

Index of DAMOS Contributions

Disposal Area Monitoring System DAMOS

December 1990



**US Army Corps
of Engineers
New England Division**

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**US Army Corps
of Engineers
New England Division**

PREFACE

The Disposal Area Monitoring System (DAMOS) was begun by the New England Division (NED) of the U.S. Army Corps of Engineers in 1977 to perform monitoring studies that would permit management of dredged material disposal effects. The results of these studies are presented in a series of DAMOS contributions and include information on dredged material disposal and its physical, chemical, and biological impacts on the environment. This series of reports began with the first Annual Report prepared in 1978 by the Naval Undersea Systems Center (NUSC). In 1979, after the second Annual Report was prepared, Science Applications, Inc. (now known as Science Applications International Corporation or SAIC) continued the work begun at NUSC and has produced all subsequent contributions. Because of the large volume of work performed over the last ten years and the multidisciplinary nature of that work, the need for a comprehensive index of these contributions became evident. It is hoped that this index will facilitate the location of information of interest to the reader and, therefore, encourage its broad dissemination.

This document contains the index of each individual contribution prepared under DAMOS. In addition, a MASTER INDEX has been prepared that allows the reader to quickly locate the appropriate contributions containing information on the selected topic. The page numbers in the MASTER INDEX refer to the pages of the individual indices containing the selected topic while the page numbers in the individual indices refer to the pages in that contribution containing the selected topic.

All contributions have been listed in the Table of Contents for completeness; however, some contributions were not indexed for the reasons indicated. This index will be updated periodically. A companion volume contains the indices for the SR-series of reports produced in the 1970's prior to DAMOS.

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ROCKLAND DISPOSAL SITE, MAY 1985

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DISPOSAL SITE MONITORING PROJECT 1985

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 difference 4
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CONTRIBUTION #66
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 Organism-Sediment Index (OSI) 7, 13, 15
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magnesium (Mg) 7, 13, 15
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CONTRIBUTION #67
MONITORING CRUISE AT THE CAPE ARUNDEL
DISPOSAL SITE, OCTOBER 1987.

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buoy 1-6
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CTD meter 2
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density 1
disposal site
 Cape Arundel (CADS) 1-7
 New London 6
dredging
 clamshell 7
interstitial water 4
REMOTS 1-6
resuspension 5
salinity 2
scow logs 1, 3-5
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 resuspension 5
 sand 1, 3-5
 silt 1, 3, 5
shore station 2
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 bathymetry 1-6
 sidescan 1
 sub-bottom 6
temperature 2
tide 2
topography 1, 5, 6
trough 1, 2, 5, 6
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CONTRIBUTION #68
MONITORING CRUISE AT THE CENTRAL LONG ISLAND SOUND
DISPOSAL SITE, AUGUST-SEPTEMBER 1987.

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 bivalve 11, 20
 Nephtys sp. 2, 4, 13, 19, 20, 23
 Pitar sp. 20
 polychaete 2, 4, 5, 13
bioaccumulation 19, 20
biomass 5
bioturbation 17
body burden 2, 4, 5, 13, 19, 20
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Central Long Island Sound (CLIS) 1-9, 12-23
 Capsite-1 (CS-1) 1, 6
 Capsite-2 (CS-2) 1, 6, 7, 15, 16, 22
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 FVP 1, 3-5, 9, 10, 12-16, 19, 20, 22
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 New Haven-83 (NH-83) 2-5, 10-12, 14, 16, 17, 21, 22
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colonization 12, 16, 17
conductivity 5, 6
contaminant 1, 2, 4, 18-20, 23
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density 14, 15, 20, 23
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CONTRIBUTION #68
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 CLIS-REF 4, 5, 14, 15, 20
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magnesium (Mg) 14
mercury (Hg) 4, 5, 12, 13, 18, 23
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estimate 15
waste 24
winnowing 9

CONTRIBUTION #70
BATHYMETRY SURVEY AT THE CORNFIELD
SHOAL DISPOSAL SITE, JULY 1987

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containment 3
convective descent 3
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sediment
 clay 1
 gravel 1, 3
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shore station 2
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waves 1

CONTRIBUTION #74
MONITORING CRUISE AT THE WESTERN LONG
ISLAND SOUND DISPOSAL SITE, NOVEMBER 1987.

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 Nephtys sp. 1, 4, 9, 15, 17
 polychaete 1, 4, 7, 9, 15, 17
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biomass 4
bioturbation 11
 foraging 7
body burden 1, 4, 5, 9, 15, 16
 bioaccumulation 15
boundary roughness 6
buoy 1, 5, 10, 16
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Central Long Island Sound (CLIS) 14, 15
 FVP 15
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Field Verification Program (FVP) 18
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habitat 2, 7, 11, 12, 16
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New England River Basin Classification (NERBC) 1, 9, 14, 18
nutrients
 nitrogen 19
organics
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 total organic carbon 4, 9
recolonization 3
reference station 1, 3, 4, 6-9, 11-15, 17
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Organism-Sediment Index (OSI) 7, 11, 12, 16
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CONTRIBUTION #74
(Continued)

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shore station 2
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 copper (Cu) 4, 9, 15-17
 iron (Fe) 4, 9, 14-17
 lead (Pb) 1, 4, 17
 magnesium (Mg) 8, 12, 13
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waste 19

CONTRIBUTION #75
ANALYSIS OF SEDIMENT CHEMISTRY AND BODY BURDEN
DATA OBTAINED AT THE MASSACHUSETTS BAY DISPOSAL SITE,
OCTOBER 1987

atomic absorption spectrophotometry 2
benthos

lobster 7

Nephtys sp. 1, 2, 4, 7

polychaete 1, 2, 4

biomass 2

body burden 1, 2, 4, 6, 7

buoy 4, 5

disposal 4, 5

contaminant 1, 3, 4, 6

disposal site

Foul Area (FADS) 1-4, 6, 7

New London 7

New England River Basin Classification (NERBC) 3

organics

polyaromatic hydrocarbon (PAH) 2-4, 6

polychlorinated biphenyl (PCB) 2-4

total organic carbon 2

REMOTS 5, 6

sediment

chemistry 1, 4, 6

sand 4, 5

silt 4

sediment sampling 1

cores 1-3, 7

grabs 2, 4

shore station 2

spectrophotometry

atomic absorption 2

statistical testing 3-6

ANOVA 3, 4

Kruskal-Wallis Test 3

survey

baseline 1, 7

temperature 2

trace metals 2, 5

arsenic (As) 2, 3, 7

cadmium (Cd) 2-4, 6

chromium (Cr) 2, 3

copper (Cu) 2-6

iron (Fe) 2, 4

lead (Pb) 5, 6

mercury (Hg) 2-6

nickel (Ni) 2, 3

zinc (Zn) 2-7

waste 7

CONTRIBUTION #76
MONITORING CRUISE AT THE WESTERN LONG
ISLAND SOUND DISPOSAL SITE, JULY 1988

benthos 1, 2, 5, 8-11
 bivalve 5
 polychaete 5
bioturbation
 foraging 5
buoy 1, 4, 7, 10
 disposal 1, 4, 7
Central Long Island Sound (CLIS) 9, 11
 Norwalk (NOR) 2
colonization 10
conductivity 3
CTD meter 2, 3, 6, 9
density 6
 sigma-t 6
disposal site
 Central Long Island Sound (CLIS) 9, 11
 Eatons Neck 1
 New London 9, 11
 Western Long Island Sound (WLIS) 1, 2, 4, 5, 7-11
dissolved oxygen 1, 3, 6, 9-11
dredging
 clamshell 12
erosion 5
fish 12
grain size 4
habitat 5, 8-10
hurricane 10, 11
hypoxia 5, 8-11
interstitial water 7
nutrients
 nitrogen 12
recolonization 2
reference station 2, 4-6, 8-10
REMOTS 1-11
 Organism-Sediment Index (OSI) 5, 6, 8, 10
 redox potential discontinuity (RPD) 4-6, 8-10
salinity 1-3, 6, 9, 11
scow logs 1, 4, 7
sediment
 clay 4
 sand 4
 silt 4
shore station 2
sigma-t 6
statistical testing
 Mann-Whitney U-test 5, 6
succession
 seres 5
successional stage 8

CONTRIBUTION #76
(Continued)

survey

bathymetry 1-4, 7, 8, 10

post-disposal 7

REMOTS 11

temperature 1-3, 6, 9

thermocline 6

tide 2

topography 1, 7

trace metals

lead (Pb) 3, 8

magnesium (Mg) 6

volume

estimate 7

CONTRIBUTION #72
MONITORING CRUISE AT THE CENTRAL
LONG ISLAND SOUND DISPOSAL SITE, JULY 1988

aerobic 9, 11
benthos 1, 2, 5, 8-12
bioturbation
 foraging 5
boundary roughness 4
buoy 1-7, 10, 11
 disposal 1, 2, 4, 6
Central Long Island Sound (CLIS) 1-4, 6, 8-12
 Capsite-1 (CS-1) 3, 4
 Capsite-2 (CS-4)
 CLIS-86 2-4, 6, 9, 10
colonization 9
CTD meter 2, 3, 6, 9
density 6
 sigma-t 6
deposition 4
disposal site
 Central Long Island Sound (CLIS) 1-4, 6, 8-12
 New London 8, 11, 12
 Western Long Island Sound (WLIS) 8, 10
dissolved oxygen 1, 3, 6, 9-12
dredging
 clamshell 12
erosion 5
fish 12
grain size 4
habitat 5, 9.
hypoxia 5, 10, 11
interstitial water 7, 11
recolonization 2
reference station 1, 2, 4-6, 8, 10, 11
 CLIS-REF 2, 8
REMOTS 1-8, 10-12
 boundary roughness 4
 Organism-Sediment Index (OSI) 5, 8, 9, 11
 redox potential discontinuity (RPD) 4, 5, 8, 9, 11
salinity 1-3, 6
scow logs 3, 7, 8, 11
sediment
 clay 4
 sand 4
 silt 4
sediment oxygen demand (SOD) 8
shore station 2
sigma-t 6
statistical testing
 Mann-Whitney U-test 4, 5
stratigraphy 4
successional stage 5

CONTRIBUTION #72
(Continued)

survey

bathymetry 1-3, 6-8, 10, 11
post-disposal 1

temperature 1-3, 6

thermocline 6

tide 2

topography 1, 6

trace metals

magnesium (Mg) 6, 9

volume

difference 7

estimate 7, 8, 11

CONTRIBUTION #71
CAPPING SURVEY AT THE NEW LONDON
DISPOSAL SITE, FEBRUARY 3, 1989

buoy 1, 2, 4, 5
disposal 1, 5
capping 1-5
CTD meter 2
deposition 2-4
disposal site
 New London 1, 3, 5
REMOTS 1, 4, 5
salinity 2
scow logs 3
shore station 1
survey
 bathymetry 1-5
 post-disposal 2, 4
temperature 2
tide 2
topography 2, 3

CONTRIBUTION #77
MONITORING CRUISE AT THE NEW LONDON
DISPOSAL SITE, AUGUST, 1988

aerobic 12, 14
benthos 1, 2, 6, 7, 10-15
 ampeliscids 15
 amphipod 5, 10, 11, 14, 15
bioturbation
 feeding void 5
 foraging 6, 12, 14
boundary roughness 5, 6
buoy 1-6, 8, 9, 12, 13
 disposal 1-5, 8
colonization 11, 12, 14
CTD meter 2, 3, 7, 12, 13
currents 10
 meter 14
density 7, 8, 12
 sigma-t 7
deposition 13
disposal site
 New London 1-4, 8, 10, 11, 13, 15
dissolved oxygen 1, 3, 7, 8, 12-15
dredging
 clamshell 15
erosion 6, 10, 14
feeding void 5
fish 14, 15
grain size 5, 10
habitat 6, 11, 12
hydroids 5
hypoxia 6, 13, 14
interstitial water 9, 13
recolonization 2
reference station 1, 5-8, 10-12, 14
REMOTS 1-11, 13-15
 boundary roughness 5, 6
 Organism-Sediment Index (OSI) 6, 7
 redox potential discontinuity (RPD) 6, 7, 10, 11, 14
salinity 1-3, 7, 8, 12
scow logs 1, 4, 9-11, 13
sediment
 clay 5
 sand 5, 10
 silt 5
sediment oxygen demand (SOD) 11
shore station 2
sigma-t 7
statistical testing 6
 Mann-Whitney U-test 6, 7
stratigraphy 4, 5
successional stage 6, 7, 12, 14

**CONTRIBUTION #77
(Continued)**

survey

bathymetry 1-4, 8, 9, 13
temperature 1-3, 7, 8, 12
thermocline 8, 12
tide 2
topography 1, 8
trace metals
 magnesium (Mg) 7, 8, 12, 13
trawling 12, 14
volume
 difference 4
 estimate 9, 10, 13
winnowing 10

CONTRIBUTION #73
MONITORING CRUISE AT THE MASSACHUSETTS BAY
DISPOSAL SITE, NOVEMBER 1988 - JANUARY 1989.

benthos 1, 2, 5, 6, 8, 9
 polychaete 6
bioturbation
 feeding void 6
boundary roughness 4, 5, 7
buoy 1-6, 8, 9
 disposal 1, 3-6
CTD meter 2
disposal site
 Foul Area (FADS) 1-3, 5, 7, 8
 New London 9
dredging
 clamshell 9
entrainment 7
feeding void 6
grain size 4
interstitial water 7
recolonization 1, 2, 8
reference station 1, 3-9
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