evaluation of the Sliding Stability of Concrete Structures on Rock with Emphasis on European Experience, by K. Kovari and P. Fritz	AD A214 403
TR REMR-GT-13	Sep 1989	Levee Underseepage Software User Manual and Validation, by R. W. Cunny, V. M. Agostinelli, Jr., and H. M. Taylor, Jr.	AD A214 024
TR REMR-GT-14	Mar 1990	Surface Roughness Characterization of Rock Masses Using the Fractal Dimension and the Variogram, by J. R. Carr	AD A225 384
TR REMR-GT-15	Mar 1991	Plastic Concrete Cutoff Walls for Earth Dams, by T. W. Kahl, J. L. Kauschinger, and E. B. Perry	AD A234 566
TR REMR-GT-17	Jan 1992	Applications and Testing of Resin Grouted Rockbolts, by T. S. Avery and J. E. Friant	AD A245 980
TR REMR-GT-18	Sep 1992	Evaluation of the Rehabilitation Program for Relief Wells at Leesville Dam, Ohio, by R. E. Leach and Glen Hackett	AD A259 197
TR REMR-GT-19*	Nov 1992	DAMSEAL - An Expert System for Evaluating Dam Seepage, by R. L. King and W. O. Miller	AD B171 367
Hydraulics			
TR REMR-HY-1	Jul 1986	Annotated Bibliography for Navigation Training Structures, by W. E. Pankow and R. F. Athow, Jr.	AD A173 303
TR REMR-HY-2	Jun 1987	Floating Debris Control; A Literature Review, by R. E. Perham	AD A184 033
TR REMR-HY-3	Sep 1988	Elements of Floating-Debris Control Systems, by R. E. Perham	AD A200 454

**Repair, Evaluation, Maintenance, and Rehabilitation
Research Program Technical Reports**

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
Hydraulics (Cont.)			
TR REMR-HY-4	Mar 1989	Effects of Geometry on the Kinetic Energy of a Towboat and Barges in a Navigation Lock, by S. K. Martin	AD A207 057
TR REMR-HY-5	Mar 1989	Explicit Numerical Algorithm for Modeling Incompressible Approach Flow, by R. S. Bernard	AD A207 176
TR REMR-HY-6	Oct 1989	Inventory of River Training Structures in Shallow-Draft Waterways, by D. L. Derrick, H. W. Gernand, and J. P. Crutchfield	AD A214 566
TR REMR-HY-7	Sep 1990	Lock Accident Study, by S. K. Martin and M. E. Lipinski	AD A228 627
TR REMR-HY-8	Apr 1991	Shallow-Draft Training Structures Current Repair Practices and Repair Guidelines, by D. L. Derrick	AD A239 045
TR REMR-HY-10	Apr 1993	Icing Problems at Corps Projects, by F. D. Haynes, Robert Haehnel, and Leonard Zabilansky	AD A266 343
Operations Management			
TR REMR-OM-4	May 1989	A Rating System for the Concrete in Navigation Lock Monoliths, by R. E. Bullock	AD A208 304
TR REMR-OM-8	Dec 1990	REMR Management Systems--Navigation Structures; Management System for Miter Lock Gates, by Lowell Greimann, James Stecker, and Kevin Rens	AD A231 469
TR REMR-OM-9	Dec 1990	Maintenance and Repair of Steel Pile Structures, by Lowell Greimann and James Stecker	AD A231 916

Repair, Evaluation, Maintenance, and Rehabilitation Research Program Video Reports

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Concrete and Steel Structures	
VR REMR-CS-1	Dec 1986	Remedial Waterstop Installation at Pine Flat Dam, by J. E. McDonald	
VR REMR-CS-2	Apr 1988	A Precast Concrete Stay-in-Place Forming System for Lock Wall Rehabilitation, by J. E. McDonald	
VR REMR-CS-3	Jan 1989	Antiwashout Admixtures for Use in Underwater Concrete Placement, by B. D. Neeley	
		Geotechnical	
VR REMR-GT-1	Jun 1986	Computer Monitoring of Foundation Grouting	
		Hydraulics	
VR REMR-HY-1	Oct 1987	Excessive Scour Downstream of High-Level Emergency Spillways, by T. L. Kirkpatrick, Jr., B. P. Fletcher, and N. R. Oswalt	

WES Laboratory History Series

<u>Volume</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
1	Sep 1991	History of the Coastal Engineering Research Center, 1963-1983	

Potamology Investigations

Potamology Investigations

Potamology Program (P-1)

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
1		Characterization of the Suspended-Sediment Regime and Bed-Material Gradation of the Mississippi River Basin, by M. P. Keown, E. A. Dardeau, Jr., and E. M. Causey:	
	Aug 1981	Volume I Main Test and Appendixes A-C	AD A111 236
	Aug 1981	Volume II Appendixes D-G	AD A111 263
2	Sep 1982	Phase I Investigation of Neotectonic Activity within the Lower Mississippi Valley Division, by S. A. Schumm, C. C. Watson, and A. W. Burnett	AD A121 574
3	Dec 1982	Channel Stabilization Study, by Rick Wells	AD A124 515
4	Dec 1982	Analysis of Major Parameters Affecting the Behavior of the Mississippi River, by J. R. Tuttle and William Pinner	AD A124 463
5	Jul 1990	Downward Trend in Mississippi River Suspended-Sediment Loads, by E. A. Dardeau, Jr., and E. M. Causey	AD A229 813
6	Oct 1990	Impact of Changes in Suspended-Sediment Loads on the Regime of Alluvial Rivers, by D. S. Mueller and E. A. Dardeau, Jr.	AD A231 587
7	Sep 1992	Particle Size Distribution of Bed Sediments Along the Thalweg of the Mississippi River, Cairo, Illinois, to Head of Passes, September 1989, by C. F. Nordin and B. S. Queen	AD A258 784

**Reports Prepared or Published and
Distributed by U.S. Army Engineer
Waterways Experiment Station For
Other Agencies**

Reports Prepared or Published and Distributed by U.S. Army Engineer Waterways Experiment Station For Other Agencies

Reports Prepared or Published and Distributed by U.S. Army Engineer Waterways Experiment Station For Other Agencies

Volume	Date	Title	AD Number
		Air Base Survivability Systems Management Office Headquarters, Armament Division (AFSC), AD/YQ, Eglin AFB, FL	
Unnumbered*	Oct 1984	Air Base Camouflage Techniques, by L. E. Link, J. O. Curtis, and Donald Willhouse	AD B090 312L
		Airport Operators Council International and Federal Aviation Administration, Washington, D. C.	
Unnumbered	Dec 1985	Airport System Long-Range Research and Develop- ment Plan	
		U.S. Army Corps of Engineers National Flood Proofing Committee, Washington, D. C.	
Unnumbered	Aug 1988	Test of Materials and Systems for Flood Proofing Structures, by C. E. Pace	AD A209 380
		U.S. Naval Facilities Engineering Command, Alexandria, VA	
NAVFAC MO-102.6	1989	Asphalt Crack Repair: Field Manual (Draft), by L. N. Lynch	
		U.S. Army Toxic and Hazardous Material Agency, Aberdeen Proving Ground, MD	
Unnumbered	Jul 1989	Commanders Guide to Environmental Compliance, by M. E. Resch	
		U.S. Corps of Engineers, U.S. Bureau of Reclamation, Tennessee Valley Authority, and Bonneville Power Administration	
Unnumbered	1988	Report of Fifteenth Interagency Research Coordina- tion Conference, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi, 3-5 November 1987	AD A211 399

* For Official Use Only.

Reports Prepared for Other Agencies

<u>Number</u>	<u>Date</u>	<u>Title</u>	<u>AD Number</u>
		Tennessee Valley Authority, U.S. Army Corps of Engineers Waterways Experiment Station, and U.S. Army Engineer District, Nashville	
Unnumbered	Apr 1991	Joint Agency Plan, Aquatic Plant Management on Guntersville Reservoir, by A. L. Bates, J. L. Decell, and C. T. Swor	AD A238 880
		U.S. Army Corps of Engineers, U.S. Bureau of Reclamation, U.S. Federal Highway Administration, U.S. Environmental Protection Agency, and U.S. Soil Conservation Service	
Unnumbered	Aug 1991	Proceedings; Soil Stabilization Technology Exchange Workshop, 7-8 November 1989, Denver, Colorado	

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE September 1993	3. REPORT TYPE AND DATES COVERED Final report	
4. TITLE AND SUBTITLE List of Publications of the U.S. Army Engineer Waterways Experiment Station; Volume II			5. FUNDING NUMBERS	
6. AUTHOR(S) Compiled by Research Laboratory, Information Management Division				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Army Engineer Waterways Experiment Station Information Technology Laboratory 3909 Halls Ferry Road, Vicksburg, MS 39180-6199			8. PERFORMING ORGANIZATION REPORT NUMBER Miscellaneous Paper ITL-93-1	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES Available from National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Publications issued through June 1993 by the U.S. Army Engineer Waterways Experiment Station (WES) are listed. The publications are grouped according to the technical laboratories or technical support element that prepared them. The general types of WES publications currently issued are Instruction Reports, Miscellaneous Papers, Contract Reports, and Technical Reports. Procedures for obtaining WES publications are included in the Preface.				
14. SUBJECT TERMS Hydraulic engineering—bibliography Military engineering—bibliography U.S. Army Engineer Waterways Experiment Station—bibliography United States. Army. Corps of Engineers—civil functions—bibliography			15. NUMBER OF PAGES 525	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT	