EPA 4-71-0086

903979008B

ESTUARINE RESPONSE TO NUTRIENT ENRICHMENT, A COUNTERPART OF EUTROPHICATION:

AN ANNOTATED BIBLIOGRAPHY INDEX

K. L. WEBB
D. M. HAYWARD
J. M. BAKER
B. MURRAY

VIRGINIA INSTITUTE OF MARINE SCIENCE
AND
SCHOOL OF MARINE SCIENCE
COLLEGE OF WILLIAM AND MARY
GLOUCESTER POINT, VA 23062

Region III Library
Environmental Protection Agency

U.S. Environmental Protection Agency
Region III Information Resource
Center (3PM52)
841 Chestnut Street
Philadelphia, PA 19107

Virginia Institute of Marine Science
School of Marine Science
College of William and Mary

The John Hopkins University
University of Maryland

Smithsonian Institution
Virginia Institute of Marine Science

EPA Report Collection
Information Resource Center
US EPA Region 3
Philadelphia, PA 19107

ESTUARINE RESPONSE TO NUTRIENT ENRICHMENT, A COUNTERPART OF EUTROPHICATION:

AN ANNOTATED BIBLIOGRAPHY INDEX

K. L. WEBB
D. M. HAYWARD
J. M. BAKER
B. MURRAY

VIRGINIA INSTITUTE OF MARINE SCIENCE
AND
SCHOOL OF MARINE SCIENCE
COLLEGE OF WILLIAM AND MARY
GLOUCESTER POINT, VA 23062

U.S. Environmental Protection Agency
Region III Information Resource
Center (3PM52)
841 Chestnut Street
Philadelphia, PA 19107

THIS RESEARCH WAS SUPPORTED BY
GRANT NUMBER: R 806 189 010
FROM THE
US ENVIRONMENTAL PROTECTION AGENCY
TO THE
CHESAPEAKE RESEARCH CONSORTIUM, INC.
1419 FOREST DRIVE, SUITE 207
ANNAPOLIS, MD 21403

MAY 1979

CRC PUBLICATION NUMBER: 67
SPECIAL SCIENTIFIC REPORT NUMBER: 94
VIRGINIA INSTITUTE OF MARINE SCIENCE

This index is a cross referenced listing of the descriptors relevant to each citation. Each descriptor is listed, followed by all other descriptors which occur with it in any citation. Because of the exhaustive nature of this form of indexing, descriptors were not included with the citations.

The numbers accompanying the listings refer to citation numbers.

INDEX

Aberdeen
- Bay 453
- chlorophyll 453
- C14 453
- Fladen Ground 453
- North 453
- POC 453
- primary 453
- processes 453
- productivity 453
- Sea 453
- seasons 453

abundance
- Albemarle 43
- algae 120
- alkalinity 383
- ammonia 43
- ammonium 113
- Anchoa mitchilli 32
- annelids 167
- assay 383
- Bay 32 389 499
- benthic 120 389
- Bight 113
- biomass 32 167
- carbon 499
- chlorophyll 43 113
- cycles 499
- distribution 113 383
- diversity 32 120 167 389 472
- DO 389
- Estuary 167 389
- fauna 167 389
- fish 32
- freshwater 113
- Galveston 32
- gastrotrichs 167
- Great Britian 120 167
- Hobsons 389
- hydrology 43
- indicator species 32 383 472
- indices 32
- invertebrates 383
- Lake 383
- land development 43
- Lebanon 472
- long term 120
- Malpeque 499
- microbes 167 499
- nematodes 167
- New Jersey 113
- New York 113
- nitrate 113
- nitrite 113
- nitrogen 43 499
- North Carolina 43
- nutrients 383 472
- oligochaetes 167
- oysters 499
- pH 383
- phosphate 113
- phosphorus 43 499
- phytoplankton 43 113 472
- plankton 383
- polychaetes 167
- Pontchartrain 383
- primary 43 383
- productivity 43 383 499
- reproduction 120
- Rockaway Point 113
- runoff 383
- salinity 43 113 383 389
- seasons 120
- sewage 167 472
- silica 113
- Sound 43
- suspended solids 113
- Tees 167
- temperature 43 113
- Texas 32
- Theora fragilis 389
- toxicity 32
- turbidity 43
- wastes 32 120
- Yarra 389

Acartia
- Balanus 227
- Bay 227
- bloom 227
- Estuary 227
- Eurytemora 227
- latitudinal gradients 227
- Narragansett 227
- New Jersey 227
- nutrients 227
- organic matter 227
- phytoplankton 227
- Raritan 227
- Rhode Island 227
- salinity 227

seasons 227
Virginia 227
wastes 227
York 227
zooplankton 227
acetylene
ammonia 444
cannery 25
denitrification 444
Inlet 25
intertidal 25
Klebsiella pneumoniae 25
New Zealand 25
nitrate 444
nitrogen fixation 25
nutrients 25
reduction 444
sediments 25 444
sewage 25
slaughterhouse 25
Waimea 25
wastes 25
acid extraction
ATP 206
charcoal adsorption 206
methods 206
sediments 206
tris extraction 206
Actinetobacter
bacteria 431
Bay 431
heterotrophic 431
nutrients 431
phytoplankton 431
Sagami 431
Suruga 431
Tokyo 431
Vibrios 431
zooplankton 431
activated sludge
denitrification 514
nitrification 514
respiration 514
adsorption
clay 259
nutrients 259
organic 259
pH 259
phosphate 259
phosphorus 259
salinity 259
sediment water 259
sewage 259
temperature 259
uptake rates 259
Virginia 259
advection
Bay 42
Chesapeake 42
Coriolis 42
hydrology 42
model 42
two dimensional 42
aerobic
algae 537
ammonium 172
anaerobic 58 172
assay 58
ATP 172
Bight 172
biomass 537
bloom 537
calorific content 172
coliforms 122 183
Connecticut 58
Copps Brook 58
CO2 537
cycles 183
C14 537
decomposition 172
degradation 58
density 537
detritus 537
DIC 172
DOC 58 172
Estuary 183
hydrology 183
interstitial 58
macrophytes 537
management 183
metabolism 58
microbes 58 122 183 537
model 58 183
New York 172
nitrate 172
nitrite 172
nitrogen 183
nutrients 58
organic matter 58
PC 172

plankton 122
PN 172
POC 58
Potomac 183
predictions 183
processes 183
real time 183
red tide 122
sediments 58 537
sewage 122 172
tetrazolium salt 58
tides 183
Transient Water Quality Network 183
turnover rates 537
uptake rates 537
Vm 537
water column 537
watersheds 58

agencies
Bay 18 61
Chesapeake 18
dredging 14
fauna 18
flora 18
Florida 14
local 14 61 159
management 61 159
methods 18
participation 61
public opinion 61 159
resources 159
San Francisco 61
sewage 14
state 14 159
wetlands 14

Agnes
Bay 415 421
Chesapeake 415 421
chlorophyll 415
Estuary 415
Hurricane 415 421
Michaelis Menton 415
model 415
nitrogen 415
phosphorus 415
phytoplankton 415
POM 421
quasi linear 415
sediments 421
sewage 421
soil erosion 421
suspended solids 421
Susquehanna 415
wastes 415

agriculture
algae bluegreen 218
algae mats 60
Australia 60
canal 384
Dniester 384
Estuary 218 384
fauna 384
fertilizer 282 517
flood control 517
flushing 218
Hudson 218
hydrology 517
industry 384 517
Lagoon 60
land development 517
nitrate 218
North Carolina 517
nutrients 26 218 282 517
Orielton 60
pesticides 517
phosphate 218
point sources 218
Potomac 218
recreation 517
resources 517
runoff 26 60
salinity 60
sewage 60 218 384
Tasmania 60
temperature 60
wastes 218 282 384
watersheds 517
wetlands 26
zooplankton 384

agrochemicals
alkalinity 455
Bay 455
boat traffic 455
Chesapeake 455
chlorine 455
disease 455
dredging 455
epiphytes 455
fauna 455

nutrients 455
oil 455
pH 455
salinity 455
specie key 455
submerged vegetation 455
temperature 455
trace metals 455
turbidity 455
water velocity 455
Aisne
carbon 35
Estuary 35
France 35
methods 35
nitrogen 35
oxidation rates 35
Seine 35
temperature 35
Alabama
Bay 132
hydrology 132
interface salt fresh 132
Mobile 132
model 132
momentum transfer 132
sediments 132
three dimensional 132
time dependent 132
transport 132
Alaska
arctic 319
benthic 319
BOD 320
Colville 7
Cook 319 320
DO 319
Estuary 7
fisheries 7
hydrology 7
Inlet 319 320
microbes 319
nitrogen 319
nutrients 7
organisms 319
pH 319
phosphorus 319
plankton 319
primary 7
productivity 7
resources 7
salinity 319
sewage 319 320
silica 319
temperature 320
Albemarle
abundance 43
ammonia 43 450
bloom 450
C/N 450
chlorophyll 43
Chowan 450
DIN 450
DON 450
Estuary 450
hydrology 43
land development 43
nitrogen 43
North Carolina 43 450
phosphorus 43
phytoplankton 43 450
primary 43 450
productivity 43 450
salinity 43
seasons 450
Sound 43 450
temperature 43
turbidity 43
algae
abundance 120
aerobic 537
ammonia 430
Anabaena 312
animals 89
aquaculture 412
assay 351 418 448 496 497
bacteria 256 339
batch culture 418
Bay 72 133 140 448
benthic 72 87 119 120 248 400 438
biomass 133 140 160 339 537
birds 256 339 443
bloom 432 537
calcium 339
California 400
carbon 256 312 339
Chesapeake 72 133 140
Chlorella 312
chlorophyll 140

Chlorophyta 430
Clyde 443
COD 442
Codium 497
community structure 89 256
continuous culture 160
CO2 312 432 537
crustaceans 256 339
Cyanophyta 430
C14 140 537
density 537
detritus 537
diversity 120
DO 72 81 216
Dunaliella 496
energy transfer 72
Enteromorpha 497
Estuary 81 87 89 119 133 216 430 443
fauna 87
feeding grounds 443
fish 256 339
foraminifera 72 256 339
Great Britian 119 120
growth rates 236 312
Harbor 400
heat 89
heterotrophic 256 339
hydrology 87 448
indicator species 400
industry 119 442
insects 256 339
intertidal 443
invertebrates 443
land development 216
life cycles 248
light 448
long term 120
Los Angeles 400
Louisiana 442
macrofauna 72
macrophytes 72 537
marshes 339 442
Maryland 430
meiofauna 256 339
metabolism 256
methods 351 418
microbes 72 133 216 343 442 537
microcosms 140
Microcystis 312
mining 87
model 438
molluscs 256 339
N/P 160
nitrogen 87 160 256 339
North Carolina 89
Norway 236
nutrients 72 89 160 216 236 343 442 448 496 497
oil 400
oligochaetes 400
Oregon 448
orthophosphate 133
Oslofjord 248
oysters 412
Pamlico 87
pH 432
phosphate 430
phosphorus 87 236 256 339 432
phytoplankton 72 87 256 339
polychaetes 400
pond experiment 89 256 339
Potomac 81 216 430
primary 140 236 343
productivity 89 140 256 339 343
reproduction 120
resources 216
respiration 89 343
Rhode 133
runoff 216 442
seagrass 438
seasons 89 120 248 448
secondary 236 343 430
sediments 537
sewage 72 89 119 140 160 236 256 339 343 400 412 418 430 432 442 448
South Creek 89
spatial distribution 248
Tees 119
temperature 89 448
temporal distribution 248
tertiary 236 339
Texas 438
tides 81
TOC 442
trace metals 72 216 438
turnover rates 537
Tyne 119
uptake rates 133 537

viruses 216
Vm 537
wastes 81 119 120 216 400 442
water column 537
Wear 119
Yaquina 448
zooplankton 72 87 140
algae bluegreen
agriculture 218
algae mats 243
ammonia 247
bacteria 243
Baltic 335
Bay 243
benthic 335
biomass 66 247 533
bloom 533
British Columbia 247
chlorophyll 215
Chowan 533
Cyanophyta 254
cycles 247
detergent 335
diversity 533
DO 335
energy transfer 335
Estuary 66 215 218 533
fish 335
fish kills 254
flushing 218
Guayanilla 243
heterotrophic 243
hosts 254
Hudson 218
indicator species 254 335
macroalgae 335
macrophytes 247
management 215
microbes 247 254 533
mining 66
model 335
nitrate 218
nitrogen 66 247
nitrogen fixation 243
North Carolina 533
nutrients 215 218
organisms 335
Pamlico 66
phosphate 218 247
phosphorus 66 247 533
phytoplankton 66 533
point sources 218
pool experiment 66
Potomac 215 218
primary 335
productivity 335
Puerto Rico 243
Schizothrix calicola 254
Sea 335
sediments 243 247
sewage 215 218 335
symposium 335
thermal 243
uptake rates 533
viruses 254
wastes 66 218
zooplankton 335
algae colonial
C14 152
methods 152
mucus 152
primary 152
productivity 152
silica 152
algae mats
agriculture 60
algae bluegreen 243
Australia 60
bacteria 243
Bay 243
benthic 33
benthic oxygen demand 33
Columbia 357
Estuary 33 130 357
Guayanilla 243
heterotrophic 243
indicator species 357
Ireland 130
Lagoon 60
model 33
mud flats 130
nitrogen fixation 243
nutrients 130
Oregon 33
organic 130
Orielton 60
Puerto Rico 243
Rogerstown 130
runoff 60
salinity 33 60

sediments 33 243
sewage 60
specie key 357
sulfide 33
Tasmania 60
temperature 60
thermal 243
tides 33
wastes 130
Yaquina 33
alkaline phosphatase
ammonium 482
Bay 468 470
C/N 482
carbon 482
Chesapeake 468
chlorophyll 470 482
distribution 470
diurnal 482
DNA 470
enzymes 470
indices 470
Ks 468 482
microbes 142 470
nitrate 482
nitrogen 482
nutrients 142
Olisthodiscus luteus 482
pH 142
phosphate 142
phosphomonoester 468
phosphorus 468 470 482
phytoplankton 468
protein 470
seasons 142
seston 470
sewage 142
Tokyo 470
uptake rates 482
Vm 468
alkalinity
abundance 383
agrochemicals 455
ammonia 67 184 293
assay 383
Bay 67 184 293 380 455
boat traffic 455
Chesapeake 67 184 293 380 455
chloride 293
chlorine 184 455
chlorophyll 47 67 184
coliforms 380
DC 380
disease 455
distribution 293 383
DO 47 67 184 380
dredging 455
epiphytes 455
Estuary 47 67 380
fauna 455
indicator species 383
industry 380
interstitial 293
invertebrates 383
iron 293
James 47 380
Lake 383
manganese 293
marshes 149
Maryland 380
nitrate 67 380
nitrite 67
nitrogen 67
NO2 47
NO3 47
nutrients 149 380 383 455
oil 455
orthophosphate 184
Patuxent 380
pesticides 380
pH 47 67 184 293 380 383 455
phosphate 67 184 293 380
phosphorus 47 149
phytoplankton 47 67
plankton 383
PN 47
Pontchartrain 383
Potomac 67 380
primary 383
processes 184
productivity 67 383
Rappahannock 380
redox potential 293
runoff 383
salinity 47 67 184 383 455
seasons 293
sediments 149 380
sewage 380
silica 149 293
South Carolina 149

specie key 455
submerged vegetation 455
sulfate 184 293
sulfide 184
Susquehanna 380
temperature 47 67 184 455
trace metals 149 184 380 455
turbidity 67 455
vertical distribution 184
Virginia 380
wastes 380
water velocity 455
watersheds 380
York 380
zooplankton 67
alpha fluorescence
chlorophyll 329
phytoplankton 329
remote sensing 329
amino acids
ammonia 49
bacteria 456
bacteria proteolytic 456
benthic 528
carbohydrates 225 456
clams 225
conference 528
cycles 528
C14 456
detritus 528
fauna 456
fish 528
fisheries 528
fungus 456
glycine 225
heterotrophic 456
indices 456
invertebrates 528
management 528
Mercenaria 225
methods 456
microbes 456 528
nitrogen 528
nitrogen fixation 49
nutrients 528
oil 225 456 528
organisms 528
pesticides 528
phosphorus 49 528
phytoplankton 456
primary 49
processes 456
productivity 49
pulp mill 456
salinity 456
seagrass 528
sediments 49
sewage 225 456
silica 528
stress 225 528
symposium 456
taurine 225
thermal 456
trace metals 456 528
urea 528
wetlands 528
zooplankton 528
ammonia
abundance 43
acetylene 444
Albemarle 43 450
algae 430
algae bluegreen 247
alkalinity 67 184 293
amino acids 49
animals 518
Australia 388
Bay 67 178 184 190 293 387 388 466 473
Bayou 314
benthic 5 178 388
biomass 62 203 247 466
bloom 204 450 520
BOD 311 477 487
British Columbia 247
C/N 62 450
California 62 477
carbon 387 473
carbon/chlorophyll 62
CBOD 407
chambers 178
Chesapeake 67 184 293 473
Chlorella salina 69
chloride 293
chlorine 184
chlorophyll 43 67 184 289 407 473 481
Chlorophyta 430
Chowan 450
COD 289

coliforms 407
Cyanophyta 430
cycles 247 477
Delaware 477
Delta 477
denitrification 157 190 444
diatoms 5
DIC 473
DIN 450 477
distribution 50 293
diurnal 62
DO 29 67 184 311 314 387 407 477 518
DOC 311 473
DON 176 177 311 450 466
DPO 466
Duwamish 481 520
enzymes 165
Estuary 29 50 67 203 204 289 407 430 450 477 481 518 520
eutrophic 157
exchange diffusion 123
excretion rates 466
fauna 388
fertilizer 204 273
fish 44
Florida 314
flux 178 387
freshwater 204
Georgia 176 177
Hawaii 466
hydrology 43 520
indicator species 481
inorganic 178 203 407
interface salt fresh 311
interstitial 293
ion exchange 273
iron 293
Japan 190
Kaneohe 466
Ks 62
laboratory culture 5
land development 43
macroinvertebrates 314
macrophytes 157 247
manganese 293
Mangoku 190
marshes 177
Maryland 430
metabolism 466
methods 123 165 180
microbes 203 247 487
microcosms 387
mining 203
model 29 157 407 477
Narragansett 178 387
Neuse 204
nitrate 5 50 67 69 123 157 176 177 178 203 204 314 407 444 473 481 487
nitrification 157 487
nitrite 5 50 67 176 177 178 311 407 473 477 481 487
Nitrobacter 487
nitrogen 29 43 50 62 67 157 247 387 407 477
nitrogen fixation 49
Nitrosomona 487
North Carolina 43 203 204 450
nutrients 50 62 203 289 387 388 473 518
N15 62 190
one dimensional 407
organic 50 157 407
organic matter 157
orthophosphate 5 184
oxidation 477
Pagan 407
Pamlico 203
percolator 165
Periphyton 481
pH 44 67 176 184 293 311
phaeophytin 473
phosphate 50 67 69 123 178 184 203 247 273 293 314 430 466 481 518 520
phosphorus 43 49 204 247 289 387 407 473
phytoplankton 43 62 67 157 203 204 314 407 450 477 520
PON 177 190
pools 177
Port Phillip 388
Potomac 67 289 430 477
primary 5 43 49 62 450 473 481
processes 157 184
productivity 5 43 49 62 67 450 473 481
protein 69
rainfall 176

real time 407
redox potential 293
reduction 444
respiration 487
Rhode Island 178 387
Sacramento San Joquin 477
salinity 43 44 50 67 69 184 204 311 388 407
seasons 50 293 450
secondary 123 273 430
sediment water 178 387
sediments 49 165 190 247 289 387 388 444
sewage 62 69 204 273 388 430 520
sewage treatment farm 388
silica 293
silicate 50
Simoda 190
size dependent 466
Sound 43 450
St Lawrence 50
stochastic 477
sulfate 165 184 293
sulfide 184
TDC 473
temperature 43 44 50 67 178 184
Texar 314
Thames 29
tidal creek 177
tides 518
TOC 314
Tokyo 190
trace metals 184 311 387
turbidity 43 67
uptake rates 69 157
Ura 190
urea 50 62 165
vertical distribution 184
Virginia 518
Vm 62
Washington 481 520
wastes 123 204 481
weight 289
Werribee 388
York 518
zooplankton 67 157 314 466 477

ammonium
abundance 113
aerobic 172
alkaline phosphatase 482
anaerobic 172
animals 186
ATP 172
Bay 188 228 298 467
Bight 113 172
boundary layer 522
C/N 188 482
cadmium 210
California 129
calorific content 172
carbon 394 482 522
Chesapeake 298 467
chlorophyll 113 482
Chlorophyta 31
Chrysaora quinquecirrha 38
cycles 129 186 522
decomposition 172
DIC 172
diffusion 467
distribution 113
diurnal 129 482
DO 394
DOC 172
Estuary 31 186 467
freshwater 113
growth rates 188 522
Hawaii 188
Hudson 31
inorganic 186
Kaneohe 188
kelp 522
Ks 482 522
light 31
Macrocystis 522
marshes 210
methods 228
model 467
morphology 522
New Jersey 113
New York 113 172
nitrate 31 38 113 129 172 186 188 228 298 394 467 482
nitrite 113 172 186 228 298
nitrogen 129 186 210 228 482 522
North Carolina 186
nutrients 186 210 394 522
N15 129
Olisthodiscus luteus 482
organic 186
organic matter 394

orthophosphate 228
Pamlico 186
PC 172
pH 38
phosphate 38 113 394
phosphorus 210 228 482
phytoplankton 31 113 129 188 298 394
plants 186
PN 172
polyp 38
Potomac 467
primary 129 522
productivity 129 522
remote sensing 38
Rockaway Point 113
salinity 113
San Francisco 228
sea nettle 38
seasons 186
sediments 186 210
sewage 38 129 172 188
silica 113
Skeletonema 31
Southampton 394
suspended solids 113
temperature 113 394
tides 210
trace metals 210 394
turnover rates 394
uptake rates 31 129 188 482
urea 129 186 188 298
Vm 522
water velocity 522
zinc 210
zooplankton 394

amphipods
Bay 12
benthic 12
Capitella capitata 12
indicator species 12
invertebrates 12
Kiel 12
polychaetes 12
sewage 12

Anabaena
algae 312
carbon 312
Chlorella 312
CO2 312
growth rates 312
Microcystis 312

Anacostia
dye 78
Estuary 78
FWQA Dynamic 78
model 78
Potomac 78
predictions 78
Thomann 78
tides 78

anaerobic
aerobic 58 172
ammonium 172
assay 58
ATP 172
benthic 358
Bight 172
calorific content 172
Connecticut 58
Copps Brook 58
decomposition 172
degradation 58
dehydrogenase 358
denitrification 127
DIC 172
diffusion 127
DOC 58 172
floodwaters 127
interstitial 58
Lake 358
Louisiana 127
metabolic heat release 358
metabolism 58 358
microbes 58
microcalorimetry 358
model 58
New York 172
nitrate 127 172
nitrite 172
nutrients 58 358
organic matter 58 358
organisms 358
oxygen 358
PC 172
PN 172
POC 58
processes 358
Puget 358
redox potential 127

sediments 58 358
sewage 172
Sound 358
tetrazolium salt 58
Washington 358
watersheds 58
analysis of variance
benthic 395
diversity 395
Firth of Forth 395
indices 395
intertidal 395
macrofauna 395
seasons 395
Anchoa mitchilli
abundance 32
Bay 32
biomass 32
diversity 32
fish 32
Galveston 32
indicator species 32
indices 32
Texas 32
toxicity 32
wastes 32
animals
algae 89
ammonia 518
ammonium 186
assay 399
community structure 89
cycles 186
DO 202 518
Estuary 89 186 202 518
fertilizer 202
fish 202
heat 89
hydrology 399
indicator species 399
industry 202
inorganic 186
methods 399
microbes 399
mining 202
nitrate 186
nitrite 186
nitrogen 186 202
North Carolina 89 186 202
nutrients 89 186 518
oil 399
organic 186
Pamlico 186 202
phosphate 202 518
phytoplankton 202
plankton 202
plants 186
pond experiment 89
primary 202
productivity 89 202
respiration 89
salinity 202
seasons 89 186
sediments 186
sewage 89 202
South Creek 89
temperature 89 202
tides 518
urea 186
Virginia 518
wastes 399
York 518
annelids
abundance 167
benthic 370
biomass 167
crustaceans 370
diversity 167
England 370
Estuary 167
fauna 167
gastrotrichs 167
Great Britian 167
indicator species 370
Linnhe Eil 370
Loch 370
microbes 167
molluscs 370
nematodes 167
oligochaetes 167
polychaetes 167
pulp mill 370
sewage 167
succession 370
Tees 167
Apalachee
Bay 191 278
benthic 191
DO 278
fish 278

Florida 191 278
indicator species 191
invertebrates 191
mud flats 191
oyster reefs 191
pulp mill 191 278
seagrass 191
wastes 191
Aqaba
calcium 146
Gulf 146
Jordan 146
phosphate 146
sewage 146
aquaculture
algae 412
growth rates 360
Mytilus edulis 360
oysters 412
sewage 360 412
Aquaforte
Canada 145
euglenoid 145
Harbor 145
indicator species 145
nanoplankton 145
phytoplankton 145
secchi disc 145
sewage 145
St Johns 145
arctic
Alaska 319
benthic 319
Cook 319
DO 319
Inlet 319
microbes 319
nitrogen 319
organisms 319
pH 319
phosphorus 319
plankton 319
salinity 319
sewage 319
silica 319
argon
Bay 396 397
bubbles 396
Chesapeake 396 397
CO2 396 397
H2S 396
methane 396 397
nitrogen 396 397
seasons 397
sediment water 396
sediments 397
artificial recharge
canal 138
dissolved solids 138
economics 138
Estuary 138
nitrification 138
ozonization 138
recycle 138
sewage 138
Thames 138
water supply 138
ash
bloom 382
carbon 382
chlorophyll 382
C14 382
fatty acids 382
nitrate 382
Nova Scotia 382
phosphorus 382
phytoplankton 382
primary 382
productivity 382
respiration 382
silica 382
assay
abundance 383
aerobic 58
algae 351 418 448 496 497
alkalinity 383
anaerobic 58
animals 399
batch culture 418
Bay 448
bloom 414
Codium 497
Connecticut 58
Copps Brook 58
degradation 58
diatoms 414
distribution 383
DOC 58
Dunaliella 496
Enteromorpha 497

hydrology 399 414 448
indicator species 383 399
interstitial 58
invertebrates 383
Lake 383
light 448
metabolism 58
methods 351 399 418
microbes 58 399
model 58
N/P 414
nitrate 414
Norway 414
nutrients 58 383 448 496 497
oil 399
Oregon 448
organic matter 58
orthophosphate 414
pH 383
phytoplankton 414
plankton 383
POC 58
Pontchartrain 383
primary 383
productivity 383
runoff 383
salinity 383
seasons 448
sediments 58
sewage 418 448
silica 414
temperature 448
tetrazolium salt 58
trace metals 414
Trondheimsfjord 414
wastes 399
watersheds 58
Yaquina 448
assimilation capacity
bioenhancement 446
BOD 446
nutrients 446
ATP
acid extraction 206
aerobic 172
ammonium 172
anaerobic 172
Basin 295
Bay 465
Bedford 295
Bight 172 275
biomass 275 434
bloom 275
C/N 465
cadmium 275
calorific content 172
carbohydrates 193 295
carbon 135 193 295
carbon/chlorophyll 434
Ceratium 275
charcoal adsorption 206
chlorophyll 193
crude fiber 193
decomposition 172
DIC 172
DOC 172
Estuary 135 193 434
fisheries 465
flagellates 295
industry 275
marshes 193
Maryland 193
methods 135 206 465
microbes 135 275
New York 172 275
Newport 135
nitrate 172
nitrite 172
nitrogen 193
North Carolina 135
nutrients 465
organic 135
particulate matter 295
Patuxent 193
PC 172 465
phosphorus 193
phytoplankton 295 434
PN 172 465
primary 465
productivity 465
protein 295
runoff 465
seasons 135
sediments 135 206 275
sewage 172
St Lawrence 434
St Margaret 465
suspended solids 465
tris extraction 206
wastes 275

zooplankton 295
Australia
agriculture 60
algae mats 60
ammonia 388
Bay 388
benthic 388
biomass 154
chlorophyll 154 424
detritus 424
DO 154
Estuary 154
fauna 388
Hacking 424
hydrology 154 424
H3 154
Lagoon 60
light 424
Little River 154
methods 424
nutrients 388
Orielton 60
phosphorus 154
phytoplankton 154 424
Port 424
Port Phillip 388
primary 154
productivity 154
P32 154
runoff 60 424
salinity 60 154 388
sediments 388 424
sewage 60 388
sewage treatment farm 388
suspended solids 424
Tasmania 60
temperature 60 154
Werribee 388
zooplankton 154
autotrophic
Bay 86
freshwater 86
heterotrophic 86
industry 86
metabolism 86
microcosms 86
nutrients 86
phytoplankton 86
primary 86
productivity 86
respiration 86
Texas 86
Trinity 86
wastes 86
zooplankton 86
bacteria
Actinetobacter 431
algae 256 339
algae bluegreen 243
algae mats 243
amino acids 456
bacteria proteolytic 456
Bay 243 431 440
benthic oxygen demand 440
biomass 339
birds 256 339
Buzzards 440
calcium 339
carbohydrates 456
carbon 256 339
COD 440
community structure 256
crustaceans 256 339
C14 456
density 246
diversity 246
fauna 456
fish 256 339
foraminifera 256 339
fungus 456
Guayanilla 243
heterotrophic 243 246 256 339 431 456
indices 456
insects 256 339
marshes 339
meiofauna 256 339
metabolism 256
methods 456
microbes 456
molluscs 256 339
nitrogen 256 339
nitrogen fixation 243
nutrients 431
oil 456
phosphorus 256 339
phytoplankton 256 339 431 456
pond experiment 256 339
processes 456
productivity 256 339

Puerto Rico 243
pulp mill 456
respiration 440
Sagami 431
salinity 456
sediments 243 246 440
self purification 246
sewage 256 339 440 456
Suruga 431
symposium 456
tertiary 339
thermal 243 456
Tokyo 431
trace metals 456
Vibrios 431
zooplankton 431
bacteria attached
bacteria free 164
Estuary 164
glucose 164
Humber 164
mineralization 164
organic matter 164
suspended solids 164
bacteria free
bacteria attached 164
Estuary 164
glucose 164
Humber 164
mineralization 164
organic matter 164
suspended solids 164
bacteria proteolytic
amino acids 456
bacteria 456
carbohydrates 456
C14 456
fauna 456
fungus 456
heterotrophic 456
indices 456
methods 456
microbes 456
oil 456
phytoplankton 456
processes 456
pulp mill 456
salinity 456
sewage 456
symposium 456
thermal 456
trace metals 456
bacterioplankton
methods 114
model 114
phytoplankton 114
productivity 114
Balanus
Acartia 227
Bay 227 257
bloom 227
Brazil 257
Estuary 227
Eurytemora 227
Guanabara 257
indicator species 257
latitudinal gradients 227
Narragansett 227
New Jersey 227
nutrients 227
organic matter 227
phytoplankton 227
Raritan 227
Rhode Island 227
salinity 227
seasons 227
Virginia 227
wastes 227
York 227
zooplankton 227
Baltic
algae bluegreen 335
benthic 335
detergent 335
DO 335
energy transfer 335
fish 335
indicator species 335
macroalgae 335
model 335
organisms 335
primary 335
productivity 335
Sea 335
sewage 335
symposium 335
zooplankton 335
Barataria
Basin 95
fisheries 95

Louisiana 95
nursery grounds 95
nutrients 95
salinity 95
wetlands 95
barnacles
Estuary 507
marshes 507
model 507
mussels 507
North Inlet 507
oysters 507
phytoplankton 507
primary 507
processes 507
productivity 507
tides 507
water column 507
Basin
ATP 295
Barataria 95
Bedford 295 381
carbohydrates 295
carbon 295
fisheries 95
flagellates 295
Louisiana 95
Nova Scotia 381
nursery grounds 95
nutrients 95
P/B 381
particulate matter 295
phytoplankton 295 381
productivity 381
protein 295
ratio 381
salinity 95
spatial component 381
wetlands 95
zooplankton 295
batch culture
algae 418
assay 418
biomass 144
bloom 144
carbon 144
Chlorophyta 144
continuous culture 144
CO2 144
Cyanophyta 144
methods 418
nitrogen 144
nitrogen fixation 144
pH 144
phytoplankton 144
secondary 144
sewage 144 418
succession 144
Bathyporia sarsi
Bay 11
benthic 11
Capitella capitata 11
community structure 11
Kiel 11
macrofauna 11
oligochaetes 11
Pygospio elegans 11
sewage 11
Baule Mitschlerlich
benthic 511
macrophytes 511
nutrients 511
phytoplankton 511
primary 511
productivity 511
turbidity 511
Bay
Aberdeen 453
abundance 32 389 499
Acartia 227
Actinetobacter 431
advection 42
agencies 18 61
Agnes 415 421
agrochemicals 455
Alabama 132
algae 72 133 140 448
algae bluegreen 243
algae mats 243
alkaline phosphatase 468 470
alkalinity 67 184 293 380 455
ammonia 67 178 184 190 293 387
388 466 473
ammonium 188 228 298 467
amphipods 12
Anchoa mitchilli 32
Apalachee 191 278
argon 396 397
assay 448
ATP 465

Australia 388
autotrophic 86
bacteria 243 431 440
Balanus 227 257
Bathyporia sarsi 11
Bengal 323
benthic 11 12 72 76 178 191 208 224 388 389 433
benthic oxygen demand 440
bibliography 73 156 345 346 451 475
biomass 32 52 65 133 140 200 231 296 466
Biscayne 427
bloom 227 287 524
boat traffic 455
BOD 71 353 495
Brazil 257
bubbles 396
Buzzards 406 440
C/N 188 406 465
California 8
Canada 52
cannery 76
Capitella capitata 11 12
carbon 22 168 387 473 495 499
Chaetodon miliaris 392
chambers 178
chemical 427
Chesapeake 18 22 41 42 45 67 72 73 74 79 91 92 133 140 141 156 168 173 184 207 293 296 297 298 301 318 345 346 355 380 396 397 415 417 419 421 422 429 451 455 467 468 469 473 475 485 495 510
Chickahominy 173
Chinhae 238
chloride 293
chlorine 184 455
chlorophyll 64 65 67 79 140 184 288 296 300 322 365 406 415 423 453 470 473 495
Cladocera 147
COD 440
coliforms 23 94 353 380
community structure 11
conceptual 168
coral 182
Coriolis 42
Corpus Christi 372
CO2 396 397
crabs 231
cycles 91 224 297 499
C14 140 453
DC 380
denitrification 190
density 198 323
deterministic 419
detritus 22 65 406
DIC 473
diffusion 419 467
dilution 510
DIN 199
dinoflagellate 524
DIP 45
directory 73
disease 238 455
dissolved 207
distribution 71 293 417 470
diversity 32 94 300 389
DNA 470
DO 8 67 71 72 184 226 278 323 353 380 387 389 401 495
DOC 473
DON 466
DOP 469
DPO 466
dredging 318 455
DRP 199
dye 318
economics 94
energetics 365
energy transfer 72 141 231 354
enzymes 470
epiphytes 455
Estuary 67 79 133 141 173 227 380 389 402 415 419 423 467 495 510
Eurytemora 227
eutrophication 73 345 346
Evadne tergestina 147
excretion rates 466
fatty acids 423
fauna 18 388 389 455
fertilizer 238 355
finite difference 41
fish 32 231 278 392
fish kills 401
fisheries 74 94 465 488
Fladen Ground 453

flora 18
Florida 191 278 402 427 433
flux 22 178 366 379 387
foraminifera 72
free surface 427
freshwater 86 231 378 402
Fundy 524
Galveston 32 208 231 401
gas bubbles 401
Gonyaulax excavata 524
Great Britian 23 199
growth rates 188 355 392
Guanabara 257
Guayanilla 243
Hawaii 64 65 94 182 188 200 330 392 466
heat 141
herring 524
heterotrophic 86 243 431
Hillsborough 433
Hobsons 389
Humboldt 8
Hurricane 415 421
hydrology 41 42 71 91 132 141 198 208 224 226 262 354 378 448 510
H2S 396
indicator species 12 32 191 208 257 417
indices 32 92 208 470
industry 86 208 301 380 488
inorganic 178
interface salt fresh 132
interstitial 45 207 293 485
invertebrates 12 191 433
iron 45 293 485
Jamaica 262 353
James 173 380 495
Japan 190 322 488
Kaneohe 64 65 94 182 188 200 330 392 466
Kiel 11 12
Korea 238
Ks 468 469
land development 92
latitudinal gradients 227
light 448
Limacina retroversa 524
linear regression 173
Liverpool 23 199
local 61 297
long term 199
Louisiana 402
macrofauna 11 72 76
macrophytes 52 72
Malagasy Republic 147
Malpeque 499
management 61 73 74 231 402 429
manganese 207 293
Mangoku 190 252
marshes 22
Maryland 380 451
Massachusetts 406
Massartia rotundata 287 365
matrix 372
metabolism 86 224 466
methane 396 397
methods 18 228 296 465 485
Meydenbauer 425
Michaelis Menton 71 415
microbes 72 133 141 182 252 297 417 423 470 499
microcopepods 330
microcosms 86 140 379 387
Mobile 132
model 41 42 64 71 132 168 198 207 231 262 345 346 353 354 366 372 378 415 419 427 467 510
momentum transfer 132
mucus 401
mud flats 191
N/P 226
nanoplankton 288 296 300 406
Narragansett 178 198 227 379 387 423
negentropy 366
New Jersey 224 226 227 300
New York 262 287 353
Newark 300
nitrate 64 67 178 188 224 226 228 252 298 380 467 473
nitrification 252
nitrite 67 178 228 298 473
nitrogen 22 65 67 79 91 94 199 228 297 330 353 372 387 396 397 415 499
nitrogen fixation 182 243
North 453
North Carolina 402
Nosy Be 147

nutrients 71 72 79 86 92 141 168 173 226 227 288 297 322 323 355 380 387 388 402 431 448 455 465 473 495
N15 190 252
Odawa 252
oil 318 423 455
oligochaetes 11
Olisthodiscus luteus 287
one dimensional 419
Oregon 448
organic 141
organic matter 227 422
orthophosphate 133 184 228 469
oxidation rates 485
oyster reefs 191
oysters 499
P/B 330
Palm 402
participation 61
Patuxent 141 173 380 495
PC 465
Penilia avirostris 147
pesticides 380
pH 8 67 71 184 207 293 380 455
phaeophytin 473
phosphate 52 64 67 178 184 224 226 293 380 466
phosphomonoester 468
phosphorus 22 79 91 94 199 228 297 353 379 387 415 468 470 473 499
phytoflagellate 287
phytoplankton 64 65 67 71 72 79 86 91 141 147 188 227 288 296 297 298 300 322 415 431 468 469
plankton 226 288 365 366
plants 141
PN 200 465
POC 65 406 453
polychaetes 12
polyphosphate 469
POM 421
PON 190 406
pond experiment 8
Porphyra 238
Port Phillip 388
Potomac 67 173 380 419 467 495
power plant 141
predictions 433
primary 22 40 64 86 91 140 141 238 288 296 453 465 473
processes 184 224 354 427 453
productivity 22 40 64 67 86 91 140 141 231 238 288 296 330 365 453 465 473 499
Prorocentrum micans 287
protein 470
Providence 423
pteropods 524
public opinion 61 429
Puerto Rico 243
pulp mill 191 278 488
Pygospio elegans 11
P32 469
quasi linear 415
Quinte 52
radioactivity 345 346 402
rainfall 147 297
Rappahannock 173 380 495
Raritan 40 224 226 227 288 365 366
recreation 94
redox potential 293
reduction 252
remote sensing 318
reproduction 392
resources 345 346 429
respiration 86 365 440
Rhode 133
Rhode Island 178 227 387
runoff 402 465
Sagami 431
Saldanha 76
salinity 67 71 184 198 226 227 231 287 353 388 389 422 455
salmonids 8 401
San Diego 425
San Francisco 61 71 228 354 378
Santee 402
saturation 401
Sea 453
seagrass 191 355
seasons 71 147 173 199 224 226 227 293 300 397 406 448 453
secchi disc 422
secondary 182 231 330
sediment water 178 379 387 396
sediments 132 182 190 208 243 252 297 301 380 387 388 397 417

421 427 433 440
seston 470
Severn 510
sewage 8 11 12 23 52 64 72 94 140 182 188 301 318 330 380 388 392 417 421 423 425 433 440 448 488 510
sewage treatment farm 388
shrimp 231
silica 293 378
Simoda 190
size composition 200
size dependent 466
soil erosion 421
South Africa 76
South Carolina 402
specie key 455
St Margaret 465
steady state 207
submerged vegetation 455
succession 200
sulfate 184 293
sulfide 184
Suruga 431 488
suspended solids 406 417 421 422 423 465
Susquehanna 79 173 380 415 495
swamps 402
symposium 297
Taunton 423
TDC 473
temperature 67 71 178 184 226 448 455
tertiary 52 301 433
Texas 32 86 208 231 372 401
Theora fragilis 389
thermal 141 243
three dimensional 132 198 427
tides 22
time dependent 132 427
Tokyo 190 431 470
toxicity 32
trace metals 72 184 380 387 455
tracer 23
transport 132 262 301 354 427
Trinity 86
tropical 147
turbidity 67 455
turnover rates 469
two dimensional 41 42 262 353
378
uptake rates 133 188 297
Ura 190 252
Uranouchi 322
urea 188 298
vertical distribution 184
vertical transport 297
Vibrios 431
Virginia 156 227 380 475
Vm 468 469
wastes 32 76 86 191 208 227 238 301 322 380 415 488
water column 417
water craft 425
water velocity 455
watersheds 92 173 380
Werribee 388
wetlands 402
wind 422 427
Wollochet 425
Yaquina 448
Yarra 389
York 173 227 380 495
zooplankton 67 72 86 140 147 200 227 296 297 392 406 431 466
Zostera 252

Bayou
ammonia 314
bloom 251 317
budget 316
carbon 181
chemical 102
chlorophyll 102
Chocolate 102
Dickinson 251
dissolved solids 313
diversity 102
DO 102 251 313 314 315 317
Estuary 181
fish 317
fish kills 251
Florida 181 314 316 317
flux 315
glucose 313
Gymnodinium 317
indices 102
inorganic 181
kinetics 313
macroinvertebrates 314
microbes 313

nitrate 314
nitrogen 181 316
nutrients 313
pH 315
phosphate 181 313 314 315
phosphorus 181 251 316
phytoplankton 251 314 317
primary 181
processes 315
productivity 102 181 313
redox potential 313 315
respiration 102
salinity 315
seasons 102
sediment water 181 313 315
sewage 251
Taylor 102
temperature 315
Texar 181 314 315 316 317
Texas 102
TOC 314
toxicity 317
wastes 102 317
zooplankton 102 314

Bedford
ATP 295
Basin 295 381
carbohydrates 295
carbon 295
flagellates 295
Nova Scotia 381
P/B 381
particulate matter 295
phytoplankton 295 381
productivity 381
protein 295
ratio 381
spatial component 381
zooplankton 295

Belgium
bloom 376
clay 535
denitrification 504
deposition 376
diatoms 376 535
dissolved 535
DO 376
Estuary 376 535
hydrology 376
interface salt fresh 376
interstitial 504
model 504
nitrate 504
nitrification 504
nitrite 504
nutrients 376
organic matter 504
Scheldt 376 535
sediments 376 504 535
self purification 376
silica 535
suspended solids 376
trace metals 376
transport 376

Bengal
Bay 323
density 323
DO 323
nutrients 323

benthic
abundance 120 389
Alaska 319
algae 72 87 119 120 248 400 438
algae bluegreen 335
algae mats 33
amino acids 528
ammonia 5 178 388
amphipods 12
anaerobic 358
analysis of variance 395
annelids 370
Apalachee 191
arctic 319
Australia 388
Baltic 335
Bathyporia sarsi 11
Baule Mitschlerlich 511
Bay 11 12 72 76 178 191 208 224 388 389 433
benthic oxygen demand 33 542
bioenhancement 447
biomass 409 447
bioturbation 539
bloom 10
BOD 539
Bothnia 137
Byfjorden 352
C/N 333
California 400 447
cannery 76 447

Capitella capitata 11 12
carbon 542
chambers 178
Chesapeake 72
chlorinated hydrocarbons 137
COD 338
coliforms 542
community structure 11 371
conference 528
Cook 319
Craiglin 393
crustaceans 338 352 370
cycles 224 410 528
cysts 10
Damariscotta 106
dehydrogenase 358
Delaware 539
density 393
deoxygenation 542
detergent 234 335
detritus 528
diatoms 5
dinoflagellate 10
disease 305 356
dissolved solids 137
distribution 269
diversity 9 120 389 395 409 447
DO 72 106 137 319 335 389 447
542
ecocline 371
Econfina 540
economics 508
energy transfer 72 335
England 370
Estuary 33 87 106 119 352 389
539 540
fauna 87 388 389 393 539
fertilizer 393
Firth of Forth 395
fish 106 305 335 356 447 528 542
fisheries 338 528
Florida 191 433
flux 178
foraminifera 72
France 234
Galveston 208
Gonyaulax 10
Gothenburg 352
gradient 371
Great Britian 119 120 529
growth rates 106
Gulf 137 234
Harbor 400 447
heat 542
Hillsborough 433
Hobsons 389
Hydrobia ulvae 393
hydrology 87 137 208 224
ice 542
indicator species 12 191 208 269
331 335 352 370 371 400 529
indices 208 269 371 395
industry 119 208 508
Inlet 319
inorganic 178
intertidal 395
invertebrates 12 106 191 331 433
528
iron 137
Japan 338
Kiel 11 12
Kungsbackafjorden 352
laboratory culture 5 106
Lagoon 9
Lake 358
larvae 106
life cycles 248
light 542
Limnodrilus 539
Linnhe Eil 370
Loch 370 393
long term 120
Los Angeles 400 447
macroalgae 335
macrofauna 9 11 72 76 137 352
356 395 409
macrophytes 72 333 511 529 540
Maine 106
management 508 528
Marseilles 234
Massachusetts 10 331
meiofauna 352
metabolic heat release 358
metabolism 224 358
methods 542
microbes 72 319 528
microcalorimetry 358
mining 87
Mississippi 356
model 33 335 338 438 542

molluscs 9 370
mud flats 191
Narragansett 178
nematodes 331
New Jersey 224
New York 410
nitrate 5 178 224
nitrification 410
nitrite 5 178
nitrogen 87 319 338 528
nutrients 72 137 358 388 410 511 528 542
oil 137 338 400 528
oligochaetes 11 400 539
Oregon 33
organic 269 539
organic enrichment 371
organic matter 338 358 410
organisms 234 319 335 358 410 447 508 528 542
orthophosphate 5
Oslofjord 248
oxygen 358
oyster reefs 191
Pamlico 87
parasites 356
Penobscot 106
pesticides 137 356 508 528
pH 319
Phaeophyta 333
phosphate 178 224
phosphorus 87 137 319 528
phytoplankton 72 87 137 511 542
plankton 319 447
plants 508
polychaetes 12 400
Port Phillip 388
Posidonia oceanica 234
predictions 433
primary 5 137 335 410 511 542
processes 224 358
productivity 5 137 335 393 410 447 511 542
public opinion 508
Puget 305 358
pulp mill 191 370 409
Pygospio elegans 11
Raritan 224
rate constants 542
reaeration 542
recovery 371
recreation 508
red tide 10
reproduction 120
Rhode Island 178
Saldanha 76
salinity 33 106 319 388 389
Saltkallefjord 352
Sea 335 338
seagrass 191 234 438 528
seasons 120 224 248 331 395
sediment water 178
sediments 33 106 137 208 338 358 371 388 410 433 539
Seto 338
settlement 106
sewage 11 12 72 119 234 305 319 331 335 338 356 388 400 433 447
sewage treatment farm 388
Shannons Index 9
Sheepscot 106
silica 319 528
Sound 305 358
South Africa 76
Spain 333
spatial distribution 248 542
spores 10
stress 528
succession 370 371 409
sulfate 338
sulfide 33 338
Sweden 352
symposium 137 335
Tees 119
temperature 106 178
temporal distribution 248 542
Tenholloway 540
tertiary 433 508
Texas 208 438
Theora fragilis 389
tides 33
toxicity 10
trace metals 72 137 356 438 528
turbidity 511
Tyne 119
urea 528
Washington 305 358
wastes 76 119 120 137 191 208 400 447 508 539
Wear 119

Werribee 388
wetlands 528
Woods Hole 331
Yaquina 33
Yarra 389
zooplankton 72 87 137 335 352 528 542
benthic oxygen demand
algae mats 33
bacteria 440
Bay 440
benthic 33 542
bloom 80
BOD 221
Buzzards 440
carbon 221 542
carbon oxygen demand 80
chlorophyll 80
COD 440
coliforms 221 542
deoxygenation 542
DO 80 221 542
Estuary 33 80 221
fish 542
freshwater 420
heat 542
hydrology 420
ice 542
light 420 542
methods 542
model 33 80 420 542
nitrogen 80
nitrogen oxygen demand 80
nutrients 80 221 542
one dimensional 420
Oregon 33
organisms 542
phosphorus 80
phytoplankton 80 221 542
Potomac 80 221
primary 80 542
productivity 80 542
rate constants 542
reaeration 80 542
respiration 80 440
runoff 420
salinity 33
sediments 33 440
sewage 440
spatial distribution 542
stochastic 420
sulfide 33
temperature 420
temporal distribution 542
tides 33
turbidity 420
wastes 221
Yaquina 33
zooplankton 542
Bermuda
bloom 24
light 24
macrophytes 24
nutrients 24
primary 24
productivity 24
bibliography
Bay 73 156 345 346 451 475
bloom 13
Chesapeake 73 156 345 346 451 475
detergent 436
dinoflagellate 13
directory 73
DO 213
dredging 4
economics 4
ecosystem 84
Estuary 30 124
eutrophication 4 15 51 55 56 57 73 124 211 213 250 263 264 265 266 267 268 325 344 345 346 435 457 532
fisheries 124
hydrology 124 250 263 264 265 266 267 268
industry 211 457
instruments 436
James 30
land development 56 57 84
management 73 325 435
Maryland 451
methods 213 435 436
model 250 263 264 265 266 267 268 345 346 436
nutrients 436
oil 4 211 344 436
pesticides 4 344 435 436
pollution 4
primary 124

productivity 124
Puget 84
radioactivity 4 345 346
remote sensing 211
resources 56 57 211 345 346
sewage 15
Sound 84
St Lawrence 124
suspended solids 124
thermal 4 211 213 250 263 264
265 266 267 268 344 435
trace metals 4 124 213 435 436
United Kingdom 15 51
Virginia 156 475
Washington 84 112
Bight
abundance 113
aerobic 172
ammonium 113 172
anaerobic 172
ATP 172 275
bioaccumulation 121
biomass 275
bloom 275 286
cadmium 275
calorific content 172
Ceratium 275
chlorophyll 113
decomposition 172
DIC 172
distribution 113
DOC 172
fish 121
freshwater 113
hypertrophication 286
indicator species 121
indices 189
industry 275
Kiel 121
microbes 275
mussels 121
New Jersey 113
New York 113 172 189 275 286
nitrate 113 172
nitrite 113 172
Norway 121
nutrients 286
oil 121
PC 172
phosphate 113
phytoplankton 113 286
PN 172
Rockaway Point 113
salinity 113
sediments 189 275
sewage 172 189
silica 113
steroids 189
suspended solids 113
temperature 113
wastes 275
bioaccumulation
Bight 121
fish 121
indicator species 121
Kiel 121
mussels 121
Norway 121
oil 121
bioenhancement
assimilation capacity 446
benthic 447
biomass 447
BOD 446
California 447
cannery 447
diversity 447
DO 447
fish 447
Harbor 447
Los Angeles 447
nutrients 446
organisms 447
plankton 447
productivity 447
sewage 447
wastes 447
biological
chemical 230
processes 230
stabilization 230
wastes 230
biomass
abundance 32 167
aerobic 537
algae 133 140 160 339 537
algae bluegreen 66 247 533
ammonia 62 203 247 466
Anchoa mitchilli 32
annelids 167

ATP 275 434
Australia 154
bacteria 339
batch culture 144
Bay 32 52 65 133 140 200 231 296 466
benthic 409 447
Bight 275
bioenhancement 447
birds 339
bloom 144 201 275 306 445 519 533 537
BOD 519
British Columbia 247
C/N 62
cadmium 275
calcium 339
California 62 128 447
Canada 52
cannery 447
carbon 110 144 339
carbon/chlorophyll 62 434
Ceratium 275
Chesapeake 133 140 296
chlorophyll 65 128 140 154 296 519
Chlorophyta 144
Chowan 533
continuous culture 144 160
CO2 144 537
crabs 231
crustaceans 339
Cyanophyta 144
cycles 247
C14 140 537
density 537
detritus 65 537
diatoms 445
distribution 128
diurnal 62
diversity 32 167 409 447 533
DO 154 304 332 447 519
DON 201 466
DPO 466
Duwamish 519
energy transfer 231
Estuary 66 133 154 167 201 203 304 336 434 519 533
Etang de Berre 306
excretion rates 466
fauna 167
fish 32 231 339 447
foraminifera 339
France 306
freshwater 231 519
Galveston 32 231
gastrotrichs 167
Great Britian 167
Grevelingen 336
Harbor 447
Hawaii 65 200 466
heterotrophic 339
hydrology 154 201 306
H3 154
indicator species 32
indices 32
industry 275
inorganic 201 203
insects 339
Japan 445
Kaneohe 65 200 466
Ks 62
light 336
Little River 154
Los Angeles 447
macrofauna 409
macrophytes 52 247 537
management 231
marshes 339
Maryland 304
meiofauna 339
metabolism 466 525
methods 296
microbes 133 167 203 247 275 332 445 525 533 537
microcosms 140
mining 66 201 203
model 231
molluscs 339
N/P 160
nanoplankton 296
nematodes 167
Netherlands 336
New York 275
nitrate 128 201 203
nitrogen 62 65 66 110 144 160 201 247 339
nitrogen fixation 144
North Carolina 203 533
nutrients 62 128 160 203 304 306

336 445
N15 62
oligochaetes 167
organic matter 306
organisms 447
orthophosphate 133
Pamlico 66 201 203
Patuxent 304
pH 144 332
PHB 525
phosphate 52 203 247 466
phosphorus 66 110 154 201 247 304 339 533
phytoplankton 62 65 66 110 128 144 154 201 203 296 304 339 434 519 533
plankton 306 447
PN 200
POC 65
poly B hydroxybutyrate 332 525
polychaetes 167
pond experiment 110 339
pool experiment 66
primary 62 140 154 296 304 336 445
productivity 62 140 154 231 296 304 336 339 445 447
pulp mill 409
P32 154
Quinte 52
Rhode 133
salinity 154 231 332
Sea 445
secondary 144 231
sediments 201 247 275 304 332 525 537
sewage 52 62 140 144 160 167 339 447
shrimp 231
size composition 200
size dependent 466
St Lawrence 434
succession 110 144 200 201 409
Tar 201
Tees 167
temperature 128 154 519
tertiary 52 339
Texas 32 231
thermal 304
tides 519
toxicity 32
turnover rates 537
uptake rates 133 533 537
urea 62
Vm 62 537
wastes 32 66 275 447
water column 537
water velocity 336
winter 445
zooplankton 140 154 200 296 466
Zostera marina 336
biosorption
C14 543
fish 543
methianine 543
urea 543
bioturbation
benthic 539
BOD 539
Delaware 539
Estuary 539
fauna 539
Limnodrilus 539
oligochaetes 539
organic 539
sediments 539
wastes 539
birds
algae 256 339 443
bacteria 256 339
biomass 339
calcium 339
carbon 256 339
Clyde 443
community structure 256
crustaceans 256 339
Estuary 443
feeding grounds 443
fish 256 339
foraminifera 256 339
heterotrophic 256 339
insects 256 339
intertidal 443
invertebrates 443
marshes 339
meiofauna 256 339
metabolism 256
molluscs 256 339
nitrogen 256 339
phosphorus 256 339

phytoplankton 256 339
pond experiment 256 339
productivity 256 339
sewage 256 339
tertiary 339
Biscayne
Bay 427
chemical 427
Florida 427
free surface 427
model 427
processes 427
sediments 427
three dimensional 427
time dependent 427
transport 427
wind 427
Black
Chaetoceros simplex 303
indicator species 303
nitrate 303
phosphate 303
phytoplankton 303
Sea 303
sewage 303
black necrosis
Burry Inlet 2
Crangon crangon 2
detergent 2
DO 2
Great Britian 2
microbes 2
pH 2
salinity 2
temperature 2
trace metals 2
bloom
Acartia 227
aerobic 537
Albemarle 450
algae 432 537
algae bluegreen 533
ammonia 204 450 520
ash 382
assay 414
ATP 275
Balanus 227
batch culture 144
Bay 227 287 524
Bayou 251 317
Belgium 376
benthic 10
benthic oxygen demand 80
Bermuda 24
bibliography 13
Bight 275 286
biomass 144 201 275 306 445 519 533 537
BOD 519
C/N 450
cadmium 275
Calanus pacificus 363
carbon 144 382
carbon oxygen demand 80
Ceratium 275
Chaetoceros 363
chlorophyll 80 382 519
Chlorophyta 144
Chowan 450 533
conference 279
continuous culture 144
CO2 144 432 537
Cyanophyta 144
cysts 10
C14 382 537
density 537
deposition 376
detritus 537
diatoms 376 414 445
Dickinson 251
DIN 450
dinoflagellate 10 13 279 524
diversity 533
DO 80 251 317 376 519
DON 201 450
Duwamish 519 520 521
Estuary 80 201 204 227 376 450 519 520 521 533
Etang de Berre 306
Euphaussid furcilia 363
Eurytemora 227
fatty acids 382
feeding rates 363
fertilizer 204
fish 317
fish kills 251
Florida 317
France 306
freshwater 204 519
Fundy 524

Gonyaulax 10
Gonyaulax excavata 524
Gymnodinium 317
herring 524
hydrology 201 306 376 414 520 521
hypertrophication 286
industry 275
inorganic 201
interface salt fresh 376
Japan 445
latitudinal gradients 227
light 24 521
Limacina retroversa 524
macrophytes 24 537
Massachusetts 10
Massartia rotundata 287
microbes 275 445 533 537
mining 201
model 80
N/P 414
nanoplankton 363
Narragansett 227
Neuse 204
New Jersey 227
New York 275 286 287
nitrate 201 204 382 414
nitrogen 80 144 201
nitrogen fixation 144
nitrogen oxygen demand 80
North Carolina 204 450 533
Norway 414
Nova Scotia 382
nutrients 24 80 227 286 306 376 445 521
Olisthodiscus luteus 287
organic matter 227 306
orthophosphate 414
Pamlico 201
Periphyton 521
pH 144 432
phosphate 520
phosphorus 80 201 204 251 382 432 533
phytoflagellate 287
phytoplankton 80 144 201 204 227 251 286 317 363 382 414 450 519 520 521 533
plankton 306
Potomac 80
primary 24 80 382 445 450
productivity 24 80 363 382 445 450
Prorocentrum micans 287
Pseudocalanus minutus 363
pteropods 524
Raritan 227
reaeration 80
red tide 10
respiration 80 382
Rhode Island 227
salinity 204 227 287
Scheldt 376
Sea 445
seasons 227 450 521
secondary 144
sediments 201 275 376 537
self purification 376
sewage 144 204 251 432 520
silica 382 414
Sound 450
spores 10
succession 144 201
suspended solids 376
Tar 201
temperature 519
Texar 317
tides 519
toxicity 10 317
trace metals 376 414
transport 376
Trondheimsfjord 414
turnover rates 537
uptake rates 533 537
Virginia 227
Vm 537
Washington 520
wastes 204 227 275 317
water column 537
winter 445
York 227
zooplankton 227 363
boat traffic
agrochemicals 455
alkalinity 455
Bay 455
Chesapeake 455
chlorine 455
disease 455
dredging 455

epiphytes 455
fauna 455
nutrients 455
oil 455
pH 455
salinity 455
specie key 455
submerged vegetation 455
temperature 455
trace metals 455
turbidity 455
water velocity 455
BOD
Alaska 320
ammonia 311 477 487
assimilation capacity 446
Bay 71 353 495
benthic 539
benthic oxygen demand 221
bioenhancement 446
biomass 519
bioturbation 539
bloom 519
C/N 136 324
California 477
carbon 221 324 342 495
Charleston 136
chemical 109
Chesapeake 495
chlorophyll 495 519
Clyde 284
COD 349
coliforms 1 221 290 353
Cook 320
cycles 342 477
DC 1 283
Delaware 109 342 477 523 539
Delta 477
denitrification 324
deoxygenation 349
DIN 477
dispersion coefficient 283
distribution 71
DO 1 36 71 99 212 221 283 284 290 311 342 353 477 495 519 541
DOC 311
DOD 283
DON 311
Duwamish 519
dye 1
energy transfer 348
Estuary 1 99 109 212 221 283 284 342 477 495 519 523 539
fauna 539
flux 342
freshwater 284 519
Great Britian 274
Harbor 136
hydrology 71 212 284
industry 109 136 284 348
Inlet 320
interface salt fresh 311
Jamaica 353
James 495
Japan 349
light 36
Limnodrilus 539
management 109
Michaelis Menton 71
microbes 487 541
mixing depth 541
model 1 71 99 109 212 283 342 348 353 477 523
municipal 109
NaCl 36
New York 353
nitrate 487
nitrification 487
nitrite 290 311 477 487
Nitrobacter 487
nitrogen 342 353 477 541
Nitrosomona 487
nonpoint sources 523 541
nutrients 1 71 221 342 446 495
oligochaetes 539
organic 539 541
organic matter 290 324
oxidation 477
Patuxent 495
pesticides 348
pH 71 290 311
phosphorus 342 353 541
phytoplankton 1 71 221 274 342 477 519
point sources 541
Potomac 1 99 221 283 342 477 495
predictions 284 541
profiles 541
pulp mill 136
Rappahannock 495

real time 212
respiration 487
runoff 541
Sacramento San Joquin 477
salinity 71 212 290 311 353 541
salts 36
San Francisco 71
seasons 71 274 290
secondary 348
sediments 36 539 541
self purification 349
sewage 136 274 284 320 324 348
shellfish 290
soil erosion 541
South Carolina 136
stochastic 99 477
storm loading 523
surface waters 541
suspended solids 36
Susquehanna 495
temperature 36 71 284 290 320
519 541
thermal 541
tidal average 212
tides 1 519
TOC 349
TOD 349
trace metals 311 348
turbidity 36 541
two dimensional 353
Virginia 212
wastes 109 136 221 284 342 348
539
York 212 495
zooplankton 342 477

Bothnia
benthic 137
chlorinated hydrocarbons 137
dissolved solids 137
DO 137
Gulf 137
hydrology 137
iron 137
macrofauna 137
nutrients 137
oil 137
pesticides 137
phosphorus 137
phytoplankton 137
primary 137
productivity 137
sediments 137
symposium 137
trace metals 137
wastes 137
zooplankton 137

bound
dissolved 3
fertilizer 3
nitrate 3
phosphorus 3
pond experiment 3
P32 3
sediments 3

boundary layer
ammonium 522
carbon 522
cycles 522
growth rates 522
kelp 522
Ks 522
Macrocystis 522
morphology 522
nitrogen 522
nutrients 522
primary 522
productivity 522
Vm 522
water velocity 522

Brazil
Balanus 257
Bay 257
Guanabara 257
indicator species 257

British Columbia
algae bluegreen 247
ammonia 247
biomass 247
canal 512
cycles 247
dredging 512
flushing 512
macrophytes 247
microbes 247
nitrogen 247
nutrients 512
phosphate 247
phosphorus 247
salinity 512
sediments 247

temperature 512
tides 512
wastes 512
Broad River
detritus 292
Estuary 292
fertilizer 292
Florida 292
leaves 292
mangroves 292
pesticides 292
Shark 292
trace metals 292
Broadkill
chlorophyll 101
Delaware 101
DO 101
Estuary 101
inorganic 101
Murderkill 101
nitrogen 101
nutrients 101
pH 101
phosphorus 101
salinity 101
tides 101
wetlands 101
bubbles
argon 396
Bay 396
Chesapeake 396
CO2 396
H2S 396
methane 396
nitrogen 396
sediment water 396
budget
Bayou 316
Florida 316
nitrogen 316
phosphorus 316
Texar 316
buoys
California 37
ceramic panel substrates 37
chlorinated hydrocarbons 37
dispersion 37
economics 37
methods 37
Obelia dichtoma 37
productivity 37
sewage 37
trace metals 37
Burrard
distribution 460
fiord 460
Harbor 460
Inlet 460
phytoplankton 460
primary 460
productivity 460
succession 460
Vancouver 460
Burry Inlet
black necrosis 2
Crangon crangon 2
detergent 2
DO 2
Great Britian 2
microbes 2
pH 2
salinity 2
temperature 2
trace metals 2
Bush
Estuary 373
predictions 373
Buzzards
bacteria 440
Bay 406 440
benthic oxygen demand 440
C/N 406
chlorophyll 406
COD 440
detritus 406
Massachusetts 406
nanoplankton 406
POC 406
PON 406
respiration 440
seasons 406
sediments 440
sewage 440
suspended solids 406
zooplankton 406
Byfjorden
benthic 352
crustaceans 352
Estuary 352
Gothenburg 352

indicator species 352
Kungsbackafjorden 352
macrofauna 352
meiofauna 352
Saltkallefjord 352
Sweden 352
zooplankton 352

C/N

Albemarle 450
alkaline phosphatase 482
ammonia 62 450
ammonium 188 482
ATP 465
Bay 188 406 465
benthic 333
biomass 62
bloom 450
BOD 136 324
Buzzards 406
California 62
carbon 324 482
carbon/chlorophyll 62
Charleston 136
chlorophyll 406 482
Chowan 450
denitrification 324
detritus 406
DIN 450
diurnal 62 482
DOC 150
DON 150 450
Estuary 450
fisheries 465
Georgia 150
growth rates 188
Harbor 136
Hawaii 188
industry 136
Kaneohe 188
Ks 62 482
macrophytes 333
Massachusetts 406
methods 465
nanoplankton 406
nitrate 188 482
nitrogen 62 482
North Carolina 450
nutrients 62 465
N15 62
Olisthodiscus luteus 482
organic matter 324
PC 465
Phaeophyta 333
phosphorus 482
phytoplankton 62 188 450
PN 465
POC 406
PON 406
primary 62 450 465
productivity 62 450 465
pulp mill 136
runoff 150 465
Savannah 150
seasons 406 450
sewage 62 136 188 324
Sound 150 450
South Carolina 136
Spain 333
St Margaret 465
suspended solids 406 465
uptake rates 188 482
urea 62 188
Vm 62
wastes 136
zooplankton 406

cadmium

ammonium 210
ATP 275
Bight 275
biomass 275
bloom 275
Ceratium 275
industry 275
marshes 210
microbes 275
New York 275
nitrogen 210
nutrients 210
phosphorus 210
sediments 210 275
tides 210
trace metals 210
wastes 275
zinc 210

Calanus pacificus

bloom 363
Chaetoceros 363
Euphaussid furcilia 363
feeding rates 363
nanoplankton 363

phytoplankton 363
productivity 363
Pseudocalanus minutus 363
zooplankton 363
calcium
algae 339
Aqaba 146
bacteria 339
biomass 339
birds 339
carbon 339
crustaceans 339
fish 339
foraminifera 339
Gulf 146
heterotrophic 339
insects 339
Jordan 146
marshes 339 461
meiofauna 339
molluscs 339
nitrogen 339 461
phosphate 146
phosphorus 339 461
phytoplankton 339
plants 461
pond experiment 339
potassium 461
productivity 339
sediments 461
sewage 146 339
tertiary 339
California
algae 400
ammonia 62 477
ammonium 129
Bay 8
benthic 400 447
bioenhancement 447
biomass 62 128 447
BOD 477
buoys 37
C/N 62
cannery 447
carbon/chlorophyll 62
ceramic panel substrates 37
chlorinated hydrocarbons 37
chlorophyll 128 155
cycles 129 477
Delaware 477
Delta 477
DIN 477
dispersion 37
distribution 128 155
diurnal 62 129
diversity 155 447
DO 8 441 447 477
economics 37
energy transfer 276
Estuary 477
fauna 276
fish 447
flushing 155
flux 187
Gulf 155
Harbor 400 447
Humboldt 8
hydrology 441
indicator species 400
intertidal 276
Ks 62
Lagoon 155
Los Angeles 400 447
macrophytes 276
metabolism 276
methods 37
model 477
nitrate 128 129
nitrite 477
nitrogen 62 129 187 477
nutrients 62 128 441
N15 62 129
Obelia dichtoma 37
oil 400
oligochaetes 400
organisms 447
oxidation 477
P/N 441
pH 8
phosphorus 187
phytoplankton 62 128 129 155 187 441 477
plankton 447
polychaetes 400
pond experiment 8
Potomac 477
primary 62 129 155 187 276 441
productivity 37 62 129 155 187 276 441 447
respiration 441

Sacramento San Joquin 477
salinity 441
salmonids 8
seasons 276 441
secchi disc 441
sediments 187
sewage 8 37 62 129 276 400 447
silica 187
stochastic 477
temperature 128 441
tides 155
trace metals 37
uptake rates 129
urea 62 129
Vm 62
wastes 400 447
zooplankton 477
calorific content
aerobic 172
ammonium 172
anaerobic 172
ATP 172
Bight 172
decomposition 172
DIC 172
DOC 172
macroinvertebrates 277
macrophytes 277
New York 172
nitrate 172
nitrite 172
PC 172
PN 172
sewage 172 277
Canada
Aquaforte 145
Bay 52
biomass 52
euglenoid 145
Harbor 145
indicator species 145
macrophytes 52
nanoplankton 145
phosphate 52
phytoplankton 145
Quinte 52
secchi disc 145
sewage 52 145
St Johns 145
tertiary 52
canal
agriculture 384
artificial recharge 138
British Columbia 512
dissolved solids 138
Dniester 384
dredging 512
economics 138
Estuary 138 384
fauna 384
flushing 512
industry 384
nitrification 138
nutrients 512
ozonization 138
recycle 138
salinity 512
sewage 138 384
temperature 512
Thames 138
tides 512
wastes 384 512
water supply 138
zooplankton 384
Cancer
crabs 139
eggs 139
epibiotic fouling 139
microbes 139
nutrients 139
cannery
acetylene 25
Bay 76
benthic 76 447
bioenhancement 447
biomass 447
California 447
diversity 447
DO 447
fish 447
Harbor 447
Inlet 25
intertidal 25
Klebsiella pneumoniae 25
Los Angeles 447
macrofauna 76
New Zealand 25
nitrogen fixation 25
nutrients 25
organisms 447

plankton 447
productivity 447
Saldanha 76
sediments 25
sewage 25 447
slaughterhouse 25
South Africa 76
Waimea 25
wastes 25 76 447
Capitella capitata
amphipods 12
Bathyporia sarsi 11
Bay 11 12
benthic 11 12
community structure 11
indicator species 12
invertebrates 12
Kiel 11 12
macrofauna 11
oligochaetes 11
polychaetes 12
Pygospio elegans 11
sewage 11 12
carbohydrates
amino acids 225 456
ATP 193 295
bacteria 456
bacteria proteolytic 456
Basin 295
Bedford 295
carbon 193 295
chlorophyll 193
clams 225
crude fiber 193
C14 456
Estuary 193
fauna 456
flagellates 295
fungus 456
glycine 225
heterotrophic 456
indices 456
marshes 193
Maryland 193
Mercenaria 225
methods 456
microbes 456
nitrogen 193
oil 225 456
particulate matter 295
Patuxent 193
phosphorus 193
phytoplankton 295 456
processes 456
protein 295
pulp mill 456
salinity 456
sewage 225 456
stress 225
symposium 456
taurine 225
thermal 456
trace metals 456
zooplankton 295
carbon
abundance 499
Aisne 35
algae 256 312 339
alkaline phosphatase 482
ammonia 387 473
ammonium 394 482 522
Anabaena 312
ash 382
ATP 135 193 295
bacteria 256 339
Basin 295
batch culture 144
Bay 22 168 387 473 495 499
Bayou 181
Bedford 295
benthic 542
benthic oxygen demand 221 542
biomass 110 144 339
birds 256 339
bloom 144 382
BOD 221 324 342 495
boundary layer 522
C/N 324 482
calcium 339
carbohydrates 193 295
Carter 21
Chesapeake 22 168 473 495
Chlorella 312
chlorophyll 70 193 220 382 454 473 482 495
Chlorophyta 144
coliforms 221 542
community structure 256
conceptual 168
continuous culture 116 144

Copepoda 195
CO2 144 220 312
Creek 21
crude fiber 193
crustaceans 195 256 339
ctenophores 362
Cyanophyta 144
cycles 21 342 499 522
C14 382
Delaware 342
denitrification 324
deoxygenation 542
detritus 22 192 195
DIC 473
distribution 377 449
diurnal 482
DO 220 221 342 387 394 495 542
DOC 473
energy transfer 192 195 362
Estuary 27 35 135 181 192 193 195 220 221 342 377 449 495
Eurytemora affinis 195
fatty acids 382
fish 256 339 542
flagellates 295
Florida 181
flux 22 342 362 387
foraminifera 256 339
France 35
growth rates 70 312 522
heat 542
heterotrophic 256 339
ice 542
indices 220
inorganic 27 181
insects 256 339
isotope 449
James 27 495
kelp 522
Ks 482 522
Laminaria 70
light 542
Loch 454
Macrocystis 522
macrophytes 70
Malpeque 499
marshes 21 22 192 193 339
Maryland 192 193 195
meiofauna 256 339
metabolism 256
methods 35 135 542
microbes 27 135 195 220 499
microcosms 362 387
Microcystis 312
model 27 168 342 542
molluscs 256 339
morphology 522
Narragansett 387
Nevis 454
Newport 135
nitrate 27 70 382 394 454 473 482
nitrite 27 473
nitrogen 21 22 35 110 144 181 193 256 339 342 362 377 387 482 499 522
nitrogen fixation 144
North 454
North Carolina 135
Nova Scotia 382
nutrients 116 168 192 220 221 342 362 387 394 473 495 522 542
Olisthodiscus luteus 482
organic 27 135
organic matter 324 394
organisms 542
oxidation rates 35
oxygen 377
oysters 499
particulate matter 295
Patuxent 192 193 195 495
pesticides 220
pH 144
phaeophytin 473
phosphate 27 181 394 454
phosphorus 19 21 22 110 181 193 256 339 342 382 387 473 482 499
phytoplankton 27 110 116 144 221 256 295 339 342 382 394 542
POC 454
pond experiment 110 256 339
Potomac 220 221 342 377 449 495
predictions 27
primary 21 22 181 192 195 362 382 473 522 542
processes 27
productivity 21 22 181 192 195 256 339 362 382 454 473 499 522 542
protein 295

Rappahannock 495
rate constants 542
reaeration 542
respiration 382
Rhode Island 387
Schofield 27
Scotland 454
Scottlana canadensis 195
Sea 454
seasons 135
secondary 144
sediment water 21 181 387
sediments 19 135 387
Seine 35
sewage 19 27 116 144 256 324 339
silica 382
Southampton 394
spatial distribution 542
stochastic 27
succession 110 116 144
Susquehanna 495
TDC 473
temperature 27 35 394
temporal distribution 542
tertiary 339
Texar 181
tides 19 22
TOC 220
toxicity 116
trace metals 387 394
turnover rates 394
uptake rates 482
Virginia 21 27
Vm 522
Ware 21
wastes 220 221 342
water velocity 522
wetlands 192 195
York 495
zooplankton 295 342 394 542

carbon oxygen demand
benthic oxygen demand 80
bloom 80
chlorophyll 80
DO 80
Estuary 80
model 80
nitrogen 80
nitrogen oxygen demand 80
nutrients 80
phosphorus 80
phytoplankton 80
Potomac 80
primary 80
productivity 80
reaeration 80
respiration 80

carbon/chlorophyll
ammonia 62
ATP 434
biomass 62 434
C/N 62
California 62
diurnal 62
Estuary 434
Ks 62
nitrogen 62
nutrients 62
N15 62
phytoplankton 62 434
primary 62
productivity 62
sewage 62
St Lawrence 434
urea 62
Vm 62

carbonate ion
DOC 308
molluscs 308
pH 308
salinity 308

Carter
carbon 21
Creek 21
cycles 21
marshes 21
nitrogen 21
phosphorus 21
primary 21
productivity 21
sediment water 21
Virginia 21
Ware 21

CBOD
ammonia 407
chlorophyll 407
coliforms 407
DO 407 408
Estuary 407 408
inorganic 407

model 407 408
NBOD 408
nitrate 407
nitrite 407
nitrogen 407
one dimensional 407 408
organic 407
Pagan 407 408
phosphorus 407
phytoplankton 407
real time 407 408
salinity 407 408
ceramic panel substrates
buoys 37
California 37
chlorinated hydrocarbons 37
dispersion 37
economics 37
methods 37
Obelia dichtoma 37
productivity 37
sewage 37
trace metals 37
Ceratium
ATP 275
Bight 275
biomass 275
bloom 275
cadmium 275
industry 275
microbes 275
New York 275
sediments 275
wastes 275
Chaetoceros
bloom 363
Calanus pacificus 363
Euphaussid furcilia 363
feeding rates 363
nanoplankton 363
phytoplankton 363
productivity 363
Pseudocalanus minutus 363
zooplankton 363
Chaetoceros simplex
Black 303
indicator species 303
nitrate 303
phosphate 303
phytoplankton 303
Sea 303
sewage 303
Chaetodon miliaris
Bay 392
fish 392
growth rates 392
Hawaii 392
Kaneohe 392
reproduction 392
sewage 392
zooplankton 392
chambers
ammonia 178
Bay 178
benthic 178
flux 178
inorganic 178
Narragansett 178
nitrate 178
nitrite 178
phosphate 178
Rhode Island 178
sediment water 178
temperature 178
Channel
Houston Ship 253
hydrology 253
reaeration 253
charcoal adsorption
acid extraction 206
ATP 206
methods 206
sediments 206
tris extraction 206
Charleston
BOD 136
C/N 136
Harbor 136
industry 136
pulp mill 136
sewage 136
South Carolina 136
wastes 136
chemical
Bay 427
Bayou 102
biological 230
Biscayne 427
BOD 109
chlorophyll 102

Chocolate 102
cycles 428
Delaware 109
diversity 102
DO 102
Estuary 109
eutrophic 20
fish 516
Florida 427
food processing 516
free surface 427
Harbor 20
hydrology 20
Hymeniacidon sanguinea 359
indicator species 359
indices 16 102
industry 109 359 516
Italy 359
management 109 428
methods 179
microbes 16 20 179 516
model 109 427
municipal 109
nutrients 428 516
Oregon 516
plankton 20
Porifera 359
processes 230 427
productivity 102 428
radioactivity 516
resources 516
respiration 102
seasons 102
sediment water 179
sediments 427
sewage 359 516
Sphaerotilus 516
stabilization 230
Taylor 102
Texas 102
thermal 516
three dimensional 427
time dependent 427
trace metals 516
transport 427
wastes 20 102 109 230 359
wind 427
zooplankton 102
chemostat
growth rates 169
intracellular 169
model 169
nitrogen 169
phytoplankton 169
Chesapeake
advection 42
agencies 18
Agnes 415 421
agrochemicals 455
algae 72 133 140
alkaline phosphatase 468
alkalinity 67 184 293 380 455
ammonia 67 184 293 473
ammonium 298 467
argon 396 397
Bay 18 22 41 42 45 67 72 73 74 79 91 92 133 140 141 156 168 173 184 207 293 296 297 298 301 318 345 346 355 380 396 397 415 417 419 421 422 429 451 455 467 468 469 473 475 485 495 510
benthic 72
bibliography 73 156 345 346 451 475
biomass 133 140 296
boat traffic 455
BOD 495
bubbles 396
carbon 22 168 473 495
Chickahominy 173
chloride 293
chlorine 184 455
chlorophyll 67 79 140 184 296 415 473 495
coliforms 380
conceptual 168
Coriolis 42
CO2 396 397
cycles 91 297
C14 140
DC 380
deterministic 419
detritus 22
DIC 473
diffusion 419 467
dilution 510
DIP 45
directory 73
disease 455
dissolved 207

distribution 293 417
DO 67 72 184 380 495
DOC 473
DOP 469
dredging 318 455
dye 318
energy transfer 72 141
epiphytes 455
Estuary 67 79 133 141 173 380 415 419 467 495 510
eutrophication 73 345 346
fauna 18 455
fertilizer 355
finite difference 41
fisheries 74
flora 18
flux 22
foraminifera 72
growth rates 355
heat 141
Hurricane 415 421
hydrology 41 42 91 141 510
H2S 396
indicator species 417
indices 92
industry 301 380
interstitial 45 207 293 485
iron 45 293 485
James 173 380 495
Ks 468 469
land development 92
linear regression 173
local 297
macrofauna 72
macrophytes 72
management 73 74 429
manganese 207 293
marshes 22
Maryland 380 451
methane 396 397
methods 18 296 485
Michaelis Menton 415
microbes 72 133 141 297 417
microcosms 140
model 41 42 168 207 345 346 415 419 467 510
nanoplankton 296
nitrate 67 298 380 467 473
nitrite 67 298 473
nitrogen 22 67 79 91 297 396 397 415
nutrients 72 79 92 141 168 173 297 355 380 455 473 495
oil 318 455
one dimensional 419
organic 141
organic matter 422
orthophosphate 133 184 469
oxidation rates 485
Patuxent 141 173 380 495
pesticides 380
pH 67 184 207 293 380 455
phaeophytin 473
phosphate 67 184 293 380
phosphomonoester 468
phosphorus 22 79 91 297 415 468 473
phytoplankton 67 72 79 91 141 296 297 298 415 468 469
plants 141
polyphosphate 469
POM 421
Potomac 67 173 380 419 467 495
power plant 141
primary 22 91 140 141 296 473
processes 184
productivity 22 67 91 140 141 296 473
public opinion 429
P32 469
quasi linear 415
radioactivity 345 346
rainfall 297
Rappahannock 173 380 495
redox potential 293
remote sensing 318
resources 345 346 429
Rhode 133
salinity 67 184 422 455
seagrass 355
seasons 173 293 397
secchi disc 422
sediment water 396
sediments 297 301 380 397 417 421
Severn 510
sewage 72 140 301 318 380 417 421 510
silica 293
soil erosion 421

specie key 455
steady state 207
submerged vegetation 455
sulfate 184 293
sulfide 184
suspended solids 417 421 422
Susquehanna 79 173 380 415 495
symposium 297
TDC 473
temperature 67 184 455
tertiary 301
thermal 141
tides 22
trace metals 72 184 380 455
transport 301
turbidity 67 455
turnover rates 469
two dimensional 41 42
uptake rates 133 297
urea 298
vertical distribution 184
vertical transport 297
Virginia 156 380 475
Vm 468 469
wastes 301 380 415
water column 417
water velocity 455
watersheds 92 173 380
wind 422
York 173 380 495
zooplankton 67 72 140 296 297
Chickahominy
Bay 173
Chesapeake 173
Estuary 173
James 173
linear regression 173
nutrients 173
Patuxent 173
Potomac 173
Rappahannock 173
seasons 173
Susquehanna 173
watersheds 173
York 173
Chinhae
Bay 238
disease 238
fertilizer 238
Korea 238
Porphyra 238
primary 238
productivity 238
wastes 238
Chlorella
algae 312
Anabaena 312
carbon 312
CO2 312
growth rates 312
Microcystis 312
Chlorella salina
ammonia 69
nitrate 69
phosphate 69
protein 69
salinity 69
sewage 69
uptake rates 69
chloride
alkalinity 293
ammonia 293
Bay 293
Chesapeake 293
distribution 293
interstitial 293
iron 293
manganese 293
pH 293
phosphate 293
redox potential 293
seasons 293
silica 293
sulfate 293
chlorinated hydrocarbons
benthic 137
Bothnia 137
buoys 37
California 37
ceramic panel substrates 37
dispersion 37
dissolved solids 137
DO 137
economics 37 491
Gulf 137
hydrology 137 491
iron 137
macrofauna 137
management 491
Mediterranean 491

methods 37
microbes 491
nutrients 137 491
Obelia dichtoma 37
oil 137 491
pesticides 137
phosphorus 137
phytoplankton 137
primary 137
productivity 37 137
radioactivity 491
resources 491
Sea 491
sediments 137 491
sewage 37
symposium 137
trace metals 37 137 491
wastes 137
zooplankton 137
chlorine
agrochemicals 455
alkalinity 184 455
ammonia 184
Bay 184 455
boat traffic 455
Chesapeake 184 455
chlorophyll 184
disease 455
DO 184
dredging 455
epiphytes 455
fauna 455
nutrients 455
oil 455
orthophosphate 184
pH 184 455
phosphate 184
processes 184
salinity 184 455
specie key 455
submerged vegetation 455
sulfate 184
sulfide 184
temperature 184 455
trace metals 184 455
turbidity 455
vertical distribution 184
water velocity 455
chlorophyll
Aberdeen 453
abundance 43 113
Agnes 415
Albemarle 43
algae 140
algae bluegreen 215
alkaline phosphatase 470 482
alkalinity 47 67 184
alpha fluorescence 329
ammonia 43 67 184 289 407 473 481
ammonium 113 482
ash 382
ATP 193
Australia 154 424
Bay 64 65 67 79 140 184 288 296 300 322 365 406 415 423 453 470 473 495
Bayou 102
benthic oxygen demand 80
Bight 113
biomass 65 128 140 154 296 519
bloom 80 382 519
BOD 495 519
Broadkill 101
Buzzards 406
C/N 406 482
California 128 155
carbohydrates 193
carbon 70 193 220 382 454 473 482 495
carbon oxygen demand 80
CBOD 407
chemical 102
Chesapeake 67 79 140 184 296 415 473 495
chlorine 184
Chocolate 102
Cochin 391
COD 289
coliforms 407
community structure 174
CO2 220
crude fiber 193
C14 140 382 391 453
Delaware 101
detritus 65 406 424
DIC 473
distribution 113 128 155 470
diurnal 482
diversity 102 155 300

DNA 470
DO 47 67 80 101 102 154 174 184 220 407 495 519
DOC 473
Duwamish 481 519
energetics 365
enzymes 470
Estuary 47 67 79 80 101 154 174 193 215 220 289 350 391 403 407 415 423 481 495 519
fatty acids 382 423
Fladen Ground 453
flushing 155
freshwater 113 519
growth rates 70
Gulf 155
Hacking 424
Hawaii 64 65
Hurricane 415
hydrology 43 154 174 424
H3 154
indicator species 481
indices 102 220 350 470
inorganic 101 407
James 47 495
Japan 322
Kaneohe 64 65
Ks 482
Lagoon 155
Laminaria 70
land development 43
light 174 424
Little River 154
Loch 454
macrophytes 70
management 215
marshes 193
Maryland 193 350
Massachusetts 406
Massartia rotundata 365
methods 296 350 424
Michaelis Menton 415
microbes 220 423 470
microcosms 140
microflagellates 174
microplankton 403
model 64 80 407 415
Murderkill 101
nanoplankton 174 288 296 300 403 406
Narragansett 423
Nevis 454
New Jersey 113 300
New York 113
Newark 300
nitrate 64 67 70 113 128 382 407 454 473 481 482
nitrite 67 113 407 473 481
nitrogen 43 65 67 79 80 101 193 407 415 482
nitrogen oxygen demand 80
North 453 454
North Carolina 43
Nova Scotia 382
NO2 47
NO3 47
nutrients 28 79 80 101 128 215 220 288 289 322 391 473 495
oil 423
Olisthodiscus luteus 482
one dimensional 407
organic 407
organic matter 28
orthophosphate 184
Pagan 407
Parramatta 403
Patuxent 193 350 495
Periphyton 481
pesticides 220
pH 47 67 101 184
phaeophytin 473
phosphate 64 67 113 184 454 481
phosphorus 43 47 79 80 101 154 193 289 382 407 415 470 473 482
phytoplankton 28 43 47 64 65 67 79 80 113 128 154 155 174 288 296 300 322 329 382 407 415 424 519
plankton 288 365
PN 47
POC 65 406 453 454
PON 406
Port 424
Potomac 67 80 215 220 289 495
primary 28 43 64 80 140 154 155 174 288 296 382 391 403 453 473 481
processes 184 453
productivity 28 43 64 67 80 102 140 154 155 174 288 296 365 382

391 403 453 454 473 481
protein 470
Providence 423
P32 154
quasi linear 415
Rappahannock 495
Raritan 288 365
reaeration 80
real time 407
remote sensing 329 350
respiration 28 80 102 365 382
Rockaway Point 113
runoff 424
salinity 43 47 67 101 113 154
174 184 407
Scotland 454
Sea 453 454
seasons 102 300 391 406 453
sediments 289 424
seston 470
sewage 64 140 215 423
silica 113 382
Sound 43
sulfate 184
sulfide 184
suspended solids 113 350 406 423
424
Susquehanna 79 415 495
Taunton 423
Taylor 102
TDC 473
temperature 43 47 67 113 128 154
174 184 391 519
Texas 102
tides 101 155 519
TOC 220
Tokyo 470
trace metals 184
turbidity 43 67
uptake rates 482
Uranouchi 322
vertical distribution 184
Washington 481
wastes 102 220 322 415 481
weight 289
wetlands 101
York 174 495
zooplankton 67 102 140 154 296
391 406
Chlorophyta
algae 430
ammonia 430
ammonium 31
batch culture 144
biomass 144
bloom 144
carbon 144
continuous culture 144
CO2 144
Cyanophyta 144 430
Estuary 31 430
Hudson 31
light 31
Maryland 430
nitrate 31
nitrogen 144
nitrogen fixation 144
pH 144
phosphate 430
phytoplankton 31 144
Potomac 430
secondary 144 430
sewage 144 430
Skeletonema 31
succession 144
uptake rates 31
Chocolate
Bayou 102
chemical 102
chlorophyll 102
diversity 102
DO 102
indices 102
productivity 102
respiration 102
seasons 102
Taylor 102
Texas 102
wastes 102
zooplankton 102
Chowan
Albemarle 450
algae bluegreen 533
ammonia 450
biomass 533
bloom 450 533
C/N 450
DIN 450
diversity 533
DON 450

Estuary 450 533
microbes 533
North Carolina 450 533
phosphorus 533
phytoplankton 450 533
primary 450
productivity 450
seasons 450
Sound 450
uptake rates 533
Chrysaora quinquecirrha
ammonium 38
nitrate 38
pH 38
phosphate 38
polyp 38
remote sensing 38
sea nettle 38
sewage 38
Cladocera
Bay 147
Evadne 310
Evadne tergestina 147
Greece 245 310
Gulf 245 310
indicator species 245 310
industry 245
Malagasy Republic 147
Nosy Be 147
Penilia avirostris 147
phytoplankton 147
rainfall 147
Saronic 245 310
seasons 147 245 310
sewage 245 310
temperature 245 310
tropical 147
wastes 245
zooplankton 147 245
clams
amino acids 225
carbohydrates 225
glycine 225
Mercenaria 225
oil 225
sewage 225
stress 225
taurine 225
clay
adsorption 259
Belgium 535
diatoms 535
dissolved 535
Doboy 385
Estuary 535
flux 385 458
Georgia 385
Harbor 458
Hong Kong 458
inorganic 385
land development 458
microbes 385
nutrients 259
organic 259
pH 259
phosphate 259 385 458
phosphorus 259
P32 385
salinity 259 458
Scheldt 535
seagrass 374
sediment water 259 385
sediments 458 535
sewage 259 374
silica 535
Sound 385
temperature 259
Tolo 458
turbidity 374
uptake rates 259
Virginia 259
Clyde
algae 443
birds 443
BOD 284
DO 284
Enteromorpha 375
Estuary 284 375 443
fauna 375
feeding grounds 443
fisheries 375
freshwater 284
hydrology 284
industry 284
intertidal 443
invertebrates 443
molluscs 375
nutrients 375
predictions 284
sand 375

Scotland 375
sediments 375
sewage 284 375
temperature 284
wastes 284
worms 375
cobalamin
Long Island 509
nutrients 509
orthophosphate 509
phytoplankton 509
seasons 509
Sound 509
thiamine 509
Cochin
chlorophyll 391
C14 391
Estuary 391
nutrients 391
primary 391
productivity 391
seasons 391
temperature 391
zooplankton 391
Cockburn
growth rates 63
Posidonia australis 63
seagrass 63
seasons 63
sediments 63
Sound 63
COD
algae 442
ammonia 289
bacteria 440
Bay 440
benthic 338
benthic oxygen demand 440
BOD 349
Buzzards 440
chlorophyll 289
crustaceans 338
deoxygenation 349
Estuary 289
fisheries 338
industry 442
Japan 338 349
Louisiana 442
marshes 442
microbes 442
model 338
nitrogen 338
nutrients 289 442
oil 338
organic matter 338
phosphorus 289
Potomac 289
respiration 440
runoff 442
Sea 338
sediments 289 338 440
self purification 349
Seto 338
sewage 338 440 442
sulfate 338
sulfide 338
TOC 349 442
TOD 349
wastes 442
weight 289
Codium
algae 497
assay 497
Enteromorpha 497
nutrients 497
coliforms
aerobic 122 183
alkalinity 380
ammonia 407
Bay 23 94 353 380
benthic 542
benthic oxygen demand 221 542
BOD 1 221 290 353
carbon 221 542
CBOD 407
Chesapeake 380
chlorophyll 407
cycles 183
DC 1 380
deoxygenation 542
diversity 94
DO 1 221 290 353 380 407 542
dye 1
economics 94
Estuary 1 183 221 380 407
feces 163
fish 542
fisheries 94
Great Britian 23
gulls 163

Hawaii 94
heat 542
hydrology 183
ice 542
industry 380
inorganic 407
Jamaica 353
James 380
Kaneohe 94
light 542
Liverpool 23
management 183
Maryland 380
methods 542
microbes 122 183
model 1 183 353 407 542
New York 353
nitrate 380 407
nitrite 290 407
nitrogen 94 163 183 353 407
nutrients 1 221 380 542
one dimensional 407
organic 407
organic matter 290
organisms 542
Pagan 407
pathogens 163
Patuxent 380
pesticides 380
pH 290 380
phosphate 380
phosphorus 94 163 353 407
phytoplankton 1 221 407 542
plankton 122
Potomac 1 183 221 380
predictions 183
primary 542
processes 183
productivity 542
Rappahannock 380
rate constants 542
reaeration 542
real time 183 407
recreation 94
red tide 122
salinity 290 353 407
seasons 290
sediments 380
sewage 23 94 122 163 380
shellfish 290
spatial distribution 542
Susquehanna 380
temperature 290
temporal distribution 542
tides 1 183
trace metals 380
tracer 23
Transient Water Quality Network 183
two dimensional 353
Virginia 380
wastes 221 380
watersheds 380
York 380
zooplankton 542
coliphage
copper 505
enterovirus 505
sewage 505
shellfish 505
Columbia
algae mats 357
Estuary 175 357
Eurytemora 175
indicator species 357
light 175
linear regression 175
nitrate 175
Oregon 175
phosphate 175
phytoplankton 175
seasons 175
silica 175
specie key 357
zooplankton 175
Colville
Alaska 7
Estuary 7
fisheries 7
hydrology 7
nutrients 7
primary 7
productivity 7
resources 7
community structure
algae 89 256
animals 89
bacteria 256
Bathyporia sarsi 11
Bay 11

benthic 11 371
birds 256
Capitella capitata 11
carbon 256
chlorophyll 174
crustaceans 256
diversity 88
DO 174
ecocline 371
Estuary 89 174
fish 88 256
foraminifera 256
gradient 371
heat 89
heterotrophic 256
hydrology 174
indicator species 371
indices 371
insects 256
Kiel 11
light 174
macrofauna 11
meiofauna 256
metabolism 88 256
methods 483
microflagellates 174
molluscs 256
nanoplankton 174
nitrogen 256
North Carolina 89
nutrients 88 89
oligochaetes 11
organic enrichment 371
phosphorus 256
phytoplankton 174 256
pond experiment 89 256
primary 174 483
productivity 89 174 256
Pygospio elegans 11
recipient analog 483
recovery 371
respiration 89
salinity 174
seasons 89
secondary 483
sediments 371
sewage 11 89 256 483
South Creek 89
stress 88
succession 371
temperature 89 174
tertiary 483
Texas 88
York 174
zooplankton 88
conceptual
Bay 168
carbon 168
Chesapeake 168
model 168
nutrients 168
conference
amino acids 528
benthic 528
bloom 279
cycles 528
detritus 528
dinoflagellate 279
fish 528
fisheries 528
invertebrates 528
management 528
microbes 528
nitrogen 528
nutrients 528
oil 528
organisms 528
pesticides 528
phosphorus 528
seagrass 528
silica 528
stress 528
trace metals 528
urea 528
wetlands 528
zooplankton 528
Connecticut
aerobic 58
anaerobic 58
assay 58
Copps Brook 58
degradation 58
DOC 58
interstitial 58
metabolism 58
microbes 58
model 58
nutrients 58
organic matter 58
POC 58

sediments 58
tetrazolium salt 58
watersheds 58
continuous culture
algae 160
batch culture 144
biomass 144 160
bloom 144
carbon 116 144
Chlorophyta 144
CO2 144
Cyanophyta 144
N/P 160
nitrogen 144 160
nitrogen fixation 144
nutrients 116 160
pH 144
phytoplankton 116 144
secondary 144
sewage 116 144 160
succession 116 144
toxicity 116
Cook
Alaska 319 320
arctic 319
benthic 319
BOD 320
DO 319
Inlet 319 320
microbes 319
nitrogen 319
organisms 319
pH 319
phosphorus 319
plankton 319
salinity 319
sewage 319 320
silica 319
temperature 320
Copepoda
carbon 195
crustaceans 195
detritus 195
energy transfer 195
Estuary 195
Eurytemora affinis 195
Maryland 195
microbes 195
Patuxent 195
primary 195
productivity 195
Scottlana canadensis 195
wetlands 195
copper
coliphage 505
enterovirus 505
sewage 505
shellfish 505
Copps Brook
aerobic 58
anaerobic 58
assay 58
Connecticut 58
degradation 58
DOC 58
interstitial 58
metabolism 58
microbes 58
model 58
nutrients 58
organic matter 58
POC 58
sediments 58
tetrazolium salt 58
watersheds 58
coral
Bay 182
Hawaii 182
Kaneohe 182
microbes 182
nitrogen fixation 182
secondary 182
sediments 182
sewage 182
Coriolis
advection 42
Bay 42
Chesapeake 42
hydrology 42
model 42
two dimensional 42
Corpus Christi
Bay 372
matrix 372
model 372
nitrogen 372
Texas 372
CO2
aerobic 537
algae 312 432 537

Anabaena 312
argon 396 397
batch culture 144
Bay 396 397
biomass 144 537
bloom 144 432 537
bubbles 396
carbon 144 220 312
Chesapeake 396 397
Chlorella 312
chlorophyll 220
Chlorophyta 144
continuous culture 144
Cyanophyta 144
C14 537
density 537
detritus 537
DO 105 220
Estuary 220
growth rates 312
H2S 396
indices 220
Lagoon 105
macrophytes 537
methane 396 397
microbes 220 537
Microcystis 312
model 105
nitrogen 144 396 397
nitrogen fixation 144
nutrients 220
pesticides 220
pH 105 144 432
phosphorus 432
phytoplankton 144
Potomac 220
seasons 397
secondary 144
sediment water 396
sediments 397 537
sewage 105 144 432
stabilization 105
succession 144
temperature 105
TOC 220
turnover rates 537
uptake rates 537
Vm 537
wastes 105 220
water column 537

crabs
- Bay 231
- biomass 231
- Cancer 139
- eggs 139
- energy transfer 231
- epibiotic fouling 139
- fish 231
- freshwater 231
- Galveston 231
- management 231
- microbes 139
- model 231
- nutrients 139
- productivity 231
- salinity 231
- secondary 231
- shrimp 231
- Texas 231

Craiglin
- benthic 393
- density 393
- DO 171
- fauna 393
- fertilizer 171 393
- fish 171
- flounder 171
- growth rates 171
- Hydrobia ulvae 393
- Loch 171 393
- productivity 393
- sexual maturity 171

Crangon crangon
- black necrosis 2
- Burry Inlet 2
- detergent 2
- DO 2
- Great Britian 2
- microbes 2
- pH 2
- salinity 2
- temperature 2
- trace metals 2

Creek
- carbon 21
- Carter 21
- cycles 21
- marshes 21
- nitrogen 21
- phosphorus 21

primary 21
productivity 21
sediment water 21
Virginia 21
Ware 21
crude fiber
ATP 193
carbohydrates 193
carbon 193
chlorophyll 193
Estuary 193
marshes 193
Maryland 193
nitrogen 193
Patuxent 193
phosphorus 193
crustaceans
algae 256 339
annelids 370
bacteria 256 339
benthic 338 352 370
biomass 339
birds 256 339
Byfjorden 352
calcium 339
carbon 195 256 339
COD 338
community structure 256
Copepoda 195
detritus 195
energy transfer 195
England 370
Estuary 195 352
Eurytemora affinis 195
fish 256 339
fisheries 338
foraminifera 256 339
Gothenburg 352
heterotrophic 256 339
indicator species 352 370
insects 256 339
Japan 338
Kungsbackafjorden 352
laboratory culture 260
Linnhe Eil 370
Loch 370
macrofauna 352
marshes 339
Maryland 195
meiofauna 256 339 352
metabolism 256
microbes 195
model 338
molluscs 256 339 370
nitrogen 256 338 339
oil 338
organic matter 338
Patuxent 195
phosphorus 256 339
phytoplankton 256 339
pond experiment 256 339
primary 195
productivity 195 256 339
pulp mill 370
Saltkallefjord 352
Scottlana canadensis 195
Sea 338
sediments 338
Seto 338
sewage 256 338 339
succession 370
sulfate 338
sulfide 338
Sweden 352
tertiary 339
wetlands 195
zooplankton 352
ctenophores
carbon 362
energy transfer 362
flux 362
microcosms 362
nitrogen 362
nutrients 362
primary 362
productivity 362
Cyanophyta
algae 430
algae bluegreen 254
ammonia 430
batch culture 144
biomass 144
bloom 144
carbon 144
Chlorophyta 144 430
continuous culture 144
CO2 144
Estuary 430
fish kills 254
hosts 254

indicator species 254
Maryland 430
microbes 254
nitrogen 144
nitrogen fixation 144
pH 144
phosphate 430
phytoplankton 144
Potomac 430
Schizothrix calicola 254
secondary 144 430
sewage 144 430
succession 144
viruses 254
cycles
abundance 499
aerobic 183
algae bluegreen 247
amino acids 528
ammonia 247 477
ammonium 129 186 522
animals 186
Bay 91 224 297 499
benthic 224 410 528
biomass 247
BOD 342 477
boundary layer 522
British Columbia 247
California 129 477
carbon 21 342 499 522
Carter 21
chemical 428
Chesapeake 91 297
coliforms 183
conference 528
Creek 21
Delaware 342 477
Delta 477
Denmark 233
detritus 528
DIN 477
diurnal 129
DO 241 342 464 477
Estuary 183 185 186 342 477
fertilizer 464
fish 528
fisheries 528
flux 342
growth rates 522
hydrology 91 183 224 241
industry 464
inorganic 186
invertebrates 528
kelp 522
Ks 522
local 297
Macrocystis 522
macrophytes 247
Malpeque 499
management 183 428 528
marshes 21
metabolism 224
microbes 183 247 297 499 528
mining 464
model 183 342 477
morphology 522
New Jersey 224
New York 410
nitrate 129 186 224
nitrification 410
nitrite 186 477
nitrogen 21 48 91 129 183 185
186 247 297 342 477 499 522 528
North Carolina 185 186
nutrients 186 241 297 342 410
428 522 528
N15 129
oil 528
organic 186
organic matter 410
organisms 410 528
oxidation 233 477
oysters 499
Pamlico 185 186
pesticides 528
phosphate 224 247
phosphorus 21 91 241 247 297 342
464 499 528
phytoplankton 91 129 297 342 477
plants 186
Potomac 183 342 477
predictions 183
primary 21 91 129 185 410 522
processes 183 185 224
productivity 21 91 129 185 410
428 499 522
rainfall 297
Raritan 224
real time 183
reduction 233

runoff 464
Sacramento San Joquin 477
salinity 241
seagrass 528
seasons 186 224
sediment water 21
sediments 186 233 247 297 410
sewage 129 464
silica 528
stochastic 477
stress 528
sulphur 233
symposium 297
tides 183
trace metals 528
Transient Water Quality Network 183
turnover rates 233
uptake rates 129 297
urea 129 186 528
vertical transport 297
Virginia 21
Vm 522
Ware 21
wastes 342 464
water velocity 522
wetlands 528
zooplankton 297 342 477 528

cysts
benthic 10
bloom 10
dinoflagellate 10
Gonyaulax 10
Massachusetts 10
red tide 10
spores 10
toxicity 10

C14
Aberdeen 453
aerobic 537
algae 140 537
algae colonial 152
amino acids 456
ash 382
bacteria 456
bacteria proteolytic 456
Bay 140 453
biomass 140 537
biosorption 543
bloom 382 537
carbohydrates 456
carbon 382
Chesapeake 140
chlorophyll 140 382 391 453
Cochin 391
CO2 537
density 537
detritus 537
Estuary 391
fatty acids 382
fauna 456
fish 543
Fladen Ground 453
fungus 456
heterotrophic 456
indices 456
macrophytes 537
methianine 543
methods 152 456
microbes 456 537
microcosms 140
mucus 152
nitrate 382
North 453
Nova Scotia 382
nutrients 391
oil 456
phosphorus 382
phytoplankton 382 456
POC 453
primary 140 152 382 391 453
processes 453 456
productivity 140 152 382 391 453
pulp mill 456
respiration 382
salinity 456
Sea 453
seasons 391 453
sediments 537
sewage 140 456
silica 152 382
symposium 456
temperature 391
thermal 456
trace metals 456
turnover rates 537
uptake rates 537
urea 543
Vm 537
water column 537

zooplankton 140 391
Damariscotta
benthic 106
DO 106
Estuary 106
fish 106
growth rates 106
invertebrates 106
laboratory culture 106
larvae 106
Maine 106
Penobscot 106
salinity 106
sediments 106
settlement 106
Sheepscot 106
temperature 106
DC
alkalinity 380
Bay 380
BOD 1 283
Chesapeake 380
coliforms 1 380
dispersion coefficient 283
DO 1 283 380
DOD 283
dye 1
Estuary 1 283 380
industry 380
James 380
Maryland 380
model 1 283
nitrate 380
nutrients 1 380
Patuxent 380
pesticides 380
pH 380
phosphate 380
phytoplankton 1
Potomac 1 283 380
Rappahannock 380
sediments 380
sewage 380
Susquehanna 380
tides 1
trace metals 380
Virginia 380
wastes 380
watersheds 380
York 380
decomposition
aerobic 172
ammonium 172
anaerobic 172
ATP 172
Bight 172
calorific content 172
DIC 172
DOC 172
electron transfer 299
energy transfer 299
growth rates 299
microbes 299
New York 172
nitrate 172
nitrite 172
organic matter 299
PC 172
PN 172
redox potential 299
sewage 172
steady state 299
substrates 299
definition
eutrophication 151
degradation
aerobic 58
anaerobic 58
assay 58
Connecticut 58
Copps Brook 58
DOC 58
interstitial 58
metabolism 58
microbes 58
model 58
nutrients 58
organic matter 58
POC 58
sediments 58
tetrazolium salt 58
watersheds 58
dehydrogenase
anaerobic 358
benthic 358
Lake 358
metabolic heat release 358
metabolism 358
microcalorimetry 358
nutrients 358

organic matter 358
organisms 358
oxygen 358
processes 358
Puget 358
sediments 358
Sound 358
Washington 358
Delaware
ammonia 477
benthic 539
bioturbation 539
BOD 109 342 477 523 539
Broadkill 101
California 477
carbon 342
chemical 109
chlorophyll 101
cycles 342 477
Delta 477
DIN 477
DO 101 342 477
economics 134
Estuary 101 109 134 342 411 477 523 539
fauna 539
fisheries 411
flux 342
industry 109 134
inorganic 101
Limnodrilus 539
management 109 411
model 109 342 411 477 523
municipal 109
Murderkill 101
nitrite 477
nitrogen 101 342 477
nonpoint sources 523
North 411
nutrients 101 342
oligochaetes 539
organic 539
oxidation 477
pH 101
phosphorus 101 342
phytoplankton 342 411 477
Potomac 342 477
runoff 134
Sacramento San Joquin 477
salinity 101
Sea 411
sediments 539
sewage 134
stochastic 477
storm loading 134 523
succession 411
tides 101
wastes 109 134 342 539
wetlands 101
zooplankton 342 477
Delta
ammonia 477
BOD 477
California 477
cycles 477
Delaware 477
DIN 477
DO 477
Estuary 477
model 477
nitrite 477
nitrogen 477
oxidation 477
phytoplankton 477
Potomac 477
Sacramento San Joquin 477
stochastic 477
zooplankton 477
denitrification
acetylene 444
activated sludge 514
ammonia 157 190 444
anaerobic 127
Bay 190
Belgium 504
BOD 324
C/N 324
carbon 324
diffusion 127
eutrophic 157
Fiji Island 326
floodwaters 127
inorganic 326
interstitial 504
Japan 190
Louisiana 127
macrophytes 157
Mangoku 190
mangroves 326
microbes 326

model 157 504
nitrate 127 157 444 504
nitrification 157 504 514
nitrite 504
nitrogen 157 326
N15 190
organic 157
organic matter 157 324 504
phytoplankton 157
PON 190
processes 157
redox potential 127
reduction 444
respiration 514
secondary 326
sediments 190 326 444 504
sewage 324 326
Simoda 190
tertiary 326
Tokyo 190
uptake rates 157
Ura 190
zooplankton 157
Denmark
cycles 233
oxidation 233
reduction 233
sediments 233
sulphur 233
turnover rates 233
density
aerobic 537
algae 537
bacteria 246
Bay 198 323
Bengal 323
benthic 393
biomass 537
bloom 537
CO2 537
Craiglin 393
C14 537
detritus 537
dispersion 530
diversity 246
DO 323
dye 530
Estuary 530
fauna 393
fertilizer 393
heterotrophic 246
Hydrobia ulvae 393
hydrology 198 280 530
Loch 393
longitudinal 530
macrophytes 537
microbes 537
mixing 530
model 198 280 530
Narragansett 198
nutrients 323
point sources 530
productivity 393
salinity 198
sediments 246 537
self purification 246
stratification 280
three dimensional 198
three layer 280
turnover rates 537
uptake rates 537
vertical shear 530
Vm 537
water column 537
York 530
density homogeneous
model 258
specified time 258
two dimensional 258
unsteady flow 258
deoxygenation
benthic 542
benthic oxygen demand 542
BOD 349
carbon 542
COD 349
coliforms 542
DO 542
DOC 104
Estuary 104
fish 542
heat 542
ice 542
Japan 349
light 542
methods 542
model 542
nutrients 104 542
organisms 542
Pamlico 104

phytoplankton 542
POC 104
primary 104 542
productivity 104 542
rate constants 542
reaeration 542
respiration 104
self purification 349
spatial distribution 542
temporal distribution 542
TOC 104 349
TOD 349
zooplankton 542
deposition
Belgium 376
bloom 376
detritus 328
diatoms 376
DO 376
Estuary 328 376
hydrology 376
interface salt fresh 376
microbes 328
nutrients 376
processes 328
Rappahannock 328
redox potential 328
salinity 328
Scheldt 376
sediments 328 376
self purification 376
suspended solids 376
trace metals 376
transport 376
detergent
algae bluegreen 335
Baltic 335
benthic 234 335
bibliography 436
black necrosis 2
Burry Inlet 2
Crangon crangon 2
DO 2 148 270 335
dredging 148
energy transfer 335
Estuary 148
fish 335
France 234
Great Britian 2
Gulf 234
indicator species 335
inorganic 413
instruments 436
macroalgae 335
Marseilles 234
methods 436
microbes 2
model 335 436
municipal 413
N/P 413
nitrogen 413
nutrients 270 436
oil 436
organic matter 148 413
organisms 234 335
PC 270
pesticides 436
pH 2
phosphorus 413
phytoplankton 413
plankton 270
PN 270
Posidonia oceanica 234
primary 335
productivity 335
salinity 2 270
Sea 335
seagrass 234
seston 270
sewage 148 234 335
symposium 335
temperature 2 270
Thames 148
trace metals 2 436
wastes 413
zooplankton 335
deterministic
Bay 419
Chesapeake 419
diffusion 419
Estuary 419
model 419
one dimensional 419
Potomac 419
detritus
aerobic 537
algae 537
amino acids 528
Australia 424
Bay 22 65 406

benthic 528
biomass 65 537
bloom 537
Broad River 292
Buzzards 406
C/N 406
carbon 22 192 195
Chesapeake 22
chlorophyll 65 406 424
conference 528
Copepoda 195
CO2 537
crustaceans 195
cycles 528
C14 537
density 537
deposition 328
energy transfer 75 192 195
Estuary 192 195 292 328
Eurytemora affinis 195
fertilizer 292
fish 528
fisheries 528
Florida 292
flux 22
Hacking 424
Hawaii 65
hydrology 424
invertebrates 528
Kaneohe 65
leaves 292
light 424
macrophytes 537
management 528
mangroves 292
marshes 22 75 192
Maryland 192 195
Massachusetts 406
methods 424
microbes 75 195 328 528 537
model 75
nanoplankton 406
nitrogen 22 65 528
nutrients 75 192 528
oil 528
organisms 528
Patuxent 192 195
pesticides 292 528
phosphorus 22 528
phytoplankton 65 424
POC 65 406
PON 406
Port 424
primary 22 192 195
processes 328
productivity 22 192 195
Rappahannock 328
redox potential 328
runoff 424
salinity 328
Scottlana canadensis 195
seagrass 528
seasons 406
sediments 328 424 537
Shark 292
silica 528
Spartina 75
stress 528
suspended solids 406 424
tides 22
trace metals 292 528
turnover rates 537
uptake rates 537
urea 528
Vm 537
water column 537
wetlands 192 195 528
zooplankton 406 528
diagenesis
microbes 502
model 502
nitrogen 502
silica 502
diatoms
ammonia 5
assay 414
Belgium 376 535
benthic 5
biomass 445
bloom 376 414 445
clay 535
deposition 376
dinoflagellate 479
dissolved 535
distribution 153
diversity 197
DO 376
Estuary 376 535
filter feeders 347
flagellates 347

Great Britian 197
growth rates 479
hydrology 376 414
indicator species 197
indices 197
interface salt fresh 376
Japan 445
laboratory culture 5
long term 153
Michaelis Menton 347
microbes 445
model 347
N/P 414
nitrate 5 414
nitrite 5
nitrogen 479
North 153
Norway 414
nutrients 376 445
orthophosphate 5 414
phytoplankton 153 414 479
primary 5 445
productivity 5 445
Scheldt 376 535
Sea 153 445
sediments 376 535
self purification 376
sewage 197 479
silica 347 414 535
suspended solids 376
temperature 153
time constants 347
trace metals 376 414 479
transport 376
Trondheimsfjord 414
winter 445
zooplankton 153 347

DIC
aerobic 172
ammonia 473
ammonium 172
anaerobic 172
ATP 172
Bay 473
Bight 172
calorific content 172
carbon 473
Chesapeake 473
chlorophyll 473
decomposition 172
DOC 172 473
New York 172
nitrate 172 473
nitrite 172 473
nutrients 473
PC 172
phaeophytin 473
phosphorus 473
PN 172
primary 473
productivity 473
sewage 172
TDC 473

Dickinson
Bayou 251
bloom 251
DO 251
fish kills 251
phosphorus 251
phytoplankton 251
sewage 251

diffusion
ammonium 467
anaerobic 127
Bay 419 467
Chesapeake 419 467
denitrification 127
deterministic 419
Estuary 419 467
floodwaters 127
frequency analysis 261
Louisiana 127
model 261 419 467
nitrate 127 467
one dimensional 419
Potomac 419 467
redox potential 127

dilution
Bay 510
Chesapeake 510
Estuary 510
hydrology 510
model 510
Severn 510
sewage 510

DIN
Albemarle 450
ammonia 450 477
Bay 199
bloom 450

BOD 477
C/N 450
California 477
Chowan 450
cycles 477
Delaware 477
Delta 477
DO 477
DON 450
DRP 199
Estuary 450 477
Great Britian 199
Liverpool 199
long term 199
model 477
nitrite 477
nitrogen 199 477
North Carolina 450
oxidation 477
phosphorus 199
phytoplankton 450 477
Potomac 477
primary 450
productivity 450
Sacramento San Joquin 477
seasons 199 450
Sound 450
stochastic 477
zooplankton 477

dinoflagellate
Bay 524
benthic 10
bibliography 13
bloom 10 13 279 524
conference 279
cysts 10
diatoms 479
Fundy 524
Gonyaulax 6 10
Gonyaulax excavata 524
growth rates 479
herring 524
Limacina retroversa 524
Massachusetts 10
nitrogen 479
phytoplankton 479
pteropods 524
red tide 10
sewage 479
spores 10
toxicity 6 10
trace metals 479

DIP
Bay 45
Chesapeake 45
interstitial 45
iron 45

directory
Bay 73
bibliography 73
Chesapeake 73
eutrophication 73
management 73

disease
agrochemicals 455
alkalinity 455
Bay 238 455
benthic 305 356
boat traffic 455
Chesapeake 455
Chinhae 238
chlorine 455
dredging 455
epiphytes 455
fauna 455
fertilizer 238
fish 305 356
Korea 238
macrofauna 356
Mississippi 356
nutrients 455
oil 455
parasites 356
pesticides 356
pH 455
Porphyra 238
primary 238
productivity 238
Puget 305
salinity 455
sewage 305 356
Sound 305
specie key 455
submerged vegetation 455
temperature 455
trace metals 356 455
turbidity 455
Washington 305
wastes 238
water velocity 455

dispersion
buoys 37
California 37
ceramic panel substrates 37
chlorinated hydrocarbons 37
density 530
dye 530
economics 37
Estuary 530
hydrology 530
longitudinal 530
methods 37
mixing 530
model 530
Obelia dichtoma 37
point sources 530
productivity 37
sewage 37
trace metals 37
vertical shear 530
York 530
dispersion coefficient
BOD 283
DC 283
DO 283
DOD 283
Estuary 170 283
model 170 283
Oregon 170
Potomac 283
slack water 170
Yaquina 170
disposal
dredging 531
wetlands 531
dissolved
Bay 207
Belgium 535
bound 3
Chesapeake 207
clay 535
diatoms 535
Estuary 131 535
fertilizer 3
inorganic 131
interstitial 207
manganese 207
Mississippi 131
model 207
nitrate 3
Orinoco 131
pH 207
phosphorus 3
plumes 131
pond experiment 3
P32 3
Savannah 131
Scheldt 535
sediments 3 535
silica 131 535
steady state 207
suspended solids 131
uptake rates 131
dissolved solids
artificial recharge 138
Bayou 313
benthic 137
Bothnia 137
canal 138
chlorinated hydrocarbons 137
DO 137 313
economics 138
Estuary 138
glucose 313
Gulf 137
hydrology 137
iron 137
kinetics 313
macrofauna 137
microbes 313
nitrification 138
nutrients 137 313
oil 137
ozonization 138
pesticides 137
phosphate 313
phosphorus 137
phytoplankton 137
primary 137
productivity 137 313
recycle 138
redox potential 313
sediment water 313
sediments 137
sewage 138
symposium 137
Thames 138
trace metals 137
wastes 137
water supply 138

zooplankton 137
distribution
abundance 113 383
alkaline phosphatase 470
alkalinity 293 383
ammonia 50 293
ammonium 113
assay 383
Bay 71 293 417 470
benthic 269
Bight 113
biomass 128
BOD 71
Burrard 460
California 128 155
carbon 377 449
Chesapeake 293 417
chloride 293
chlorophyll 113 128 155 470
diatoms 153
diversity 155
DNA 470
DO 71
enzymes 470
Estuary 50 309 377 449
fiord 460
flushing 155
freshwater 113
Gulf 155
Harbor 460
hydrology 71
indicator species 269 383 417
indices 125 269 470
Inlet 460
interstitial 293
intertidal 309
invertebrates 383
Irish 309
iron 293
isotope 449
Lagoon 155
Lake 383
long term 153
macrofauna 309
manganese 293
Mersey 309
Michaelis Menton 71
microbes 417 470
Mississippi 125
model 71
New Jersey 113
New York 113
nitrate 50 113 125 128
nitrite 50 113
nitrogen 50 377
North 153
nutrients 50 71 125 128 383
organic 50 269 309
oxygen 377
pH 71 293 383
phosphate 50 113 125 293
phosphorus 470
phytoplankton 71 113 128 153 155 460
plankton 383
Pontchartrain 383
Potomac 377 449
primary 155 383 460
productivity 155 383 460
protein 470
redox potential 293
resources 125
Rockaway Point 113
runoff 383
salinity 50 71 113 383
San Francisco 71
Sea 153 309
seasons 50 71 293 309
sediments 417
seston 470
sewage 417
silica 113 293
silicate 50
Sound 125
St Lawrence 50
succession 460
sulfate 293
suspended solids 113 417
temperature 50 71 113 128 153
tides 155
Tokyo 470
urea 50
Vancouver 460
wastes 309
water column 417
zooplankton 153
diurnal
alkaline phosphatase 482
ammonia 62
ammonium 129 482

biomass 62
C/N 62 482
California 62 129
carbon 482
carbon/chlorophyll 62
chlorophyll 482
cycles 129
DO 93
Estuary 93
Ks 62 482
Maryland 93
nitrate 129 482
nitrogen 62 129 482
nutrients 62
N15 62 129
Olisthodiscus luteus 482
Patuxent 93
phosphorus 482
phytoplankton 62 129
primary 62 93 129
productivity 62 93 129
respiration 93
sewage 62 93 129
uptake rates 129 482
urea 62 129
Vm 62
diversity
abundance 32 120 167 389 472
algae 120
algae bluegreen 533
analysis of variance 395
Anchoa mitchilli 32
annelids 167
bacteria 246
Bay 32 94 300 389
Bayou 102
benthic 9 120 389 395 409 447
bioenhancement 447
biomass 32 167 409 447 533
bloom 533
California 155 447
cannery 447
chemical 102
chlorophyll 102 155 300
Chocolate 102
Chowan 533
coliforms 94
community structure 88
density 246
diatoms 197
distribution 155
DO 102 389 447
economics 94
Estuary 167 389 533
fauna 167 389
Firth of Forth 395
fish 17 32 88 447
fisheries 94
flushing 155
Galveston 32
gastrotrichs 167
Great Britian 120 167 197
Gulf 155
Harbor 447
Hawaii 94
heterotrophic 246
Hobsons 389
indicator species 32 197 472
indices 32 102 197 395
intertidal 17 395
invertebrates 17
Kaneohe 94
Lagoon 9 155
Lebanon 472
long term 120
Los Angeles 447
macrofauna 9 17 395 409
metabolism 88
microbes 167 533
microcosms 364
molluscs 9
nanoplankton 300
nematodes 167
New Jersey 300
Newark 300
nitrogen 94
North Carolina 533
nutrients 88 364 472
oligochaetes 167
organisms 447
phosphorus 94 533
phytoplankton 155 300 472 533
plankton 364 447
polychaetes 167
primary 155
productivity 102 155 364 447
Puget 17
pulp mill 409
recreation 94
reproduction 120

respiration 102
salinity 389
seasons 102 120 300 395
sediments 17 246
self purification 246
sewage 17 94 167 197 447 472
Shannons Index 9
Sound 17
stress 88
succession 409
Taylor 102
Tees 167
Texas 32 88 102
Theora fragilis 389
tides 155
toxicity 32
uptake rates 533
Washington 17
wastes 32 102 120 447
Yarra 389
zooplankton 88 102

DNA
alkaline phosphatase 470
Bay 470
chlorophyll 470
distribution 470
enzymes 470
indices 470
microbes 470
phosphorus 470
protein 470
seston 470
Tokyo 470

Dniester
agriculture 384
canal 384
Estuary 384
fauna 384
industry 384
sewage 384
wastes 384
zooplankton 384

DO
abundance 389
Alaska 319
algae 72 81 216
algae bluegreen 335
alkalinity 47 67 184 380
ammonia 29 67 184 311 314 387 407 477 518
ammonium 394
animals 202 518
Apalachee 278
arctic 319
Australia 154
Baltic 335
Bay 8 67 71 72 184 226 278 323 353 380 387 389 401 495
Bayou 102 251 313 314 315 317
Belgium 376
Bengal 323
benthic 72 106 137 319 335 389 447 542
benthic oxygen demand 80 221 542
bibliography 213
bioenhancement 447
biomass 154 304 332 447 519
black necrosis 2
bloom 80 251 317 376 519
BOD 1 36 71 99 212 221 283 284 290 311 342 353 477 495 519 541
Bothnia 137
Broadkill 101
Burry Inlet 2
California 8 441 447 477
cannery 447
carbon 220 221 342 387 394 495 542
carbon oxygen demand 80
CBOD 407 408
chemical 102
Chesapeake 67 72 184 380 495
chlorinated hydrocarbons 137
chlorine 184
chlorophyll 47 67 80 101 102 154 174 184 220 407 495 519
Chocolate 102
Clyde 284
coliforms 1 221 290 353 380 407 542
community structure 174
Cook 319
CO2 105 220
Craiglin 171
Crangon crangon 2
cycles 241 342 464 477
Damariscotta 106
DC 1 283 380
Delaware 101 342 477
Delta 477

density 323
deoxygenation 542
deposition 376
detergent 2 148 270 335
diatoms 376
Dickinson 251
DIN 477
dispersion coefficient 283
dissolved solids 137 313
distribution 71
diurnal 93
diversity 102 389 447
DOC 311
DOD 283
DON 311
dredging 148
Duwamish 519
dye 1
energy transfer 72 335
Estuary 1 29 47 67 80 81 93 99 101 106 148 154 174 202 212 216 220 221 222 283 284 304 342 376 380 389 407 408 477 495 518 519
Etang de Berre 307
eutrophication 213
fauna 389
fertilizer 171 202 464
fish 106 171 202 278 317 335 447 542
fish kills 251 401
Florida 278 314 317
flounder 171
flux 315 342 387
foraminifera 72
freshwater 222 284 519
Galveston 401
gas bubbles 401
glucose 313
Grays 369
Great Britian 2
growth rates 106 171
Gulf 137
Gymnodinium 317
Harbor 369 447
heat 542
Hobsons 389
Humboldt 8
hydrology 71 97 137 154 174 212 226 241 284 376 441
H3 154
ice 542
indicator species 335
indices 102 220
industry 202 284 380 464
Inlet 319
inorganic 101 407
instruments 272
interface salt fresh 311 376
invertebrates 106
iron 137
Jamaica 353
James 47 380 495
kinetics 313
laboratory culture 106
Lagoon 105
land development 216
larvae 106
light 36 174 542
Little River 154
Loch 171
Los Angeles 447
Louisiana 126
macroalgae 335
macrofauna 72 137
macroinvertebrates 314
macrophytes 72
Maine 106
marshes 126
Maryland 93 304 380
methods 213 272 542
Michaelis Menton 71
microbes 2 72 216 220 313 319 332 541
microcosms 194 387
microflagellates 174
mining 202 464
mixing depth 541
model 1 29 71 80 97 99 105 212 283 335 342 353 407 408 477 542
mucus 401
Murderkill 101
N/P 226
NaCl 36
nanoplankton 174
Narragansett 387
NBOD 408
New Jersey 226
New York 353
nitrate 67 126 226 314 380 394 407

nitrite 67 290 311 407 477
nitrogen 29 67 80 101 194 202 242 319 342 353 387 407 477 541
nitrogen oxygen demand 80
nonpoint sources 541
North Carolina 202
NO2 47
NO3 47
nutrients 1 71 72 80 101 137 216 220 221 222 226 241 270 304 307 313 323 342 376 380 387 394 441 495 518 542
O/P 307
oil 137
one dimensional 407 408
organic 407 541
organic matter 148 290 394
organisms 319 335 447 542
orthophosphate 117 184
oxidation 477
P/N 441
Pagan 407 408
Pamlico 202
Patuxent 93 304 380 495
PC 270
Penobscot 106
pesticides 137 220 380
pH 2 8 47 67 71 101 105 184 290 311 315 319 332 380
phosphate 67 184 202 226 313 314 315 380 394 518
phosphorus 47 80 101 137 154 194 241 242 251 304 319 342 353 387 407 464 541
phytoplankton 1 47 67 71 72 80 137 154 174 194 202 221 251 304 314 317 342 394 407 441 477 519 542
plankton 202 226 270 319 447
PN 47 270
point sources 541
poly B hydroxybutyrate 332
pond experiment 8
Potomac 1 67 80 81 99 216 220 221 222 283 342 380 477 495
predictions 284 541
primary 80 93 137 154 174 202 304 335 441 542
processes 184 315
productivity 67 80 93 102 137 154 174 194 202 304 313 335 441 447 542
profiles 541
Puget 117
pulp mill 278
P32 154
Rappahannock 380 495
Raritan 226
rate constants 542
reaeration 80 542
real time 212 407 408
redox potential 126 313 315
resources 216 222
respiration 80 93 102 441
Rhode Island 387
runoff 216 464 541
Sacramento San Joquin 477
salinity 2 47 67 71 101 106 154 174 184 202 212 226 241 270 290 311 315 319 332 353 389 407 408 441 541
salmonids 8 401
salts 36
San Francisco 71
saturation 401
Scheldt 376
Sea 335
seasons 71 102 226 290 441
secchi disc 441
sediment water 242 313 315 387
sediments 36 106 126 137 242 304 332 376 380 387 541
self purification 376
seston 270
settlement 106
sewage 8 72 93 105 148 202 251 284 319 335 369 380 447 464
sexual maturity 171
Sheepscot 106
shellfish 290
silica 319
soil erosion 541
Sound 117
Southampton 394
spatial distribution 542
stabilization 105
stochastic 99 477
stratification 307
sulfate 184
sulfide 184

surface waters 541
suspended solids 36 376
Susquehanna 380 495
symposium 137 335
Taylor 102
temperature 2 36 47 67 71 105 106 154 174 184 202 226 270 284 290 315 369 394 441 519 541
temporal distribution 542
Texar 314 315 317
Texas 102 401
Thames 29 148
Theora fragilis 389
thermal 213 304 541
tidal average 212
tides 1 81 101 518 519
TOC 220 314
toxicity 317
trace metals 2 72 137 184 213 216 242 311 376 380 387 394
transport 376
turbidity 36 67 541
turnover rates 394
two dimensional 353
upwelling 369
vertical distribution 184
Virginia 212 380 518
viruses 216
Washington 369
wastes 81 102 105 117 137 216 220 221 222 284 317 342 380 447 464
water quality 97
watersheds 380
wetlands 101
Yarra 389
York 174 212 380 495 518
zooplankton 67 72 102 137 154 194 314 335 342 394 477 542

Doboy
clay 385
flux 385
Georgia 385
inorganic 385
microbes 385
phosphate 385
P32 385
sediment water 385
Sound 385

DOC
aerobic 58 172
ammonia 311 473
ammonium 172
anaerobic 58 172
assay 58
ATP 172
Bay 473
Bight 172
BOD 311
C/N 150
calorific content 172
carbon 473
carbonate ion 308
Chesapeake 473
chlorophyll 473
Connecticut 58
Copps Brook 58
decomposition 172
degradation 58
deoxygenation 104
DIC 172 473
DO 311
DON 150 311
Estuary 104
Georgia 150
inorganic 416
interface salt fresh 311
interstitial 58
manganese 416
metabolism 58
microbes 58
model 58
molluscs 308
New York 172
nitrate 172 473
nitrite 172 311 473
nutrients 58 104 416 473
organic matter 58
Pamlico 104
PC 172
pH 308 311
phaeophytin 473
phosphorus 473
phytoplankton 416
PN 172
POC 58 104
primary 104 416 473
productivity 104 416 473
respiration 104
runoff 150

salinity 308 311
Savannah 150
sediments 58
sewage 172 416
Sound 150
TDC 473
tetrazolium salt 58
TOC 104
trace metals 311
watersheds 58

DOD

BOD 283
DC 283
dispersion coefficient 283
DO 283
Estuary 283
model 283
Potomac 283

DOM

Long Island 404
microbes 404
organic aggregates 404
phytoplankton 404
POM 404
seasons 404
Sound 404
zooplankton 404

DON

Albemarle 450
ammonia 176 177 311 450 466
Bay 466
biomass 201 466
bloom 201 450
BOD 311
C/N 150 450
Chowan 450
DIN 450
DO 311
DOC 150 311
DPO 466
Estuary 201 450
excretion rates 466
Georgia 150 176 177
Hawaii 466
hydrology 201
inorganic 201
interface salt fresh 311
Kaneohe 466
marshes 177
metabolism 466
mining 201
nitrate 176 177 201
nitrite 176 177 311
nitrogen 201
North Carolina 450
Pamlico 201
pH 176 311
phosphate 466
phosphorus 201
phytoplankton 201 450
PON 177
pools 177
primary 450
productivity 450
rainfall 176
runoff 150
salinity 311
Savannah 150
seasons 450
sediments 201
size dependent 466
Sound 150 450
succession 201
Tar 201
tidal creek 177
trace metals 311
zooplankton 466

DOP

Bay 469
Chesapeake 469
Ks 469
orthophosphate 469
phytoplankton 469
polyphosphate 469
P32 469
turnover rates 469
Vm 469

DPO

ammonia 466
Bay 466
biomass 466
DON 466
excretion rates 466
Hawaii 466
Kaneohe 466
metabolism 466
phosphate 466
size dependent 466
zooplankton 466

dredging

agencies 14
agrochemicals 455
alkalinity 455
Bay 318 455
bibliography 4
boat traffic 455
British Columbia 512
canal 512
Chesapeake 318 455
chlorine 455
detergent 148
disease 455
disposal 531
DO 148
dye 318
economics 4 498
epiphytes 455
Estuary 148
eutrophication 4
fauna 455
fisheries 96 498
flood control 96
Florida 14
flushing 512
industry 498
land development 96
larvae 107
local 14
Louisiana 96
management 96 498
nutrients 96 455 498 512
oil 4 318 455
organic matter 148
pesticides 4
pH 455
phytoplankton 96
pollution 4
power plant 498
public opinion 498
radioactivity 4
recreation 96
remote sensing 318
resources 498
runoff 96
salinity 455 512
sewage 14 96 148 318
soil erosion 96
specie key 455
state 14
submerged vegetation 455
symposium 498
temperature 455 512
Thames 148
thermal 4
tides 512
toxicity 107
trace metals 4 455
turbidity 455
wastes 512
water velocity 455
wetlands 14 96 531
zooplankton 107
DRP
Bay 199
DIN 199
Great Britian 199
Liverpool 199
long term 199
nitrogen 199
phosphorus 199
seasons 199
dry weight
methods 489
suspended solids 489
Dunaliella
algae 496
assay 496
nutrients 496
Duwamish
ammonia 481 520
biomass 519
bloom 519 520 521
BOD 519
chlorophyll 481 519
DO 519
Estuary 480 481 519 520 521
freshwater 519
hydrology 520 521
indicator species 481
light 521
nitrate 481
nitrite 481
nutrients 480 521
Periphyton 481 521
phosphate 481 520
phytoplankton 519 520 521
primary 481
productivity 481
salt wedge 480
seasons 521

sewage 520
temperature 519
tides 519
Washington 480 481 520
wastes 481
dye
Anacostia 78
Bay 318
BOD 1
Chesapeake 318
coliforms 1
DC 1
density 530
dispersion 530
DO 1
dredging 318
Estuary 1 78 530
FWQA Dynamic 78
hydrology 530
longitudinal 530
Maryland 68
mixing 530
model 1 78 530
nutrients 1
oil 318
outfall diffuser 68
phytoplankton 1
point sources 530
Potomac 1 78
predictions 78
remote sensing 318
salinity 68
sewage 68 318
temperature 68
Thomann 78
tides 1 78
vertical shear 530
York 530
dynamic programming algorithm
Lagrangian multipliers 240
management 240
model 240
east coast
fisheries 77
juveniles 77
salinity 77
temperature 77
zooplankton 77
ecocline
benthic 371
community structure 371
gradient 371
indicator species 371
indices 371
organic enrichment 371
recovery 371
sediments 371
succession 371
Econfina
benthic 540
Estuary 540
macrophytes 540
Tenholloway 540
economics
artificial recharge 138
Bay 94
benthic 508
bibliography 4
buoys 37
California 37
canal 138
ceramic panel substrates 37
chlorinated hydrocarbons 37 491
coliforms 94
Delaware 134
dispersion 37
dissolved solids 138
diversity 94
dredging 4 498
Estuary 134 138 217
eutrophication 4
fisheries 94 494 498
Great Britian 85
Hawaii 94
hydrology 491
industry 134 498 508
Kaneohe 94
management 85 217 491 494 498 508
Mediterranean 491
methods 37
microbes 491
nitrification 138
nitrogen 94
nutrients 217 491 494 498
Obelia dichtoma 37
oil 4 491
organisms 508
ozonization 138
pesticides 4 508

phosphorus 94
plants 508
pollution 4
Potomac 217
power plant 498
productivity 37
public opinion 498 508
radioactivity 4 491
recreation 94 508
recycle 138
resources 491 494 498
runoff 134
Sea 491
sediments 491
sewage 37 94 134 138
storm loading 134
symposium 494 498
tertiary 508
Thames 138
thermal 4
trace metals 4 37 491
wastes 134 508
water supply 138

ecosystem
bibliography 84
land development 84
Puget 84
Sound 84
Washington 84

eggs
Cancer 139
crabs 139
epibiotic fouling 139
microbes 139
nutrients 139

electron transfer
decomposition 299
energy transfer 299
growth rates 299
microbes 299
organic matter 299
redox potential 299
steady state 299
substrates 299

Elizabeth
Estuary 327
Harbor 327
industry 327
James 327
Little Creek 327
Lynnhaven 327
management 327
model 327
Nansemond 327
nonpoint sources 327
Pagan 327
Poquoson 327
predictions 327
sewage 327
wastes 327
York 327

energetics
Bay 365
chlorophyll 365
Massartia rotundata 365
plankton 365
productivity 365
Raritan 365
respiration 365

energy transfer
algae 72
algae bluegreen 335
Baltic 335
Bay 72 141 231 354
benthic 72 335
biomass 231
BOD 348
California 276
carbon 192 195 362
Chesapeake 72 141
Copepoda 195
crabs 231
crustaceans 195
ctenophores 362
decomposition 299
detergent 335
detritus 75 192 195
DO 72 335
electron transfer 299
Estuary 141 192 195
Eurytemora affinis 195
fauna 276
fish 231 335 534
flux 362
foraminifera 72
freshwater 231
Galveston 231
growth rates 299 534
heat 141
hydrology 141 354

indicator species 335
industry 348
intertidal 276
macroalgae 335
macrofauna 72
macrophytes 72 276
management 231
marshes 75 192
Maryland 192 195
metabolism 276 534
microbes 72 75 141 195 299
microcosms 362
model 75 231 335 348 354
nitrogen 362
nutrients 72 75 141 192 362
organic 141
organic matter 299
organisms 335
Patuxent 141 192 195
pesticides 348
phytoplankton 72 141
plants 141
power plant 141
primary 141 192 195 276 335 362
processes 354
productivity 141 192 195 231 276 335 362 534
redox potential 299
salinity 231
San Francisco 354
Scottlana canadensis 195
Sea 335
seasons 276
secondary 231 348
sewage 72 276 335 348
shrimp 231
Spartina 75
steady state 299
stress 534
substrates 299
symposium 335
Texas 231
thermal 141
trace metals 72 348
transport 354
wastes 348
wetlands 192 195
zooplankton 72 335

England
annelids 370
benthic 370
crustaceans 370
indicator species 370
Linnhe Eil 370
Loch 370
molluscs 370
pulp mill 370
succession 370

Enteromorpha
algae 497
assay 497
Clyde 375
Codium 497
Estuary 375
fauna 375
fisheries 375
molluscs 375
nutrients 375 497
sand 375
Scotland 375
sediments 375
sewage 375
worms 375

enterovirus
coliphage 505
copper 505
secondary 439
sediments 439
sewage 439 505
shellfish 505

enzymes
alkaline phosphatase 470
ammonia 165
Bay 470
chlorophyll 470
distribution 470
DNA 470
indices 470
methods 165
microbes 470
percolator 165
phosphorus 470
protein 470
sediments 165
seston 470
sulfate 165
Tokyo 470
urea 165

epibiotic fouling
Cancer 139

crabs 139
eggs 139
microbes 139
nutrients 139
epiphytes
agrochemicals 455
alkalinity 455
Bay 455
boat traffic 455
Chesapeake 455
chlorine 455
disease 455
dredging 455
fauna 455
nutrients 455
oil 455
pH 455
salinity 455
specie key 455
submerged vegetation 455
temperature 455
trace metals 455
turbidity 455
water velocity 455
Estuary
abundance 167 389
Acartia 227
aerobic 183
Agnes 415
agriculture 218 384
Aisne 35
Alaska 7
Albemarle 450
algae 81 87 89 119 133 216 430 443
algae bluegreen 66 215 218 533
algae mats 33 130 357
alkalinity 47 67 380
ammonia 29 50 67 203 204 289 407 430 450 477 481 518 520
ammonium 31 186 467
Anacostia 78
animals 89 186 202 518
annelids 167
artificial recharge 138
ATP 135 193 434
Australia 154
bacteria attached 164
bacteria free 164
Balanus 227
barnacles 507
Bay 67 79 133 141 173 227 380 389 402 415 419 423 467 495 510
Bayou 181
Belgium 376 535
benthic 33 87 106 119 352 389 539 540
benthic oxygen demand 33 80 221
bibliography 30 124
biomass 66 133 154 167 201 203 304 336 434 519 533
bioturbation 539
birds 443
bloom 80 201 204 227 376 450 519 520 521 533
BOD 1 99 109 212 221 283 284 342 477 495 519 523 539
Broad River 292
Broadkill 101
Bush 373
Byfjorden 352
C/N 450
California 477
canal 138 384
carbohydrates 193
carbon 27 35 135 181 192 193 195 220 221 342 377 449 495
carbon oxygen demand 80
carbon/chlorophyll 434
CBOD 407 408
chemical 109
Chesapeake 67 79 133 141 173 380 415 419 467 495 510
Chickahominy 173
chlorophyll 47 67 79 80 101 154 174 193 215 220 289 350 391 403 407 415 423 481 495 519
Chlorophyta 31 430
Chowan 450 533
clay 535
Clyde 284 375 443
Cochin 391
COD 289
coliforms 1 183 221 380 407
Columbia 175 357
Colville 7
community structure 89 174
Copepoda 195
CO2 220
crude fiber 193

crustaceans 195 352
Cyanophyta 430
cycles 183 185 186 342 477
C14 391
Damariscotta 106
DC 1 283 380
Delaware 101 109 134 342 411 477 523 539
Delta 477
density 530
deoxygenation 104
deposition 328 376
detergent 148
deterministic 419
detritus 192 195 292 328
diatoms 376 535
diffusion 419 467
dilution 510
DIN 450 477
dispersion 530
dispersion coefficient 170 283
dissolved 131 535
dissolved solids 138
distribution 50 309 377 449
diurnal 93
diversity 167 389 533
Dniester 384
DO 1 29 47 67 80 81 93 99 101 106 148 154 174 202 212 216 220 221 222 283 284 304 342 376 380 389 407 408 477 495 518 519
DOC 104
DOD 283
DON 201 450
dredging 148
Duwamish 480 481 519 520 521
dye 1 78 530
Econfina 540
economics 134 138 217
Elizabeth 327
energy transfer 141 192 195
Enteromorpha 375
Eurytemora 175 227
Eurytemora affinis 195
eutrophication 124
factorial productivity 367
fatty acids 423
fauna 87 167 375 384 389 539
feeding grounds 443
fertilizer 202 204 292
fish 106 202
fisheries 7 124 375 411
Florida 181 292 402
flushing 218
flux 342
France 35
freshwater 204 219 222 284 402 519
FWQA Dynamic 78
gastrotrichs 167
glucose 164
Gothenburg 352
Great Britian 119 167
Grevelingen 336
growth rates 106
Harbor 327
heat 89 141
history 158
Hobsons 389
Hudson 31 209 218
Humber 164
Hurricane 415
hydrology 7 87 90 124 141 154 174 183 201 212 284 376 510 520 521 530
H3 154
indicator species 352 357 481
indices 220 350
industry 109 119 134 202 284 327 380 384
inorganic 27 101 131 181 186 201 203 407 506
interface salt fresh 376
intertidal 309 443
invertebrates 106 443
Ireland 130
Irish 309
iron 492 493
isopleths 223
isotope 449
James 27 30 47 173 327 380 495
Kungsbackafjorden 352
laboratory culture 106
Laita 98
land development 209 216
larvae 106
latitudinal gradients 227
leaves 292
light 31 174 175 336 521
Limnodrilus 539

linear regression 173 175
Little Creek 327
Little River 154
longitudinal 530
Louisiana 402
Lynnhaven 327
macrofauna 309 352
macrophytes 103 540
Maine 106
management 53 109 183 209 215 217 327 402 411
mangroves 292
marshes 158 192 193 507
Maryland 93 192 193 195 304 350 380 430
Massachusetts 82
meiofauna 352
Mersey 309
methods 35 135 249 350 426 493
Michaelis Menton 415
microbes 27 133 135 141 167 183 195 203 216 220 328 423 533
microflagellates 174
microplankton 403
mineralization 164
mining 66 87 90 201 202 203
Mississippi 131
mixing 530
model 1 27 29 33 78 80 98 99 109 170 183 212 223 255 283 327 341 342 407 408 411 415 419 467 477 478 507 510 523 530
molluscs 375
mud flats 130
municipal 109
Murderkill 101
mussels 507
nanoplankton 174 403
Nansemond 327
Narragansett 227 423
NBOD 408
nematodes 167
Netherlands 336
Neuse 204
New Jersey 227 426
New York 426
Newport 135
nitrate 27 31 50 67 82 143 175 186 201 203 204 218 219 380 407 467 481
nitrification 138
nitrite 27 50 67 186 219 407 477 481
nitrogen 29 35 50 66 67 79 80 87 101 181 183 185 186 193 201 202. 342 377 407 415 477 478 506
nitrogen oxygen demand 80
nonpoint sources 223 327 523
North 411
North Carolina 89 90 135 185 186 202 203 204 402 450 492 493 533
North Inlet 507
NO2 47
NO3 47
nutrients 1 7 50 79 80 82 89 101 104 130 141 143 173 186 192 203 214 215 216 217 218 220 221 222 223 227 249 289 304 336 341 342 375 376 380 391 402 478 480 495 518 521
oil 423
oligochaetes 167 539
one dimensional 255 407 408 419
Oregon 33 170 175
organic 27 50 130 135 141 186 309 407 506 539
organic matter 148 164 227 474
Orinoco 131
orthophosphate 133
oxidation 477
oxidation rates 35
oxygen 377
oysters 507
ozonization 138
Pagan 327 407 408
Palm 402
Pamlico 66 87 90 103 104 185 186 201 202 203 492 493
Parramatta 403
Patuxent 93 141 173 192 193 195 304 350 380 495
Pb210 158
Penobscot 106
Periphyton 481 521
pesticides 220 292 380
pH 47 67 101 380
phosphate 27 50 67 82 143 175 181 202 203 218 219 380 430 481 492 518 520
phosphorus 47 66 79 80 87 90 101

154 181 193 201 204 223 289 304 342 407 415 478 493 533
phytoplankton 1 27 31 47 66 67 79 80 82 87 90 141 154 174 175 201 202 203 204 221 227 304 341 342 367 407 411 415 434 450 477 478 506 507 519 520 521 533
Pines 82
plankton 202
plants 141 186
plumes 131
plutonium 158
PN 47
POC 104
point sources 218 530
polychaetes 167
pond experiment 89
pool experiment 66
populations mixed 367
populations single 367
Poquoson 327
Portugal 474
Potomac 1 53 67 78 80 81 99 173 183 214 215 216 217 218 219 220 221 222 223 255 283 289 341 342 377 380 419 430 449 467 477 478 495
power plant 141
predictions 27 78 183 284 327 373
primary 7 80 93 104 124 141 154 174 181 185 192 195 202 304 336 367 391 403 450 481 507
processes 27 183 185 223 328 506 507
productivity 7 67 80 89 93 104 124 141 154 174 181 185 192 195 202 304 336 367 391 403 450 481 507
profiles 214
Providence 423
pulp mill 98
P32 154
quasi linear 415
radioactivity 402
Rangia 90
Rappahannock 173 328 380 495
Raritan 227 426
reaeration 80
real time 183 212 407 408
records 158
recreation 82
recycle 138
redox potential 328
remote sensing 350
resources 7 209 216 222
respiration 80 89 93 104
Rhode 133
Rhode Island 227
Rogerstown 130
runoff 134 143 216 223 402
Sacramento 341
Sacramento San Joquin 477
Sado 474
salinity 33 47 50 67 90 101 106 154 174 202 204 212 227 328 389 407 408 492
salmonids 98
salt wedge 480
Saltkallefjord 352
salts 143
sampling frequency 249
sand 375
Santee 402
Savannah 131 158
Scheldt 376 535
Schofield 27
Scotland 375
Scottlana canadensis 195
Sea 309 411
seasons 50 89 103 135 173 175 186 227 309 391 450 506 521
secondary 430
sediment water 181
sediments 33 90 106 135 158 186 201 219 289 304 328 375 376 380 492 493 535 539
Seine 35
self purification 376
settlement 106
Severn 510
sewage 27 82 89 93 119 134 138 148 167 202 204 215 218 219 284 327 375 380 384 423 430 510 520
Shark 292
Sheepscot 106
silica 131 175 535
silicate 50
Skeletonema 31 367
slack water 170

Sound 450
South Carolina 402
South Creek 89
spatial distribution 219 223 426
specie key 357
Squamish 249
St Lawrence 50 124 434
stochastic 27 99 255 477
storm loading 134 523
Suagus 82
succession 201 367 411
sulfide 33
suspended solids 124 131 164 350 376 423 492
Susquehanna 79 173 380 415 495
swamps 402
Sweden 352
symposium 341
Tagus 474
Tar 201
Taunton 423
Tees 119 167
temperature 27 35 47 50 67 89 106 154 174 202 284 391 474 519
temporal distribution 219 223 426
Tenholloway 540
Texar 181
Thames 29 138 143 148
Theora fragilis 389
thermal 141 304
Thomann 78
tidal average 212
tides 1 33 78 81 101 183 507 518 519
time dependent 255
TKN 219
TOC 104 220
trace metals 124 216 292 376 380 426
Transient Water Quality Network 183
transport 223 376
turbidity 67
Tyne 119
Ulva 82
United Kingdom 143
uptake rates 31 90 131 133 533
urea 50 186
Vellar 506
vertical shear 530
Virginia 27 212 227 380 518
viruses 216
Washington 480 481 520
wastes 66 81 90 109 119 130 134 143 204 216 218 220 221 222 223 227 284 309 327 342 380 384 415 481 539
water column 507
water supply 138
water velocity 336
watersheds 173 219 380
Wear 119
weight 289
wetlands 101 192 195 402
worms 375
Yaquina 33 170
Yarra 389
yeast 474
York 173 174 212 227 327 367 380 495 518 530
zooplankton 67 87 154 175 227 341 342 352 384 391 477
Zostera marina 336
Etang de Berre
biomass 306
bloom 306
DO 307
France 306
hydrology 306
nutrients 306 307
O/P 307
organic matter 306
plankton 306
stratification 307
euglenoid
Aquaforte 145
Canada 145
Harbor 145
indicator species 145
nanoplankton 145
phytoplankton 145
secchi disc 145
sewage 145
St Johns 145
Euphaussid furcilia
bloom 363
Calanus pacificus 363
Chaetoceros 363
feeding rates 363

nanoplankton 363
phytoplankton 363
productivity 363
Pseudocalanus minutus 363
zooplankton 363
Eurytemora
Acartia 227
Balanus 227
Bay 227
bloom 227
Columbia 175
Estuary 175 227
latitudinal gradients 227
light 175
linear regression 175
Narragansett 227
New Jersey 227
nitrate 175
nutrients 227
Oregon 175
organic matter 227
phosphate 175
phytoplankton 175 227
Raritan 227
Rhode Island 227
salinity 227
seasons 175 227
silica 175
Virginia 227
wastes 227
York 227
zooplankton 175 227
Eurytemora affinis
carbon 195
Copepoda 195
crustaceans 195
detritus 195
energy transfer 195
Estuary 195
Maryland 195
microbes 195
Patuxent 195
primary 195
productivity 195
Scottlana canadensis 195
wetlands 195
eutrophic
ammonia 157
chemical 20
denitrification 157
Harbor 20
hydrology 20
macrophytes 157
microbes 20
model 157
nitrate 157
nitrification 157
nitrogen 157
organic 157
organic matter 157
phytoplankton 157
plankton 20
processes 157
uptake rates 157
wastes 20
zooplankton 157
eutrophication
Bay 73 345 346
bibliography 4 15 51 55 56 57 73 124 211 213 250 263 264 265 266 267 268 325 344 345 346 435 457 532
Chesapeake 73 345 346
definition 151
directory 73
DO 213
dredging 4
economics 4
Estuary 124
fisheries 124
hydrology 124 250 263 264 265 266 267 268
industry 211 457
land development 56 57
management 73 325 435
methods 213 435
model 250 263 264 265 266 267 268 345 346
oil 4 211 344
pesticides 4 344 435
pollution 4
primary 124
productivity 124
radioactivity 4 345 346
remote sensing 211
resources 56 57 211 345 346
sewage 15
St Lawrence 124
suspended solids 124
thermal 4 211 213 250 263 264

265 266 267 268 344 435
trace metals 4 124 213 435
United Kingdom 15 51
Evadne
Cladocera 310
Greece 310
Gulf 310
indicator species 310
Saronic 310
seasons 310
sewage 310
temperature 310
Evadne tergestina
Bay 147
Cladocera 147
Malagasy Republic 147
Nosy Be 147
Penilia avirostris 147
phytoplankton 147
rainfall 147
seasons 147
tropical 147
zooplankton 147
exchange diffusion
ammonia 123
methods 123
nitrate 123
phosphate 123
secondary 123
wastes 123
excretion rates
ammonia 466
Bay 466
biomass 466
DON 466
DPO 466
Hawaii 466
Kaneohe 466
metabolism 466
phosphate 466
size dependent 466
zooplankton 466
factorial productivity
Estuary 367
phytoplankton 367
populations mixed 367
populations single 367
primary 367
productivity 367
Skeletonema 367
succession 367
York 367
fatty acids
ash 382
Bay 423
bloom 382
carbon 382
chlorophyll 382 423
C14 382
Estuary 423
microbes 423
Narragansett 423
nitrate 382
Nova Scotia 382
oil 423
phosphorus 382
phytoplankton 382
primary 382
productivity 382
Providence 423
respiration 382
sewage 423
silica 382
suspended solids 423
Taunton 423
fauna
abundance 167 389
agencies 18
agriculture 384
agrochemicals 455
algae 87
alkalinity 455
amino acids 456
ammonia 388
annelids 167
Australia 388
bacteria 456
bacteria proteolytic 456
Bay 18 388 389 455
benthic 87 388 389 393 539
biomass 167
bioturbation 539
boat traffic 455
BOD 539
California 276
canal 384
carbohydrates 456
Chesapeake 18 455
chlorine 455
Clyde 375

Craiglin 393
C14 456
Delaware 539
density 393
disease 455
diversity 167 389
Dniester 384
DO 389
dredging 455
energy transfer 276
Enteromorpha 375
epiphytes 455
Estuary 87 167 375 384 389 539
fertilizer 393
fisheries 375
flora 18
fungus 456
gastrotrichs 167
Great Britian 167
heterotrophic 456
Hobsons 389
Hydrobia ulvae 393
hydrology 87
indices 456
industry 384
intertidal 276
Limnodrilus 539
Loch 393
macrophytes 276
metabolism 276
methods 18 456
microbes 167 456
mining 87
molluscs 375
nematodes 167
nitrogen 87
nutrients 375 388 455
oil 455 456
oligochaetes 167 539
organic 539
Pamlico 87
pH 455
phosphorus 87
phytoplankton 87 456
polychaetes 167
Port Phillip 388
primary 276
processes 456
productivity 276 393
pulp mill 456
salinity 388 389 455 456
sand 375
Scotland 375
seasons 276
sediments 375 388 539
sewage 167 276 375 384 388 456
sewage treatment farm 388
specie key 455
submerged vegetation 455
symposium 456
Tees 167
temperature 455
Theora fragilis 389
thermal 456
trace metals 455 456
turbidity 455
wastes 384 539
water velocity 455
Werribee 388
worms 375
Yarra 389
zooplankton 87 384
feces
coliforms 163
gulls 163
nitrogen 163
pathogens 163
phosphorus 163
sewage 163
federal
local 484
management 484
state 484
feed forward
feedback 462
model 462
self adaptation 462
self organization 462
feedback
feed forward 462
model 462
self adaptation 462
self organization 462
feeding grounds
algae 443
birds 443
Clyde 443
Estuary 443
intertidal 443
invertebrates 443

feeding rates
bloom 363
Calanus pacificus 363
Chaetoceros 363
Euphaussid furcilia 363
nanoplankton 363
phytoplankton 363
productivity 363
Pseudocalanus minutus 363
zooplankton 363
fertilizer
agriculture 282 517
ammonia 204 273
animals 202
Bay 238 355
benthic 393
bloom 204
bound 3
Broad River 292
Chesapeake 355
Chinhae 238
Craiglin 171 393
cycles 464
density 393
detritus 292
disease 238
dissolved 3
DO 171 202 464
Estuary 202 204 292
fauna 393
fish 171 202
flood control 517
Florida 292
flounder 171
freshwater 204
growth rates 171 355
Hydrobia ulvae 393
hydrology 517
industry 202 361 464 517
ion exchange 273
Korea 238
land development 517
leaves 292
Loch 171 393
mangroves 292
mining 202 464
Neuse 204
nitrate 3 204
nitrogen 202
North Carolina 202 204 517
nutrients 282 355 517
Pamlico 202
pesticides 292 517
phosphate 202 273 361
phosphorus 3 204 464
phytoplankton 202 204 361
plankton 202
pond experiment 3
Porphyra 238
primary 202 238 361
productivity 202 238 361 393
P32 3
recreation 517
red tide 361
resources 517
runoff 464
salinity 202 204
seagrass 355
secondary 273
sediments 3
sewage 202 204 273 464
sexual maturity 171
Shark 292
temperature 202
trace metals 292
wastes 204 238 282 464
watersheds 517
Fiji Island
denitrification 326
inorganic 326
mangroves 326
microbes 326
nitrogen 326
secondary 326
sediments 326
sewage 326
tertiary 326
filter feeders
diatoms 347
flagellates 347
Michaelis Menton 347
model 347
silica 347
time constants 347
zooplankton 347
finite difference
Bay 41
Chesapeake 41
hydrology 41
model 34 41

one dimensional 34
two dimensional 41
fiord
Burrard 460
distribution 460
Harbor 460
Inlet 460
phytoplankton 460
primary 460
productivity 460
succession 460
Vancouver 460
Firth of Forth
analysis of variance 395
benthic 395
diversity 395
indices 395
intertidal 395
macrofauna 395
seasons 395
fish
abundance 32
algae 256 339
algae bluegreen 335
amino acids 528
ammonia 44
Anchoa mitchilli 32
animals 202
Apalachee 278
bacteria 256 339
Baltic 335
Bay 32 231 278 392
Bayou 317
benthic 106 305 335 356 447 528 542
benthic oxygen demand 542
Bight 121
bioaccumulation 121
bioenhancement 447
biomass 32 231 339 447
biosorption 543
birds 256 339
bloom 317
calcium 339
California 447
cannery 447
carbon 256 339 542
Chaetodon miliaris 392
chemical 516
coliforms 542
community structure 88 256
conference 528
crabs 231
Craiglin 171
crustaceans 256 339
cycles 528
C14 543
Damariscotta 106
deoxygenation 542
detergent 335
detritus 528
disease 305 356
diversity 17 32 88 447
DO 106 171 202 278 317 335 447 542
energy transfer 231 335 534
Estuary 106 202
fertilizer 171 202
fisheries 528
Florida 278 317
flounder 171
food processing 516
foraminifera 256 339
freshwater 231
Galveston 32 231
growth rates 106 171 392 534
Gymnodinium 317
Harbor 447
Hawaii 392
heat 542
heterotrophic 256 339
hydrology 515
ice 542
indicator species 32 121 335
indices 32
industry 202 516
insects 256 339
intertidal 17
invertebrates 17 106 528
Kaneohe 392
Kiel 121
laboratory culture 106
larvae 106
light 542
Loch 171
Los Angeles 447
macroalgae 335
macrofauna 17 356
Maine 106
management 231 515 528

marshes 339
meiofauna 256 339
metabolism 88 256 534
methianine 543
methods 542
microbes 516 528
mining 202 513
Mississippi 356
model 231 335 515 542
molluscs 256 339
mussels 121
nitrogen 202 256 339 528
North Carolina 202
Norway 121
nutrients 88 515 516 528 542
oil 121 513 528
Oregon 516
organisms 335 447 528 542
Pamlico 202
parasites 356
Penobscot 106
pesticides 356 513 528
pH 44
phosphate 202
phosphorus 256 339 528
phytoplankton 202 256 317 339
515 542
plankton 202 447
pond experiment 256 339
primary 202 335 515 542
productivity 202 231 256 335 339
447 515 534 542
Puget 17 305 515
pulp mill 278 513
radioactivity 513 516
rate constants 542
reaeration 542
reproduction 392
resources 516
runoff 513
salinity 44 106 202 231
Sea 335
seagrass 528
secondary 231
sediments 17 106
settlement 106
sewage 17 202 256 305 335 339
356 392 447 513 516
sexual maturity 171
Sheepscot 106
shrimp 231
silica 528
Sound 17 305 515
spatial distribution 542
Sphaerotilus 516
stress 88 528 534
succession 515
symposium 335
temperature 44 106 202
temporal distribution 542
tertiary 339
Texar 317
Texas 32 88 231
thermal 513 516
three dimensional 515
toxicity 32 317
trace metals 356 516 528
trophic levels 515
urea 528 543
Washington 17 305 515
wastes 32 317 447 513
wetlands 528
zooplankton 88 335 392 528 542
fish kills
algae bluegreen 254
Bay 401
Bayou 251
bloom 251
Cyanophyta 254
Dickinson 251
DO 251 401
Galveston 401
gas bubbles 401
hosts 254
indicator species 254
microbes 254
mucus 401
phosphorus 251
phytoplankton 251
salmonids 401
saturation 401
Schizothrix calicola 254
sewage 251
Texas 401
viruses 254
fisheries
Alaska 7
amino acids 528
ATP 465
Barataria 95

Basin 95
Bay 74 94 465 488
benthic 338 528
bibliography 124
C/N 465
Chesapeake 74
Clyde 375
COD 338
coliforms 94
Colville 7
conference 528
crustaceans 338
cycles 528
Delaware 411
detritus 528
diversity 94
dredging 96 498
east coast 77
economics 94 494 498
Enteromorpha 375
Estuary 7 124 375 411
eutrophication 124
fauna 375
fish 528
flood control 96
Hawaii 94
hydrology 7 124
industry 488 498
invertebrates 528
Japan 338 488
juveniles 77
Kaneohe 94
land development 96
Louisiana 95 96
management 74 96 291 398 411 494 498 528
methods 465
microbes 528
model 338 411
molluscs 375
nitrogen 94 338 528
North 411
nursery grounds 95
nutrients 7 95 96 375 465 494 498 528
oil 338 528
organic matter 338
organisms 528
PC 465
pesticides 528
phosphorus 94 528
phytoplankton 96 411
PN 465
power plant 498
primary 7 124 465
productivity 7 124 465
public opinion 498
pulp mill 488
recreation 94 96
resources 7 398 494 498
runoff 96 465
salinity 77 95
sand 375
Scotland 375
Sea 338 411
seagrass 528
sediments 338 375
Seto 338
sewage 94 96 338 375 488
silica 528
soil erosion 96
St Lawrence 124
St Margaret 465
stress 528
succession 411
sulfate 338
sulfide 338
Suruga 488
suspended solids 124 465
symposium 494 498
temperature 77
trace metals 124 528
urea 528
wastes 488
wetlands 95 96 528
worms 375
zooplankton 77 528
Fladen Ground
Aberdeen 453
Bay 453
chlorophyll 453
C14 453
North 453
POC 453
primary 453
processes 453
productivity 453
Sea 453
seasons 453
flagellates

ATP 295
Basin 295
Bedford 295
carbohydrates 295
carbon 295
diatoms 347
filter feeders 347
Michaelis Menton 347
model 347
particulate matter 295
phytoplankton 295
protein 295
silica 347
time constants 347
zooplankton 295 347
flood control
agriculture 517
dredging 96
fertilizer 517
fisheries 96
hydrology 517
industry 517
land development 96 517
Louisiana 96
management 96
North Carolina 517
nutrients 96 517
pesticides 517
phytoplankton 96
recreation 96 517
resources 517
runoff 96
sewage 96
soil erosion 96
watersheds 517
wetlands 96
floodwaters
anaerobic 127
denitrification 127
diffusion 127
Louisiana 127
nitrate 127
redox potential 127
flora
agencies 18
Bay 18
Chesapeake 18
fauna 18
methods 18
Florida
agencies 14
ammonia 314
Apalachee 191 278
Bay 191 278 402 427 433
Bayou 181 314 316 317
benthic 191 433
Biscayne 427
bloom 317
Broad River 292
budget 316
carbon 181
chemical 427
detritus 292
DO 278 314 317
dredging 14
Estuary 181 292 402
fertilizer 292
fish 278 317
free surface 427
freshwater 402
Gymnodinium 317
Hillsborough 433
indicator species 191
inorganic 181
invertebrates 191 433
leaves 292
local 14
Louisiana 402
macroinvertebrates 314
management 402
mangroves 292
model 427
mud flats 191
nitrate 314
nitrogen 181 316
North Carolina 402
nutrients 402
oyster reefs 191
Palm 402
pesticides 292
phosphate 181 314
phosphorus 181 316
phytoplankton 314 317
predictions 433
primary 181
processes 427
productivity 181
pulp mill 191 278
radioactivity 402
runoff 402

Santee 402
seagrass 191
sediment water 181
sediments 427 433
sewage 14 433
Shark 292
South Carolina 402
state 14
swamps 402
tertiary 433
Texar 181 314 316 317
three dimensional 427
time dependent 427
TOC 314
toxicity 317
trace metals 292
transport 427
wastes 191 317
wetlands 14 402
wind 427
zooplankton 314

flounder
Craiglin 171
DO 171
fertilizer 171
fish 171
growth rates 171
Loch 171
sexual maturity 171

flushing
agriculture 218
algae bluegreen 218
British Columbia 512
California 155
canal 512
chlorophyll 155
distribution 155
diversity 155
dredging 512
Estuary 218
Gulf 155
Hudson 218
indices 437
Lagoon 155
marina 437
model 437
nitrate 218
nomogram 437
nutrients 218 512
phosphate 218
phytoplankton 155
point sources 218
Potomac 218
primary 155
productivity 155
salinity 512
sediments 437
sewage 218
temperature 512
tides 155 512
wastes 218 512

flux
ammonia 178 387
Bay 22 178 366 379 387
Bayou 315
benthic 178
BOD 342
California 187
carbon 22 342 362 387
chambers 178
Chesapeake 22
clay 385 458
ctenophores 362
cycles 342
Delaware 342
detritus 22
DO 315 342 387
Doboy 385
energy transfer 362
Estuary 342
Georgia 385
Harbor 458
Hong Kong 458
inorganic 178 385
land development 458
marshes 22
microbes 385
microcosms 362 379 387
model 342 366
Narragansett 178 379 387
negentropy 366
nitrate 178
nitrite 178
nitrogen 22 187 342 362 387
nutrients 342 362 387
pH 315
phosphate 178 315 385 458
phosphorus 22 187 342 379 387
phytoplankton 187 342
plankton 366

Potomac 342
primary 22 187 362
processes 315
productivity 22 187 362
P32 385
Raritan 366
redox potential 315
Rhode Island 178 387
salinity 315 458
sediment water 178 315 379 385 387
sediments 187 387 458
silica 187
Sound 385
temperature 178 315
Texar 315
tides 22
Tolo 458
trace metals 387
wastes 342
zooplankton 342

food processing
chemical 516
fish 516
industry 516
microbes 516
nutrients 516
Oregon 516
radioactivity 516
resources 516
sewage 516
Sphaerotilus 516
thermal 516
trace metals 516

foraminifera
algae 72 256 339
bacteria 256 339
Bay 72
benthic 72
biomass 339
birds 256 339
calcium 339
carbon 256 339
Chesapeake 72
community structure 256
crustaceans 256 339
DO 72
energy transfer 72
fish 256 339
heterotrophic 256 339
insects 256 339
macrofauna 72
macrophytes 72
marshes 339
meiofauna 256 339
metabolism 256
microbes 72
molluscs 256 339
nitrogen 256 339
nutrients 72
phosphorus 256 339
phytoplankton 72 256 339
pond experiment 256 339
productivity 256 339
sewage 72 256 339
tertiary 339
trace metals 72
zooplankton 72

France
Aisne 35
benthic 234
biomass 306
bloom 306
carbon 35
detergent 234
Estuary 35
Etang de Berre 306
Gulf 234
hydrology 306
Marseilles 234
methods 35
nitrogen 35
nutrients 306
organic matter 306
organisms 234
oxidation rates 35
plankton 306
Posidonia oceanica 234
seagrass 234
Seine 35
sewage 234
temperature 35

free surface
Bay 427
Biscayne 427
chemical 427
Florida 427
model 427
processes 427
sediments 427

three dimensional 427
time dependent 427
transport 427
wind 427
frequency analysis
diffusion 261
model 261
freshwater
abundance 113
ammonia 204
ammonium 113
autotrophic 86
Bay 86 231 378 402
benthic oxygen demand 420
Bight 113
biomass 231 519
bloom 204 519
BOD 284 519
chlorophyll 113 519
Clyde 284
crabs 231
distribution 113
DO 222 284 519
Duwamish 519
energy transfer 231
Estuary 204 219 222 284 402 519
fertilizer 204
fish 231
Florida 402
Galveston 231
heterotrophic 86
hydrology 284 378 420
industry 86 284
light 420
Louisiana 402
management 231 402
metabolism 86
microcosms 86
model 231 378 420
Neuse 204
New Jersey 113
New York 113
nitrate 113 204 219
nitrite 113 219
North Carolina 204 402
nutrients 86 222 402
one dimensional 420
Palm 402
phosphate 113 219
phosphorus 204
phytoplankton 86 113 204 519
Potomac 219 222
predictions 284
primary 86
productivity 86 231
radioactivity 402
resources 222
respiration 86
Rockaway Point 113
runoff 402 420
salinity 113 204 231
San Francisco 378
Santee 402
secondary 231
sediments 219
sewage 204 219 284
shrimp 231
silica 113 378
South Carolina 402
spatial distribution 219
stochastic 420
suspended solids 113
swamps 402
temperature 113 284 420 519
temporal distribution 219
Texas 86 231
tides 519
TKN 219
Trinity 86
turbidity 420
two dimensional 378
wastes 86 204 222 284
watersheds 219
wetlands 402
zooplankton 86
fucaceae
intertidal 334
Mytilus 334
pulp mill 334
Spain 334
stress 334
Ulvales 334
wastes 334
Fundy
Bay 524
bloom 524
dinoflagellate 524
Gonyaulax excavata 524
herring 524
Limacina retroversa 524

pteropods 524
fungus
amino acids 456
bacteria 456
bacteria proteolytic 456
carbohydrates 456
C14 456
fauna 456
heterotrophic 456
indices 456
methods 456
microbes 456 501
oil 456
phytoplankton 456
processes 456
pulp mill 456
salinity 456
seasons 501
sewage 456
symposium 456
synthesis 501
thermal 456
trace metals 456
vitamins 501
yeast 501
FWQA Dynamic
Anacostia 78
dye 78
Estuary 78
model 78
Potomac 78
predictions 78
Thomann 78
tides 78
Galveston
abundance 32
Anchoa mitchilli 32
Bay 32 208 231 401
benthic 208
biomass 32 231
crabs 231
diversity 32
DO 401
energy transfer 231
fish 32 231
fish kills 401
freshwater 231
gas bubbles 401
hydrology 208
indicator species 32 208
indices 32 208
industry 208
management 231
model 231
mucus 401
productivity 231
salinity 231
salmonids 401
saturation 401
secondary 231
sediments 208
shrimp 231
Texas 32 208 231 401
toxicity 32
wastes 32 208
gas bubbles
Bay 401
DO 401
fish kills 401
Galveston 401
mucus 401
salmonids 401
saturation 401
Texas 401
gastrotrichs
abundance 167
annelids 167
biomass 167
diversity 167
Estuary 167
fauna 167
Great Britian 167
microbes 167
nematodes 167
oligochaetes 167
polychaetes 167
sewage 167
Tees 167
Georgia
ammonia 176 177
C/N 150
clay 385
Doboy 385
DOC 150
DON 150 176 177
flux 385
inorganic 385
marshes 59 177
metabolism 386
microbes 59 385

model 386
nitrate 176 177
nitrite 176 177
pH 176
phosphate 385
phosphorus 386
PON 177
pools 177
processes 386
P32 385
rainfall 176
runoff 150
Savannah 150
seasons 386
sediment water 385 386
sediments 59
Sound 150 385
suspended solids 59
tidal creek 177
vitamin B12 59
Germany
indicator species 166
myxobacteria 166
sewage 166
Giens
growth rates 285
Gulf 285
Posidonia oceanica 285
sediments 285
sewage 285
global
management 490
monitoring 490
research 490
resources 490
glucose
bacteria attached 164
bacteria free 164
Bayou 313
dissolved solids 313
DO 313
Estuary 164
Humber 164
kinetics 313
microbes 313
mineralization 164
nutrients 313
organic matter 164
phosphate 313
productivity 313
redox potential 313
sediment water 313
suspended solids 164
glycine
amino acids 225
carbohydrates 225
clams 225
Mercenaria 225
oil 225
sewage 225
stress 225
taurine 225
Gonyaulax
benthic 10
bloom 10
cysts 10
dinoflagellate 6 10
Massachusetts 10
red tide 10
spores 10
toxicity 6 10
Gonyaulax excavata
Bay 524
bloom 524
dinoflagellate 524
Fundy 524
herring 524
Limacina retroversa 524
pteropods 524
Gothenburg
benthic 352
Byfjorden 352
crustaceans 352
Estuary 352
indicator species 352
Kungsbackafjorden 352
macrofauna 352
meiofauna 352
Saltkallefjord 352
Sweden 352
zooplankton 352
gradient
benthic 371
community structure 371
ecocline 371
indicator species 371
indices 371
organic enrichment 371
recovery 371
sediments 371

succession 371
Grays
DO 369
Harbor 369
sewage 369
temperature 369
upwelling 369
Washington 369
Great Britian
abundance 120 167
algae 119 120
annelids 167
Bay 23 199
benthic 119 120 529
biomass 167
black necrosis 2
BOD 274
Burry Inlet 2
coliforms 23
Crangon crangon 2
detergent 2
diatoms 197
DIN 199
diversity 120 167 197
DO 2
DRP 199
economics 85
Estuary 119 167
fauna 167
gastrotrichs 167
indicator species 197 529
indices 197
industry 119
Liverpool 23 199
long term 120 199
macrophytes 529
management 85
microbes 2 167
nematodes 167
nitrogen 199
oligochaetes 167
pH 2
phosphorus 199
physico chemical treatment 294
phytoplankton 274
polychaetes 167
reproduction 120
salinity 2
seasons 120 199 274
sewage 23 119 167 197 274 294
Tees 119 167
temperature 2
trace metals 2
tracer 23
Tyne 119
wastes 119 120
Wear 119
Greece
Cladocera 245 310
Evadne 310
Gulf 245 310
indicator species 245 310
industry 245
Saronic 245 310
seasons 245 310
sewage 245 310
temperature 245 310
wastes 245
zooplankton 245
Grevelingen
biomass 336
Estuary 336
light 336
Netherlands 336
nutrients 336
primary 336
productivity 336
water velocity 336
Zostera marina 336
growth rates
algae 236 312
ammonium 188 522
Anabaena 312
aquaculture 360
Bay 188 355 392
benthic 106
boundary layer 522
C/N 188
carbon 70 312 522
Chaetodon miliaris 392
chemostat 169
Chesapeake 355
Chlorella 312
chlorophyll 70
Cockburn 63
CO2 312
Craiglin 171
cycles 522
Damariscotta 106
decomposition 299

diatoms 479
dinoflagellate 479
DO 106 171
electron transfer 299
energy transfer 299 534
Estuary 106
fertilizer 171 355
fish 106 171 392 534
flounder 171
Giens 285
Gulf 285
Harbor 39
Hawaii 188 392
indicator species 39
intracellular 169
invertebrates 106
Kaneohe 188 392
kelp 522
Ks 522
laboratory culture 106
Laminaria 70
larvae 106
Loch 171
Long 39
Macrocystis 522
macrophytes 70
Maine 106
metabolism 534
microbes 299
Microcystis 312
model 169
molluscs 39
morphology 522
Mytilus edulis 360
Newfoundland 39
nitrate 70 188
nitrogen 169 479 522
Norway 236
nutrients 236 355 522
organic matter 299
Penobscot 106
phosphorus 39 236
phytoplankton 169 188 459 479
Posidonia australis 63
Posidonia oceanica 285
primary 236 522
productivity 522 534
pulp mill 459
redox potential 299
reproduction 392
salinity 106
seagrass 63 355
seasons 63
secondary 236
sediments 63 106 285
settlement 106
sewage 188 236 285 360 392 479
sexual maturity 171
Sheepscot 106
Sound 63
steady state 299
stress 534
substrates 299
temperature 106
tertiary 236
trace metals 479
uptake rates 188
urea 188
Vm 522
water velocity 522
zooplankton 392
Guanabara
Balanus 257
Bay 257
Brazil 257
indicator species 257
Guayanilla
algae bluegreen 243
algae mats 243
bacteria 243
Bay 243
heterotrophic 243
nitrogen fixation 243
Puerto Rico 243
sediments 243
thermal 243
Gulf
Aqaba 146
benthic 137 234
Bothnia 137
calcium 146
California 155
chlorinated hydrocarbons 137
chlorophyll 155
Cladocera 245 310
detergent 234
dissolved solids 137
distribution 155
diversity 155
DO 137

Evadne 310
flushing 155
France 234
Giens 285
Greece 245 310
growth rates 285
hydrology 137
indicator species 245 310
industry 245
iron 137
Jordan 146
Lagoon 155
macrofauna 137
Marseilles 234
nutrients 137
oil 137
organisms 234
pesticides 137
phosphate 146
phosphorus 137
phytoplankton 137 155
Posidonia oceanica 234 285
primary 137 155
productivity 137 155
Saronic 245 310
seagrass 234
seasons 245 310
sediments 137 285
sewage 146 234 245 285 310
symposium 137
temperature 245 310
tides 155
trace metals 137
wastes 137 245
zooplankton 137 245

gulls
coliforms 163
feces 163
nitrogen 163
pathogens 163
phosphorus 163
sewage 163

Gymnodinium
Bayou 317
bloom 317
DO 317
fish 317
Florida 317
phytoplankton 317
Texar 317
toxicity 317
wastes 317

Hacking
Australia 424
chlorophyll 424
detritus 424
hydrology 424
light 424
methods 424
phytoplankton 424
Port 424
runoff 424
sediments 424
suspended solids 424

Harbor
algae 400
Aquaforte 145
benthic 400 447
bioenhancement 447
biomass 447
BOD 136
Burrard 460
C/N 136
California 400 447
Canada 145
cannery 447
Charleston 136
chemical 20
clay 458
distribution 460
diversity 447
DO 369 447
Elizabeth 327
Estuary 327
euglenoid 145
eutrophic 20
fiord 460
fish 447
flux 458
Grays 369
growth rates 39
Hong Kong 458
hydrology 20
indicator species 39 145 400
industry 136 327
Inlet 460
James 327
land development 458
Little Creek 327
Long 39

Los Angeles 400 447
Lynnhaven 327
management 327
microbes 20
model 327
molluscs 39
nanoplankton 145
Nansemond 327
Newfoundland 39
nonpoint sources 327
oil 400
oligochaetes 400
organisms 447
Pagan 327
phosphate 458
phosphorus 39
phytoplankton 145 460
plankton 20 447
polychaetes 400
Poquoson 327
predictions 327
primary 460
productivity 447 460
pulp mill 136
salinity 458
secchi disc 145
sediments 458
sewage 136 145 327 369 400 447
South Carolina 136
St Johns 145
succession 460
temperature 369
Tolo 458
upwelling 369
Vancouver 460
Washington 369
wastes 20 136 327 400 447
York 327

Hawaii
ammonia 466
ammonium 188
Bay 64 65 94 182 188 200 330 392 466
biomass 65 200 466
C/N 188
Chaetodon miliaris 392
chlorophyll 64 65
coliforms 94
coral 182
detritus 65
diversity 94
DON 466
DPO 466
economics 94
excretion rates 466
fish 392
fisheries 94
growth rates 188 392
Kaneohe 64 65 94 182 188 200 330 392 466
metabolism 466
microbes 182
microcopepods 330
model 64
nitrate 64 188
nitrogen 65 94 330
nitrogen fixation 182
P/B 330
phosphate 64 466
phosphorus 94
phytoplankton 64 65 188
PN 200
POC 65
primary 64
productivity 64 330
recreation 94
reproduction 392
secondary 182 330
sediments 182
sewage 64 94 182 188 330 392
size composition 200
size dependent 466
succession 200
uptake rates 188
urea 188
zooplankton 200 392 466

heat
algae 89
animals 89
Bay 141
benthic 542
benthic oxygen demand 542
carbon 542
Chesapeake 141
coliforms 542
community structure 89
deoxygenation 542
DO 542
energy transfer 141
Estuary 89 141

fish 542
hydrology 141
ice 542
light 542
methods 542
microbes 141
model 542
North Carolina 89
nutrients 89 141 542
organic 141
organisms 542
Patuxent 141
phytoplankton 141 542
plants 141
pond experiment 89
power plant 141
primary 141 542
productivity 89 141 542
rate constants 542
reaeration 542
respiration 89
seasons 89
sewage 89
South Creek 89
spatial distribution 542
temperature 89
temporal distribution 542
thermal 141
zooplankton 542
herring
Bay 524
bloom 524
dinoflagellate 524
Fundy 524
Gonyaulax excavata 524
Limacina retroversa 524
pteropods 524
heterotrophic
Actinetobacter 431
algae 256 339
algae bluegreen 243
algae mats 243
amino acids 456
autotrophic 86
bacteria 243 246 256 339 431 456
bacteria proteolytic 456
Bay 86 243 431
biomass 339
birds 256 339
calcium 339
carbohydrates 456
carbon 256 339
community structure 256
crustaceans 256 339
C14 456
density 246
diversity 246
fauna 456
fish 256 339
foraminifera 256 339
freshwater 86
fungus 456
Guayanilla 243
indices 456
industry 86
insects 256 339
marshes 339
meiofauna 256 339
metabolism 86 256
methods 456
microbes 456
microcosms 86
molluscs 256 339
nitrogen 256 339
nitrogen fixation 243
nutrients 86 431
oil 456
phosphorus 256 339
phytoplankton 86 256 339 431 456
pond experiment 256 339
primary 86
processes 456
productivity 86 256 339
Puerto Rico 243
pulp mill 456
respiration 86
Sagami 431
salinity 456
sediments 243 246
self purification 246
sewage 256 339 456
Suruga 431
symposium 456
tertiary 339
Texas 86
thermal 243 456
Tokyo 431
trace metals 456
Trinity 86
Vibrios 431

wastes 86
zooplankton 86 431
heterotrophic potential
microbes 500
organic 500
populations mixed 500
wastes 500
Hillsborough
Bay 433
benthic 433
Florida 433
invertebrates 433
predictions 433
sediments 433
sewage 433
tertiary 433
history
Estuary 158
marshes 158
Pb210 158
plutonium 158
records 158
Savannah 158
sediments 158
Hobsons
abundance 389
Bay 389
benthic 389
diversity 389
DO 389
Estuary 389
fauna 389
salinity 389
Theora fragilis 389
Yarra 389
Hong Kong
clay 458
flux 458
Harbor 458
land development 458
phosphate 458
salinity 458
sediments 458
Tolo 458
hosts
algae bluegreen 254
Cyanophyta 254
fish kills 254
indicator species 254
microbes 254
Schizothrix calicola 254
viruses 254
Houston Ship
Channel 253
hydrology 253
reaeration 253
Hudson
agriculture 218
algae bluegreen 218
ammonium 31
Chlorophyta 31
Estuary 31 209 218
flushing 218
land development 209
light 31
management 209
nitrate 31 218
nutrients 218
phosphate 218
phytoplankton 31
point sources 218
Potomac 218
resources 209
sewage 218
Skeletonema 31
uptake rates 31
wastes 218
Humber
bacteria attached 164
bacteria free 164
Estuary 164
glucose 164
mineralization 164
organic matter 164
suspended solids 164
Humboldt
Bay 8
California 8
DO 8
pH 8
pond experiment 8
salmonids 8
sewage 8
Hurricane
Agnes 415 421
Bay 415 421
Chesapeake 415 421
chlorophyll 415
Estuary 415
Michaelis Menton 415

model 415
nitrogen 415
phosphorus 415
phytoplankton 415
POM 421
quasi linear 415
sediments 421
sewage 421
soil erosion 421
suspended solids 421
Susquehanna 415
wastes 415
Hydrobia ulvae
benthic 393
Craiglin 393
density 393
fauna 393
fertilizer 393
Loch 393
productivity 393
hydrology
abundance 43
advection 42
aerobic 183
agriculture 517
Alabama 132
Alaska 7
Albemarle 43
algae 87 448
ammonia 43 520
animals 399
assay 399 414 448
Australia 154 424
Bay 41 42 71 91 132 141 198 208 224 226 262 354 378 448 510
Belgium 376
benthic 87 137 208 224
benthic oxygen demand 420
bibliography 124 250 263 264 265 266 267 268
biomass 154 201 306
bloom 201 306 376 414 520 521
BOD 71 212 284
Bothnia 137
California 441
Channel 253
chemical 20
Chesapeake 41 42 91 141 510
chlorinated hydrocarbons 137 491
chlorophyll 43 154 174 424
Clyde 284
coliforms 183
Colville 7
community structure 174
Coriolis 42
cycles 91 183 224 241
density 198 280 530
deposition 376
detritus 424
diatoms 376 414
dilution 510
dispersion 530
dissolved solids 137
distribution 71
DO 71 97 137 154 174 212 226 241 284 376 441
DON 201
Duwamish 520 521
dye 530
economics 491
energy transfer 141 354
Estuary 7 87 90 124 141 154 174 183 201 212 284 376 510 520 521 530
Etang de Berre 306
eutrophic 20
eutrophication 124 250 263 264 265 266 267 268
fauna 87
fertilizer 517
finite difference 41
fish 515
fisheries 7 124
flood control 517
France 306
freshwater 284 378 420
Galveston 208
Gulf 137
Hacking 424
Harbor 20
heat 141
Houston Ship 253
H3 154
indicator species 208 399
indices 208
industry 208 284 517
inorganic 201
interface salt fresh 132 376
intracellular 100
iron 137

Jamaica 262
land development 43 517
light 174 420 424 448 521
Little River 154
longitudinal 530
macrofauna 137
management 183 491 515
Mediterranean 491
metabolism 224
methods 399 424
Michaelis Menton 71
microbes 20 141 183 399 491
microflagellates 174
mining 87 90 201
mixing 530
Mobile 132
model 41 42 71 97 100 132 183 198 212 250 262 263 264 265 266 267 268 280 321 354 378 420 510 515 530
momentum transfer 132
N/P 226 414
nanoplankton 174
Narragansett 198
New Jersey 224 226
New York 262
nitrate 201 224 226 414
nitrogen 43 87 91 100 183 201 321
North Carolina 43 90 517
Norway 414
nutrients 7 71 100 137 141 226 241 306 376 441 448 491 515 517 521
oil 137 399 491
one dimensional 420
Oregon 448
organic 141
organic matter 306
orthophosphate 414
P/N 441
Pamlico 87 90 201
Patuxent 141
Periphyton 521
pesticides 137 517
pH 71
phosphate 224 226 520
phosphorus 43 87 90 91 100 137 154 201 241
phytoplankton 43 71 87 90 91 137 141 154 174 201 414 424 441 515 520 521
plankton 20 226 306
plants 141
point sources 530
Port 424
Potomac 183
power plant 141
predictions 183 284
primary 7 43 91 124 137 141 154 174 441 515
processes 183 224 354
productivity 7 43 91 124 137 141 154 174 441 515
Puget 515
P32 154
radioactivity 491
Rangia 90
Raritan 224 226
reaeration 253
real time 183 212 321
recreation 517
resources 7 491 517
respiration 441
runoff 420 424
salinity 43 71 90 154 174 198 212 226 241 441
San Francisco 71 354 378
Scheldt 376
Sea 491
seasons 71 224 226 441 448 521
secchi disc 441
sediments 90 132 137 201 208 376 424 491
self purification 376
Severn 510
sewage 284 448 510 520
silica 378 414
Sound 43 515
St Lawrence 124
stochastic 420
stratification 280
succession 201 515
suspended solids 124 376 424
symposium 137 337
Tar 201
temperature 43 71 154 174 226 284 420 441 448
Texas 208
thermal 141 250 263 264 265 266

267 268
three dimensional 132 198 515
three layer 280
tidal average 212
tides 183
time dependent 132
trace metals 124 137 376 414 491
Transient Water Quality Network 183
transport 100 132 262 354 376
Trondheimsfjord 414
trophic levels 515
turbidity 43 420
two dimensional 41 42 262 378
uptake rates 90
vertical shear 530
Virginia 212
Washington 515 520
wastes 20 90 137 208 284 399
water quality 97
watersheds 517
Yaquina 448
York 174 212 530
zooplankton 87 137 154

Hymeniacidon sanguinea
chemical 359
indicator species 359
industry 359
Italy 359
Porifera 359
sewage 359
wastes 359

hypertrophication
Bight 286
bloom 286
New York 286
nutrients 286
phytoplankton 286

H2S
argon 396
Bay 396
bubbles 396
Chesapeake 396
CO2 396
methane 396
nitrogen 396
sediment water 396

H3
Australia 154
biomass 154
chlorophyll 154
DO 154
Estuary 154
hydrology 154
Little River 154
phosphorus 154
phytoplankton 154
primary 154
productivity 154
P32 154
salinity 154
temperature 154
zooplankton 154

ice
benthic 542
benthic oxygen demand 542
carbon 542
coliforms 542
deoxygenation 542
DO 542
fish 542
heat 542
light 542
methods 542
model 542
nutrients 542
organisms 542
phytoplankton 542
primary 542
productivity 542
rate constants 542
reaeration 542
spatial distribution 542
temporal distribution 542
zooplankton 542

indicator species
abundance 32 383 472
algae 400
algae bluegreen 254 335
algae mats 357
alkalinity 383
ammonia 481
amphipods 12
Anchoa mitchilli 32
animals 399
annelids 370
Apalachee 191
Aquaforte 145
assay 383 399
Balanus 257

Baltic 335
Bay 12 32 191 208 257 417
benthic 12 191 208 269 331 335
352 370 371 400 529
Bight 121
bioaccumulation 121
biomass 32
Black 303
Brazil 257
Byfjorden 352
California 400
Canada 145
Capitella capitata 12
Chaetoceros simplex 303
chemical 359
Chesapeake 417
chlorophyll 481
Cladocera 245 310
Columbia 357
community structure 371
crustaceans 352 370
Cyanophyta 254
detergent 335
diatoms 197
distribution 269 383 417
diversity 32 197 472
DO 335
Duwamish 481
ecocline 371
energy transfer 335
England 370
Estuary 352 357 481
euglenoid 145
Evadne 310
fish 32 121 335
fish kills 254
Florida 191
Galveston 32 208
Germany 166
Gothenburg 352
gradient 371
Great Britian 197 529
Greece 245 310
growth rates 39
Guanabara 257
Gulf 245 310
Harbor 39 145 400
hosts 254
hydrology 208 399
Hymeniacidon sanguinea 359
indices 32 111 197 208 269 371
industry 208 245 359
invertebrates 12 191 331 383
Italy 359
Kiel 12 121
Kungsbackafjorden 352
Lake 383
Lebanon 472
Linnhe Eil 370
Loch 370
Long 39
Los Angeles 400
macroalgae 335
macrofauna 352
macrophytes 529
Massachusetts 331
meiofauna 352
methods 399
microbes 254 399 417
model 335
molluscs 39 370
mud flats 191
mussels 121
myxobacteria 166
nanoplankton 145
nematodes 331
Newfoundland 39
nitrate 303 481
nitrite 481
Norway 121
nutrients 383 472
oil 121 399 400
oligochaetes 400
organic 269
organic enrichment 371
organisms 335
oyster reefs 191
Periphyton 481
pH 383
phosphate 303 481
phosphorus 39
phytoplankton 145 303 472
plankton 383
polychaetes 12 400
Pontchartrain 383
Porifera 359
primary 335 383 481
productivity 335 383 481
pulp mill 191 370
recovery 371

runoff 383
salinity 383
Saltkallefjord 352
Saronic 245 310
Schizothrix calicola 254
Sea 303 335
seagrass 191
seasons 245 310 331
secchi disc 145
sediments 208 371 417
seminar 111
sewage 12 145 166 197 245 303 310 331 335 359 400 417 472
specie key 357
St Johns 145
succession 370 371
suspended solids 417
Sweden 352
symposium 335
temperature 245 310
Texas 32 208
toxicity 32
viruses 254
Washington 481
wastes 32 191 208 245 359 399 400 481
water column 417
Woods Hole 331
zooplankton 245 335 352
indices
abundance 32
alkaline phosphatase 470
amino acids 456
analysis of variance 395
Anchoa mitchilli 32
bacteria 456
bacteria proteolytic 456
Bay 32 92 208 470
Bayou 102
benthic 208 269 371 395
Bight 189
biomass 32
carbohydrates 456
carbon 220
chemical 16 102
Chesapeake 92
chlorophyll 102 220 350 470
Chocolate 102
community structure 371
CO2 220
C14 456
diatoms 197
distribution 125 269 470
diversity 32 102 197 395
DNA 470
DO 102 220
ecocline 371
enzymes 470
Estuary 220 350
fauna 456
Firth of Forth 395
fish 32
flushing 437
fungus 456
Galveston 32 208
gradient 371
Great Britian 197
heterotrophic 456
hydrology 208
indicator species 32 111 197 208 269 371
industry 208
intertidal 395
land development 92
macrofauna 395
marina 437
Maryland 350
methods 350 456
microbes 16 220 456 470
Mississippi 125
model 437
New York 189
nitrate 125
nomogram 437
nutrients 92 125 220
oil 368 456
organic 269
organic enrichment 371
oxidases 368
Patuxent 350
pesticides 220
phosphate 125
phosphorus 470
phytoplankton 456
Potomac 220
processes 456
productivity 102
protein 470
pulp mill 456
recovery 371

remote sensing 350
resources 125
respiration 102
salinity 456
seasons 102 395
sediments 189 208 371 437
seminar 111
seston 470
sewage 189 197 456
Sound 125
steroids 189
succession 371
suspended solids 350
symposium 456
Taylor 102
Texas 32 102 208
thermal 456
TOC 220
Tokyo 470
toxicity 32
trace metals 456
wastes 32 102 208 220
watersheds 92
zooplankton 102
industry
agriculture 384 517
algae 119 442
alkalinity 380
animals 202
ATP 275
autotrophic 86
Bay 86 208 301 380 488
benthic 119 208 508
bibliography 211 457
Bight 275
biomass 275
bloom 275
BOD 109 136 284 348
C/N 136
cadmium 275
canal 384
Ceratium 275
Charleston 136
chemical 109 359 516
Chesapeake 301 380
Cladocera 245
Clyde 284
COD 442
coliforms 380
cycles 464
DC 380
Delaware 109 134
Dniester 384
DO 202 284 380 464
dredging 498
economics 134 498 508
Elizabeth 327
energy transfer 348
Estuary 109 119 134 202 284 327 380 384
eutrophication 211 457
fauna 384
fertilizer 202 361 464 517
fish 202 516
fisheries 488 498
flood control 517
food processing 516
freshwater 86 284
Galveston 208
Great Britian 119
Greece 245
Gulf 245
Harbor 136 327
heterotrophic 86
hydrology 208 284 517
Hymeniacidon sanguinea 359
indicator species 208 245 359
indices 208
Italy 359
James 327 380
Japan 488
kelp 232
land development 517
Little Creek 327
Louisiana 442
Lynnhaven 327
macroinvertebrates 232
management 109 205 327 498 508
marshes 442
Maryland 380
metabolism 86 452
metals 232
microbes 275 442 516
microcosms 86
mining 202 464
model 109 205 327 348
municipal 109
Nansemond 327
New York 275
nitrate 380

nitrogen 202
nonpoint sources 327
North 232
North Carolina 202 517
nutrients 86 380 442 498 516 517
oil 211
Oregon 516
organisms 508
Pagan 327
Pamlico 202
Patuxent 380
pesticides 348 380 508 517
pH 380
phosphate 202 361 380
phosphorus 464
phytoplankton 86 202 361
plankton 202
plants 508
populations single 452
Poquoson 327
Porifera 359
Potomac 380
power plant 498
predictions 284 327
primary 86 202 361
productivity 86 202 361
public opinion 498 508
pulp mill 136 488
radioactivity 516
Rappahannock 380
recreation 508 517
red tide 361
remote sensing 211
resources 211 498 516 517
respiration 86
runoff 134 205 442 464
salinity 202
Saronic 245
Sea 232
seasons 245
secondary 348
sediments 208 275 301 380
sewage 119 134 136 202 232 245 284 301 327 348 359 380 384 442 464 488 516
South Carolina 136
Sphaerotilus 516
stochastic 205
storm loading 134
stress 452
succession 232
Suruga 488
Susquehanna 380
symposium 498
Tees 119
temperature 202 245 284
tertiary 301 508
Texas 86 208
thermal 211 516
TLm 452
TOC 442
trace metals 348 380 516
transport 301
Trinity 86
Tyne 119
Virginia 380
wastes 86 109 119 134 136 208 232 245 275 284 301 327 348 359 380 384 442 452 464 488 508
watersheds 380 517
Wear 119
York 327 380
zooplankton 86 245 384

Inlet
acetylene 25
Alaska 319 320
arctic 319
benthic 319
BOD 320
Burrard 460
cannery 25
Cook 319 320
distribution 460
DO 319
fiord 460
Harbor 460
intertidal 25
Klebsiella pneumoniae 25
microbes 319
New Zealand 25
nitrogen 319
nitrogen fixation 25
nutrients 25
organisms 319
pH 319
phosphorus 319
phytoplankton 460
plankton 319
primary 460
productivity 460

salinity 319
sediments 25
sewage 25 319 320
silica 319
slaughterhouse 25
succession 460
temperature 320
Vancouver 460
Waimea 25
wastes 25
inorganic
ammonia 178 203 407
ammonium 186
animals 186
Bay 178
Bayou 181
benthic 178
biomass 201 203
bloom 201
Broadkill 101
carbon 27 181
CBOD 407
chambers 178
chlorophyll 101 407
clay 385
coliforms 407
cycles 186
Delaware 101
denitrification 326
detergent 413
dissolved 131
DO 101 407
Doboy 385
DOC 416
DON 201
Estuary 27 101 131 181 186 201 203 407 506
Fiji Island 326
Florida 181
flux 178 385
Georgia 385
hydrology 201
James 27
manganese 416
mangroves 326
Massachusetts 161
microbes 27 203 326 385
mining 201 203
Mississippi 131
model 27 407
municipal 413
Murderkill 101
N/P 413
Narragansett 178
nitrate 27 178 186 201 203 407
nitrite 27 178 186 407
nitrogen 101 161 181 186 201 326 407 413 506
North Carolina 186 203
nutrients 101 186 203 416
one dimensional 407
organic 27 186 407 506
organic matter 413
Orinoco 131
Pagan 407
Pamlico 186 201 203
pH 101
phosphate 27 178 181 203 385
phosphorus 101 181 201 407 413
phytoplankton 27 161 201 203 407 413 416 506
plants 186
plumes 131
pond experiment 161
predictions 27
primary 181 416
processes 27 506
productivity 181 416
P32 385
real time 407
Rhode Island 178
salinity 101 407
Savannah 131
Schofield 27
seasons 186 506
secondary 326
sediment water 178 181 385
sediments 186 201 326
sewage 27 161 326 416
silica 131
Sound 385
stochastic 27
succession 201
suspended solids 131
Tar 201
temperature 27 178
tertiary 161 326
Texar 181
tides 101
uptake rates 131

urea 186
Vellar 506
Virginia 27
wastes 413
wetlands 101
insects
algae 256 339
bacteria 256 339
biomass 339
birds 256 339
calcium 339
carbon 256 339
community structure 256
crustaceans 256 339
fish 256 339
foraminifera 256 339
heterotrophic 256 339
marshes 339
meiofauna 256 339
metabolism 256
molluscs 256 339
nitrogen 256 339
phosphorus 256 339
phytoplankton 256 339
pond experiment 256 339
productivity 256 339
sewage 256 339
tertiary 339
instruments
bibliography 436
detergent 436
DO 272
methods 272 436
model 436
nutrients 436
oil 436
pesticides 436
trace metals 436
interface salt fresh
Alabama 132
ammonia 311
Bay 132
Belgium 376
bloom 376
BOD 311
deposition 376
diatoms 376
DO 311 376
DOC 311
DON 311
Estuary 376
hydrology 132 376
Mobile 132
model 132
momentum transfer 132
nitrite 311
nutrients 376
pH 311
salinity 311
Scheldt 376
sediments 132 376
self purification 376
suspended solids 376
three dimensional 132
time dependent 132
trace metals 311 376
transport 132 376
interference
methods 54
nitrate 54
uv/resin 54
international
marine pollution 281
symposium 281
interstitial
aerobic 58
alkalinity 293
ammonia 293
anaerobic 58
assay 58
Bay 45 207 293 485
Belgium 504
Chesapeake 45 207 293 485
chloride 293
Connecticut 58
Copps Brook 58
degradation 58
denitrification 504
DIP 45
dissolved 207
distribution 293
DOC 58
iron 45 46 293 485
manganese 207 293
mass transfer 503
metabolism 58
methods 46 485
microbes 58
model 58 207 503 504 536
nitrate 504

nitrification 504
nitrite 504
North 503
nutrients 58
organic matter 58 504
orthophosphate 46
oxidation 46
oxidation rates 485
pH 207 293
phosphate 293
POC 58
processes 536
redox potential 293
Sea 503
seasons 293
sediments 58 504
silica 293 503 536
steady state 207
sulfate 293
tetrazolium salt 58
two layer 503
watersheds 58
zone 503
intertidal
acetylene 25
algae 443
analysis of variance 395
benthic 395
birds 443
California 276
cannery 25
Clyde 443
distribution 309
diversity 17 395
energy transfer 276
Estuary 309 443
fauna 276
feeding grounds 443
Firth of Forth 395
fish 17
fucaceae 334
indices 395
Inlet 25
invertebrates 17 443
Irish 309
Klebsiella pneumoniae 25
macrofauna 17 309 395
macrophytes 276
Mersey 309
metabolism 276
Mytilus 334
New Zealand 25
nitrogen fixation 25
nutrients 25
organic 309
primary 276
productivity 276
Puget 17
pulp mill 334
Sea 309
seasons 276 309 395
sediments 17 25
sewage 17 25 276
slaughterhouse 25
Sound 17
Spain 334
stress 334
Ulvales 334
Waimea 25
Washington 17
wastes 25 309 334
intracellular
chemostat 169
growth rates 169
hydrology 100
model 100 169
nitrogen 100 169
nutrients 100
phosphorus 100
phytoplankton 169
transport 100
invertebrates
abundance 383
algae 443
alkalinity 383
amino acids 528
amphipods 12
Apalachee 191
assay 383
Bay 12 191 433
benthic 12 106 191 331 433 528
birds 443
Capitella capitata 12
Clyde 443
conference 528
cycles 528
Damariscotta 106
detritus 528
distribution 383
diversity 17

DO 106
Estuary 106 443
feeding grounds 443
fish 17 106 528
fisheries 528
Florida 191 433
growth rates 106
Hillsborough 433
indicator species 12 191 331 383
intertidal 17 443
Kiel 12
laboratory culture 106
Lake 383
larvae 106
macrofauna 17
Maine 106
management 528
Massachusetts 331
microbes 528
mud flats 191
nematodes 331
nitrogen 528
nutrients 383 528
oil 528
organisms 528
oyster reefs 191
Penobscot 106
pesticides 528
pH 383
phosphorus 528
plankton 383
polychaetes 12
Pontchartrain 383
predictions 433
primary 383
productivity 383
Puget 17
pulp mill 191
runoff 383
salinity 106 383
seagrass 191 528
seasons 331
sediments 17 106 433
settlement 106
sewage 12 17 331 433
Sheepscot 106
silica 528
Sound 17
stress 528
temperature 106
tertiary 433
trace metals 528
urea 528
Washington 17
wastes 191
wetlands 528
Woods Hole 331
zooplankton 528
ion exchange
ammonia 273
fertilizer 273
phosphate 273
secondary 273
sewage 273
Ireland
algae mats 130
Estuary 130
mud flats 130
nutrients 130
organic 130
Rogerstown 130
wastes 130
Irish
distribution 309
Estuary 309
intertidal 309
macrofauna 309
Mersey 309
organic 309
Sea 309
seasons 309
wastes 309
iron
alkalinity 293
ammonia 293
Bay 45 293 485
benthic 137
Bothnia 137
Chesapeake 45 293 485
chloride 293
chlorinated hydrocarbons 137
DIP 45
dissolved solids 137
distribution 293
DO 137
Estuary 492 493
Gulf 137
hydrology 137
interstitial 45 46 293 485
macrofauna 137

manganese 293
methods 46 485 493
North Carolina 492 493
nutrients 137
oil 137
orthophosphate 46
oxidation 46
oxidation rates 485
Pamlico 492 493
pesticides 137
pH 293
phosphate 293 492
phosphorus 137 493
phytoplankton 137
primary 137
productivity 137
redox potential 293
salinity 492
seasons 293
sediments 137 492 493
silica 293
sulfate 293
suspended solids 492
symposium 137
trace metals 137
wastes 137
zooplankton 137
isopleths
Estuary 223
model 223
nonpoint sources 223
nutrients 223
phosphorus 223
Potomac 223
processes 223
runoff 223
spatial distribution 223
temporal distribution 223
transport 223
wastes 223
isotope
carbon 449
distribution 449
Estuary 449
Potomac 449
Italy
chemical 359
Hymeniacidon sanguinea 359
indicator species 359
industry 359
Porifera 359
sewage 359
wastes 359
Jamaica
Bay 262 353
BOD 353
coliforms 353
DO 353
hydrology 262
model 262 353
New York 262 353
nitrogen 353
phosphorus 353
salinity 353
transport 262
two dimensional 262 353
James
alkalinity 47 380
Bay 173 380 495
bibliography 30
BOD 495
carbon 27 495
Chesapeake 173 380 495
Chickahominy 173
chlorophyll 47 495
coliforms 380
DC 380
DO 47 380 495
Elizabeth 327
Estuary 27 30 47 173 327 380 495
Harbor 327
industry 327 380
inorganic 27
linear regression 173
Little Creek 327
Lynnhaven 327
management 327
Maryland 380
microbes 27
model 27 327
Nansemond 327
nitrate 27 380
nitrite 27
nonpoint sources 327
NO2 47
NO3 47
nutrients 173 380 495
organic 27
Pagan 327
Patuxent 173 380 495

pesticides 380
pH 47 380
phosphate 27 380
phosphorus 47
phytoplankton 27 47
PN 47
Poquoson 327
Potomac 173 380 495
predictions 27 327
processes 27
Rappahannock 173 380 495
salinity 47
Schofield 27
seasons 173
sediments 380
sewage 27 327 380
stochastic 27
Susquehanna 173 380 495
temperature 27 47
trace metals 380
Virginia 27 380
wastes 327 380
watersheds 173 380
York 173 327 380 495

Japan
ammonia 190
Bay 190 322 488
benthic 338
biomass 445
bloom 445
BOD 349
chlorophyll 322
COD 338 349
crustaceans 338
denitrification 190
deoxygenation 349
diatoms 445
fisheries 338 488
industry 488
Mangoku 190
microbes 445
model 338
nitrogen 338
nutrients 322 445
N15 190
oil 338
organic matter 338
phytoplankton 322
PON 190
primary 445
productivity 445
pulp mill 488
Sea 338 445
sediments 190 338
self purification 349
Seto 338
sewage 338 488
Simoda 190
sulfate 338
sulfide 338
Suruga 488
TOC 349
TOD 349
Tokyo 190
Ura 190
Uranouchi 322
wastes 322 488
winter 445

Jordan
Aqaba 146
calcium 146
Gulf 146
phosphate 146
sewage 146

juveniles
east coast 77
fisheries 77
salinity 77
temperature 77
zooplankton 77

Kaneohe
ammonia 466
ammonium 188
Bay 64 65 94 182 188 200 330 392 466
biomass 65 200 466
C/N 188
Chaetodon miliaris 392
chlorophyll 64 65
coliforms 94
coral 182
detritus 65
diversity 94
DON 466
DPO 466
economics 94
excretion rates 466
fish 392
fisheries 94
growth rates 188 392

Hawaii 64 65 94 182 188 200 330 392 466
metabolism 466
microbes 182
microcopepods 330
model 64
nitrate 64 188
nitrogen 65 94 330
nitrogen fixation 182
P/B 330
phosphate 64 466
phosphorus 94
phytoplankton 64 65 188
PN 200
POC 65
primary 64
productivity 64 330
recreation 94
reproduction 392
secondary 182 330
sediments 182
sewage 64 94 182 188 330 392
size composition 200
size dependent 466
succession 200
uptake rates 188
urea 188
zooplankton 200 392 466

kelp
ammonium 522
boundary layer 522
carbon 522
cycles 522
growth rates 522
industry 232
Ks 522
Macrocystis 522
macroinvertebrates 232
metals 232
morphology 522
nitrogen 522
North 232
nutrients 522
primary 522
productivity 522
Sea 232
sewage 232
succession 232
Vm 522
wastes 232
water velocity 522

Kiel
amphipods 12
Bathyporia sarsi 11
Bay 11 12
benthic 11 12
Bight 121
bioaccumulation 121
Capitella capitata 11 12
community structure 11
fish 121
indicator species 12 121
invertebrates 12
macrofauna 11
mussels 121
Norway 121
oil 121
oligochaetes 11
polychaetes 12
Pygospio elegans 11
sewage 11 12

kinetics
Bayou 313
dissolved solids 313
DO 313
glucose 313
microbes 313
nutrients 313
phosphate 313
productivity 313
redox potential 313
sediment water 313

Klebsiella pneumoniae
acetylene 25
cannery 25
Inlet 25
intertidal 25
New Zealand 25
nitrogen fixation 25
nutrients 25
sediments 25
sewage 25
slaughterhouse 25
Waimea 25
wastes 25

Korea
Bay 238
Chinhae 238
disease 238
fertilizer 238

Porphyra 238
primary 238
productivity 238
wastes 238
Ks
alkaline phosphatase 468 482
ammonia 62
ammonium 482 522
Bay 468 469
biomass 62
boundary layer 522
C/N 62 482
California 62
carbon 482 522
carbon/chlorophyll 62
Chesapeake 468 469
chlorophyll 482
cycles 522
diurnal 62 482
DOP 469
growth rates 522
kelp 522
Macrocystis 522
morphology 522
nitrate 482
nitrogen 62 482 522
nutrients 62 522
N15 62
Olisthodiscus luteus 482
orthophosphate 469
phosphomonoester 468
phosphorus 468 482
phytoplankton 62 468 469
polyphosphate 469
primary 62 522
productivity 62 522
P32 469
sewage 62
turnover rates 469
uptake rates 482
urea 62
Vm 62 468 469 522
water velocity 522
Kungsbackafjorden
benthic 352
Byfjorden 352
crustaceans 352
Estuary 352
Gothenburg 352
indicator species 352
macrofauna 352
meiofauna 352
Saltkallefjord 352
Sweden 352
zooplankton 352
laboratory culture
ammonia 5
benthic 5 106
crustaceans 260
Damariscotta 106
diatoms 5
DO 106
Estuary 106
fish 106
growth rates 106
invertebrates 106
larvae 106
Maine 106
nitrate 5
nitrite 5
orthophosphate 5
Penobscot 106
primary 5
productivity 5
salinity 106
sediments 106
settlement 106
Sheepscot 106
temperature 106
Lagoon
agriculture 60
algae mats 60
Australia 60
benthic 9
California 155
chlorophyll 155
CO2 105
distribution 155
diversity 9 155
DO 105
flushing 155
Gulf 155
macrofauna 9
model 105
molluscs 9
Orielton 60
pH 105
phytoplankton 155
primary 155
productivity 155

runoff 60
salinity 60
sewage 60 105
Shannons Index 9
stabilization 105
Tasmania 60
temperature 60 105
tides 155
wastes 105
Lagrangian multipliers
dynamic programming algorithm 240
management 240
model 240
Laita
Estuary 98
model 98
pulp mill 98
salmonids 98
Lake
abundance 383
alkalinity 383
anaerobic 358
assay 383
benthic 358
dehydrogenase 358
distribution 383
indicator species 383
invertebrates 383
metabolic heat release 358
metabolism 358
microcalorimetry 358
nutrients 358 383
organic matter 358
organisms 358
oxygen 358
pH 383
plankton 383
Pontchartrain 383
primary 383
processes 358
productivity 383
Puget 358
runoff 383
salinity 383
sediments 358
Sound 358
Washington 358
Laminaria
carbon 70
chlorophyll 70
growth rates 70
macrophytes 70
nitrate 70
land development
abundance 43
agriculture 517
Albemarle 43
algae 216
ammonia 43
Bay 92
bibliography 56 57 84
Chesapeake 92
chlorophyll 43
clay 458
DO 216
dredging 96
ecosystem 84
Estuary 209 216
eutrophication 56 57
fertilizer 517
fisheries 96
flood control 96 517
flux 458
Harbor 458
Hong Kong 458
Hudson 209
hydrology 43 517
indices 92
industry 517
Louisiana 96
management 96 209
microbes 216
nitrogen 43
North Carolina 43 517
nutrients 92 96 216 517
pesticides 517
phosphate 458
phosphorus 43
phytoplankton 43 96
Potomac 216
primary 43
productivity 43
Puget 84
recreation 96 517
resources 56 57 209 216 517
runoff 96 216
salinity 43 458
sediments 458
sewage 96

soil erosion 96
Sound 43 84
temperature 43
Tolo 458
trace metals 216
turbidity 43
viruses 216
Washington 84
wastes 216
watersheds 92 517
wetlands 96
landfill
New York 340
oil 340
sewage 340
larvae
benthic 106
Damariscotta 106
DO 106
dredging 107
Estuary 106
fish 106
growth rates 106
invertebrates 106
laboratory culture 106
Maine 106
Penobscot 106
salinity 106
sediments 106
settlement 106
Sheepscot 106
temperature 106
toxicity 107
zooplankton 107
latitudinal gradients
Acartia 227
Balanus 227
Bay 227
bloom 227
Estuary 227
Eurytemora 227
Narragansett 227
New Jersey 227
nutrients 227
organic matter 227
phytoplankton 227
Raritan 227
Rhode Island 227
salinity 227
seasons 227
Virginia 227
wastes 227
York 227
zooplankton 227
leaves
Broad River 292
detritus 292
Estuary 292
fertilizer 292
Florida 292
mangroves 292
pesticides 292
Shark 292
trace metals 292
Lebanon
abundance 472
diversity 472
indicator species 472
nutrients 472
phytoplankton 472
sewage 472
life cycles
algae 248
benthic 248
Oslofjord 248
seasons 248
spatial distribution 248
temporal distribution 248
light
algae 448
ammonium 31
assay 448
Australia 424
Bay 448
benthic 542
benthic oxygen demand 420 542
Bermuda 24
biomass 336
bloom 24 521
BOD 36
carbon 542
chlorophyll 174 424
Chlorophyta 31
coliforms 542
Columbia 175
community structure 174
deoxygenation 542
detritus 424
DO 36 174 542
Duwamish 521

Estuary 31 174 175 336 521
Eurytemora 175
fish 542
freshwater 420
Grevelingen 336
Hacking 424
heat 542
Hudson 31
hydrology 174 420 424 448 521
ice 542
linear regression 175
macrophytes 24
methods 424 542
microflagellates 174
model 420 542
NaCl 36
nanoplankton 174
Netherlands 336
nitrate 31 175
nutrients 24 336 448 521 542
one dimensional 420
Oregon 175 448
organisms 542
Periphyton 521
phosphate 175
phytoplankton 31 174 175 424 521 542
Port 424
primary 24 174 336 542
productivity 24 174 336 542
rate constants 542
reaeration 542
runoff 420 424
salinity 174
salts 36
seasons 175 448 521
sediments 36 424
sewage 448
silica 175
Skeletonema 31
spatial distribution 542
stochastic 420
suspended solids 36 424
temperature 36 174 420 448
temporal distribution 542
turbidity 36 420
uptake rates 31
water velocity 336
Yaquina 448
York 174
zooplankton 175 542
Zostera marina 336
Limacina retroversa
Bay 524
bloom 524
dinoflagellate 524
Fundy 524
Gonyaulax excavata 524
herring 524
pteropods 524
Limnodrilus
benthic 539
bioturbation 539
BOD 539
Delaware 539
Estuary 539
fauna 539
oligochaetes 539
organic 539
sediments 539
wastes 539
linear regression
Bay 173
Chesapeake 173
Chickahominy 173
Columbia 175
Estuary 173 175
Eurytemora 175
James 173
light 175
nitrate 175
nutrients 173
Oregon 175
Patuxent 173
phosphate 175
phytoplankton 175
Potomac 173
Rappahannock 173
seasons 173 175
silica 175
Susquehanna 173
watersheds 173
York 173
zooplankton 175
Linnhe Eil
annelids 370
benthic 370
crustaceans 370
England 370
indicator species 370

Loch 370
molluscs 370
pulp mill 370
succession 370
Little Creek
Elizabeth 327
Estuary 327
Harbor 327
industry 327
James 327
Lynnhaven 327
management 327
model 327
Nansemond 327
nonpoint sources 327
Pagan 327
Poquoson 327
predictions 327
sewage 327
wastes 327
York 327
Little River
Australia 154
biomass 154
chlorophyll 154
DO 154
Estuary 154
hydrology 154
H3 154
phosphorus 154
phytoplankton 154
primary 154
productivity 154
P32 154
salinity 154
temperature 154
zooplankton 154
Liverpool
Bay 23 199
coliforms 23
DIN 199
DRP 199
Great Britian 23 199
long term 199
nitrogen 199
phosphorus 199
seasons 199
sewage 23
tracer 23
local
agencies 14 61 159
Bay 61 297
Chesapeake 297
cycles 297
dredging 14
federal 484
Florida 14
management 61 159 484
microbes 297
nitrogen 297
nutrients 297
participation 61
phosphorus 297
phytoplankton 297
public opinion 61 159
rainfall 297
resources 159
San Francisco 61
sediments 297
sewage 14
state 14 159 484
symposium 297
uptake rates 297
vertical transport 297
wetlands 14
zooplankton 297
Loch
annelids 370
benthic 370 393
carbon 454
chlorophyll 454
Craiglin 171 393
crustaceans 370
density 393
DO 171
England 370
fauna 393
fertilizer 171 393
fish 171
flounder 171
growth rates 171
Hydrobia ulvae 393
indicator species 370
Linnhe Eil 370
molluscs 370
Nevis 454
nitrate 454
North 454
phosphate 454
POC 454

productivity 393 454
pulp mill 370
Scotland 454
Sea 454
sexual maturity 171
succession 370
Long
growth rates 39
Harbor 39
indicator species 39
molluscs 39
Newfoundland 39
phosphorus 39
Long Island
cobalamin 509
DOM 404
microbes 404
nutrients 509
organic aggregates 404
orthophosphate 509
phytoplankton 404 509
POM 404
seasons 404 509
Sound 404 509
thiamine 509
zooplankton 404
long term
abundance 120
algae 120
Bay 199
benthic 120
diatoms 153
DIN 199
distribution 153
diversity 120
DRP 199
Great Britian 120 199
Liverpool 199
nitrogen 199
North 153
phosphorus 199
phytoplankton 153
reproduction 120
Sea 153
seasons 120 199
temperature 153
wastes 120
zooplankton 153
longitudinal
density 530
dispersion 530
dye 530
Estuary 530
hydrology 530
mixing 530
model 530
point sources 530
vertical shear 530
York 530
Los Angeles
algae 400
benthic 400 447
bioenhancement 447
biomass 447
California 400 447
cannery 447
diversity 447
DO 447
fish 447
Harbor 400 447
indicator species 400
oil 400
oligochaetes 400
organisms 447
plankton 447
polychaetes 400
productivity 447
sewage 400 447
wastes 400 447
Louisiana
algae 442
anaerobic 127
Barataria 95
Basin 95
Bay 402
COD 442
denitrification 127
diffusion 127
DO 126
dredging 96
Estuary 402
fisheries 95 96
flood control 96
floodwaters 127
Florida 402
freshwater 402
industry 442
land development 96
management 96 402
marshes 126 442

microbes 442
nitrate 126 127
North Carolina 402
nursery grounds 95
nutrients 95 96 402 442
Palm 402
phytoplankton 96
radioactivity 402
recreation 96
redox potential 126 127
runoff 96 402 442
salinity 95
Santee 402
sediments 126
sewage 96 442
soil erosion 96
South Carolina 402
swamps 402
TOC 442
wastes 442
wetlands 95 96 402
Lynnhaven
Elizabeth 327
Estuary 327
Harbor 327
industry 327
James 327
Little Creek 327
management 327
model 327
Nansemond 327
nonpoint sources 327
Pagan 327
Poquoson 327
predictions 327
sewage 327
wastes 327
York 327
macroalgae
algae bluegreen 335
Baltic 335
benthic 335
detergent 335
DO 335
energy transfer 335
fish 335
indicator species 335
model 335
organisms 335
primary 335
productivity 335
Sea 335
sewage 335
symposium 335
zooplankton 335
Macrocystis
ammonium 522
boundary layer 522
carbon 522
cycles 522
growth rates 522
kelp 522
Ks 522
morphology 522
nitrogen 522
nutrients 522
primary 522
productivity 522
Vm 522
water velocity 522
macrofauna
algae 72
analysis of variance 395
Bathyporia sarsi 11
Bay 11 72 76
benthic 9 11 72 76 137 352 356 395 409
biomass 409
Bothnia 137
Byfjorden 352
cannery 76
Capitella capitata 11
Chesapeake 72
chlorinated hydrocarbons 137
community structure 11
crustaceans 352
disease 356
dissolved solids 137
distribution 309
diversity 9 17 395 409
DO 72 137
energy transfer 72
Estuary 309 352
Firth of Forth 395
fish 17 356
foraminifera 72
Gothenburg 352
Gulf 137
hydrology 137
indicator species 352

indices 395
intertidal 17 309 395
invertebrates 17
Irish 309
iron 137
Kiel 11
Kungsbackafjorden 352
Lagoon 9
macrophytes 72
meiofauna 352
Mersey 309
microbes 72
Mississippi 356
molluscs 9
nutrients 72 137
oil 137
oligochaetes 11
organic 309
parasites 356
pesticides 137 356
phosphorus 137
phytoplankton 72 137
primary 137
productivity 137
Puget 17
pulp mill 409
Pygospio elegans 11
Saldanha 76
Saltkallefjord 352
Sea 309
seasons 309 395
sediments 17 137
sewage 11 17 72 356
Shannons Index 9
Sound 17
South Africa 76
succession 409
Sweden 352
symposium 137
trace metals 72 137 356
Washington 17
wastes 76 137 309
zooplankton 72 137 352

macroinvertebrates
ammonia 314
Bayou 314
calorific content 277
DO 314
Florida 314
industry 232
kelp 232
macrophytes 277
metals 232
nitrate 314
North 232
phosphate 314
phytoplankton 314
Sea 232
sewage 232 277
succession 232
Texar 314
TOC 314
wastes 232
zooplankton 314

macrophytes
aerobic 537
algae 72 537
algae bluegreen 247
ammonia 157 247
Baule Mitschlerlich 511
Bay 52 72
benthic 72 333 511 529 540
Bermuda 24
biomass 52 247 537
bloom 24 537
British Columbia 247
C/N 333
California 276
calorific content 277
Canada 52
carbon 70
Chesapeake 72
chlorophyll 70
CO2 537
cycles 247
C14 537
denitrification 157
density 537
detritus 537
DO 72
Econfina 540
energy transfer 72 276
Estuary 103 540
eutrophic 157
fauna 276
foraminifera 72
Great Britian 529
growth rates 70
indicator species 529
intertidal 276

Laminaria 70
light 24
macrofauna 72
macroinvertebrates 277
metabolism 276
microbes 72 247 537
model 157
nitrate 70 157
nitrification 157
nitrogen 157 247
nutrients 24 72 511
organic 157
organic matter 157
Pamlico 103
Phaeophyta 333
phosphate 52 247
phosphorus 247
phytoplankton 72 157 511
primary 24 276 511
processes 157
productivity 24 276 511
Quinte 52
seasons 103 276
sediments 247 537
sewage 52 72 276 277
Spain 333
Tenholloway 540
tertiary 52
trace metals 72
turbidity 511
turnover rates 537
uptake rates 157 537
Vm 537
water column 537
zooplankton 72 157

Maine
benthic 106
Damariscotta 106
DO 106
Estuary 106
fish 106
growth rates 106
invertebrates 106
laboratory culture 106
larvae 106
Penobscot 106
salinity 106
sediments 106
settlement 106
Sheepscot 106
temperature 106

Malagasy Republic
Bay 147
Cladocera 147
Evadne tergestina 147
Nosy Be 147
Penilia avirostris 147
phytoplankton 147
rainfall 147
seasons 147
tropical 147
zooplankton 147

Malpeque
abundance 499
Bay 499
carbon 499
cycles 499
microbes 499
nitrogen 499
oysters 499
phosphorus 499
productivity 499

management
aerobic 183
agencies 61 159
algae bluegreen 215
amino acids 528
Bay 61 73 74 231 402 429
benthic 508 528
bibliography 73 325 435
biomass 231
BOD 109
chemical 109 428
Chesapeake 73 74 429
chlorinated hydrocarbons 491
chlorophyll 215
coliforms 183
conference 528
crabs 231
cycles 183 428 528
Delaware 109 411
detritus 528
directory 73
dredging 96 498
dynamic programming algorithm 240
economics 85 217 491 494 498 508
Elizabeth 327
energy transfer 231
Estuary 53 109 183 209 215 217

327 402 411
eutrophication 73 325 435
federal 484
fish 231 515 528
fisheries 74 96 291 398 411 494 498 528
flood control 96
Florida 402
freshwater 231 402
Galveston 231
global 490
Great Britian 85
Harbor 327
Hudson 209
hydrology 183 491 515
industry 109 205 327 498 508
invertebrates 528
James 327
Lagrangian multipliers 240
land development 96 209
Little Creek 327
local 61 159 484
Louisiana 96 402
Lynnhaven 327
Mediterranean 491
methods 435
microbes 183 491 528
model 109 183 205 231 240 327 411 515
monitoring 490
municipal 109
Nansemond 327
nitrogen 183 528
nonpoint sources 327
North 411
North Carolina 402
nutrients 96 215 217 402 428 471 491 494 498 515 528
oil 491 528
organisms 508 528
oysters 471
Pagan 327
Palm 402
participation 61
pesticides 435 508 528
phosphorus 528
phytoplankton 96 411 515
plants 508
Poquoson 327
Potomac 53 183 215 217
power plant 498
predictions 183 327
primary 515
processes 183
productivity 231 428 515
public opinion 61 159 429 498 508
Puget 515
radioactivity 402 491
real time 183
recreation 96 508
research 490
resources 159 209 398 429 490 491 494 498
runoff 96 205 402
salinity 231 471
San Francisco 61
Santee 402
Scotland 83
Sea 411 491
seagrass 528
secondary 231
sediments 491
self purification 83
sewage 96 215 327 471
shrimp 231
silica 528
soil erosion 96
Sound 515
South Carolina 402
state 159 484
stochastic 205
stress 528
succession 411 515
swamps 402
symposium 494 498
tertiary 508
Texas 231
thermal 435
three dimensional 515
tides 183
trace metals 435 491 528
Transient Water Quality Network 183
trophic levels 515
urea 528
Washington 515
wastes 109 327 508
wetlands 96 402 528
York 327

zooplankton 528
manganese
alkalinity 293
ammonia 293
Bay 207 293
Chesapeake 207 293
chloride 293
dissolved 207
distribution 293
DOC 416
inorganic 416
interstitial 207 293
iron 293
model 207
nutrients 416
pH 207 293
phosphate 293
phytoplankton 416
primary 416
productivity 416
redox potential 293
seasons 293
sewage 416
silica 293
steady state 207
sulfate 293
Mangoku
ammonia 190
Bay 190 252
denitrification 190
Japan 190
microbes 252
nitrate 252
nitrification 252
N15 190 252
Odawa 252
PON 190
reduction 252
sediments 190 252
Simoda 190
Tokyo 190
Ura 190 252
Zostera 252
mangroves
Broad River 292
denitrification 326
detritus 292
Estuary 292
fertilizer 292
Fiji Island 326
Florida 292
inorganic 326
leaves 292
microbes 326
nitrogen 326
pesticides 292
secondary 326
sediments 326
sewage 326
Shark 292
tertiary 326
trace metals 292
marina
flushing 437
indices 437
model 437
nomogram 437
sediments 437
marine pollution
international 281
symposium 281
Marseilles
benthic 234
detergent 234
France 234
Gulf 234
organisms 234
Posidonia oceanica 234
seagrass 234
sewage 234
marshes
algae 339 442
alkalinity 149
ammonia 177
ammonium 210
ATP 193
bacteria 339
barnacles 507
Bay 22
biomass 339
birds 339
cadmium 210
calcium 339 461
carbohydrates 193
carbon 21 22 192 193 339
Carter 21
Chesapeake 22
chlorophyll 193
COD 442
Creek 21

crude fiber 193
crustaceans 339
cycles 21
detritus 22 75 192
DO 126
DON 177
energy transfer 75 192
Estuary 158 192 193 507
fish 339
flux 22
foraminifera 339
Georgia 59 177
heterotrophic 339
history 158
industry 442
insects 339
Louisiana 126 442
Maryland 192 193
meiofauna 339
microbes 59 75 442
model 75 507
molluscs 339
mussels 507
New Jersey 390
nitrate 126 177
nitrite 177
nitrogen 21 22 193 210 339 461
North Inlet 507
nutrients 75 149 192 210 442
oysters 507
Patuxent 192 193
Pb210 158
phosphorus 21 22 149 193 210 339 461
phytoplankton 339 507
plants 461
plutonium 158
PON 177
pond experiment 339
pools 177
potassium 461
primary 21 22 192 390 507
processes 507
productivity 21 22 192 339 390 507
records 158
redox potential 126
runoff 442
Savannah 158
sediment water 21
sediments 59 126 149 158 210 461
sewage 339 442
silica 149
South Carolina 149
Spartina 75
Spartina alterniflora 390
suspended solids 59
tertiary 339
tidal creek 177
tides 22 210 507
TOC 442
trace metals 149 210
Virginia 21
vitamin B12 59
Ware 21
wastes 442
water column 507
wetlands 192
zinc 210
Maryland
algae 430
alkalinity 380
ammonia 430
ATP 193
Bay 380 451
bibliography 451
biomass 304
carbohydrates 193
carbon 192 193 195
Chesapeake 380 451
chlorophyll 193 350
Chlorophyta 430
coliforms 380
Copepoda 195
crude fiber 193
crustaceans 195
Cyanophyta 430
DC 380
detritus 192 195
diurnal 93
DO 93 304 380
dye 68
energy transfer 192 195
Estuary 93 192 193 195 304 350 380 430
Eurytemora affinis 195
indices 350
industry 380
James 380
marshes 192 193

methods 350
microbes 195
nitrate 380
nitrogen 193
nutrients 192 304 380
outfall diffuser 68
Patuxent 93 192 193 195 304 350 380
pesticides 380
pH 380
phosphate 380 430
phosphorus 193 304
phytoplankton 304
Potomac 380 430
primary 93 192 195 304
productivity 93 192 195 304
Rappahannock 380
remote sensing 350
respiration 93
salinity 68
Scottlana canadensis 195
secondary 430
sediments 304 380
sewage 68 93 380 430
suspended solids 350
Susquehanna 380
temperature 68
thermal 304
trace metals 380
Virginia 380
wastes 380
watersheds 380
wetlands 192 195
York 380

mass transfer
interstitial 503
model 503
North 503
Sea 503
silica 503
two layer 503
zone 503

Massachusetts
Bay 406
benthic 10 331
bloom 10
Buzzards 406
C/N 406
chlorophyll 406
cysts 10
detritus 406
dinoflagellate 10
Estuary 82
Gonyaulax 10
indicator species 331
inorganic 161
invertebrates 331
nanoplankton 406
nematodes 331
nitrate 82
nitrogen 161
nutrients 82
phosphate 82
phytoplankton 82 161
Pines 82
POC 406
PON 406
pond experiment 161
recreation 82
red tide 10
seasons 331 406
sewage 82 161 331
spores 10
Suagus 82
suspended solids 406
tertiary 161
toxicity 10
Ulva 82
Woods Hole 331
zooplankton 406

Massartia rotundata
Bay 287 365
bloom 287
chlorophyll 365
energetics 365
New York 287
Olisthodiscus luteus 287
phytoflagellate 287
plankton 365
productivity 365
Prorocentrum micans 287
Raritan 365
respiration 365
salinity 287

matrix
Bay 372
Corpus Christi 372
model 372
nitrogen 372
Texas 372

Mediterranean
chlorinated hydrocarbons 491
economics 491
hydrology 491
management 491
microbes 491
nutrients 491
oil 491
radioactivity 491
resources 491
Sea 491
sediments 491
trace metals 491
meiofauna
algae 256 339
bacteria 256 339
benthic 352
biomass 339
birds 256 339
Byfjorden 352
calcium 339
carbon 256 339
community structure 256
crustaceans 256 339 352
Estuary 352
fish 256 339
foraminifera 256 339
Gothenburg 352
heterotrophic 256 339
indicator species 352
insects 256 339
Kungsbackafjorden 352
macrofauna 352
marshes 339
metabolism 256
molluscs 256 339
nitrogen 256 339
phosphorus 256 339
phytoplankton 256 339
pond experiment 256 339
productivity 256 339
Saltkallefjord 352
sewage 256 339
Sweden 352
tertiary 339
zooplankton 352
Mercenaria
amino acids 225
carbohydrates 225
clams 225
glycine 225
oil 225
sewage 225
stress 225
taurine 225
Mersey
distribution 309
Estuary 309
intertidal 309
Irish 309
macrofauna 309
organic 309
Sea 309
seasons 309
wastes 309
metabolic heat release
anaerobic 358
benthic 358
dehydrogenase 358
Lake 358
metabolism 358
microcalorimetry 358
nutrients 358
organic matter 358
organisms 358
oxygen 358
processes 358
Puget 358
sediments 358
Sound 358
Washington 358
metabolism
aerobic 58
algae 256
ammonia 466
anaerobic 58 358
assay 58
autotrophic 86
bacteria 256
Bay 86 224 466
benthic 224 358
biomass 466 525
birds 256
California 276
carbon 256
community structure 88 256
Connecticut 58
Copps Brook 58
crustaceans 256
cycles 224

degradation 58
dehydrogenase 358
diversity 88
DOC 58
DON 466
DPO 466
energy transfer 276 534
excretion rates 466
fauna 276
fish 88 256 534
foraminifera 256
freshwater 86
Georgia 386
growth rates 534
Hawaii 466
heterotrophic 86 256
hydrology 224
industry 86 452
insects 256
interstitial 58
intertidal 276
Kaneohe 466
Lake 358
macrophytes 276
meiofauna 256
metabolic heat release 358
microbes 58 525
microcalorimetry 358
microcosms 86
model 58 386
molluscs 256
mussels 162
New Jersey 224
nitrate 224
nitrogen 162 256
nutrients 58 86 88 162 358
organic 162
organic matter 58 358
organisms 358
oxygen 358
PHB 525
phosphate 162 224 466
phosphorus 256 386
phytoplankton 86 256
POC 58
poly B hydroxybutyrate 525
pond experiment 256
populations single 452
primary 86 276
processes 224 358 386
productivity 86 256 276 534
Puget 358
Raritan 224
respiration 86
seasons 224 276 386
sediment water 386
sediments 58 358 525
sewage 256 276
size dependent 466
Sound 358
stress 88 452 534
tetrazolium salt 58
Texas 86 88
TLm 452
Trinity 86
USSR 162
Washington 358
wastes 86 452
watersheds 58
zooplankton 86 88 466
metals
industry 232
kelp 232
macroinvertebrates 232
North 232
Sea 232
sewage 232
succession 232
wastes 232
methane
argon 396 397
Bay 396 397
bubbles 396
Chesapeake 396 397
CO2 396 397
H2S 396
nitrogen 396 397
seasons 397
sediment water 396
sediments 397
methianine
biosorption 543
C14 543
fish 543
urea 543
methods 476
acid extraction 206
agencies 18
Aisne 35
algae 351 418

algae colonial 152
amino acids 456
ammonia 123 165 180
ammonium 228
animals 399
assay 351 399 418
ATP 135 206 465
Australia 424
bacteria 456
bacteria proteolytic 456
bacterioplankton 114
batch culture 418
Bay 18 228 296 465 485
benthic 542
benthic oxygen demand 542
bibliography 213 435 436
biomass 296
buoys 37
C/N 465
California 37
carbohydrates 456
carbon 35 135 542
ceramic panel substrates 37
charcoal adsorption 206
chemical 179
Chesapeake 18 296 485
chlorinated hydrocarbons 37
chlorophyll 296 350 424
coliforms 542
community structure 483
C14 152 456
deoxygenation 542
detergent 436
detritus 424
dispersion 37
DO 213 272 542
dry weight 489
economics 37
enzymes 165
Estuary 35 135 249 350 426 493
eutrophication 213 435
exchange diffusion 123
fauna 18 456
fish 542
fisheries 465
flora 18
France 35
fungus 456
Hacking 424
heat 542
heterotrophic 456
hydrology 399 424
ice 542
indicator species 399
indices 350 456
instruments 272 436
interference 54
interstitial 46 485
iron 46 485 493
light 424 542
management 435
Maryland 350
microbes 135 179 399 456
model 114 436 542
mucus 152
nanoplankton 296
New Jersey 426
New York 426
Newport 135
nitrate 54 123 228 235
nitrite 228
nitrogen 35 228
North Carolina 135 493
nutrients 249 271 436 465 542
N14 118
N15 118
Obelia dichtoma 37
oil 399 436 456
organic 135
organisms 542
orthophosphate 46 228
oxidation 46
oxidation rates 35 485
Pamlico 493
Patuxent 350
PC 465
percolator 165
pesticides 435 436
phosphate 123
phosphorus 228 493
phytoplankton 114 296 424 456 542
PN 465
Port 424
primary 152 296 465 483 542
processes 456
productivity 37 114 152 296 465 542
pulp mill 456
Raritan 426

rate constants 542
reaeration 542
recipient analog 483
remote sensing 350
removal 271
runoff 424 465
salinity 456
sampling frequency 249
San Francisco 228
seasons 135
secondary 118 123 483
sediment water 179
sediments 135 165 206 424 493
Seine 35
sewage 37 271 418 456 483
silica 152
spatial distribution 426 542
Squamish 249
St Margaret 465
sulfate 165
suspended solids 350 424 465 489
symposium 456
temperature 35
temporal distribution 426 542
tertiary 483
thermal 213 435 456
trace metals 37 213 426 435 436
456
tris extraction 206
urea 165
uv/resin 54
wastes 118 123 399
zooplankton 296 542

Meydenbauer
Bay 425
San Diego 425
sewage 425
water craft 425
Wollochet 425

Michaelis Menton
Agnes 415
Bay 71 415
BOD 71
Chesapeake 415
chlorophyll 415
diatoms 347
distribution 71
DO 71
Estuary 415
filter feeders 347
flagellates 347
Hurricane 415
hydrology 71
model 71 347 415
nitrogen 415
nutrients 71
pH 71
phosphorus 415
phytoplankton 71 415
quasi linear 415
salinity 71
San Francisco 71
seasons 71
silica 347
Susquehanna 415
temperature 71
time constants 347
wastes 415
zooplankton 347

microbes
abundance 167 499
aerobic 58 122 183 537
Alaska 319
algae 72 133 216 343 442 537
algae bluegreen 247 254 533
alkaline phosphatase 142 470
amino acids 456 528
ammonia 203 247 487
anaerobic 58
animals 399
annelids 167
arctic 319
assay 58 399
ATP 135 275
bacteria 456
bacteria proteolytic 456
Bay 72 133 141 182 252 297 417
423 470 499
Bayou 313
benthic 72 319 528
Bight 275
biomass 133 167 203 247 275 332
445 525 533 537
black necrosis 2
bloom 275 445 533 537
BOD 487 541
British Columbia 247
Burry Inlet 2
cadmium 275
Cancer 139

carbohydrates 456
carbon 27 135 195 220 499
Ceratium 275
chemical 16 20 179 516
Chesapeake 72 133 141 297 417
chlorinated hydrocarbons 491
chlorophyll 220 423 470
Chowan 533
clay 385
COD 442
coliforms 122 183
conference 528
Connecticut 58
Cook 319
Copepoda 195
Copps Brook 58
coral 182
CO2 220 537
crabs 139
Crangon crangon 2
crustaceans 195
Cyanophyta 254
cycles 183 247 297 499 528
C14 456 537
decomposition 299
degradation 58
denitrification 326
density 537
deposition 328
detergent 2
detritus 75 195 328 528 537
diagenesis 502
diatoms 445
dissolved solids 313
distribution 417 470
diversity 167 533
DNA 470
DO 2 72 216 220 313 319 332 541
Doboy 385
DOC 58
DOM 404
economics 491
eggs 139
electron transfer 299
energy transfer 72 75 141 195
299
enzymes 470
epibiotic fouling 139
Estuary 27 133 135 141 167 183
195 203 216 220 328 423 533
Eurytemora affinis 195
eutrophic 20
fatty acids 423
fauna 167 456
Fiji Island 326
fish 516 528
fish kills 254
fisheries 528
flux 385
food processing 516
foraminifera 72
fungus 456 501
gastrotrichs 167
Georgia 59 385
glucose 313
Great Britian 2 167
growth rates 299
Harbor 20
Hawaii 182
heat 141
heterotrophic 456
heterotrophic potential 500
hosts 254
hydrology 20 141 183 399 491
indicator species 254 399 417
indices 16 220 456 470
industry 275 442 516
Inlet 319
inorganic 27 203 326 385
interstitial 58
invertebrates 528
James 27
Japan 445
Kaneohe 182
kinetics 313
land development 216
local 297
Long Island 404
Louisiana 442
macrofauna 72
macrophytes 72 247 537
Malpeque 499
management 183 491 528
Mangoku 252
mangroves 326
marshes 59 75 442
Maryland 195
Mediterranean 491
metabolism 58 525
methods 135 179 399 456

mining 203
mixing depth 541
model 27 58 75 183 502
Narragansett 423
nematodes 167
New York 275
Newport 135
nitrate 27 203 252 487
nitrification 252 487
nitrite 27 487
Nitrobacter 487
nitrogen 183 247 297 319 326 499 502 528 541
nitrogen fixation 182
Nitrosomona 487
nonpoint sources 541
North Carolina 135 203 533
nutrients 58 72 75 139 141 142 203 216 220 297 313 343 442 445 491 516 528
N15 252
Odawa 252
oil 399 423 456 491 528
oligochaetes 167
Oregon 516
organic 27 135 141 500 541
organic aggregates 404
organic matter 58 299
organisms 319 528
orthophosphate 133
oysters 499
Pamlico 203
Patuxent 141 195
pesticides 220 528
pH 2 142 319 332
PHB 525
phosphate 27 142 203 247 313 385
phosphorus 247 297 319 470 499 528 533 541
phytoplankton 27 72 141 203 297 404 456 533
plankton 20 122 319
plants 141
POC 58
point sources 541
poly B hydroxybutyrate 332 525
polychaetes 167
POM 404
populations mixed 500
Potomac 183 216 220
power plant 141
predictions 27 183 541
primary 141 195 343 445
processes 27 183 328 456
productivity 141 195 313 343 445 499
profiles 541
protein 470
Providence 423
pulp mill 456
P32 385
radioactivity 491 516
rainfall 297
Rappahannock 328
real time 183
red tide 122
redox potential 299 313 328
reduction 252
resources 216 491 516
respiration 343 487
Rhode 133
runoff 216 442 541
salinity 2 319 328 332 456 541
Schizothrix calicola 254
Schofield 27
Scottlana canadensis 195
Sea 445 491
seagrass 528
seasons 135 142 404 501
secondary 182 326 343
sediment water 179 313 385
sediments 58 59 135 182 247 252 275 297 326 328 332 417 491 525 537 541
seston 470
sewage 27 72 122 142 167 182 319 326 343 417 423 442 456 516
silica 319 502 528
soil erosion 541
Sound 385 404
Spartina 75
Sphaerotilus 516
steady state 299
stochastic 27
stress 528
substrates 299
surface waters 541
suspended solids 59 417 423
symposium 297 456
synthesis 501

Taunton 423
Tees 167
temperature 2 27 541
tertiary 326
tetrazolium salt 58
thermal 141 456 516 541
tides 183
TOC 220 442
Tokyo 470
trace metals 2 72 216 456 491 516 528
Transient Water Quality Network 183
turbidity 541
turnover rates 537
uptake rates 133 297 533 537
Ura 252
urea 528
vertical transport 297
Virginia 27
viruses 216 254
vitamin B12 59
vitamins 501
Vm 537
wastes 20 216 220 275 399 442 500
water column 417 537
watersheds 58
wetlands 195 528
winter 445
yeast 501
zooplankton 72 297 404 528
Zostera 252

microcalorimetry
anaerobic 358
benthic 358
dehydrogenase 358
Lake 358
metabolic heat release 358
metabolism 358
nutrients 358
organic matter 358
organisms 358
oxygen 358
processes 358
Puget 358
sediments 358
Sound 358
Washington 358

microcopepods
Bay 330
Hawaii 330
Kaneohe 330
nitrogen 330
P/B 330
productivity 330
secondary 330
sewage 330

microcosms
algae 140
ammonia 387
autotrophic 86
Bay 86 140 379 387
biomass 140
carbon 362 387
Chesapeake 140
chlorophyll 140
ctenophores 362
C14 140
diversity 364
DO 194 387
energy transfer 362
flux 362 379 387
freshwater 86
heterotrophic 86
industry 86
metabolism 86
Narragansett 379 387
nitrogen 194 362 387
nutrients 86 362 364 387
phosphorus 194 379 387
phytoplankton 86 194
plankton 364
primary 86 140 362
productivity 86 140 194 362 364
respiration 86
Rhode Island 387
sediment water 379 387
sediments 387
sewage 140
Texas 86
trace metals 387
Trinity 86
wastes 86
zooplankton 86 140 194

Microcystis
algae 312
Anabaena 312
carbon 312
Chlorella 312

CO2 312
growth rates 312
microflagellates
chlorophyll 174
community structure 174
DO 174
Estuary 174
hydrology 174
light 174
nanoplankton 174
phytoplankton 174
primary 174
productivity 174
salinity 174
temperature 174
York 174
microplankton
chlorophyll 403
Estuary 403
nanoplankton 403
Parramatta 403
primary 403
productivity 403
microstructure
sediments 538
suspended solids 538
mineralization
bacteria attached 164
bacteria free 164
Estuary 164
glucose 164
Humber 164
organic matter 164
suspended solids 164
mining
algae 87
algae bluegreen 66
ammonia 203
animals 202
benthic 87
biomass 66 201 203
bloom 201
cycles 464
DO 202 464
DON 201
Estuary 66 87 90 201 202 203
fauna 87
fertilizer 202 464
fish 202 513
hydrology 87 90 201
industry 202 464
inorganic 201 203
microbes 203
nitrate 201 203
nitrogen 66 87 201 202
North Carolina 90 202 203
nutrients 203 463
oil 513
Pamlico 66 87 90 201 202 203
pesticides 513
phosphate 202 203
phosphorus 66 87 90 201 463 464
phytoplankton 66 87 90 201 202 203
plankton 202
pool experiment 66
primary 202
productivity 202 463
pulp mill 513
radioactivity 513
Rangia 90
runoff 464 513
salinity 90 202
sediments 90 201
sewage 202 464 513
succession 201
Tar 201
temperature 202
thermal 513
uptake rates 90
wastes 66 90 464 513
zooplankton 87
Mississippi
benthic 356
disease 356
dissolved 131
distribution 125
Estuary 131
fish 356
indices 125
inorganic 131
macrofauna 356
nitrate 125
nutrients 125
Orinoco 131
parasites 356
pesticides 356
phosphate 125
plumes 131
resources 125

Savannah 131
sewage 356
silica 131
Sound 125
suspended solids 131
trace metals 356
uptake rates 131
mixing
density 530
dispersion 530
dye 530
Estuary 530
hydrology 530
longitudinal 530
model 530
point sources 530
vertical shear 530
York 530
mixing depth
BOD 541
DO 541
microbes 541
nitrogen 541
nonpoint sources 541
organic 541
phosphorus 541
point sources 541
predictions 541
profiles 541
runoff 541
salinity 541
sediments 541
soil erosion 541
surface waters 541
temperature 541
thermal 541
turbidity 541
Mobile
Alabama 132
Bay 132
hydrology 132
interface salt fresh 132
model 132
momentum transfer 132
sediments 132
three dimensional 132
time dependent 132
transport 132
model
advection 42
aerobic 58 183
Agnes 415
Alabama 132
algae 438
algae bluegreen 335
algae mats 33
ammonia 29 157 407 477
ammonium 467
Anacostia 78
anaerobic 58
assay 58
bacterioplankton 114
Baltic 335
barnacles 507
Bay 41 42 64 71 132 168 198 207 231 262 345 346 353 354 366 372 378 415 419 427 467 510
Belgium 504
benthic 33 335 338 438 542
benthic oxygen demand 33 80 420 542
bibliography 250 263 264 265 266 267 268 345 346 436
biomass 231
Biscayne 427
bloom 80
BOD 1 71 99 109 212 283 342 348 353 477 523
California 477
carbon 27 168 342 542
carbon oxygen demand 80
CBOD 407 408
chemical 109 427
chemostat 169
Chesapeake 41 42 168 207 345 346 415 419 467 510
chlorophyll 64 80 407 415
COD 338
coliforms 1 183 353 407 542
conceptual 168
Connecticut 58
Copps Brook 58
Coriolis 42
Corpus Christi 372
CO2 105
crabs 231
crustaceans 338
cycles 183 342 477
DC 1 283
degradation 58

Delaware 109 342 411 477 523
Delta 477
denitrification 157 504
density 198 280 530
density homogeneous 258
deoxygenation 542
detergent 335 436
deterministic 419
detritus 75
diagenesis 502
diatoms 347
diffusion 261 419 467
dilution 510
DIN 477
dispersion 530
dispersion coefficient 170 283
dissolved 207
distribution 71
DO 1 29 71 80 97 99 105 212 283 335 342 353 407 408 477 542
DOC 58
DOD 283
dye 1 78 530
dynamic programming algorithm 240
Elizabeth 327
energy transfer 75 231 335 348 354
Estuary 1 27 29 33 78 80 98 99 109 170 183 212 223 255 283 327 341 342 407 408 411 415 419 467 477 478 507 510 523 530
eutrophic 157
eutrophication 250 263 264 265 266 267 268 345 346
feed forward 462
feedback 462
filter feeders 347
finite difference 34 41
fish 231 335 515 542
fisheries 338 411
flagellates 347
Florida 427
flushing 437
flux 342 366
free surface 427
frequency analysis 261
freshwater 231 378 420
FWQA Dynamic 78
Galveston 231
Georgia 386
growth rates 169
Harbor 327
Hawaii 64
heat 542
Hurricane 415
hydrology 41 42 71 97 100 132 183 198 212 250 262 263 264 265 266 267 268 280 321 354 378 420 510 515 530
ice 542
indicator species 335
indices 437
industry 109 205 327 348
inorganic 27 407
instruments 436
interface salt fresh 132
interstitial 58 207 503 504 536
intracellular 100 169
isopleths 223
Jamaica 262 353
James 27 327
Japan 338
Kaneohe 64
Lagoon 105
Lagrangian multipliers 240
Laita 98
light 420 542
Little Creek 327
longitudinal 530
Lynnhaven 327
macroalgae 335
macrophytes 157
management 109 183 205 231 240 327 411 515
manganese 207
marina 437
marshes 75 507
mass transfer 503
matrix 372
metabolism 58 386
methods 114 436 542
Michaelis Menton 71 347 415
microbes 27 58 75 183 502
mixing 530
Mobile 132
momentum transfer 132
municipal 109
mussels 507
Nansemond 327

Narragansett 198
NBOD 408
negentropy 366
New York 262 353
nitrate 27 64 157 407 467 504
nitrification 157 504
nitrite 27 407 477 504
nitrogen 29 80 100 157 169 183 321 338 342 353 372 407 415 477 478 502
nitrogen oxygen demand 80
nomogram 437
nonadvective 244
nonpoint sources 223 327 523
North 411 503
North Inlet 507
nutrients 1 58 71 75 80 100 168 223 341 342 436 478 515 542
oil 338 436
one dimensional 34 255 407 408 419 420
Oregon 33 170
organic 27 157 407
organic matter 58 157 338 504
organisms 335 542
oxidation 477
oysters 507
Pagan 327 407 408
pesticides 348 436
pH 71 105 207
phosphate 27 64
phosphorus 80 100 223 342 353 386 407 415 478
phytoplankton 1 27 64 71 80 114 157 169 341 342 407 411 415 477 478 507 515 542
plankton 366
POC 58
point sources 530
populations mixed 237
Poquoson 327
Potomac 1 78 80 99 183 223 255 283 341 342 419 467 477 478
predictions 27 78 183 327
primary 64 80 335 507 515 542
processes 27 157 183 223 244 354 386 427 507 536
productivity 64 80 114 231 335 507 515 542
Puget 515
pulp mill 98
quasi linear 415
radioactivity 345 346
Raritan 366
rate constants 542
reaeration 80 542
real time 183 212 321 407 408
resources 345 346
respiration 80
runoff 205 223 420
Sacramento 341
Sacramento San Joquin 477
salinity 33 71 198 212 231 353 407 408
salmonids 98
San Francisco 71 354 378
Schofield 27
Sea 335 338 411 503
seagrass 438
seasons 71 386
secondary 231 348
sediment water 386
sediments 33 58 132 338 427 437 504
self adaptation 462
self organization 462
Seto 338
Severn 510
sewage 27 64 105 327 335 338 348 510
shrimp 231
silica 347 378 502 503 536
slack water 170
Sound 515
Spartina 75
spatial distribution 223 542
specified time 258
stabilization 105
steady state 207
stochastic 27 99 205 255 420 477
storm loading 523
stratification 280
succession 411 515
sulfate 338
sulfide 33 338
survival 237
Susquehanna 415
symposium 335 341
temperature 27 71 105 420
temporal distribution 223 542

tetrazolium salt 58
Texas 231 372 438
Thames 29
thermal 250 263 264 265 266 267 268
Thomann 78
three dimensional 132 198 427 515
three layer 280
tidal average 212
tides 1 33 78 183 507
time constants 347
time dependent 132 255 427
trace metals 348 436 438
Transient Water Quality Network 183
transport 100 132 223 244 262 354 427
trophic levels 515
turbidity 420
two dimensional 41 42 258 262 353 378
two layer 503
unsteady flow 258
uptake rates 157
vertical shear 530
Virginia 27 212
Washington 515
wastes 105 109 223 327 342 348 415
water column 507
water quality 97
watersheds 58
wind 427
Yaquina 33 170
York 212 327 530
zone 503
zooplankton 157 237 335 341 342 347 477 542
molluscs
algae 256 339
annelids 370
bacteria 256 339
benthic 9 370
biomass 339
birds 256 339
calcium 339
carbon 256 339
carbonate ion 308
Clyde 375
community structure 256
crustaceans 256 339 370
diversity 9
DOC 308
England 370
Enteromorpha 375
Estuary 375
fauna 375
fish 256 339
fisheries 375
foraminifera 256 339
growth rates 39
Harbor 39
heterotrophic 256 339
indicator species 39 370
insects 256 339
Lagoon 9
Linnhe Eil 370
Loch 370
Long 39
macrofauna 9
marshes 339
meiofauna 256 339
metabolism 256
Newfoundland 39
nitrogen 256 339
nutrients 375
pH 308
phosphorus 39 256 339
phytoplankton 256 339
pond experiment 256 339
productivity 256 339
pulp mill 370
salinity 308
sand 375
Scotland 375
sediments 375
sewage 256 339 375
Shannons Index 9
succession 370
tertiary 339
worms 375
momentum transfer
Alabama 132
Bay 132
hydrology 132
interface salt fresh 132
Mobile 132
model 132
sediments 132

three dimensional 132
time dependent 132
transport 132
monitoring
global 490
management 490
research 490
resources 490
morphology
ammonium 522
boundary layer 522
carbon 522
cycles 522
growth rates 522
kelp 522
Ks 522
Macrocystis 522
nitrogen 522
nutrients 522
primary 522
productivity 522
Vm 522
water velocity 522
mucus
algae colonial 152
Bay 401
C14 152
DO 401
fish kills 401
Galveston 401
gas bubbles 401
methods 152
primary 152
productivity 152
salmonids 401
saturation 401
silica 152
Texas 401
mud flats
algae mats 130
Apalachee 191
Bay 191
benthic 191
Estuary 130
Florida 191
indicator species 191
invertebrates 191
Ireland 130
nutrients 130
organic 130
oyster reefs 191
pulp mill 191
Rogerstown 130
seagrass 191
wastes 130 191
municipal
BOD 109
chemical 109
Delaware 109
detergent 413
Estuary 109
industry 109
inorganic 413
management 109
model 109
N/P 413
nitrogen 413
organic matter 413
phosphorus 413
phytoplankton 413
wastes 109 413
Murderkill
Broadkill 101
chlorophyll 101
Delaware 101
DO 101
Estuary 101
inorganic 101
nitrogen 101
nutrients 101
pH 101
phosphorus 101
salinity 101
tides 101
wetlands 101
mussels
barnacles 507
Bight 121
bioaccumulation 121
Estuary 507
fish 121
indicator species 121
Kiel 121
marshes 507
metabolism 162
model 507
nitrogen 162
North Inlet 507
Norway 121
nutrients 162

oil 121
organic 162
oysters 507
phosphate 162
phytoplankton 507
primary 507
processes 507
productivity 507
tides 507
USSR 162
water column 507
Mytilus
fucaceae 334
intertidal 334
pulp mill 334
Spain 334
stress 334
Ulvales 334
wastes 334
Mytilus edulis
aquaculture 360
growth rates 360
sewage 360
myxobacteria
Germany 166
indicator species 166
sewage 166
N/P
algae 160
assay 414
Bay 226
biomass 160
bloom 414
continuous culture 160
detergent 413
diatoms 414
DO 226
hydrology 226 414
inorganic 413
municipal 413
New Jersey 226
nitrate 226 414
nitrogen 160 239 413
Norway 414
nutrients 160 226
organic matter 413
orthophosphate 414
phosphate 226
phosphorus 239 413
phytoplankton 239 413 414
plankton 226
Raritan 226
salinity 226
seasons 226
sewage 160
silica 414
Stockholm 239
temperature 226
trace metals 414
Trondheimsfjord 414
wastes 413
NaCl
BOD 36
DO 36
light 36
salts 36
sediments 36
suspended solids 36
temperature 36
turbidity 36
nanoplankton
Aquaforte 145
Bay 288 296 300 406
biomass 296
bloom 363
Buzzards 406
C/N 406
Calanus pacificus 363
Canada 145
Chaetoceros 363
Chesapeake 296
chlorophyll 174 288 296 300 403 406
community structure 174
detritus 406
diversity 300
DO 174
Estuary 174 403
euglenoid 145
Euphaussid furcilia 363
feeding rates 363
Harbor 145
hydrology 174
indicator species 145
light 174
Massachusetts 406
methods 296
microflagellates 174
microplankton 403
New Jersey 300

Newark 300
nutrients 288
Parramatta 403
phytoplankton 145 174 288 296 300 363
plankton 288
POC 406
PON 406
primary 174 288 296 403
productivity 174 288 296 363 403
Pseudocalanus minutus 363
Raritan 288
salinity 174
seasons 300 406
secchi disc 145
sewage 145
St Johns 145
suspended solids 406
temperature 174
York 174
zooplankton 296 363 406

Nansemond
Elizabeth 327
Estuary 327
Harbor 327
industry 327
James 327
Little Creek 327
Lynnhaven 327
management 327
model 327
nonpoint sources 327
Pagan 327
Poquoson 327
predictions 327
sewage 327
wastes 327
York 327

Narragansett
Acartia 227
ammonia 178 387
Balanus 227
Bay 178 198 227 379 387 423
benthic 178
bloom 227
carbon 387
chambers 178
chlorophyll 423
density 198
DO 387
Estuary 227 423
Eurytemora 227
fatty acids 423
flux 178 379 387
hydrology 198
inorganic 178
latitudinal gradients 227
microbes 423
microcosms 379 387
model 198
New Jersey 227
nitrate 178
nitrite 178
nitrogen 387
nutrients 227 387
oil 423
organic matter 227
phosphate 178
phosphorus 379 387
phytoplankton 227
Providence 423
Raritan 227
Rhode Island 178 227 387
salinity 198 227
seasons 227
sediment water 178 379 387
sediments 387
sewage 423
suspended solids 423
Taunton 423
temperature 178
three dimensional 198
trace metals 387
Virginia 227
wastes 227
York 227
zooplankton 227

NBOD
CBOD 408
DO 408
Estuary 408
model 408
one dimensional 408
Pagan 408
real time 408
salinity 408

negentropy
Bay 366
flux 366
model 366

plankton 366
Raritan 366
nematodes
abundance 167
annelids 167
benthic 331
biomass 167
diversity 167
Estuary 167
fauna 167
gastrotrichs 167
Great Britian 167
indicator species 331
invertebrates 331
Massachusetts 331
microbes 167
oligochaetes 167
polychaetes 167
seasons 331
sewage 167 331
Tees 167
Woods Hole 331
Netherlands
biomass 336
Estuary 336
Grevelingen 336
light 336
nutrients 336
primary 336
productivity 336
water velocity 336
Zostera marina 336
Neuse
ammonia 204
bloom 204
Estuary 204
fertilizer 204
freshwater 204
nitrate 204
North Carolina 204
phosphorus 204
phytoplankton 204
salinity 204
sewage 204
wastes 204
Nevis
carbon 454
chlorophyll 454
Loch 454
nitrate 454
North 454
phosphate 454
POC 454
productivity 454
Scotland 454
Sea 454
New Jersey
abundance 113
Acartia 227
ammonium 113
Balanus 227
Bay 224 226 227 300
benthic 224
Bight 113
bloom 227
chlorophyll 113 300
cycles 224
distribution 113
diversity 300
DO 226
Estuary 227 426
Eurytemora 227
freshwater 113
hydrology 224 226
latitudinal gradients 227
marshes 390
metabolism 224
methods 426
N/P 226
nanoplankton 300
Narragansett 227
New York 113 426
Newark 300
nitrate 113 224 226
nitrite 113
nutrients 226 227
organic matter 227
phosphate 113 224 226
phytoplankton 113 227 300
plankton 226
primary 390
processes 224
productivity 390
Raritan 224 226 227 426
Rhode Island 227
Rockaway Point 113
salinity 113 226 227
seasons 224 226 227 300
silica 113
Spartina alterniflora 390

spatial distribution 426
suspended solids 113
temperature 113 226
temporal distribution 426
trace metals 426
Virginia 227
wastes 227
York 227
zooplankton 227
New York
abundance 113
aerobic 172
ammonium 113 172
anaerobic 172
ATP 172 275
Bay 262 287 353
benthic 410
Bight 113 172 189 275 286
biomass 275
bloom 275 286 287
BOD 353
cadmium 275
calorific content 172
Ceratium 275
chlorophyll 113
coliforms 353
cycles 410
decomposition 172
DIC 172
distribution 113
DO 353
DOC 172
Estuary 426
freshwater 113
hydrology 262
hypertrophication 286
indices 189
industry 275
Jamaica 262 353
landfill 340
Massartia rotundata 287
methods 426
microbes 275
model 262 353
New Jersey 113 426
nitrate 113 172
nitrification 410
nitrite 113 172
nitrogen 353
nutrients 286 410
oil 340
Olisthodiscus luteus 287
organic matter 410
organisms 410
PC 172
phosphate 113
phosphorus 353
phytoflagellate 287
phytoplankton 113 286
PN 172
primary 410
productivity 410
Prorocentrum micans 287
Raritan 426
Rockaway Point 113
salinity 113 287 353
sediments 189 275 410
sewage 172 189 340
silica 113
spatial distribution 426
steroids 189
suspended solids 113
temperature 113
temporal distribution 426
trace metals 426
transport 262
two dimensional 262 353
wastes 275
New Zealand
acetylene 25
cannery 25
Inlet 25
intertidal 25
Klebsiella pneumoniae 25
nitrogen fixation 25
nutrients 25
sediments 25
sewage 25
slaughterhouse 25
Waimea 25
wastes 25
Newark
Bay 300
chlorophyll 300
diversity 300
nanoplankton 300
New Jersey 300
phytoplankton 300
seasons 300
Newfoundland

growth rates 39
Harbor 39
indicator species 39
Long 39
molluscs 39
phosphorus 39
Newport
ATP 135
carbon 135
Estuary 135
methods 135
microbes 135
North Carolina 135
organic 135
seasons 135
sediments 135
nitrate
abundance 113
acetylene 444
aerobic 172
agriculture 218
algae bluegreen 218
alkaline phosphatase 482
alkalinity 67 380
ammonia 5 50 67 69 123 157 176 177 178 203 204 314 407 444 473 481 487
ammonium 31 38 113 129 172 186 188 228 298 394 467 482
anaerobic 127 172
animals 186
ash 382
assay 414
ATP 172
Bay 64 67 178 188 224 226 228 252 298 380 467 473
Bayou 314
Belgium 504
benthic 5 178 224
Bight 113 172
biomass 128 201 203
Black 303
bloom 201 204 382 414
BOD 487
bound 3
C/N 188 482
California 128 129
calorific content 172
carbon 27 70 382 394 454 473 482
CBOD 407
Chaetoceros simplex 303
chambers 178
Chesapeake 67 298 380 467 473
Chlorella salina 69
chlorophyll 64 67 70 113 128 382 407 454 473 481 482
Chlorophyta 31
Chrysaora quinquecirrha 38
coliforms 380 407
Columbia 175
cycles 129 186 224
C14 382
DC 380
decomposition 172
denitrification 127 157 444 504
diatoms 5 414
DIC 172 473
diffusion 127 467
dissolved 3
distribution 50 113 125 128
diurnal 129 482
DO 67 126 226 314 380 394 407
DOC 172 473
DON 176 177 201
Duwamish 481
Estuary 27 31 50 67 82 143 175 186 201 203 204 218 219 380 407 467 481
Eurytemora 175
eutrophic 157
exchange diffusion 123
fatty acids 382
fertilizer 3 204
floodwaters 127
Florida 314
flushing 218
flux 178
freshwater 113 204 219
Georgia 176 177
growth rates 70 188
Hawaii 64 188
Hudson 31 218
hydrology 201 224 226 414
indicator species 303 481
indices 125
industry 380
inorganic 27 178 186 201 203 407
interference 54
interstitial 504
James 27 380

Kaneohe 64 188
Ks 482
laboratory culture 5
Laminaria 70
light 31 175
linear regression 175
Loch 454
Louisiana 126 127
macroinvertebrates 314
macrophytes 70 157
Mangoku 252
marshes 126 177
Maryland 380
Massachusetts 82
metabolism 224
methods 54 123 228 235
microbes 27 203 252 487
mining 201 203
Mississippi 125
model 27 64 157 407 467 504
N/P 226 414
Narragansett 178
Neuse 204
Nevis 454
New Jersey 113 224 226
New York 113 172
nitrification 157 252 487 504
nitrite 5 27 50 67 113 172 176 177 178 186 219 228 298 407 473 481 487 504
Nitrobacter 487
nitrogen 50 67 129 157 186 201 228 407 482
Nitrosomona 487
North 454
North Carolina 186 203 204
Norway 414
Nova Scotia 382
nutrients 50 82 125 128 143 186 203 218 226 380 394 473
N15 129 252
Odawa 252
Olisthodiscus luteus 482
one dimensional 407
Oregon 175
organic 27 50 157 186 407
organic matter 157 394 504
orthophosphate 5 228 414
Pagan 407
Pamlico 186 201 203
Patuxent 380
PC 172
Periphyton 481
pesticides 380
pH 38 67 176 380
phaeophytin 473
phosphate 27 38 50 64 67 69 82 113 123 125 143 175 178 203 218 219 224 226 303 314 380 394 454 481
phosphorus 3 201 204 228 382 407 473 482
phytoplankton 27 31 64 67 82 113 128 129 157 175 188 201 203 204 298 303 314 382 394 407 414
Pines 82
plankton 226
plants 186
PN 172
POC 454
point sources 218
polyp 38
PON 177
pond experiment 3
pools 177
Potomac 67 218 219 380 467
predictions 27
primary 5 64 129 382 473 481
processes 27 157 224
productivity 5 64 67 129 382 454 473 481
protein 69
P32 3
rainfall 176
Rappahannock 380
Raritan 224 226
real time 407
recreation 82
redox potential 126 127
reduction 252 444
remote sensing 38
resources 125
respiration 382 487
Rhode Island 178
Rockaway Point 113
runoff 143
salinity 50 67 69 113 204 226 407
salts 143
San Francisco 228

Schofield 27
Scotland 454
Sea 303 454
sea nettle 38
seasons 50 175 186 224 226
secondary 123
sediment water 178
sediments 3 126 186 201 219 252
380 444 504
sewage 27 38 64 69 82 129 172
188 204 218 219 303 380
silica 113 175 382 414
silicate 50
Skeletonema 31
Sound 125
Southampton 394
spatial distribution 219
St Lawrence 50
stochastic 27
Suagus 82
succession 201
suspended solids 113
Susquehanna 380
Tar 201
TDC 473
temperature 27 50 67 113 128 178
226 394
temporal distribution 219
Texar 314
Thames 143
tidal creek 177
TKN 219
TOC 314
trace metals 380 394 414
Trondheimsfjord 414
turbidity 67
turnover rates 394
Ulva 82
United Kingdom 143
uptake rates 31 69 129 157 188
482
Ura 252
urea 50 129 186 188 298
uv/resin 54
Virginia 27 380
Washington 481
wastes 123 143 204 218 380 481
watersheds 219 380
York 380
zooplankton 67 157 175 314 394
Zostera 252
nitrification 486
activated sludge 514
ammonia 157 487
artificial recharge 138
Bay 252
Belgium 504
benthic 410
BOD 487
canal 138
cycles 410
denitrification 157 504 514
dissolved solids 138
economics 138
Estuary 138
eutrophic 157
interstitial 504
macrophytes 157
Mangoku 252
microbes 252 487
model 157 504
New York 410
nitrate 157 252 487 504
nitrite 487 504
Nitrobacter 487
nitrogen 157
Nitrosomona 487
nutrients 410
N15 252
Odawa 252
organic 157
organic matter 157 410 504
organisms 410
ozonization 138
phytoplankton 157
primary 410
processes 157
productivity 410
recycle 138
reduction 252
respiration 487 514
sediments 252 410 504
sewage 138
Thames 138
uptake rates 157
Ura 252
water supply 138
zooplankton 157
Zostera 252
nitrite

abundance 113
aerobic 172
alkalinity 67
ammonia 5 50 67 176 177 178 311 407 473 477 481 487
ammonium 113 172 186 228 298
anaerobic 172
animals 186
ATP 172
Bay 67 178 228 298 473
Belgium 504
benthic 5 178
Bight 113 172
BOD 290 311 477 487
California 477
calorific content 172
carbon 27 473
CBOD 407
chambers 178
Chesapeake 67 298 473
chlorophyll 67 113 407 473 481
coliforms 290 407
cycles 186 477
decomposition 172
Delaware 477
Delta 477
denitrification 504
diatoms 5
DIC 172 473
DIN 477
distribution 50 113
DO 67 290 311 407 477
DOC 172 311 473
DON 176 177 311
Duwamish 481
Estuary 27 50 67 186 219 407 477 481
flux 178
freshwater 113 219
Georgia 176 177
indicator species 481
inorganic 27 178 186 407
interface salt fresh 311
interstitial 504
James 27
laboratory culture 5
marshes 177
methods 228
microbes 27 487
model 27 407 477 504
Narragansett 178
New Jersey 113
New York 113 172
nitrate 5 27 50 67 113 172 176 177 178 186 219 228 298 407 473 481 487 504
nitrification 487 504
Nitrobacter 487
nitrogen 50 67 186 228 407 477
Nitrosomona 487
North Carolina 186
nutrients 50 186 473
one dimensional 407
organic 27 50 186 407
organic matter 290 504
orthophosphate 5 228
oxidation 477
Pagan 407
Pamlico 186
PC 172
Periphyton 481
pH 67 176 290 311
phaeophytin 473
phosphate 27 50 67 113 178 219 481
phosphorus 228 407 473
phytoplankton 27 67 113 298 407 477
plants 186
PN 172
PON 177
pools 177
Potomac 67 219 477
predictions 27
primary 5 473 481
processes 27
productivity 5 67 473 481
rainfall 176
real time 407
respiration 487
Rhode Island 178
Rockaway Point 113
Sacramento San Joquin 477
salinity 50 67 113 290 311 407
San Francisco 228
Schofield 27
seasons 50 186 290
sediment water 178
sediments 186 219 504
sewage 27 172 219

shellfish 290
silica 113
silicate 50
spatial distribution 219
St Lawrence 50
stochastic 27 477
suspended solids 113
TDC 473
temperature 27 50 67 113 178 290
temporal distribution 219
tidal creek 177
TKN 219
trace metals 311
turbidity 67
urea 50 186 298
Virginia 27
Washington 481
wastes 481
watersheds 219
zooplankton 67 477
Nitrobacter
ammonia 487
BOD 487
microbes 487
nitrate 487
nitrification 487
nitrite 487
Nitrosomona 487
respiration 487
nitrogen
abundance 43 499
aerobic 183
Agnes 415
Aisne 35
Alaska 319
Albemarle 43
algae 87 160 256 339
algae bluegreen 66 247
alkaline phosphatase 482
alkalinity 67
amino acids 528
ammonia 29 43 50 62 67 157 247 387 407 477
ammonium 129 186 210 228 482 522
animals 186 202
arctic 319
argon 396 397
ATP 193
bacteria 256 339
batch culture 144
Bay 22 65 67 79 91 94 199 228 297 330 353 372 387 396 397 415 499
Bayou 181 316
benthic 87 319 338 528
benthic oxygen demand 80
biomass 62 65 66 110 144 160 201 247 339
birds 256 339
bloom 80 144 201
BOD 342 353 477 541
boundary layer 522
British Columbia 247
Broadkill 101
bubbles 396
budget 316
C/N 62 482
cadmium 210
calcium 339 461
California 62 129 187 477
carbohydrates 193
carbon 21 22 35 110 144 181 193 256 339 342 362 377 387 482 499 522
carbon oxygen demand 80
carbon/chlorophyll 62
Carter 21
CBOD 407
chemostat 169
Chesapeake 22 67 79 91 297 396 397 415
chlorophyll 43 65 67 79 80 101 193 407 415 482
Chlorophyta 144
COD 338
coliforms 94 163 183 353 407
community structure 256
conference 528
continuous culture 144 160
Cook 319
Corpus Christi 372
CO2 144 396 397
Creek 21
crude fiber 193
crustaceans 256 338 339
ctenophores 362
Cyanophyta 144
cycles 21 48 91 129 183 185 186 247 297 342 477 499 522 528
Delaware 101 342 477

Delta 477
denitrification 157 326
detergent 413
detritus 22 65 528
diagenesis 502
diatoms 479
DIN 199 477
dinoflagellate 479
distribution 50 377
diurnal 62 129 482
diversity 94
DO 29 67 80 101 194 202 242 319 342 353 387 407 477 541
DON 201
DRP 199
economics 94
energy transfer 362
Estuary 29 35 50 66 67 79 80 87 101 181 183 185 186 193 201 202 342 377 407 415 477 478 506
eutrophic 157
fauna 87
feces 163
fertilizer 202
Fiji Island 326
fish 202 256 339 528
fisheries 94 338 528
Florida 181 316
flux 22 187 342 362 387
foraminifera 256 339
France 35
Great Britian 199
growth rates 169 479 522
gulls 163
Hawaii 65 94 330
heterotrophic 256 339
Hurricane 415
hydrology 43 87 91 100 183 201 321
H2S 396
industry 202
Inlet 319
inorganic 101 161 181 186 201 326 407 413 506
insects 256 339
intracellular 100 169
invertebrates 528
Jamaica 353
Japan 338
Kaneohe 65 94 330
kelp 522
Ks 62 482 522
land development 43
Liverpool 199
local 297
long term 199
Macrocystis 522
macrophytes 157 247
Malpeque 499
management 183 528
mangroves 326
marshes 21 22 193 210 339 461
Maryland 193
Massachusetts 161
matrix 372
meiofauna 256 339
metabolism 162 256
methane 396 397
methods 35 228
Michaelis Menton 415
microbes 183 247 297 319 326 499 502 528 541
microcopepods 330
microcosms 194 362 387
mining 66 87 201 202
mixing depth 541
model 29 80 100 157 169 183 321 338 342 353 372 407 415 477 478 502
molluscs 256 339
morphology 522
municipal 413
Murderkill 101
mussels 162
N/P 160 239 413
Narragansett 387
New York 353
nitrate 50 67 129 157 186 201 228 407 482
nitrification 157
nitrite 50 67 186 228 407 477
nitrogen fixation 144
nitrogen oxygen demand 80
nonpoint sources 541
North Carolina 43 185 186 202
nutrients 50 62 79 80 100 101 160 162 186 210 297 342 362 387 478 522 528
N15 62 129
oil 338 528

Olisthodiscus luteus 482
one dimensional 407
organic 50 157 162 186 407 506 541
organic matter 157 338 413
organisms 319 528
orthophosphate 228
oxidation 477
oxidation rates 35
oxygen 377
oysters 499
P/B 330
Pagan 407
Pamlico 66 87 185 186 201 202
pathogens 163
Patuxent 193
pesticides 528
pH 67 101 144 319
phosphate 50 67 162 181 202 247
phosphorus 21 22 43 66 79 80 87 91 94 100 101 110 115 163 181 187 193 194 199 201 210 228 239 242 247 256 297 316 319 339 342 353 387 407 413 415 461 478 482 499 528 541
phytoplankton 43 62 65 66 67 79 80 87 91 110 115 129 144 157 161 169 187 194 201 202 239 256 297 339 342 407 413 415 477 478 479 506
plankton 202 319
plants 186 461
POC 65
point sources 541
pond experiment 110 161 256 339
pool experiment 66
potassium 461
Potomac 67 80 183 342 377 477 478
predictions 183 541
primary 21 22 43 62 80 91 115 129 181 185 187 202 362 522
processes 157 183 185 506
productivity 21 22 43 62 67 80 91 115 129 181 185 187 194 202 256 330 339 362 499 522
profiles 541
quasi linear 415
rainfall 297
reaeration 80
real time 183 321 407
recreation 94
respiration 80
Rhode Island 387
runoff 541
Sacramento San Joquin 477
salinity 43 50 67 101 202 319 353 407 541
San Francisco 228
Sea 338
seagrass 528
seasons 50 186 199 397 506
secondary 144 326 330
sediment water 21 181 242 387 396
sediments 186 187 201 210 242 247 297 326 338 387 397 461 541
Seine 35
Seto 338
sewage 62 94 115 129 144 160 161 163 202 256 319 326 330 338 339 479
silica 187 319 502 528
silicate 50
soil erosion 541
Sound 43
St Lawrence 50
stochastic 477
Stockholm 239
stress 528
succession 110 144 201
sulfate 338
sulfide 338
surface waters 541
Susquehanna 79 415
symposium 297
Tar 201
temperature 35 43 50 67 202 541
tertiary 161 326 339
Texar 181 316
Texas 372
Thames 29
thermal 541
tides 22 101 183 210
trace metals 115 210 242 387 479 528
Transient Water Quality Network 183
transport 100
turbidity 43 67 541

two dimensional 353
uptake rates 129 157 297 482
urea 50 62 129 186 528
USSR 162
Vellar 506
vertical transport 297
Virginia 21
Vm 62 522
Ware 21
wastes 66 342 413 415
water velocity 522
wetlands 101 528
zinc 210
zooplankton 67 87 157 194 297
342 477 528
nitrogen fixation
acetylene 25
algae bluegreen 243
algae mats 243
amino acids 49
ammonia 49
bacteria 243
batch culture 144
Bay 182 243
biomass 144
bloom 144
cannery 25
carbon 144
Chlorophyta 144
continuous culture 144
coral 182
CO2 144
Cyanophyta 144
Guayanilla 243
Hawaii 182
heterotrophic 243
Inlet 25
intertidal 25
Kaneohe 182
Klebsiella pneumoniae 25
microbes 182
New Zealand 25
nitrogen 144
nutrients 25
pH 144
phosphorus 49
phytoplankton 144
primary 49
productivity 49
Puerto Rico 243
secondary 144 182
sediments 25 49 182 243
sewage 25 144 182
slaughterhouse 25
succession 144
thermal 243
Waimea 25
wastes 25
nitrogen oxygen demand
benthic oxygen demand 80
bloom 80
carbon oxygen demand 80
chlorophyll 80
DO 80
Estuary 80
model 80
nitrogen 80
nutrients 80
phosphorus 80
phytoplankton 80
Potomac 80
primary 80
productivity 80
reaeration 80
respiration 80
Nitrosomona
ammonia 487
BOD 487
microbes 487
nitrate 487
nitrification 487
nitrite 487
Nitrobacter 487
respiration 487
nomogram
flushing 437
indices 437
marina 437
model 437
sediments 437
nonadvective
model 244
processes 244
transport 244
nonpoint sources
BOD 523 541
Delaware 523
DO 541
Elizabeth 327
Estuary 223 327 523

Harbor 327
industry 327
isopleths 223
James 327
Little Creek 327
Lynnhaven 327
management 327
microbes 541
mixing depth 541
model 223 327 523
Nansemond 327
nitrogen 541
nutrients 223
organic 541
Pagan 327
phosphorus 223 541
point sources 541
Poquoson 327
Potomac 223
predictions 327 541
processes 223
profiles 541
runoff 223 541
salinity 541
sediments 541
sewage 327
soil erosion 541
spatial distribution 223
storm loading 523
surface waters 541
temperature 541
temporal distribution 223
thermal 541
transport 223
turbidity 541
wastes 223 327
York 327
North
Aberdeen 453
Bay 453
carbon 454
chlorophyll 453 454
C14 453
Delaware 411
diatoms 153
distribution 153
Estuary 411
fisheries 411
Fladen Ground 453
industry 232
interstitial 503
kelp 232
Loch 454
long term 153
macroinvertebrates 232
management 411
mass transfer 503
metals 232
model 411 503
Nevis 454
nitrate 454
phosphate 454
phytoplankton 153 411
POC 453 454
primary 453
processes 453
productivity 453 454
Scotland 454
Sea 153 232 411 453 454 503
seasons 453
sewage 232
silica 503
succession 232 411
temperature 153
two layer 503
wastes 232
zone 503
zooplankton 153
North Carolina
abundance 43
agriculture 517
Albemarle 43 450
algae 89
algae bluegreen 533
ammonia 43 203 204 450
ammonium 186
animals 89 186 202
ATP 135
Bay 402
biomass 203 533
bloom 204 450 533
C/N 450
carbon 135
chlorophyll 43
Chowan 450 533
community structure 89
cycles 185 186
DIN 450
diversity 533
DO 202

DON 450
Estuary 89 90 135 185 186 202 203 204 402 450 492 493 533
fertilizer 202 204 517
fish 202
flood control 517
Florida 402
freshwater 204 402
heat 89
hydrology 43 90 517
industry 202 517
inorganic 186 203
iron 492 493
land development 43 517
Louisiana 402
management 402
methods 135 493
microbes 135 203 533
mining 90 202 203
Neuse 204
Newport 135
nitrate 186 203 204
nitrite 186
nitrogen 43 185 186 202
nutrients 89 186 203 402 517
organic 135 186
Palm 402
Pamlico 90 185 186 202 203 492 493
pesticides 517
phosphate 202 203 492
phosphorus 43 90 204 493 533
phytoplankton 43 90 202 203 204 450 533
plankton 202
plants 186
pond experiment 89
primary 43 185 202 450
processes 185
productivity 43 89 185 202 450
radioactivity 402
Rangia 90
recreation 517
resources 517
respiration 89
runoff 402
salinity 43 90 202 204 492
Santee 402
seasons 89 135 186 450
sediments 90 135 186 492 493
sewage 89 202 204
Sound 43 450
South Carolina 402
South Creek 89
suspended solids 492
swamps 402
temperature 43 89 202
turbidity 43
uptake rates 90 533
urea 186
wastes 90 204
watersheds 517
wetlands 402
North Inlet
barnacles 507
Estuary 507
marshes 507
model 507
mussels 507
oysters 507
phytoplankton 507
primary 507
processes 507
productivity 507
tides 507
water column 507
Norway
algae 236
assay 414
Bight 121
bioaccumulation 121
bloom 414
diatoms 414
fish 121
growth rates 236
hydrology 414
indicator species 121
Kiel 121
mussels 121
N/P 414
nitrate 414
nutrients 236
oil 121
orthophosphate 414
phosphorus 236
phytoplankton 414
primary 236
secondary 236
sewage 236
silica 414

tertiary 236
trace metals 414
Trondheimsfjord 414
Nosy Be
Bay 147
Cladocera 147
Evadne tergestina 147
Malagasy Republic 147
Penilia avirostris 147
phytoplankton 147
rainfall 147
seasons 147
tropical 147
zooplankton 147
Nova Scotia
ash 382
Basin 381
Bedford 381
bloom 382
carbon 382
chlorophyll 382
C14 382
fatty acids 382
nitrate 382
P/B 381
phosphorus 382
phytoplankton 381 382
primary 382
productivity 381 382
ratio 381
respiration 382
silica 382
spatial component 381
NO2
alkalinity 47
chlorophyll 47
DO 47
Estuary 47
James 47
NO3 47
pH 47
phosphorus 47
phytoplankton 47
PN 47
salinity 47
temperature 47
NO3
alkalinity 47
chlorophyll 47
DO 47
Estuary 47
James 47
NO2 47
pH 47
phosphorus 47
phytoplankton 47
PN 47
salinity 47
temperature 47
nursery grounds
Barataria 95
Basin 95
fisheries 95
Louisiana 95
nutrients 95
salinity 95
wetlands 95
nutrients
abundance 383 472
Acartia 227
acetylene 25
Actinetobacter 431
adsorption 259
aerobic 58
agriculture 26 218 282 517
agrochemicals 455
Alaska 7
algae 72 89 160 216 236 343 442 448 496 497
algae bluegreen 215 218
algae mats 130
alkaline phosphatase 142
alkalinity 149 380 383 455
amino acids 528
ammonia 50 62 203 289 387 388 473 518
ammonium 186 210 394 522
anaerobic 58 358
animals 89 186 518
assay 58 383 448 496 497
assimilation capacity 446
ATP 465
Australia 388
autotrophic 86
bacteria 431
Balanus 227
Barataria 95
Basin 95
Baule Mitschlerlich 511
Bay 71 72 79 86 92 141 168 173

226 227 288 297 322 323 355 380 387 388 402 431 448 455 465 473 495
Bayou 313
Belgium 376
Bengal 323
benthic 72 137 358 388 410 511 528 542
benthic oxygen demand 80 221 542
Bermuda 24
bibliography 436
Bight 286
bioenhancement 446
biomass 62 128 160 203 304 306 336 445
bloom 24 80 227 286 306 376 445 521
boat traffic 455
BOD 1 71 221 342 446 495
Bothnia 137
boundary layer 522
British Columbia 512
Broadkill 101
C/N 62 465
cadmium 210
California 62 128 441
canal 512
Cancer 139
cannery 25
carbon 116 168 192 220 221 342 362 387 394 473 495 522 542
carbon oxygen demand 80
carbon/chlorophyll 62
chemical 428 516
Chesapeake 72 79 92 141 168 173 297 355 380 455 473 495
Chickahominy 173
chlorinated hydrocarbons 137 491
chlorine 455
chlorophyll 28 79 80 101 128 215 220 288 289 322 391 473 495
clay 259
Clyde 375
cobalamin 509
Cochin 391
COD 289 442
Codium 497
coliforms 1 221 380 542
Colville 7
community structure 88 89
conceptual 168
conference 528
Connecticut 58
continuous culture 116 160
Copps Brook 58
CO2 220
crabs 139
ctenophores 362
cycles 186 241 297 342 410 428 522 528
C14 391
DC 1 380
degradation 58
dehydrogenase 358
Delaware 101 342
density 323
deoxygenation 104 542
deposition 376
detergent 270 436
detritus 75 192 528
diatoms 376 445
DIC 473
disease 455
dissolved solids 137 313
distribution 50 71 125 128 383
diurnal 62
diversity 88 364 472
DO 1 71 72 80 101 137 216 220 221 222 226 241 270 304 307 313 323 342 376 380 387 394 441 495 518 542
DOC 58 104 416 473
dredging 96 455 498 512
Dunaliella 496
Duwamish 480 521
dye 1
economics 217 491 494 498
eggs 139
energy transfer 72 75 141 192 362
Enteromorpha 375 497
epibiotic fouling 139
epiphytes 455
Estuary 1 7 50 79 80 82 89 101 104 130 141 143 173 186 192 203 214 215 216 217 218 220 221 222 223 227 249 289 304 336 341 342 375 376 380 391 402 478 480 495 518 521
Etang de Berre 306 307

Eurytemora 227
fauna 375 388 455
fertilizer 282 355 517
fish 88 515 516 528 542
fisheries 7 95 96 375 465 494 498 528
flood control 96 517
Florida 402
flushing 218 512
flux 342 362 387
food processing 516
foraminifera 72
France 306
freshwater 86 222 402
glucose 313
Grevelingen 336
growth rates 236 355 522
Gulf 137
heat 89 141 542
heterotrophic 86 431
Hudson 218
hydrology 7 71 100 137 141 226 241 306 376 441 448 491 515 517 521
hypertrophication 286
ice 542
indicator species 383 472
indices 92 125 220
industry 86 380 442 498 516 517
Inlet 25
inorganic 101 186 203 416
instruments 436
interface salt fresh 376
interstitial 58
intertidal 25
intracellular 100
invertebrates 383 528
Ireland 130
iron 137
isopleths 223
James 173 380 495
Japan 322 445
kelp 522
kinetics 313
Klebsiella pneumoniae 25
Ks 62 522
Lake 358 383
land development 92 96 216 517
latitudinal gradients 227
Lebanon 472
light 24 336 448 521 542
linear regression 173
local 297
Long Island 509
Louisiana 95 96 402 442
Macrocystis 522
macrofauna 72 137
macrophytes 24 72 511
management 96 215 217 402 428 471 491 494 498 515 528
manganese 416
marshes 75 149 192 210 442
Maryland 192 304 380
Massachusetts 82
Mediterranean 491
metabolic heat release 358
metabolism 58 86 88 162 358
methods 249 271 436 465 542
Michaelis Menton 71
microbes 58 72 75 139 141 142 203 216 220 297 313 343 442 445 491 516 528
microcalorimetry 358
microcosms 86 362 364 387
mining 203 463
Mississippi 125
model 1 58 71 75 80 100 168 223 341 342 436 478 515 542
molluscs 375
morphology 522
mud flats 130
Murderkill 101
mussels 162
N/P 160 226
nanoplankton 288
Narragansett 227 387
Netherlands 336
New Jersey 226 227
New York 286 410
New Zealand 25
nitrate 50 82 125 128 143 186 203 218 226 380 394 473
nitrification 410
nitrite 50 186 473
nitrogen 50 62 79 80 100 101 160 162 186 210 297 342 362 387 478 522 528
nitrogen fixation 25
nitrogen oxygen demand 80
nonpoint sources 223

North Carolina 89 186 203 402 517
Norway 236
nursery grounds 95
N15 62
O/P 307
oil 137 436 455 491 528
Oregon 448 516
organic 50 130 141 162 186 259
organic matter 28 58 227 306 358 394 410
organisms 358 410 528 542
orthophosphate 509
oxygen 358
oysters 471
P/N 441
Palm 402
Pamlico 104 186 203
Patuxent 141 173 192 304 380 495
PC 270 465
Periphyton 521
pesticides 137 220 380 436 517 528
pH 71 101 142 259 380 383 455
phaeophytin 473
phosphate 50 82 125 142 143 162 203 218 226 259 313 380 394 518
phosphorus 79 80 100 101 137 149 210 223 236 241 259 289 297 304 342 387 463 473 478 528
phytoplankton 1 28 62 71 72 79 80 82 86 96 116 128 137 141 203 221 227 286 288 297 304 322 341 342 394 416 431 441 472 478 509 511 515 521 542
Pines 82
plankton 226 270 288 306 364 383
plants 141 186
PN 270 465
POC 58 104
point sources 218
pond experiment 89
Pontchartrain 383
Port Phillip 388
Potomac 1 80 173 214 215 216 217 218 220 221 222 223 289 341 342 380 478 495
power plant 141 498
primary 7 24 28 62 80 86 104 137 141 192 236 288 304 336 343 362 383 391 410 416 441 445 465 473 511 515 522 542
processes 223 358
productivity 7 24 28 62 80 86 89 104 137 141 192 288 304 313 336 343 362 364 383 391 410 416 428 441 445 463 465 473 511 515 522 542
profiles 214
public opinion 498
Puget 358 515
radioactivity 402 491 516
rainfall 297
Rappahannock 173 380 495
Raritan 226 227 288
rate constants 542
reaeration 80 542
recreation 82 96 517
redox potential 313
removal 271
resources 7 125 216 222 491 494 498 516 517
respiration 28 80 86 89 104 343 441
Rhode Island 227 387
Rogerstown 130
runoff 26 96 143 216 223 383 402 442 465
Sacramento 341
Sagami 431
salinity 50 71 95 101 226 227 241 259 270 383 388 441 455 471 512
salt wedge 480
salts 143
sampling frequency 249
San Francisco 71
sand 375
Santee 402
Scheldt 376
Scotland 375
Sea 445 491
seagrass 355 528
seasons 50 71 89 142 173 186 226 227 391 441 448 509 521
secchi disc 441
secondary 236 343
sediment water 259 313 387
sediments 25 58 137 149 186 210 289 297 304 358 375 376 380 387

388 410 491
self purification 376
seston 270
sewage 25 62 72 82 89 96 116 142 160 215 218 236 259 271 343 375 380 388 416 442 448 471 472 516
sewage treatment farm 388
silica 149 528
silicate 50
slaughterhouse 25
soil erosion 96
Sound 125 358 509 515
South Carolina 149 402
South Creek 89
Southampton 394
Spartina 75
spatial distribution 223 542
specie key 455
Sphaerotilus 516
Squamish 249
St Lawrence 50
St Margaret 465
stratification 307
stress 88 528
Suagus 82
submerged vegetation 455
succession 116 515
Suruga 431
suspended solids 376 465
Susquehanna 79 173 380 495
swamps 402
symposium 137 297 341 494 498
TDC 473
temperature 50 71 89 128 226 259 270 391 394 441 448 455 512
temporal distribution 223 542
tertiary 236
tetrazolium salt 58
Texas 86 88
Thames 143
thermal 141 304 516
thiamine 509
three dimensional 515
tides 1 101 210 512 518
TOC 104 220 442
Tokyo 431
toxicity 116
trace metals 72 137 149 210 216 376 380 387 394 436 455 491 516 528
transport 100 223 376
Trinity 86
trophic levels 515
turbidity 455 511
turnover rates 394
Ulva 82
United Kingdom 143
uptake rates 259 297
Uranouchi 322
urea 50 62 186 528
USSR 162
vertical transport 297
Vibrios 431
Virginia 227 259 380 518
viruses 216
Vm 62 522
Waimea 25
Washington 358 480 515
wastes 25 86 130 137 143 216 218 220 221 222 223 227 282 322 342 380 442 512
water velocity 336 455 522
watersheds 58 92 173 380 517
weight 289
Werribee 388
wetlands 26 95 96 101 192 402 528
winter 445
worms 375
Yaquina 448
York 173 227 380 495 518
zinc 210
zooplankton 72 86 88 137 227 297 341 342 391 394 431 528 542
Zostera marina 336

N14
methods 118
N15 118
secondary 118
wastes 118

N15
ammonia 62 190
ammonium 129
Bay 190 252
biomass 62
C/N 62
California 62 129
carbon/chlorophyll 62
cycles 129
denitrification 190

diurnal 62 129
Japan 190
Ks 62
Mangoku 190 252
methods 118
microbes 252
nitrate 129 252
nitrification 252
nitrogen 62 129
nutrients 62
N14 118
Odawa 252
phytoplankton 62 129
PON 190
primary 62 129
productivity 62 129
reduction 252
secondary 118
sediments 190 252
sewage 62 129
Simoda 190
Tokyo 190
uptake rates 129
Ura 190 252
urea 62 129
Vm 62
wastes 118
Zostera 252

O/P
DO 307
Etang de Berre 307
nutrients 307
stratification 307

Obelia dichtoma
buoys 37
California 37
ceramic panel substrates 37
chlorinated hydrocarbons 37
dispersion 37
economics 37
methods 37
productivity 37
sewage 37
trace metals 37

Odawa
Bay 252
Mangoku 252
microbes 252
nitrate 252
nitrification 252
N15 252
reduction 252
sediments 252
Ura 252
Zostera 252

oil
agrochemicals 455
algae 400
alkalinity 455
amino acids 225 456 528
animals 399
assay 399
bacteria 456
bacteria proteolytic 456
Bay 318 423 455
benthic 137 338 400 528
bibliography 4 211 344 436
Bight 121
bioaccumulation 121
boat traffic 455
Bothnia 137
California 400
carbohydrates 225 456
Chesapeake 318 455
chlorinated hydrocarbons 137 491
chlorine 455
chlorophyll 423
clams 225
COD 338
conference 528
crustaceans 338
cycles 528
C14 456
detergent 436
detritus 528
disease 455
dissolved solids 137
DO 137
dredging 4 318 455
dye 318
economics 4 491
epiphytes 455
Estuary 423
eutrophication 4 211 344
fatty acids 423
fauna 455 456
fish 121 513 528
fisheries 338 528
fungus 456
glycine 225

Gulf 137
Harbor 400
heterotrophic 456
hydrology 137 399 491
indicator species 121 399 400
indices 368 456
industry 211
instruments 436
invertebrates 528
iron 137
Japan 338
Kiel 121
landfill 340
Los Angeles 400
macrofauna 137
management 491 528
Mediterranean 491
Mercenaria 225
methods 399 436 456
microbes 399 423 456 491 528
mining 513
model 338 436
mussels 121
Narragansett 423
New York 340
nitrogen 338 528
Norway 121
nutrients 137 436 455 491 528
oligochaetes 400
organic matter 338
organisms 528
oxidases 368
pesticides 4 137 344 436 513 528
pH 455
phosphorus 137 528
phytoplankton 137 456
pollution 4
polychaetes 400
primary 137
processes 456
productivity 137
Providence 423
pulp mill 456 513
radioactivity 4 491 513
remote sensing 211 318
resources 211 491
runoff 513
salinity 455 456
Sea 338 491
seagrass 528
sediments 137 338 491
Seto 338
sewage 225 318 338 340 400 423 456 513
silica 528
specie key 455
stress 225 528
submerged vegetation 455
sulfate 338
sulfide 338
suspended solids 423
symposium 137 456
Taunton 423
taurine 225
temperature 455
thermal 4 211 344 456 513
trace metals 4 137 436 455 456 491 528
turbidity 455
urea 528
wastes 137 399 400 513
water velocity 455
wetlands 528
zooplankton 137 528
oligochaetes
abundance 167
algae 400
annelids 167
Bathyporia sarsi 11
Bay 11
benthic 11 400 539
biomass 167
bioturbation 539
BOD 539
California 400
Capitella capitata 11
community structure 11
Delaware 539
diversity 167
Estuary 167 539
fauna 167 539
gastrotrichs 167
Great Britian 167
Harbor 400
indicator species 400
Kiel 11
Limnodrilus 539
Los Angeles 400
macrofauna 11
microbes 167

nematodes 167
oil 400
organic 539
polychaetes 167 400
Pygospio elegans 11
sediments 539
sewage 11 167 400
Tees 167
wastes 400 539
Olisthodiscus luteus
alkaline phosphatase 482
ammonium 482
Bay 287
bloom 287
C/N 482
carbon 482
chlorophyll 482
diurnal 482
Ks 482
Massartia rotundata 287
New York 287
nitrate 482
nitrogen 482
phosphorus 482
phytoflagellate 287
Prorocentrum micans 287
salinity 287
uptake rates 482
one dimensional
ammonia 407
Bay 419
benthic oxygen demand 420
CBOD 407 408
Chesapeake 419
chlorophyll 407
coliforms 407
deterministic 419
diffusion 419
DO 407 408
Estuary 255 407 408 419
finite difference 34
freshwater 420
hydrology 420
inorganic 407
light 420
model 34 255 407 408 419 420
NBOD 408
nitrate 407
nitrite 407
nitrogen 407
organic 407
Pagan 407 408
phosphorus 407
phytoplankton 407
Potomac 255 419
real time 407 408
runoff 420
salinity 407 408
stochastic 255 420
temperature 420
time dependent 255
turbidity 420
Oregon
algae 448
algae mats 33
assay 448
Bay 448
benthic 33
benthic oxygen demand 33
chemical 516
Columbia 175
dispersion coefficient 170
Estuary 33 170 175
Eurytemora 175
fish 516
food processing 516
hydrology 448
industry 516
light 175 448
linear regression 175
microbes 516
model 33 170
nitrate 175
nutrients 448 516
phosphate 175
phytoplankton 175
radioactivity 516
resources 516
salinity 33
seasons 175 448
sediments 33
sewage 448 516
silica 175
slack water 170
Sphaerotilus 516
sulfide 33
temperature 448
thermal 516
tides 33
trace metals 516

Yaquina 33 170 448
zooplankton 175
organic
adsorption 259
algae mats 130
ammonia 50 157 407
ammonium 186
animals 186
ATP 135
Bay 141
benthic 269 539
bioturbation 539
BOD 539 541
carbon 27 135
CBOD 407
Chesapeake 141
chlorophyll 407
clay 259
coliforms 407
cycles 186
Delaware 539
denitrification 157
distribution 50 269 309
DO 407 541
energy transfer 141
Estuary 27 50 130 135 141 186 309 407 506 539
eutrophic 157
fauna 539
heat 141
heterotrophic potential 500
hydrology 141
indicator species 269
indices 269
inorganic 27 186 407 506
intertidal 309
Ireland 130
Irish 309
James 27
Limnodrilus 539
macrofauna 309
macrophytes 157
Mersey 309
metabolism 162
methods 135
microbes 27 135 141 500 541
mixing depth 541
model 27 157 407
mud flats 130
mussels 162
Newport 135
nitrate 27 50 157 186 407
nitrification 157
nitrite 27 50 186 407
nitrogen 50 157 162 186 407 506 541
nonpoint sources 541
North Carolina 135 186
nutrients 50 130 141 162 186 259
oligochaetes 539
one dimensional 407
organic matter 157
Pagan 407
Pamlico 186
Patuxent 141
pH 259
phosphate 27 50 162 259
phosphorus 259 407 541
phytoplankton 27 141 157 407 506
plants 141 186
point sources 541
populations mixed 500
power plant 141
predictions 27 541
primary 141
processes 27 157 506
productivity 141
profiles 541
real time 407
Rogerstown 130
runoff 541
salinity 50 259 407 541
Schofield 27
Sea 309
seasons 50 135 186 309 506
sediment water 259
sediments 135 186 539 541
sewage 27 259
silicate 50
soil erosion 541
St Lawrence 50
stochastic 27
surface waters 541
temperature 27 50 259 541
thermal 141 541
turbidity 541
uptake rates 157 259
urea 50 186
USSR 162
Vellar 506

Virginia 27 259
wastes 130 309 500 539
zooplankton 157
organic aggregates
DOM 404
Long Island 404
microbes 404
phytoplankton 404
POM 404
seasons 404
Sound 404
zooplankton 404
organic enrichment
benthic 371
community structure 371
ecocline 371
gradient 371
indicator species 371
indices 371
recovery 371
sediments 371
succession 371
organic matter
Acartia 227
aerobic 58
ammonia 157
ammonium 394
anaerobic 58 358
assay 58
bacteria attached 164
bacteria free 164
Balanus 227
Bay 227 422
Belgium 504
benthic 338 358 410
biomass 306
bloom 227 306
BOD 290 324
C/N 324
carbon 324 394
Chesapeake 422
chlorophyll 28
COD 338
coliforms 290
Connecticut 58
Copps Brook 58
crustaceans 338
cycles 410
decomposition 299
degradation 58
dehydrogenase 358
denitrification 157 324 504
detergent 148 413
DO 148 290 394
DOC 58
dredging 148
electron transfer 299
energy transfer 299
Estuary 148 164 227 474
Etang de Berre 306
Eurytemora 227
eutrophic 157
fisheries 338
France 306
glucose 164
growth rates 299
Humber 164
hydrology 306
inorganic 413
interstitial 58 504
Japan 338
Lake 358
latitudinal gradients 227
macrophytes 157
metabolic heat release 358
metabolism 58 358
microbes 58 299
microcalorimetry 358
mineralization 164
model 58 157 338 504
municipal 413
N/P 413
Narragansett 227
New Jersey 227
New York 410
nitrate 157 394 504
nitrification 157 410 504
nitrite 290 504
nitrogen 157 338 413
nutrients 28 58 227 306 358 394 410
oil 338
organic 157
organisms 358 410
oxygen 358
pH 290
phosphate 394
phosphorus 413
phytoplankton 28 157 227 394 413
plankton 306

POC 58
Portugal 474
primary 28 410
processes 157 358
productivity 28 410
Puget 358
Raritan 227
redox potential 299
respiration 28
Rhode Island 227
Sado 474
salinity 227 290 422
Sea 338
seasons 227 290
secchi disc 422
sediments 58 338 358 410 504
Seto 338
sewage 148 324 338
shellfish 290
Sound 358
Southampton 394
steady state 299
substrates 299
sulfate 338
sulfide 338
suspended solids 164 422
Tagus 474
temperature 290 394 474
tetrazolium salt 58
Thames 148
trace metals 394
turnover rates 394
uptake rates 157
Virginia 227
Washington 358
wastes 227 413
watersheds 58
wind 422
yeast 474
York 227
zooplankton 157 227 394
organisms
Alaska 319
algae bluegreen 335
amino acids 528
anaerobic 358
arctic 319
Baltic 335
benthic 234 319 335 358 410 447 508 528 542
benthic oxygen demand 542
bioenhancement 447
biomass 447
California 447
cannery 447
carbon 542
coliforms 542
conference 528
Cook 319
cycles 410 528
dehydrogenase 358
deoxygenation 542
detergent 234 335
detritus 528
diversity 447
DO 319 335 447 542
economics 508
energy transfer 335
fish 335 447 528 542
fisheries 528
France 234
Gulf 234
Harbor 447
heat 542
ice 542
indicator species 335
industry 508
Inlet 319
invertebrates 528
Lake 358
light 542
Los Angeles 447
macroalgae 335
management 508 528
Marseilles 234
metabolic heat release 358
metabolism 358
methods 542
microbes 319 528
microcalorimetry 358
model 335 542
New York 410
nitrification 410
nitrogen 319 528
nutrients 358 410 528 542
oil 528
organic matter 358 410
oxygen 358
pesticides 508 528
pH 319

phosphorus 319 528
phytoplankton 542
plankton 319 447
plants 508
Posidonia oceanica 234
primary 335 410 542
processes 358
productivity 335 410 447 542
public opinion 508
Puget 358
rate constants 542
reaeration 542
recreation 508
salinity 319
Sea 335
seagrass 234 528
sediments 358 410
sewage 234 319 335 447
silica 319 528
Sound 358
spatial distribution 542
stress 528
symposium 335
temporal distribution 542
tertiary 508
trace metals 528
urea 528
Washington 358
wastes 447 508
wetlands 528
zooplankton 335 528 542
Orielton
agriculture 60
algae mats 60
Australia 60
Lagoon 60
runoff 60
salinity 60
sewage 60
Tasmania 60
temperature 60
Orinoco
dissolved 131
Estuary 131
inorganic 131
Mississippi 131
plumes 131
Savannah 131
silica 131
suspended solids 131
uptake rates 131
orthophosphate
algae 133
alkalinity 184
ammonia 5 184
ammonium 228
assay 414
Bay 133 184 228 469
benthic 5
biomass 133
bloom 414
Chesapeake 133 184 469
chlorine 184
chlorophyll 184
cobalamin 509
diatoms 5 414
DO 117 184
DOP 469
Estuary 133
hydrology 414
interstitial 46
iron 46
Ks 469
laboratory culture 5
Long Island 509
methods 46 228
microbes 133
N/P 414
nitrate 5 228 414
nitrite 5 228
nitrogen 228
Norway 414
nutrients 509
oxidation 46
pH 184
phosphate 184
phosphorus 228
phytoplankton 414 469 509
polyphosphate 469
primary 5
processes 184
productivity 5
Puget 117
P32 469
Rhode 133
salinity 184
San Francisco 228
seasons 509
silica 414
Sound 117 509

sulfate 184
sulfide 184
temperature 184
thiamine 509
trace metals 184 414
Trondheimsfjord 414
turnover rates 469
uptake rates 133
vertical distribution 184
Vm 469
wastes 117
Oslofjord
algae 248
benthic 248
life cycles 248
seasons 248
spatial distribution 248
temporal distribution 248
outfall diffuser
dye 68
Maryland 68
salinity 68
sewage 68
temperature 68
oxidases
indices 368
oil 368
oxidation
ammonia 477
BOD 477
California 477
cycles 233 477
Delaware 477
Delta 477
Denmark 233
DIN 477
DO 477
Estuary 477
interstitial 46
iron 46
methods 46
model 477
nitrite 477
nitrogen 477
orthophosphate 46
phytoplankton 477
Potomac 477
reduction 233
Sacramento San Joquin 477
sediments 233
stochastic 477
sulphur 233
turnover rates 233
zooplankton 477
oxidation rates
Aisne 35
Bay 485
carbon 35
Chesapeake 485
Estuary 35
France 35
interstitial 485
iron 485
methods 35 485
nitrogen 35
Seine 35
temperature 35
oxygen
anaerobic 358
benthic 358
carbon 377
dehydrogenase 358
distribution 377
Estuary 377
Lake 358
metabolic heat release 358
metabolism 358
microcalorimetry 358
nitrogen 377
nutrients 358
organic matter 358
organisms 358
Potomac 377
processes 358
Puget 358
sediments 358
Sound 358
Washington 358
oyster reefs
Apalachee 191
Bay 191
benthic 191
Florida 191
indicator species 191
invertebrates 191
mud flats 191
pulp mill 191
seagrass 191
wastes 191
oysters

abundance 499
algae 412
aquaculture 412
barnacles 507
Bay 499
carbon 499
cycles 499
Estuary 507
Malpeque 499
management 471
marshes 507
microbes 499
model 507
mussels 507
nitrogen 499
North Inlet 507
nutrients 471
phosphate 108
phosphorus 499
phytoplankton 507
primary 507
processes 507
productivity 499 507
salinity 471
sewage 412 471
tides 507
water column 507

ozonization
artificial recharge 138
canal 138
dissolved solids 138
economics 138
Estuary 138
nitrification 138
recycle 138
sewage 138
Thames 138
water supply 138

P/B
Basin 381
Bay 330
Bedford 381
Hawaii 330
Kaneohe 330
microcopepods 330
nitrogen 330
Nova Scotia 381
phytoplankton 381
productivity 330 381
ratio 381
secondary 330
sewage 330
spatial component 381

P/N
California 441
DO 441
hydrology 441
nutrients 441
phytoplankton 441
primary 441
productivity 441
respiration 441
salinity 441
seasons 441
secchi disc 441
temperature 441

Pagan
ammonia 407
CBOD 407 408
chlorophyll 407
coliforms 407
DO 407 408
Elizabeth 327
Estuary 327 407 408
Harbor 327
industry 327
inorganic 407
James 327
Little Creek 327
Lynnhaven 327
management 327
model 327 407 408
Nansemond 327
NBOD 408
nitrate 407
nitrite 407
nitrogen 407
nonpoint sources 327
one dimensional 407 408
organic 407
phosphorus 407
phytoplankton 407
Poquoson 327
predictions 327
real time 407 408
salinity 407 408
sewage 327
wastes 327
York 327

Palm

Bay 402
Estuary 402
Florida 402
freshwater 402
Louisiana 402
management 402
North Carolina 402
nutrients 402
radioactivity 402
runoff 402
Santee 402
South Carolina 402
swamps 402
wetlands 402
Pamlico
algae 87
algae bluegreen 66
ammonia 203
ammonium 186
animals 186 202
benthic 87
biomass 66 201 203
bloom 201
cycles 185 186
deoxygenation 104
DO 202
DOC 104
DON 201
Estuary 66 87 90 103 104 185 186 201 202 203 492 493
fauna 87
fertilizer 202
fish 202
hydrology 87 90 201
industry 202
inorganic 186 201 203
iron 492 493
macrophytes 103
methods 493
microbes 203
mining 66 87 90 201 202 203
nitrate 186 201 203
nitrite 186
nitrogen 66 87 185 186 201 202
North Carolina 90 185 186 202 203 492 493
nutrients 104 186 203
organic 186
phosphate 202 203 492
phosphorus 66 87 90 201 493
phytoplankton 66 87 90 201 202 203
plankton 202
plants 186
POC 104
pool experiment 66
primary 104 185 202
processes 185
productivity 104 185 202
Rangia 90
respiration 104
salinity 90 202 492
seasons 103 186
sediments 90 186 201 492 493
sewage 202
succession 201
suspended solids 492
Tar 201
temperature 202
TOC 104
uptake rates 90
urea 186
wastes 66 90
zooplankton 87
parasites
benthic 356
disease 356
fish 356
macrofauna 356
Mississippi 356
pesticides 356
sewage 356
trace metals 356
Parramatta
chlorophyll 403
Estuary 403
microplankton 403
nanoplankton 403
primary 403
productivity 403
participation
agencies 61
Bay 61
local 61
management 61
public opinion 61
San Francisco 61
particulate matter
ATP 295
Basin 295

Bedford 295
carbohydrates 295
carbon 295
flagellates 295
phytoplankton 295
protein 295
zooplankton 295
pathogens
coliforms 163
feces 163
gulls 163
nitrogen 163
phosphorus 163
sewage 163
Patuxent
alkalinity 380
ATP 193
Bay 141 173 380 495
biomass 304
BOD 495
carbohydrates 193
carbon 192 193 195 495
Chesapeake 141 173 380 495
Chickahominy 173
chlorophyll 193 350 495
coliforms 380
Copepoda 195
crude fiber 193
crustaceans 195
DC 380
detritus 192 195
diurnal 93
DO 93 304 380 495
energy transfer 141 192 195
Estuary 93 141 173 192 193 195 304 350 380 495
Eurytemora affinis 195
heat 141
hydrology 141
indices 350
industry 380
James 173 380 495
linear regression 173
marshes 192 193
Maryland 93 192 193 195 304 350 380
methods 350
microbes 141 195
nitrate 380
nitrogen 193
nutrients 141 173 192 304 380 495
organic 141
pesticides 380
pH 380
phosphate 380
phosphorus 193 304
phytoplankton 141 304
plants 141
Potomac 173 380 495
power plant 141
primary 93 141 192 195 304
productivity 93 141 192 195 304
Rappahannock 173 380 495
remote sensing 350
respiration 93
Scottlana canadensis 195
seasons 173
sediments 304 380
sewage 93 380
suspended solids 350
Susquehanna 173 380 495
thermal 141 304
trace metals 380
Virginia 380
wastes 380
watersheds 173 380
wetlands 192 195
York 173 380 495
Pb210
Estuary 158
history 158
marshes 158
plutonium 158
records 158
Savannah 158
sediments 158
PC
aerobic 172
ammonium 172
anaerobic 172
ATP 172 465
Bay 465
Bight 172
C/N 465
calorific content 172
decomposition 172
detergent 270
DIC 172
DO 270

DOC 172
fisheries 465
methods 465
New York 172
nitrate 172
nitrite 172
nutrients 270 465
plankton 270
PN 172 270 465
primary 465
productivity 465
runoff 465
salinity 270
seston 270
sewage 172
St Margaret 465
suspended solids 465
temperature 270
Penilia avirostris
Bay 147
Cladocera 147
Evadne tergestina 147
Malagasy Republic 147
Nosy Be 147
phytoplankton 147
rainfall 147
seasons 147
tropical 147
zooplankton 147
Penobscot
benthic 106
Damariscotta 106
DO 106
Estuary 106
fish 106
growth rates 106
invertebrates 106
laboratory culture 106
larvae 106
Maine 106
salinity 106
sediments 106
settlement 106
Sheepscot 106
temperature 106
percolator
ammonia 165
enzymes 165
methods 165
sediments 165
sulfate 165
urea 165
Periphyton
ammonia 481
bloom 521
chlorophyll 481
Duwamish 481 521
Estuary 481 521
hydrology 521
indicator species 481
light 521
nitrate 481
nitrite 481
nutrients 521
phosphate 481
phytoplankton 521
primary 481
productivity 481
seasons 521
Washington 481
wastes 481
pesticides
agriculture 517
alkalinity 380
amino acids 528
Bay 380
benthic 137 356 508 528
bibliography 4 344 435 436
BOD 348
Bothnia 137
Broad River 292
carbon 220
Chesapeake 380
chlorinated hydrocarbons 137
chlorophyll 220
coliforms 380
conference 528
CO2 220
cycles 528
DC 380
detergent 436
detritus 292 528
disease 356
dissolved solids 137
DO 137 220 380
dredging 4
economics 4 508
energy transfer 348
Estuary 220 292 380
eutrophication 4 344 435

fertilizer 292 517
fish 356 513 528
fisheries 528
flood control 517
Florida 292
Gulf 137
hydrology 137 517
indices 220
industry 348 380 508 517
instruments 436
invertebrates 528
iron 137
James 380
land development 517
leaves 292
macrofauna 137 356
management 435 508 528
mangroves 292
Maryland 380
methods 435 436
microbes 220 528
mining 513
Mississippi 356
model 348 436
nitrate 380
nitrogen 528
North Carolina 517
nutrients 137 220 380 436 517 528
oil 4 137 344 436 513 528
organisms 508 528
parasites 356
Patuxent 380
pH 380
phosphate 380
phosphorus 137 528
phytoplankton 137
plants 508
pollution 4
Potomac 220 380
primary 137
productivity 137
public opinion 508
pulp mill 513
radioactivity 4 513
Rappahannock 380
recreation 508 517
resources 517
runoff 513
seagrass 528
secondary 348
sediments 137 380
sewage 348 356 380 513
Shark 292
silica 528
stress 528
Susquehanna 380
symposium 137
tertiary 508
thermal 4 344 435 513
TOC 220
trace metals 4 137 292 348 356 380 435 436 528
urea 528
Virginia 380
wastes 137 220 348 380 508 513
watersheds 380 517
wetlands 528
York 380
zooplankton 137 528

pH

abundance 383
adsorption 259
agrochemicals 455
Alaska 319
algae 432
alkaline phosphatase 142
alkalinity 47 67 184 293 380 383 455
ammonia 44 67 176 184 293 311
ammonium 38
arctic 319
assay 383
batch culture 144
Bay 8 67 71 184 207 293 380 455
Bayou 315
benthic 319
biomass 144 332
black necrosis 2
bloom 144 432
boat traffic 455
BOD 71 290 311
Broadkill 101
Burry Inlet 2
California 8
carbon 144
carbonate ion 308
Chesapeake 67 184 207 293 380 455
chloride 293

chlorine 184 455
chlorophyll 47 67 101 184
Chlorophyta 144
Chrysaora quinquecirrha 38
clay 259
coliforms 290 380
continuous culture 144
Cook 319
CO2 105 144 432
Crangon crangon 2
Cyanophyta 144
DC 380
Delaware 101
detergent 2
disease 455
dissolved 207
distribution 71 293 383
DO 2 8 47 67 71 101 105 184 290 311 315 319 332 380
DOC 308 311
DON 176 311
dredging 455
epiphytes 455
Estuary 47 67 101 380
fauna 455
fish 44
flux 315
Georgia 176
Great Britian 2
Humboldt 8
hydrology 71
indicator species 383
industry 380
Inlet 319
inorganic 101
interface salt fresh 311
interstitial 207 293
invertebrates 383
iron 293
James 47 380
Lagoon 105
Lake 383
manganese 207 293
Maryland 380
Michaelis Menton 71
microbes 2 142 319 332
model 71 105 207
molluscs 308
Murderkill 101
nitrate 38 67 176 380
nitrite 67 176 290 311
nitrogen 67 101 144 319
nitrogen fixation 144
NO2 47
NO3 47
nutrients 71 101 142 259 380 383 455
oil 455
organic 259
organic matter 290
organisms 319
orthophosphate 184
Patuxent 380
pesticides 380
phosphate 38 67 142 184 259 293 315 380
phosphorus 47 101 259 319 432
phytoplankton 47 67 71 144
plankton 319 383
PN 47
poly B hydroxybutyrate 332
polyp 38
pond experiment 8
Pontchartrain 383
Potomac 67 380
primary 383
processes 184 315
productivity 67 383
pS2 526
pulp mill 302
rainfall 176
Rappahannock 380
redox potential 293 315 526
remote sensing 38
runoff 383
salinity 2 44 47 67 71 101 184 259 290 308 311 315 319 332 383 455
salmonids 8 302
San Francisco 71
sea nettle 38
seasons 71 142 290 293
secondary 144
sediment water 259 315
sediments 332 380 526
sewage 8 38 105 142 144 259 319 380 432
shellfish 290
silica 293 319
specie key 455

stabilization 105
steady state 207
submerged vegetation 455
succession 144
sulfate 184 293
sulfide 184
Susquehanna 380
temperature 2 44 47 67 71 105 184 259 290 315 455
Texar 315
tides 101
toxicity 302
trace metals 2 184 311 380 455
turbidity 67 455
uptake rates 259
vertical distribution 184
Virginia 259 380
wastes 105 302 380
water velocity 455
watersheds 380
wetlands 101
York 380
zooplankton 67
Phaeophyta
benthic 333
C/N 333
macrophytes 333
Spain 333
phaeophytin
ammonia 473
Bay 473
carbon 473
Chesapeake 473
chlorophyll 473
DIC 473
DOC 473
nitrate 473
nitrite 473
nutrients 473
phosphorus 473
primary 473
productivity 473
TDC 473
PHB
biomass 525
metabolism 525
microbes 525
poly B hydroxybutyrate 525
sediments 525
phosphate
abundance 113
adsorption 259
agriculture 218
algae 430
algae bluegreen 218 247
alkaline phosphatase 142
alkalinity 67 184 293 380
ammonia 50 67 69 123 178 184 203 247 273 293 314 430 466 481 518 520
ammonium 38 113 394
animals 202 518
Aqaba 146
Bay 52 64 67 178 184 224 226 293 380 466
Bayou 181 313 314 315
benthic 178 224
Bight 113
biomass 52 203 247 466
Black 303
bloom 520
British Columbia 247
calcium 146
Canada 52
carbon 27 181 394 454
Chaetoceros simplex 303
chambers 178
Chesapeake 67 184 293 380
Chlorella salina 69
chloride 293
chlorine 184
chlorophyll 64 67 113 184 454 481
Chlorophyta 430
Chrysaora quinquecirrha 38
clay 259 385 458
coliforms 380
Columbia 175
Cyanophyta 430
cycles 224 247
DC 380
dissolved solids 313
distribution 50 113 125 293
DO 67 184 202 226 313 314 315 380 394 518
Doboy 385
DON 466
DPO 466
Duwamish 481 520
Estuary 27 50 67 82 143 175 181

202 203 218 219 380 430 481 492
518 520
Eurytemora 175
exchange diffusion 123
excretion rates 466
fertilizer 202 273 361
fish 202
Florida 181 314
flushing 218
flux 178 315 385 458
freshwater 113 219
Georgia 385
glucose 313
Gulf 146
Harbor 458
Hawaii 64 466
Hong Kong 458
Hudson 218
hydrology 224 226 520
indicator species 303 481
indices 125
industry 202 361 380
inorganic 27 178 181 203 385
interstitial 293
ion exchange 273
iron 293 492
James 27 380
Jordan 146
Kaneohe 64 466
kinetics 313
land development 458
light 175
linear regression 175
Loch 454
macroinvertebrates 314
macrophytes 52 247
manganese 293
Maryland 380 430
Massachusetts 82
metabolism 162 224 466
methods 123
microbes 27 142 203 247 313 385
mining 202 203
Mississippi 125
model 27 64
mussels 162
N/P 226
Narragansett 178
Nevis 454
New Jersey 113 224 226
New York 113
nitrate 27 38 50 64 67 69 82 113
123 125 143 175 178 203 218 219
224 226 303 314 380 394 454 481
nitrite 27 50 67 113 178 219 481
nitrogen 50 67 162 181 202 247
North 454
North Carolina 202 203 492
nutrients 50 82 125 142 143 162
203 218 226 259 313 380 394 518
Oregon 175
organic 27 50 162 259
organic matter 394
orthophosphate 184
oysters 108
Pamlico 202 203 492
Patuxent 380
Periphyton 481
pesticides 380
pH 38 67 142 184 259 293 315 380
phosphorus 181 247 259
phytoplankton 27 64 67 82 113
175 202 203 303 314 361 394 520
Pines 82
plankton 202 226
POC 454
point sources 218
polyp 38
Potomac 67 218 219 380 430
predictions 27
primary 64 181 202 361 481
processes 27 184 224 315
productivity 64 67 181 202 313
361 454 481
protein 69
P32 385
Quinte 52
Rappahannock 380
Raritan 224 226
recreation 82
red tide 361
redox potential 293 313 315
remote sensing 38
resources 125
Rhode Island 178
Rockaway Point 113
runoff 143
salinity 50 67 69 113 184 202
226 259 315 458 492
salts 143

Schofield 27
Scotland 454
Sea 303 454
sea nettle 38
seasons 50 142 175 224 226 293
secondary 123 273 430
sediment water 178 181 259 313 315 385
sediments 219 247 380 458 492
sewage 27 38 52 64 69 82 142 146 202 218 219 259 273 303 380 430 520
silica 113 175 293
silicate 50
size dependent 466
Sound 125 385
Southampton 394
spatial distribution 219
St Lawrence 50
stochastic 27
Suagus 82
sulfate 184 293
sulfide 184
suspended solids 113 492
Susquehanna 380
temperature 27 50 67 113 178 184 202 226 259 315 394
temporal distribution 219
tertiary 52
Texar 181 314 315
Thames 143
tides 518
TKN 219
TOC 314
Tolo 458
trace metals 184 380 394
turbidity 67
turnover rates 394
Ulva 82
United Kingdom 143
uptake rates 69 259
urea 50
USSR 162
vertical distribution 184
Virginia 27 259 380 518
Washington 481 520
wastes 123 143 218 380 481
watersheds 219 380
York 380 518
zooplankton 67 175 314 394 466

phosphomonoester
- alkaline phosphatase 468
- Bay 468
- Chesapeake 468
- Ks 468
- phosphorus 468
- phytoplankton 468
- Vm 468

phosphorus
- abundance 43 499
- adsorption 259
- Agnes 415
- Alaska 319
- Albemarle 43
- algae 87 236 256 339 432
- algae bluegreen 66 247 533
- alkaline phosphatase 468 470 482
- alkalinity 47 149
- amino acids 49 528
- ammonia 43 49 204 247 289 387 407 473
- ammonium 210 228 482
- arctic 319
- ash 382
- ATP 193
- Australia 154
- bacteria 256 339
- Bay 22 79 91 94 199 228 297 353 379 387 415 468 470 473 499
- Bayou 181 251 316
- benthic 87 137 319 528
- benthic oxygen demand 80
- biomass 66 110 154 201 247 304 339 533
- birds 256 339
- bloom 80 201 204 251 382 432 533
- BOD 342 353 541
- Bothnia 137
- bound 3
- British Columbia 247
- Broadkill 101
- budget 316
- C/N 482
- cadmium 210
- calcium 339 461
- *California* 187
- carbohydrates 193
- carbon 19 21 22 110 181 193 256 339 342 382 387 473 482 499
- carbon oxygen demand 80

Carter 21
CBOD 407
Chesapeake 22 79 91 297 415 468 473
chlorinated hydrocarbons 137
chlorophyll 43 47 79 80 101 154 193 289 382 407 415 470 473 482
Chowan 533
clay 259
COD 289
coliforms 94 163 353 407
community structure 256
conference 528
Cook 319
CO2 432
Creek 21
crude fiber 193
crustaceans 256 339
cycles 21 91 241 247 297 342 464 499 528
C14 382
Delaware 101 342
detergent 413
detritus 22 528
DIC 473
Dickinson 251
DIN 199
dissolved 3
dissolved solids 137
distribution 470
diurnal 482
diversity 94 533
DNA 470
DO 47 80 101 137 154 194 241 242 251 304 319 342 353 387 407 464 541
DOC 473
DON 201
DRP 199
economics 94
enzymes 470
Estuary 47 66 79 80 87 90 101 154 181 193 201 204 223 289 304 342 407 415 478 493 533
fatty acids 382
fauna 87
feces 163
fertilizer 3 204 464
fish 256 339 528
fish kills 251
fisheries 94 528
Florida 181 316
flux 22 187 342 379 387
foraminifera 256 339
freshwater 204
Georgia 386
Great Britian 199
growth rates 39 236
Gulf 137
gulls 163
Harbor 39
Hawaii 94
heterotrophic 256 339
Hurricane 415
hydrology 43 87 90 91 100 137 154 201 241
H3 154
indicator species 39
indices 470
industry 464
Inlet 319
inorganic 101 181 201 407 413
insects 256 339
intracellular 100
invertebrates 528
iron 137 493
isopleths 223
Jamaica 353
James 47
Kaneohe 94
Ks 468 482
land development 43
Little River 154
Liverpool 199
local 297
Long 39
long term 199
macrofauna 137
macrophytes 247
Malpeque 499
management 528
marshes 21 22 149 193 210 339 461
Maryland 193 304
meiofauna 256 339
metabolism 256 386
methods 228 493
Michaelis Menton 415
microbes 247 297 319 470 499 528 533 541

microcosms 194 379 387
mining 66 87 90 201 463 464
mixing depth 541
model 80 100 223 342 353 386 407 415 478
molluscs 39 256 339
municipal 413
Murderkill 101
N/P 239 413
Narragansett 379 387
Neuse 204
New York 353
Newfoundland 39
nitrate 3 201 204 228 382 407 473 482
nitrite 228 407 473
nitrogen 21 22 43 66 79 80 87 91 94 100 101 110 115 163 181 187 193 194 199 201 210 228 239 242 247 256 297 316 319 339 342 353 387 407 413 415 461 478 482 499 528 541
nitrogen fixation 49
nitrogen oxygen demand 80
nonpoint sources 223 541
North Carolina 43 90 204 493 533
Norway 236
Nova Scotia 382
NO2 47
NO3 47
nutrients 79 80 100 101 137 149 210 223 236 241 259 289 297 304 342 387 463 473 478 528
oil 137 528
Olisthodiscus luteus 482
one dimensional 407
organic 259 407 541
organic matter 413
organisms 319 528
orthophosphate 228
oysters 499
Pagan 407
Pamlico 66 87 90 201 493
pathogens 163
Patuxent 193 304
pesticides 137 528
pH 47 101 259 319 432
phaeophytin 473
phosphate 181 247 259
phosphomonoester 468
phytoplankton 43 47 66 79 80 87 90 91 110 115 137 154 187 194 201 204 239 251 256 297 304 339 342 382 407 413 415 468 478 533
plankton 319
plants 461
PN 47
point sources 541
pond experiment 3 110 256 339
pool experiment 66
potassium 461
Potomac 80 223 289 342 478
predictions 541
primary 21 22 43 49 80 91 115 137 154 181 187 236 304 382 473
processes 223 386
productivity 21 22 43 49 80 91 115 137 154 181 187 194 256 304 339 382 463 473 499
profiles 541
protein 470
P32 3 154
quasi linear 415
rainfall 297
Rangia 90
reaeration 80
real time 407
recreation 94
respiration 80 382
Rhode Island 387
runoff 223 464 541
salinity 43 47 90 101 154 204 241 259 319 353 407 541
San Francisco 228
seagrass 528
seasons 199 386
secondary 236
sediment water 21 181 242 259 379 386 387
sediments 3 19 49 90 137 149 187 201 210 242 247 289 297 304 387 461 493 541
seston 470
sewage 19 94 115 163 204 236 251 256 259 319 339 432 464
silica 149 187 319 382 528
soil erosion 541
Sound 43
South Carolina 149
spatial distribution 223

Stockholm 239
stress 528
succession 110 201
surface waters 541
Susquehanna 79 415
symposium 137 297
Tar 201
TDC 473
temperature 43 47 154 259 541
temporal distribution 223
tertiary 236 339
Texar 181 316
thermal 304 541
tides 19 22 101 210
Tokyo 470
trace metals 115 137 149 210 242 387 528
transport 100 223
turbidity 43 541
two dimensional 353
uptake rates 90 259 297 482 533
urea 528
vertical transport 297
Virginia 21 259
Vm 468
Ware 21
wastes 66 90 137 204 223 342 413 415 464
weight 289
wetlands 101 528
zinc 210
zooplankton 87 137 154 194 297 342 528
physico chemical treatment
Great Britian 294
sewage 294
phytoflagellate
Bay 287
bloom 287
Massartia rotundata 287
New York 287
Olisthodiscus luteus 287
Prorocentrum micans 287
salinity 287
phytoplankton
abundance 43 113 472
Acartia 227
Actinetobacter 431
Agnes 415
Albemarle 43 450
algae 72 87 256 339
algae bluegreen 66 533
alkaline phosphatase 468
alkalinity 47 67
alpha fluorescence 329
amino acids 456
ammonia 43 62 67 157 203 204 314 407 450 477 520
ammonium 31 113 129 188 298 394
animals 202
Aquaforte 145
ash 382
assay 414
ATP 295 434
Australia 154 424
autotrophic 86
bacteria 256 339 431 456
bacteria proteolytic 456
bacterioplankton 114
Balanus 227
barnacles 507
Basin 295 381
batch culture 144
Baule Mitschlerlich 511
Bay 64 65 67 71 72 79 86 91 141 147 188 227 288 296 297 298 300 322 415 431 468 469
Bayou 251 314 317
Bedford 295 381
benthic 72 87 137 511 542
benthic oxygen demand 80 221 542
Bight 113 286
biomass 62 65 66 110 128 144 154 201 203 296 304 339 434 519 533
birds 256 339
Black 303
bloom 80 144 201 204 227 251 286 317 363 382 414 450 519 520 521 533
BOD 1 71 221 274 342 477 519
Bothnia 137
Burrard 460
C/N 62 188 450
Calanus pacificus 363
calcium 339
California 62 128 129 155 187 441 477
Canada 145
carbohydrates 295 456
carbon 27 110 116 144 221 256

295 339 342 382 394 542
carbon oxygen demand 80
carbon/chlorophyll 62 434
CBOD 407
Chaetoceros 363
Chaetoceros simplex 303
chemostat 169
Chesapeake 67 72 79 91 141 296 297 298 415 468 469
chlorinated hydrocarbons 137
chlorophyll 28 43 47 64 65 67 79 80 113 128 154 155 174 288 296 300 322 329 382 407 415 424 519
Chlorophyta 31 144
Chowan 450 533
Cladocera 147
cobalamin 509
coliforms 1 221 407 542
Columbia 175
community structure 174 256
continuous culture 116 144
CO2 144
crustaceans 256 339
Cyanophyta 144
cycles 91 129 297 342 477
C14 382 456
DC 1
Delaware 342 411 477
Delta 477
denitrification 157
deoxygenation 542
detergent 413
detritus 65 424
diatoms 153 414 479
Dickinson 251
DIN 450 477
dinoflagellate 479
dissolved solids 137
distribution 71 113 128 153 155 460
diurnal 62 129
diversity 155 300 472 533
DO 1 47 67 71 72 80 137 154 174 194 202 221 251 304 314 317 342 394 407 441 477 519 542
DOC 416
DOM 404
DON 201 450
DOP 469
dredging 96
Duwamish 519 520 521
dye 1
energy transfer 72 141
Estuary 1 27 31 47 66 67 79 80 82 87 90 141 154 174 175 201 202 203 204 221 227 304 341 342 367 407 411 415 434 450 477 478 506 507 519 520 521 533
euglenoid 145
Euphaussid furcilia 363
Eurytemora 175 227
eutrophic 157
Evadne tergestina 147
factorial productivity 367
fatty acids 382
fauna 87 456
feeding rates 363
fertilizer 202 204 361
fiord 460
fish 202 256 317 339 515 542
fish kills 251
fisheries 96 411
flagellates 295
flood control 96
Florida 314 317
flushing 155
flux 187 342
foraminifera 72 256 339
freshwater 86 113 204 519
fungus 456
Great Britian 274
growth rates 169 188 459 479
Gulf 137 155
Gymnodinium 317
Hacking 424
Harbor 145 460
Hawaii 64 65 188
heat 141 542
heterotrophic 86 256 339 431 456
Hudson 31
Hurricane 415
hydrology 43 71 87 90 91 137 141 154 174 201 414 424 441 515 520 521
hypertrophication 286
H3 154
ice 542
indicator species 145 303 472
indices 456
industry 86 202 361

Inlet 460
inorganic 27 161 201 203 407 413 416 506
insects 256 339
intracellular 169
iron 137
James 27 47
Japan 322
Kaneohe 64 65 188
Ks 62 468 469
Lagoon 155
land development 43 96
latitudinal gradients 227
Lebanon 472
light 31 174 175 424 521 542
linear regression 175
Little River 154
local 297
Long Island 404 509
long term 153
Louisiana 96
macrofauna 72 137
macroinvertebrates 314
macrophytes 72 157 511
Malagasy Republic 147
management 96 411 515
manganese 416
marshes 339 507
Maryland 304
Massachusetts 82 161
meiofauna 256 339
metabolism 86 256
methods 114 296 424 456 542
Michaelis Menton 71 415
microbes 27 72 141 203 297 404 456 533
microcosms 86 194
microflagellates 174
mining 66 87 90 201 202 203
model 1 27 64 71 80 114 157 169 341 342 407 411 415 477 478 507 515 542
molluscs 256 339
municipal 413
mussels 507
N/P 239 413 414
nanoplankton 145 174 288 296 300 363
Narragansett 227
Neuse 204
New Jersey 113 227 300
New York 113 286
Newark 300
nitrate 27 31 64 67 82 113 128 129 157 175 188 201 203 204 298 303 314 382 394 407 414
nitrification 157
nitrite 27 67 113 298 407 477
nitrogen 43 62 65 66 67 79 80 87 91 110 115 129 144 157 161 169 187 194 201 202 239 256 297 339 342 407 413 415 477 478 479 506
nitrogen fixation 144
nitrogen oxygen demand 80
North 153 411
North Carolina 43 90 202 203 204 450 533
North Inlet 507
Norway 414
Nosy Be 147
Nova Scotia 381 382
NO2 47
NO3 47
nutrients 1 28 62 71 72 79 80 82 86 96 116 128 137 141 203 221 227 286 288 297 304 322 341 342 394 416 431 441 472 478 509 511 515 521 542
N15 62 129
oil 137 456
one dimensional 407
Oregon 175
organic 27 141 157 407 506
organic aggregates 404
organic matter 28 157 227 394 413
organisms 542
orthophosphate 414 469 509
oxidation 477
oysters 507
P/B 381
P/N 441
Pagan 407
Pamlico 66 87 90 201 202 203
particulate matter 295
Patuxent 141 304
Penilia avirostris 147
Periphyton 521
pesticides 137
pH 47 67 71 144

phosphate 27 64 67 82 113 175 202 203 303 314 361 394 520
phosphomonoester 468
phosphorus 43 47 66 79 80 87 90 91 110 115 137 154 187 194 201 204 239 251 256 297 304 339 342 382 407 413 415 468 478 533
Pines 82
plankton 202 288
plants 141
PN 47
POC 65
polyphosphate 469
POM 404
pond experiment 110 161 256 339
pool experiment 66
populations mixed 367
populations single 367
Port 424
Potomac 1 67 80 221 341 342 477 478
power plant 141
predictions 27
primary 28 43 62 64 80 86 91 115 129 137 141 154 155 174 187 202 288 296 304 361 367 382 416 441 450 460 507 511 515 542
processes 27 157 456 506 507
productivity 28 43 62 64 67 80 86 91 114 115 129 137 141 154 155 174 187 194 202 256 288 296 304 339 361 363 367 381 382 416 441 450 460 507 511 515 542
protein 295
Pseudocalanus minutus 363
Puget 515
pulp mill 456 459
P32 154 469
quasi linear 415
rainfall 147 297
Rangia 90
Raritan 227 288
rate constants 542
ratio 381
reaeration 80 542
real time 407
recreation 82 96
red tide 361
remote sensing 329
respiration 28 80 86 382 441
Rhode Island 227
Rockaway Point 113
runoff 96 424
Sacramento 341
Sacramento San Joquin 477
Sagami 431
salinity 43 47 67 71 90 113 154 174 202 204 227 407 441 456
San Francisco 71
Schofield 27
Sea 153 303 411
seasons 71 147 175 227 274 300 404 441 450 506 509 521
secchi disc 145 441
secondary 144
sediments 90 137 187 201 297 304 424
sewage 27 62 64 72 82 96 115 116 129 144 145 161 188 202 204 251 256 274 303 339 416 456 472 479 520
silica 113 175 187 382 414
Skeletonema 31 367
soil erosion 96
Sound 43 404 450 509 515
Southampton 394
spatial component 381
spatial distribution 542
St Johns 145
St Lawrence 434
stochastic 27 477
Stockholm 239
Suagus 82
succession 110 116 144 201 367 411 460 515
Suruga 431
suspended solids 113 424
Susquehanna 79 415
symposium 137 297 341 456
Tar 201
temperature 27 43 47 67 71 113 128 153 154 174 202 394 441 519
temporal distribution 542
tertiary 161 339
Texar 314 317
Texas 86
thermal 141 304 456
thiamine 509
three dimensional 515
tides 1 155 507 519

TOC 314
Tokyo 431
toxicity 116 317
trace metals 72 115 137 394 414 456 479
Trinity 86
Trondheimsfjord 414
trophic levels 515
tropical 147
turbidity 43 67 511
turnover rates 394 469
Ulva 82
uptake rates 31 90 129 157 188 297 533
Uranouchi 322
urea 62 129 188 298
Vancouver 460
Vellar 506
vertical transport 297
Vibrios 431
Virginia 27 227
Vm 62 468 469
Washington 515 520
wastes 66 86 90 137 204 221 227 317 322 342 413 415
water column 507
wetlands 96
York 174 227 367
zooplankton 67 72 86 87 137 147 153 154 157 175 194 227 295 296 297 314 341 342 363 394 404 431 477 542

Pines
Estuary 82
Massachusetts 82
nitrate 82
nutrients 82
phosphate 82
phytoplankton 82
recreation 82
sewage 82
Suagus 82
Ulva 82

plankton
abundance 383
aerobic 122
Alaska 319
alkalinity 383
animals 202
arctic 319
assay 383
Bay 226 288 365 366
benthic 319 447
bioenhancement 447
biomass 306 447
bloom 306
California 447
cannery 447
chemical 20
chlorophyll 288 365
coliforms 122
Cook 319
detergent 270
distribution 383
diversity 364 447
DO 202 226 270 319 447
energetics 365
Estuary 202
Etang de Berre 306
eutrophic 20
fertilizer 202
fish 202 447
flux 366
France 306
Harbor 20 447
hydrology 20 226 306
indicator species 383
industry 202
Inlet 319
invertebrates 383
Lake 383
Los Angeles 447
Massartia rotundata 365
microbes 20 122 319
microcosms 364
mining 202
model 366
N/P 226
nanoplankton 288
negentropy 366
New Jersey 226
nitrate 226
nitrogen 202 319
North Carolina 202
nutrients 226 270 288 306 364 383
organic matter 306
organisms 319 447
Pamlico 202
PC 270

pH 319 383
phosphate 202 226
phosphorus 319
phytoplankton 202 288
PN 270
Pontchartrain 383
primary 202 288 383
productivity 202 288 364 365 383 447
Raritan 226 288 365 366
red tide 122
respiration 365
runoff 383
salinity 202 226 270 319 383
seasons 226
seston 270
sewage 122 202 319 447
silica 319
temperature 202 226 270
wastes 20 447

plants
ammonium 186
animals 186
Bay 141
benthic 508
calcium 461
Chesapeake 141
cycles 186
economics 508
energy transfer 141
Estuary 141 186
heat 141
hydrology 141
industry 508
inorganic 186
management 508
marshes 461
microbes 141
nitrate 186
nitrite 186
nitrogen 186 461
North Carolina 186
nutrients 141 186
organic 141 186
organisms 508
Pamlico 186
Patuxent 141
pesticides 508
phosphorus 461
phytoplankton 141
potassium 461
power plant 141
primary 141
productivity 141
public opinion 508
recreation 508
seasons 186
sediments 186 461
tertiary 508
thermal 141
urea 186
wastes 508

plumes
dissolved 131
Estuary 131
inorganic 131
Mississippi 131
Orinoco 131
Savannah 131
silica 131
suspended solids 131
uptake rates 131

plutonium
Estuary 158
history 158
marshes 158
Pb210 158
records 158
Savannah 158
sediments 158

PN
aerobic 172
alkalinity 47
ammonium 172
anaerobic 172
ATP 172 465
Bay 200 465
Bight 172
biomass 200
C/N 465
calorific content 172
chlorophyll 47
decomposition 172
detergent 270
DIC 172
DO 47 270
DOC 172
Estuary 47
fisheries 465
Hawaii 200

James 47
Kaneohe 200
methods 465
New York 172
nitrate 172
nitrite 172
NO2 47
NO3 47
nutrients 270 465
PC 172 270 465
pH 47
phosphorus 47
phytoplankton 47
plankton 270
primary 465
productivity 465
runoff 465
salinity 47 270
seston 270
sewage 172
size composition 200
St Margaret 465
succession 200
suspended solids 465
temperature 47 270
zooplankton 200

POC
Aberdeen 453
aerobic 58
anaerobic 58
assay 58
Bay 65 406 453
biomass 65
Buzzards 406
C/N 406
carbon 454
chlorophyll 65 406 453 454
Connecticut 58
Copps Brook 58
C14 453
degradation 58
deoxygenation 104
detritus 65 406
DOC 58 104
Estuary 104
Fladen Ground 453
Hawaii 65
interstitial 58
Kaneohe 65
Loch 454
Massachusetts 406
metabolism 58
microbes 58
model 58
nanoplankton 406
Nevis 454
nitrate 454
nitrogen 65
North 453 454
nutrients 58 104
organic matter 58
Pamlico 104
phosphate 454
phytoplankton 65
PON 406
primary 104 453
processes 453
productivity 104 453 454
respiration 104
Scotland 454
Sea 453 454
seasons 406 453
sediments 58
suspended solids 406
tetrazolium salt 58
TOC 104
watersheds 58
zooplankton 406

point sources
agriculture 218
algae bluegreen 218
BOD 541
density 530
dispersion 530
DO 541
dye 530
Estuary 218 530
flushing 218
Hudson 218
hydrology 530
longitudinal 530
microbes 541
mixing 530
mixing depth 541
model 530
nitrate 218
nitrogen 541
nonpoint sources 541
nutrients 218
organic 541

phosphate 218
phosphorus 541
Potomac 218
predictions 541
profiles 541
runoff 541
salinity 541
sediments 541
sewage 218
soil erosion 541
surface waters 541
temperature 541
thermal 541
turbidity 541
vertical shear 530
wastes 218
York 530

pollution
bibliography 4
dredging 4
economics 4
eutrophication 4
oil 4
pesticides 4
radioactivity 4
thermal 4
trace metals 4

poly B hydroxybutyrate
biomass 332 525
DO 332
metabolism 525
microbes 332 525
pH 332
PHB 525
salinity 332
sediments 332 525

polychaetes
abundance 167
algae 400
amphipods 12
annelids 167
Bay 12
benthic 12 400
biomass 167
California 400
Capitella capitata 12
diversity 167
Estuary 167
fauna 167
gastrotrichs 167
Great Britian 167
Harbor 400
indicator species 12 400
invertebrates 12
Kiel 12
Los Angeles 400
microbes 167
nematodes 167
oil 400
oligochaetes 167 400
sewage 12 167 400
Tees 167
wastes 400

polyp
ammonium 38
Chrysaora quinquecirrha 38
nitrate 38
pH 38
phosphate 38
remote sensing 38
sea nettle 38
sewage 38

polyphosphate
Bay 469
Chesapeake 469
DOP 469
Ks 469
orthophosphate 469
phytoplankton 469
P32 469
turnover rates 469
Vm 469

POM
Agnes 421
Bay 421
Chesapeake 421
DOM 404
Hurricane 421
Long Island 404
microbes 404
organic aggregates 404
phytoplankton 404
seasons 404
sediments 421
sewage 421
soil erosion 421
Sound 404
suspended solids 421
zooplankton 404

PON

ammonia 177 190
Bay 190 406
Buzzards 406
C/N 406
chlorophyll 406
denitrification 190
detritus 406
DON 177
Georgia 177
Japan 190
Mangoku 190
marshes 177
Massachusetts 406
nanoplankton 406
nitrate 177
nitrite 177
N15 190
POC 406
pools 177
seasons 406
sediments 190
Simoda 190
suspended solids 406
tidal creek 177
Tokyo 190
Ura 190
zooplankton 406
pond experiment
algae 89 256 339
animals 89
bacteria 256 339
Bay 8
biomass 110 339
birds 256 339
bound 3
calcium 339
California 8
carbon 110 256 339
community structure 89 256
crustaceans 256 339
dissolved 3
DO 8
Estuary 89
fertilizer 3
fish 256 339
foraminifera 256 339
heat 89
heterotrophic 256 339
Humboldt 8
inorganic 161
insects 256 339
marshes 339
Massachusetts 161
meiofauna 256 339
metabolism 256
molluscs 256 339
nitrate 3
nitrogen 110 161 256 339
North Carolina 89
nutrients 89
pH 8
phosphorus 3 110 256 339
phytoplankton 110 161 256 339
productivity 89 256 339
P32 3
respiration 89
salmonids 8
seasons 89
sediments 3
sewage 8 89 161 256 339
South Creek 89
succession 110
temperature 89
tertiary 161 339
Pontchartrain
abundance 383
alkalinity 383
assay 383
distribution 383
indicator species 383
invertebrates 383
Lake 383
nutrients 383
pH 383
plankton 383
primary 383
productivity 383
runoff 383
salinity 383
pool experiment
algae bluegreen 66
biomass 66
Estuary 66
mining 66
nitrogen 66
Pamlico 66
phosphorus 66
phytoplankton 66
wastes 66
pools

ammonia 177
DON 177
Georgia 177
marshes 177
nitrate 177
nitrite 177
PON 177
tidal creek 177
populations mixed
Estuary 367
factorial productivity 367
heterotrophic potential 500
microbes 500
model 237
organic 500
phytoplankton 367
populations single 367
primary 367
productivity 367
Skeletonema 367
succession 367
survival 237
wastes 500
York 367
zooplankton 237
populations single
Estuary 367
factorial productivity 367
industry 452
metabolism 452
phytoplankton 367
populations mixed 367
primary 367
productivity 367
Skeletonema 367
stress 452
succession 367
TLm 452
wastes 452
York 367
Poquoson
Elizabeth 327
Estuary 327
Harbor 327
industry 327
James 327
Little Creek 327
Lynnhaven 327
management 327
model 327
Nansemond 327
nonpoint sources 327
Pagan 327
predictions 327
sewage 327
wastes 327
York 327
Porifera
chemical 359
Hymeniacidon sanguinea 359
indicator species 359
industry 359
Italy 359
sewage 359
wastes 359
Porphyra
Bay 238
Chinhae 238
disease 238
fertilizer 238
Korea 238
primary 238
productivity 238
wastes 238
Port
Australia 424
chlorophyll 424
detritus 424
Hacking 424
hydrology 424
light 424
methods 424
phytoplankton 424
runoff 424
sediments 424
suspended solids 424
Port Phillip
ammonia 388
Australia 388
Bay 388
benthic 388
fauna 388
nutrients 388
salinity 388
sediments 388
sewage 388
sewage treatment farm 388
Werribee 388
Portugal
Estuary 474

organic matter 474
Sado 474
Tagus 474
temperature 474
yeast 474
Posidonia australis
Cockburn 63
growth rates 63
seagrass 63
seasons 63
sediments 63
Sound 63
Posidonia oceanica
benthic 234
detergent 234
France 234
Giens 285
growth rates 285
Gulf 234 285
Marseilles 234
organisms 234
seagrass 234
sediments 285
sewage 234 285
potassium
calcium 461
marshes 461
nitrogen 461
phosphorus 461
plants 461
sediments 461
Potomac
aerobic 183
agriculture 218
algae 81 216 430
algae bluegreen 215 218
alkalinity 67 380
ammonia 67 289 430 477
ammonium 467
Anacostia 78
Bay 67 173 380 419 467 495
benthic oxygen demand 80 221
bloom 80
BOD 1 99 221 283 342 477 495
California 477
carbon 220 221 342 377 449 495
carbon oxygen demand 80
Chesapeake 67 173 380 419 467 495
Chickahominy 173
chlorophyll 67 80 215 220 289 495
Chlorophyta 430
COD 289
coliforms 1 183 221 380
CO2 220
Cyanophyta 430
cycles 183 342 477
DC 1 283 380
Delaware 342 477
Delta 477
deterministic 419
diffusion 419 467
DIN 477
dispersion coefficient 283
distribution 377 449
DO 1 67 80 81 99 216 220 221 222 283 342 380 477 495
DOD 283
dye 1 78
economics 217
Estuary 1 53 67 78 80 81 99 173 183 214 215 216 217 218 219 220 221 222 223 255 283 289 341 342 377 380 419 430 449 467 477 478 495
flushing 218
flux 342
freshwater 219 222
FWQA Dynamic 78
Hudson 218
hydrology 183
indices 220
industry 380
isopleths 223
isotope 449
James 173 380 495
land development 216
linear regression 173
management 53 183 215 217
Maryland 380 430
microbes 183 216 220
model 1 78 80 99 183 223 255 283 341 342 419 467 477 478
nitrate 67 218 219 380 467
nitrite 67 219 477
nitrogen 67 80 183 342 377 477 478
nitrogen oxygen demand 80
nonpoint sources 223

nutrients 1 80 173 214 215 216 217 218 220 221 222 223 289 341 342 380 478 495
one dimensional 255 419
oxidation 477
oxygen 377
Patuxent 173 380 495
pesticides 220 380
pH 67 380
phosphate 67 218 219 380 430
phosphorus 80 223 289 342 478
phytoplankton 1 67 80 221 341 342 477 478
point sources 218
predictions 78 183
primary 80
processes 183 223
productivity 67 80
profiles 214
Rappahannock 173 380 495
reaeration 80
real time 183
resources 216 222
respiration 80
runoff 216 223
Sacramento 341
Sacramento San Joquin 477
salinity 67
seasons 173
secondary 430
sediments 219 289 380
sewage 215 218 219 380 430
spatial distribution 219 223
stochastic 99 255 477
Susquehanna 173 380 495
symposium 341
temperature 67
temporal distribution 219 223
Thomann 78
tides 1 78 81 183
time dependent 255
TKN 219
TOC 220
trace metals 216 380
Transient Water Quality Network 183
transport 223
turbidity 67
Virginia 380
viruses 216
wastes 81 216 218 220 221 222 223 342 380
watersheds 173 219 380
weight 289
York 173 380 495
zooplankton 67 341 342 477
power plant
Bay 141
Chesapeake 141
dredging 498
economics 498
energy transfer 141
Estuary 141
fisheries 498
heat 141
hydrology 141
industry 498
management 498
microbes 141
nutrients 141 498
organic 141
Patuxent 141
phytoplankton 141
plants 141
primary 141
productivity 141
public opinion 498
resources 498
symposium 498
thermal 141
predictions
aerobic 183
Anacostia 78
Bay 433
benthic 433
BOD 284 541
Bush 373
carbon 27
Clyde 284
coliforms 183
cycles 183
DO 284 541
dye 78
Elizabeth 327
Estuary 27 78 183 284 327 373
Florida 433
freshwater 284
FWQA Dynamic 78
Harbor 327
Hillsborough 433

hydrology 183 284
industry 284 327
inorganic 27
invertebrates 433
James 27 327
Little Creek 327
Lynnhaven 327
management 183 327
microbes 27 183 541
mixing depth 541
model 27 78 183 327
Nansemond 327
nitrate 27
nitrite 27
nitrogen 183 541
nonpoint sources 327 541
organic 27 541
Pagan 327
phosphate 27
phosphorus 541
phytoplankton 27
point sources 541
Poquoson 327
Potomac 78 183
processes 27 183
profiles 541
real time 183
runoff 541
salinity 541
Schofield 27
sediments 433 541
sewage 27 284 327 433
soil erosion 541
stochastic 27
surface waters 541
temperature 27 284 541
tertiary 433
thermal 541
Thomann 78
tides 78 183
Transient Water Quality Network 183
turbidity 541
Virginia 27
wastes 284 327
York 327
primary
Aberdeen 453
abundance 43 383
Alaska 7
Albemarle 43 450
algae 140 236 343
algae bluegreen 335
algae colonial 152
alkalinity 383
amino acids 49
ammonia 5 43 49 62 450 473 481
ammonium 129 522
animals 202
ash 382
assay 383
ATP 465
Australia 154
autotrophic 86
Baltic 335
barnacles 507
Baule Mitschlerlich 511
Bay 22 40 64 86 91 140 141 238 288 296 453 465 473
Bayou 181
benthic 5 137 335 410 511 542
benthic oxygen demand 80 542
Bermuda 24
bibliography 124
biomass 62 140 154 296 304 336 445
bloom 24 80 382 445 450
Bothnia 137
boundary layer 522
Burrard 460
C/N 62 450 465
California 62 129 155 187 276 441
carbon 21 22 181 192 195 362 382 473 522 542
carbon oxygen demand 80
carbon/chlorophyll 62
Carter 21
Chesapeake 22 91 140 141 296 473
Chinhae 238
chlorinated hydrocarbons 137
chlorophyll 28 43 64 80 140 154 155 174 288 296 382 391 403 453 473 481
Chowan 450
Cochin 391
coliforms 542
Colville 7
community structure 174 483
Copepoda 195

Creek 21
crustaceans 195
ctenophores 362
cycles 21 91 129 185 410 522
C14 140 152 382 391 453
deoxygenation 104 542
detergent 335
detritus 22 192 195
diatoms 5 445
DIC 473
DIN 450
disease 238
dissolved solids 137
distribution 155 383 460
diurnal 62 93 129
diversity 155
DO 80 93 137 154 174 202 304 335 441 542
DOC 104 416 473
DON 450
Duwamish 481
energy transfer 141 192 195 276 335 362
Estuary 7 80 93 104 124 141 154 174 181 185 192 195 202 304 336 367 391 403 450 481 507
Eurytemora affinis 195
eutrophication 124
factorial productivity 367
fatty acids 382
fauna 276
fertilizer 202 238 361
fiord 460
fish 202 335 515 542
fisheries 7 124 465
Fladen Ground 453
Florida 181
flushing 155
flux 22 187 362
freshwater 86
Grevelingen 336
growth rates 236 522
Gulf 137 155
Harbor 460
Hawaii 64
heat 141 542
heterotrophic 86
hydrology 7 43 91 124 137 141 154 174 441 515
H3 154
ice 542
indicator species 335 383 481
industry 86 202 361
Inlet 460
inorganic 181 416
intertidal 276
invertebrates 383
iron 137
Japan 445
Kaneohe 64
kelp 522
Korea 238
Ks 62 522
laboratory culture 5
Lagoon 155
Lake 383
land development 43
light 24 174 336 542
Little River 154
macroalgae 335
Macrocystis 522
macrofauna 137
macrophytes 24 276 511
management 515
manganese 416
marshes 21 22 192 390 507
Maryland 93 192 195 304
metabolism 86 276
methods 152 296 465 483 542
microbes 141 195 343 445
microcosms 86 140 362
microflagellates 174
microplankton 403
mining 202
model 64 80 335 507 515 542
morphology 522
mucus 152
mussels 507
nanoplankton 174 288 296 403
Netherlands 336
New Jersey 390
New York 410
nitrate 5 64 129 382 473 481
nitrification 410
nitrite 5 473 481
nitrogen 21 22 43 62 80 91 115 129 181 185 187 202 362 522
nitrogen fixation 49
nitrogen oxygen demand 80
North 453

North Carolina 43 185 202 450
North Inlet 507
Norway 236
Nova Scotia 382
nutrients 7 24 28 62 80 86 104 137 141 192 236 288 304 336 343 362 383 391 410 416 441 445 465 473 511 515 522 542
N15 62 129
oil 137
organic 141
organic matter 28 410
organisms 335 410 542
orthophosphate 5
oysters 507
P/N 441
Pamlico 104 185 202
Parramatta 403
Patuxent 93 141 192 195 304
PC 465
Periphyton 481
pesticides 137
pH 383
phaeophytin 473
phosphate 64 181 202 361 481
phosphorus 21 22 43 49 80 91 115 137 154 181 187 236 304 382 473
phytoplankton 28 43 62 64 80 86 91 115 129 137 141 154 155 174 187 202 288 296 304 361 367 382 416 441 450 460 507 511 515 542
plankton 202 288 383
plants 141
PN 465
POC 104 453
Pontchartrain 383
populations mixed 367
populations single 367
Porphyra 238
Potomac 80
power plant 141
processes 185 453 507
productivity 5 7 21 22 24 28 40 43 49 62 64 80 86 91 93 104 115 124 129 137 140 141 152 154 155 174 181 185 187 192 195 202 238 276 288 296 304 335 336 343 361 362 367 382 383 390 391 403 410 416 441 445 450 453 460 465 473 481 507 511 515 522 542
Puget 515
P32 154
Raritan 40 288
rate constants 542
reaeration 80 542
recipient analog 483
red tide 361
resources 7
respiration 28 80 86 93 104 343 382 441
runoff 383 465
salinity 43 154 174 202 383 441
Scottlana canadensis 195
Sea 335 445 453
seasons 276 391 441 450 453
secchi disc 441
secondary 236 343 483
sediment water 21 181
sediments 49 137 187 304 410
sewage 62 64 93 115 129 140 202 236 276 335 343 416 483
silica 152 187 382
Skeletonema 367
Sound 43 450 515
Spartina alterniflora 390
spatial distribution 542
St Lawrence 124
St Margaret 465
succession 367 460 515
suspended solids 124 465
symposium 137 335
TDC 473
temperature 43 154 174 202 391 441
temporal distribution 542
tertiary 236 483
Texar 181
Texas 86
thermal 141 304
three dimensional 515
tides 22 155 507
TOC 104
trace metals 115 124 137
Trinity 86
trophic levels 515
turbidity 43 511
uptake rates 129
urea 62 129
Vancouver 460
Virginia 21

Vm 62 522
Ware 21
Washington 481 515
wastes 86 137 238 481
water column 507
water velocity 336 522
wetlands 192 195
winter 445
York 174 367
zooplankton 86 137 140 154 296 335 391 542
Zostera marina 336
processes
Aberdeen 453
aerobic 183
alkalinity 184
amino acids 456
ammonia 157 184
anaerobic 358
bacteria 456
bacteria proteolytic 456
barnacles 507
Bay 184 224 354 427 453
Bayou 315
benthic 224 358
biological 230
Biscayne 427
carbohydrates 456
carbon 27
chemical 230 427
Chesapeake 184
chlorine 184
chlorophyll 184 453
coliforms 183
cycles 183 185 224
C14 453 456
dehydrogenase 358
denitrification 157
deposition 328
detritus 328
DO 184 315
energy transfer 354
Estuary 27 183 185 223 328 506 507
eutrophic 157
fauna 456
Fladen Ground 453
Florida 427
flux 315
free surface 427
fungus 456
Georgia 386
heterotrophic 456
hydrology 183 224 354
indices 456
inorganic 27 506
interstitial 536
isopleths 223
James 27
Lake 358
macrophytes 157
management 183
marshes 507
metabolic heat release 358
metabolism 224 358 386
methods 456
microbes 27 183 328 456
microcalorimetry 358
model 27 157 183 223 244 354 386 427 507 536
mussels 507
New Jersey 224
nitrate 27 157 224
nitrification 157
nitrite 27
nitrogen 157 183 185 506
nonadvective 244
nonpoint sources 223
North 453
North Carolina 185
North Inlet 507
nutrients 223 358
oil 456
organic 27 157 506
organic matter 157 358
organisms 358
orthophosphate 184
oxygen 358
oysters 507
Pamlico 185
pH 184 315
phosphate 27 184 224 315
phosphorus 223 386
phytoplankton 27 157 456 506 507
POC 453
Potomac 183 223
predictions 27 183
primary 185 453 507
productivity 185 453 507
Puget 358

pulp mill 456
Rappahannock 328
Raritan 224
real time 183
redox potential 315 328
runoff 223
salinity 184 315 328 456
San Francisco 354
Schofield 27
Sea 453
seasons 224 386 453 506
sediment water 315 386
sediments 328 358 427
sewage 27 456
silica 536
Sound 358
spatial distribution 223
stabilization 230
stochastic 27
sulfate 184
sulfide 184
symposium 456
temperature 27 184 315
temporal distribution 223
Texar 315
thermal 456
three dimensional 427
tides 183 507
time dependent 427
trace metals 184 456
Transient Water Quality Network 183
transport 223 244 354 427
uptake rates 157
Vellar 506
vertical distribution 184
Virginia 27
Washington 358
wastes 223 230
water column 507
wind 427
zooplankton 157
productivity
Aberdeen 453
abundance 43 383 499
Alaska 7
Albemarle 43 450
algae 89 140 256 339 343
algae bluegreen 335
algae colonial 152
alkalinity 67 383
amino acids 49
ammonia 5 43 49 62 67 450 473 481
ammonium 129 522
animals 89 202
ash 382
assay 383
ATP 465
Australia 154
autotrophic 86
bacteria 256 339
bacterioplankton 114
Baltic 335
barnacles 507
Basin 381
Baule Mitschlerlich 511
Bay 22 40 64 67 86 91 140 141 231 238 288 296 330 365 453 465 473 499
Bayou 102 181 313
Bedford 381
benthic 5 137 335 393 410 447 511 542
benthic oxygen demand 80 542
Bermuda 24
bibliography 124
bioenhancement 447
biomass 62 140 154 231 296 304 336 339 445 447
birds 256 339
bloom 24 80 363 382 445 450
Bothnia 137
boundary layer 522
buoys 37
Burrard 460
C/N 62 450 465
Calanus pacificus 363
calcium 339
California 37 62 129 155 187 276 441 447
cannery 447
carbon 21 22 181 192 195 256 339 362 382 454 473 499 522 542
carbon oxygen demand 80
carbon/chlorophyll 62
Carter 21
ceramic panel substrates 37
Chaetoceros 363
chemical 102 428

Chesapeake 22 67 91 140 141 296 473
Chinhae 238
chlorinated hydrocarbons 37 137
chlorophyll 28 43 64 67 80 102 140 154 155 174 288 296 365 382 391 403 453 454 473 481
Chocolate 102
Chowan 450
Cochin 391
coliforms 542
Colville 7
community structure 89 174 256
Copepoda 195
crabs 231
Craiglin 393
Creek 21
crustaceans 195 256 339
ctenophores 362
cycles 21 91 129 185 410 428 499 522
C14 140 152 382 391 453
density 393
deoxygenation 104 542
detergent 335
detritus 22 192 195
diatoms 5 445
DIC 473
DIN 450
disease 238
dispersion 37
dissolved solids 137 313
distribution 155 383 460
diurnal 62 93 129
diversity 102 155 364 447
DO 67 80 93 102 137 154 174 194 202 304 313 335 441 447 542
DOC 104 416 473
DON 450
Duwamish 481
economics 37
energetics 365
energy transfer 141 192 195 231 276 335 362 534
Estuary 7 67 80 89 93 104 124 141 154 174 181 185 192 195 202 304 336 367 391 403 450 481 507
Euphaussid furcilia 363
Eurytemora affinis 195
eutrophication 124
factorial productivity 367
fatty acids 382
fauna 276 393
feeding rates 363
fertilizer 202 238 361 393
fiord 460
fish 202 231 256 335 339 447 515 534 542
fisheries 7 124 465
Fladen Ground 453
Florida 181
flushing 155
flux 22 187 362
foraminifera 256 339
freshwater 86 231
Galveston 231
glucose 313
Grevelingen 336
growth rates 522 534
Gulf 137 155
Harbor 447 460
Hawaii 64 330
heat 89 141 542
heterotrophic 86 256 339
Hydrobia ulvae 393
hydrology 7 43 91 124 137 141 154 174 441 515
H3 154
ice 542
indicator species 335 383 481
indices 102
industry 86 202 361
Inlet 460
inorganic 181 416
insects 256 339
intertidal 276
invertebrates 383
iron 137
Japan 445
Kaneohe 64 330
kelp 522
kinetics 313
Korea 238
Ks 62 522
laboratory culture 5
Lagoon 155
Lake 383
land development 43
light 24 174 336 542
Little River 154

Loch 393 454
Los Angeles 447
macroalgae 335
Macrocystis 522
macrofauna 137
macrophytes 24 276 511
Malpeque 499
management 231 428 515
manganese 416
marshes 21 22 192 339 390 507
Maryland 93 192 195 304
Massartia rotundata 365
meiofauna 256 339
metabolism 86 256 276 534
methods 37 114 152 296 465 542
microbes 141 195 313 343 445 499
microcopepods 330
microcosms 86 140 194 362 364
microflagellates 174
microplankton 403
mining 202 463
model 64 80 114 231 335 507 515 542
molluscs 256 339
morphology 522
mucus 152
mussels 507
nanoplankton 174 288 296 363 403
Netherlands 336
Nevis 454
New Jersey 390
New York 410
nitrate 5 64 67 129 382 454 473 481
nitrification 410
nitrite 5 67 473 481
nitrogen 21 22 43 62 67 80 91 115 129 181 185 187 194 202 256 330 339 362 499 522
nitrogen fixation 49
nitrogen oxygen demand 80
North 453 454
North Carolina 43 89 185 202 450
North Inlet 507
Nova Scotia 381 382
nutrients 7 24 28 62 80 86 89 104 137 141 192 288 304 313 336 343 362 364 383 391 410 416 428 441 445 463 465 473 511 515 522 542
N15 62 129
Obelia dichtoma 37
oil 137
organic 141
organic matter 28 410
organisms 335 410 447 542
orthophosphate 5
oysters 499 507
P/B 330 381
P/N 441
Pamlico 104 185 202
Parramatta 403
Patuxent 93 141 192 195 304
PC 465
Periphyton 481
pesticides 137
pH 67 383
phaeophytin 473
phosphate 64 67 181 202 313 361 454 481
phosphorus 21 22 43 49 80 91 115 137 154 181 187 194 256 304 339 382 463 473 499
phytoplankton 28 43 62 64 67 80 86 91 114 115 129 137 141 154 155 174 187 194 202 256 288 296 304 339 361 363 367 381 382 416 441 450 460 507 511 515 542
plankton 202 288 364 365 383 447
plants 141
PN 465
POC 104 453 454
pond experiment 89 256 339
Pontchartrain 383
populations mixed 367
populations single 367
Porphyra 238
Potomac 67 80
power plant 141
primary 5 7 21 22 24 28 40 43 49 62 64 80 86 91 93 104 115 124 129 137 140 141 152 154 155 174 181 185 187 192 195 202 238 276 288 296 304 335 336 343 361 362 367 382 383 390 391 403 410 416 441 445 450 453 460 465 473 481 507 511 515 522 542
processes 185 453 507
Pseudocalanus minutus 363
Puget 515

P32 154
Raritan 40 288 365
rate constants 542
ratio 381
reaeration 80 542
red tide 361
redox potential 313
resources 7
respiration 28 80 86 89 93 102 104 343 365 382 441
runoff 383 465
salinity 43 67 154 174 202 231 383 441
Scotland 454
Scottlana canadensis 195
Sea 335 445 453 454
seasons 89 102 276 391 441 450 453
secchi disc 441
secondary 231 330 343
sediment water 21 181 313
sediments 49 137 187 304 410
sewage 37 62 64 89 93 115 129 140 202 256 276 330 335 339 343 416 447
shrimp 231
silica 152 187 382
Skeletonema 367
Sound 43 450 515
South Creek 89
Spartina alterniflora 390
spatial component 381
spatial distribution 542
St Lawrence 124
St Margaret 465
stress 534
succession 367 460 515
suspended solids 124 465
symposium 137 335
Taylor 102
TDC 473
temperature 43 67 89 154 174 202 391 441
temporal distribution 542
tertiary 339
Texar 181
Texas 86 102 231
thermal 141 304
three dimensional 515
tides 22 155 507
TOC 104
trace metals 37 115 124 137
Trinity 86
trophic levels 515
turbidity 43 67 511
uptake rates 129
urea 62 129
Vancouver 460
Virginia 21
Vm 62 522
Ware 21
Washington 481 515
wastes 86 102 137 238 447 481
water column 507
water velocity 336 522
wetlands 192 195
winter 445
York 174 367
zooplankton 67 86 102 137 140 154 194 296 335 363 391 542
Zostera marina 336
profiles
BOD 541
DO 541
Estuary 214
microbes 541
mixing depth 541
nitrogen 541
nonpoint sources 541
nutrients 214
organic 541
phosphorus 541
point sources 541
Potomac 214
predictions 541
runoff 541
salinity 541
sediments 541
soil erosion 541
surface waters 541
temperature 541
thermal 541
turbidity 541
Prorocentrum micans
Bay 287
bloom 287
Massartia rotundata 287
New York 287
Olisthodiscus luteus 287
phytoflagellate 287

salinity 287
protein
alkaline phosphatase 470
ammonia 69
ATP 295
Basin 295
Bay 470
Bedford 295
carbohydrates 295
carbon 295
Chlorella salina 69
chlorophyll 470
distribution 470
DNA 470
enzymes 470
flagellates 295
indices 470
microbes 470
nitrate 69
particulate matter 295
phosphate 69
phosphorus 470
phytoplankton 295
salinity 69
seston 470
sewage 69
Tokyo 470
uptake rates 69
zooplankton 295
Providence
Bay 423
chlorophyll 423
Estuary 423
fatty acids 423
microbes 423
Narragansett 423
oil 423
sewage 423
suspended solids 423
Taunton 423
Pseudocalanus minutus
bloom 363
Calanus pacificus 363
Chaetoceros 363
Euphaussid furcilia 363
feeding rates 363
nanoplankton 363
phytoplankton 363
productivity 363
zooplankton 363
pS2
pH 526
redox potential 526
sediments 526
pteropods
Bay 524
bloom 524
dinoflagellate 524
Fundy 524
Gonyaulax excavata 524
herring 524
Limacina retroversa 524
public opinion
agencies 61 159
Bay 61 429
benthic 508
Chesapeake 429
dredging 498
economics 498 508
fisheries 498
industry 498 508
local 61 159
management 61 159 429 498 508
nutrients 498
organisms 508
participation 61
pesticides 508
plants 508
power plant 498
recreation 508
resources 159 429 498
San Francisco 61
state 159
symposium 498
tertiary 508
wastes 508
Puerto Rico
algae bluegreen 243
algae mats 243
bacteria 243
Bay 243
Guayanilla 243
heterotrophic 243
nitrogen fixation 243
sediments 243
thermal 243
Puget
anaerobic 358
benthic 305 358
bibliography 84

dehydrogenase 358
disease 305
diversity 17
DO 117
ecosystem 84
fish 17 305 515
hydrology 515
intertidal 17
invertebrates 17
Lake 358
land development 84
macrofauna 17
management 515
metabolic heat release 358
metabolism 358
microcalorimetry 358
model 515
nutrients 358 515
organic matter 358
organisms 358
orthophosphate 117
oxygen 358
phytoplankton 515
primary 515
processes 358
productivity 515
sediments 17 358
sewage 17 305
Sound 17 84 117 305 358 515
succession 515
three dimensional 515
trophic levels 515
Washington 17 84 305 358 515
wastes 117
pulp mill
amino acids 456
annelids 370
Apalachee 191 278
bacteria 456
bacteria proteolytic 456
Bay 191 278 488
benthic 191 370 409
biomass 409
BOD 136
C/N 136
carbohydrates 456
Charleston 136
crustaceans 370
C14 456
diversity 409
DO 278
England 370
Estuary 98
fauna 456
fish 278 513
fisheries 488
Florida 191 278
fucaceae 334
fungus 456
growth rates 459
Harbor 136
heterotrophic 456
indicator species 191 370
indices 456
industry 136 488
intertidal 334
invertebrates 191
Japan 488
Laita 98
Linnhe Eil 370
Loch 370
macrofauna 409
methods 456
microbes 456
mining 513
model 98
molluscs 370
mud flats 191
Mytilus 334
oil 456 513
oyster reefs 191
pesticides 513
pH 302
phytoplankton 456 459
processes 456
radioactivity 513
runoff 513
salinity 456
salmonids 98 302
seagrass 191
sewage 136 456 488 513
South Carolina 136
Spain 334
stress 334
succession 370 409
Suruga 488
symposium 456
thermal 456 513
toxicity 302
trace metals 456

Ulvales 334
wastes 136 191 302 334 488 513
Pygospio elegans
Bathyporia sarsi 11
Bay 11
benthic 11
Capitella capitata 11
community structure 11
Kiel 11
macrofauna 11
oligochaetes 11
sewage 11
P32
Australia 154
Bay 469
biomass 154
bound 3
Chesapeake 469
chlorophyll 154
clay 385
dissolved 3
DO 154
Doboy 385
DOP 469
Estuary 154
fertilizer 3
flux 385
Georgia 385
hydrology 154
H3 154
inorganic 385
Ks 469
Little River 154
microbes 385
nitrate 3
orthophosphate 469
phosphate 385
phosphorus 3 154
phytoplankton 154 469
polyphosphate 469
pond experiment 3
primary 154
productivity 154
salinity 154
sediment water 385
sediments 3
Sound 385
temperature 154
turnover rates 469
Vm 469
zooplankton 154
quasi linear
Agnes 415
Bay 415
Chesapeake 415
chlorophyll 415
Estuary 415
Hurricane 415
Michaelis Menton 415
model 415
nitrogen 415
phosphorus 415
phytoplankton 415
Susquehanna 415
wastes 415
Quinte
Bay 52
biomass 52
Canada 52
macrophytes 52
phosphate 52
sewage 52
tertiary 52
radioactivity
Bay 345 346 402
bibliography 4 345 346
chemical 516
Chesapeake 345 346
chlorinated hydrocarbons 491
dredging 4
economics 4 491
Estuary 402
eutrophication 4 345 346
fish 513 516
Florida 402
food processing 516
freshwater 402
hydrology 491
industry 516
Louisiana 402
management 402 491
Mediterranean 491
microbes 491 516
mining 513
model 345 346
North Carolina 402
nutrients 402 491 516
oil 4 491 513
Oregon 516
Palm 402

pesticides 4 513
pollution 4
pulp mill 513
resources 345 346 491 516
runoff 402 513
Santee 402
Sea 491
sediments 491
sewage 513 516
South Carolina 402
Sphaerotilus 516
swamps 402
thermal 4 513 516
trace metals 4 491 516
wastes 513
wetlands 402
rainfall
ammonia 176
Bay 147 297
Chesapeake 297
Cladocera 147
cycles 297
DON 176
Evadne tergestina 147
Georgia 176
local 297
Malagasy Republic 147
microbes 297
nitrate 176
nitrite 176
nitrogen 297
Nosy Be 147
nutrients 297
Penilia avirostris 147
pH 176
phosphorus 297
phytoplankton 147 297
seasons 147
sediments 297
symposium 297
tropical 147
uptake rates 297
vertical transport 297
zooplankton 147 297
Rangia
Estuary 90
hydrology 90
mining 90
North Carolina 90
Pamlico 90
phosphorus 90
phytoplankton 90
salinity 90
sediments 90
uptake rates 90
wastes 90
Rappahannock
alkalinity 380
Bay 173 380 495
BOD 495
carbon 495
Chesapeake 173 380 495
Chickahominy 173
chlorophyll 495
coliforms 380
DC 380
deposition 328
detritus 328
DO 380 495
Estuary 173 328 380 495
industry 380
James 173 380 495
linear regression 173
Maryland 380
microbes 328
nitrate 380
nutrients 173 380 495
Patuxent 173 380 495
pesticides 380
pH 380
phosphate 380
Potomac 173 380 495
processes 328
redox potential 328
salinity 328
seasons 173
sediments 328 380
sewage 380
Susquehanna 173 380 495
trace metals 380
Virginia 380
wastes 380
watersheds 173 380
York 173 380 495
Raritan
Acartia 227
Balanus 227
Bay 40 224 226 227 288 365 366
benthic 224
bloom 227

chlorophyll 288 365
cycles 224
DO 226
energetics 365
Estuary 227 426
Eurytemora 227
flux 366
hydrology 224 226
latitudinal gradients 227
Massartia rotundata 365
metabolism 224
methods 426
model 366
N/P 226
nanoplankton 288
Narragansett 227
negentropy 366
New Jersey 224 226 227 426
New York 426
nitrate 224 226
nutrients 226 227 288
organic matter 227
phosphate 224 226
phytoplankton 227 288
plankton 226 288 365 366
primary 40 288
processes 224
productivity 40 288 365
respiration 365
Rhode Island 227
salinity 226 227
seasons 224 226 227
spatial distribution 426
temperature 226
temporal distribution 426
trace metals 426
Virginia 227
wastes 227
York 227
zooplankton 227
rate constants
benthic 542
benthic oxygen demand 542
carbon 542
coliforms 542
deoxygenation 542
DO 542
fish 542
heat 542
ice 542
light 542
methods 542
model 542
nutrients 542
organisms 542
phytoplankton 542
primary 542
productivity 542
reaeration 542
spatial distribution 542
temporal distribution 542
zooplankton 542
ratio
Basin 381
Bedford 381
Nova Scotia 381
P/B 381
phytoplankton 381
productivity 381
spatial component 381
reaeration
benthic 542
benthic oxygen demand 80 542
bloom 80
carbon 542
carbon oxygen demand 80
Channel 253
chlorophyll 80
coliforms 542
deoxygenation 542
DO 80 542
Estuary 80
fish 542
heat 542
Houston Ship 253
hydrology 253
ice 542
light 542
methods 542
model 80 542
nitrogen 80
nitrogen oxygen demand 80
nutrients 80 542
organisms 542
phosphorus 80
phytoplankton 80 542
Potomac 80
primary 80 542
productivity 80 542
rate constants 542

respiration 80
spatial distribution 542
temporal distribution 542
zooplankton 542
real time
aerobic 183
ammonia 407
BOD 212
CBOD 407 408
chlorophyll 407
coliforms 183 407
cycles 183
DO 212 407 408
Estuary 183 212 407 408
hydrology 183 212 321
inorganic 407
management 183
microbes 183
model 183 212 321 407 408
NBOD 408
nitrate 407
nitrite 407
nitrogen 183 321 407
one dimensional 407 408
organic 407
Pagan 407 408
phosphorus 407
phytoplankton 407
Potomac 183
predictions 183
processes 183
salinity 212 407 408
tidal average 212
tides 183
Transient Water Quality Network 183
Virginia 212
York 212
recipient analog
community structure 483
methods 483
primary 483
secondary 483
sewage 483
tertiary 483
records
Estuary 158
history 158
marshes 158
Pb210 158
plutonium 158
Savannah 158
sediments 158
recovery
benthic 371
community structure 371
ecocline 371
gradient 371
indicator species 371
indices 371
organic enrichment 371
sediments 371
succession 371
recreation
agriculture 517
Bay 94
benthic 508
coliforms 94
diversity 94
dredging 96
economics 94 508
Estuary 82
fertilizer 517
fisheries 94 96
flood control 96 517
Hawaii 94
hydrology 517
industry 508 517
Kaneohe 94
land development 96 517
Louisiana 96
management 96 508
Massachusetts 82
nitrate 82
nitrogen 94
North Carolina 517
nutrients 82 96 517
organisms 508
pesticides 508 517
phosphate 82
phosphorus 94
phytoplankton 82 96
Pines 82
plants 508
public opinion 508
resources 517
runoff 96
sewage 82 94 96
soil erosion 96
Suagus 82

tertiary 508
Ulva 82
wastes 508
watersheds 517
wetlands 96
recycle
artificial recharge 138
canal 138
dissolved solids 138
economics 138
Estuary 138
nitrification 138
ozonization 138
sewage 138
Thames 138
water supply 138
red tide
aerobic 122
benthic 10
bloom 10
coliforms 122
cysts 10
dinoflagellate 10
fertilizer 361
Gonyaulax 10
industry 361
Massachusetts 10
microbes 122
phosphate 361
phytoplankton 361
plankton 122
primary 361
productivity 361
sewage 122
spores 10
toxicity 10
redox potential
alkalinity 293
ammonia 293
anaerobic 127
Bay 293
Bayou 313 315
Chesapeake 293
chloride 293
decomposition 299
denitrification 127
deposition 328
detritus 328
diffusion 127
dissolved solids 313
distribution 293
DO 126 313 315
electron transfer 299
energy transfer 299
Estuary 328
floodwaters 127
flux 315
glucose 313
growth rates 299
interstitial 293
iron 293
kinetics 313
Louisiana 126 127
manganese 293
marshes 126
microbes 299 313 328
nitrate 126 127
nutrients 313
organic matter 299
pH 293 315 526
phosphate 293 313 315
processes 315 328
productivity 313
pS2 526
Rappahannock 328
salinity 315 328
seasons 293
sediment water 313 315
sediments 126 328 526
silica 293
steady state 299
substrates 299
sulfate 293
temperature 315
Texar 315
reduction
acetylene 444
ammonia 444
Bay 252
cycles 233
denitrification 444
Denmark 233
Mangoku 252
microbes 252
nitrate 252 444
nitrification 252
N15 252
Odawa 252
oxidation 233
sediments 233 252 444

sulphur 233
turnover rates 233
Ura 252
Zostera 252
regression analysis
remote sensing 527
release
salinity 405
suspended solids 405
trace metals 405
remote sensing
alpha fluorescence 329
ammonium 38
Bay 318
bibliography 211
Chesapeake 318
chlorophyll 329 350
Chrysaora quinquecirrha 38
dredging 318
dye 318
Estuary 350
eutrophication 211
indices 350
industry 211
Maryland 350
methods 350
nitrate 38
oil 211 318
Patuxent 350
pH 38
phosphate 38
phytoplankton 329
polyp 38
regression analysis 527
resources 211
sea nettle 38
sewage 38 318
suspended solids 350
thermal 211
removal
methods 271
nutrients 271
sewage 271
reproduction
abundance 120
algae 120
Bay 392
benthic 120
Chaetodon miliaris 392
diversity 120
fish 392
Great Britian 120
growth rates 392
Hawaii 392
Kaneohe 392
long term 120
seasons 120
sewage 392
wastes 120
zooplankton 392
research
global 490
management 490
monitoring 490
resources 490
resources
agencies 159
agriculture 517
Alaska 7
algae 216
Bay 345 346 429
bibliography 56 57 211 345 346
chemical 516
Chesapeake 345 346 429
chlorinated hydrocarbons 491
Colville 7
distribution 125
DO 216 222
dredging 498
economics 491 494 498
Estuary 7 209 216 222
eutrophication 56 57 211 345 346
fertilizer 517
fish 516
fisheries 7 398 494 498
flood control 517
food processing 516
freshwater 222
global 490
Hudson 209
hydrology 7 491 517
indices 125
industry 211 498 516 517
land development 56 57 209 216 517
local 159
management 159 209 398 429 490 491 494 498
Mediterranean 491
microbes 216 491 516

Mississippi 125
model 345 346
monitoring 490
nitrate 125
North Carolina 517
nutrients 7 125 216 222 491 494 498 516 517
oil 211 491
Oregon 516
pesticides 517
phosphate 125
Potomac 216 222
power plant 498
primary 7
productivity 7
public opinion 159 429 498
radioactivity 345 346 491 516
recreation 517
remote sensing 211
research 490
runoff 216
Sea 491
sediments 491
sewage 516
Sound 125
Sphaerotilus 516
state 159
symposium 494 498
thermal 211 516
trace metals 216 491 516
viruses 216
wastes 216 222
watersheds 517
respiration
activated sludge 514
algae 89 343
ammonia 487
animals 89
ash 382
autotrophic 86
bacteria 440
Bay 86 365 440
Bayou 102
benthic oxygen demand 80 440
bloom 80 382
BOD 487
Buzzards 440
California 441
carbon 382
carbon oxygen demand 80
chemical 102
chlorophyll 28 80 102 365 382
Chocolate 102
COD 440
community structure 89
C14 382
denitrification 514
deoxygenation 104
diurnal 93
diversity 102
DO 80 93 102 441
DOC 104
energetics 365
Estuary 80 89 93 104
fatty acids 382
freshwater 86
heat 89
heterotrophic 86
hydrology 441
indices 102
industry 86
Maryland 93
Massartia rotundata 365
metabolism 86
microbes 343 487
microcosms 86
model 80
nitrate 382 487
nitrification 487 514
nitrite 487
Nitrobacter 487
nitrogen 80
nitrogen oxygen demand 80
Nitrosomona 487
North Carolina 89
Nova Scotia 382
nutrients 28 80 86 89 104 343 441
organic matter 28
P/N 441
Pamlico 104
Patuxent 93
phosphorus 80 382
phytoplankton 28 80 86 382 441
plankton 365
POC 104
pond experiment 89
Potomac 80
primary 28 80 86 93 104 343 382 441

productivity 28 80 86 89 93 102 104 343 365 382 441
Raritan 365
reaeration 80
salinity 441
seasons 89 102 441
secchi disc 441
secondary 343
sediments 440
sewage 89 93 343 440
silica 382
South Creek 89
Taylor 102
temperature 89 441
Texas 86 102
TOC 104
Trinity 86
wastes 86 102
zooplankton 86 102
Rhode
algae 133
Bay 133
biomass 133
Chesapeake 133
Estuary 133
microbes 133
orthophosphate 133
uptake rates 133
Rhode Island
Acartia 227
ammonia 178 387
Balanus 227
Bay 178 227 387
benthic 178
bloom 227
carbon 387
chambers 178
DO 387
Estuary 227
Eurytemora 227
flux 178 387
inorganic 178
latitudinal gradients 227
microcosms 387
Narragansett 178 227 387
New Jersey 227
nitrate 178
nitrite 178
nitrogen 387
nutrients 227 387
organic matter 227
phosphate 178
phosphorus 387
phytoplankton 227
Raritan 227
salinity 227
seasons 227
sediment water 178 387
sediments 387
temperature 178
trace metals 387
Virginia 227
wastes 227
York 227
zooplankton 227
Rockaway Point
abundance 113
ammonium 113
Bight 113
chlorophyll 113
distribution 113
freshwater 113
New Jersey 113
New York 113
nitrate 113
nitrite 113
phosphate 113
phytoplankton 113
salinity 113
silica 113
suspended solids 113
temperature 113
Rogerstown
algae mats 130
Estuary 130
Ireland 130
mud flats 130
nutrients 130
organic 130
wastes 130
runoff
abundance 383
agriculture 26 60
algae 216 442
algae mats 60
alkalinity 383
assay 383
ATP 465
Australia 60 424
Bay 402 465

benthic oxygen demand 420
BOD 541
C/N 150 465
chlorophyll 424
COD 442
cycles 464
Delaware 134
detritus 424
distribution 383
DO 216 464 541
DOC 150
DON 150
dredging 96
economics 134
Estuary 134 143 216 223 402
fertilizer 464
fish 513
fisheries 96 465
flood control 96
Florida 402
freshwater 402 420
Georgia 150
Hacking 424
hydrology 420 424
indicator species 383
industry 134 205 442 464
invertebrates 383
isopleths 223
Lagoon 60
Lake 383
land development 96 216
light 420 424
Louisiana 96 402 442
management 96 205 402
marshes 442
methods 424 465
microbes 216 442 541
mining 464 513
mixing depth 541
model 205 223 420
nitrate 143
nitrogen 541
nonpoint sources 223 541
North Carolina 402
nutrients 26 96 143 216 223 383
402 442 465
oil 513
one dimensional 420
organic 541
Orielton 60
Palm 402
PC 465
pesticides 513
pH 383
phosphate 143
phosphorus 223 464 541
phytoplankton 96 424
plankton 383
PN 465
point sources 541
Pontchartrain 383
Port 424
Potomac 216 223
predictions 541
primary 383 465
processes 223
productivity 383 465
profiles 541
pulp mill 513
radioactivity 402 513
recreation 96
resources 216
salinity 60 383 541
salts 143
Santee 402
Savannah 150
sediments 424 541
sewage 60 96 134 442 464 513
soil erosion 96 541
Sound 150
South Carolina 402
spatial distribution 223
St Margaret 465
stochastic 205 420
storm loading 134
surface waters 541
suspended solids 424 465
swamps 402
Tasmania 60
temperature 60 420 541
temporal distribution 223
Thames 143
thermal 513 541
TOC 442
trace metals 216
transport 223
turbidity 420 541
United Kingdom 143
viruses 216
wastes 134 143 216 223 442 464

513
wetlands 26 96 402
Sacramento
Estuary 341
model 341
nutrients 341
phytoplankton 341
Potomac 341
symposium 341
zooplankton 341
Sacramento San Joquin
ammonia 477
BOD 477
California 477
cycles 477
Delaware 477
Delta 477
DIN 477
DO 477
Estuary 477
model 477
nitrite 477
nitrogen 477
oxidation 477
phytoplankton 477
Potomac 477
stochastic 477
zooplankton 477
Sado
Estuary 474
organic matter 474
Portugal 474
Tagus 474
temperature 474
yeast 474
Sagami
Actinetobacter 431
bacteria 431
Bay 431
heterotrophic 431
nutrients 431
phytoplankton 431
Suruga 431
Tokyo 431
Vibrios 431
zooplankton 431
Saldanha
Bay 76
benthic 76
cannery 76
macrofauna 76
South Africa 76
wastes 76
salinity
abundance 43 113 383 389
Acartia 227
adsorption 259
agriculture 60
agrochemicals 455
Alaska 319
Albemarle 43
algae mats 33 60
alkalinity 47 67 184 383 455
amino acids 456
ammonia 43 44 50 67 69 184 204
311 388 407
ammonium 113
animals 202
arctic 319
assay 383
Australia 60 154 388
bacteria 456
bacteria proteolytic 456
Balanus 227
Barataria 95
Basin 95
Bay 67 71 184 198 226 227 231
287 353 388 389 422 455
Bayou 315
benthic 33 106 319 388 389
benthic oxygen demand 33
Bight 113
biomass 154 231 332
black necrosis 2
bloom 204 227 287
boat traffic 455
BOD 71 212 290 311 353 541
British Columbia 512
Broadkill 101
Burry Inlet 2
California 441
canal 512
carbohydrates 456
carbonate ion 308
CBOD 407 408
Chesapeake 67 184 422 455
Chlorella salina 69
chlorine 184 455
chlorophyll 43 47 67 101 113 154
174 184 407

clay 259 458
coliforms 290 353 407
community structure 174
Cook 319
crabs 231
Crangon crangon 2
cycles 241
C14 456
Damariscotta 106
Delaware 101
density 198
deposition 328
detergent 2 270
detritus 328
disease 455
distribution 50 71 113 383
diversity 389
DO 2 47 67 71 101 106 154 174 184 202 212 226 241 270 290 311 315 319 332 353 389 407 408 441 541
DOC 308 311
DON 311
dredging 455 512
dye 68
east coast 77
energy transfer 231
epiphytes 455
Estuary 33 47 50 67 90 101 106 154 174 202 204 212 227 328 389 407 408 492
Eurytemora 227
fauna 388 389 455 456
fertilizer 202 204
fish 44 106 202 231
fisheries 77 95
flushing 512
flux 315 458
freshwater 113 204 231
fungus 456
Galveston 231
Great Britian 2
growth rates 106
Harbor 458
heterotrophic 456
Hobsons 389
Hong Kong 458
hydrology 43 71 90 154 174 198 212 226 241 441
H3 154
indicator species 383
indices 456
industry 202
Inlet 319
inorganic 101 407
interface salt fresh 311
invertebrates 106 383
iron 492
Jamaica 353
James 47
juveniles 77
laboratory culture 106
Lagoon 60
Lake 383
land development 43 458
larvae 106
latitudinal gradients 227
light 174
Little River 154
Louisiana 95
Maine 106
management 231 471
Maryland 68
Massartia rotundata 287
methods 456
Michaelis Menton 71
microbes 2 319 328 332 456 541
microflagellates 174
mining 90 202
mixing depth 541
model 33 71 198 212 231 353 407 408
molluscs 308
Murderkill 101
N/P 226
nanoplankton 174
Narragansett 198 227
NBOD 408
Neuse 204
New Jersey 113 226 227
New York 113 287 353
nitrate 50 67 69 113 204 226 407
nitrite 50 67 113 290 311 407
nitrogen 43 50 67 101 202 319 353 407 541
nonpoint sources 541
North Carolina 43 90 202 204 492
NO2 47
NO3 47
nursery grounds 95

nutrients 50 71 95 101 226 227 241 259 270 383 388 441 455 471 512
oil 455 456
Olisthodiscus luteus 287
one dimensional 407 408
Oregon 33
organic 50 259 407 541
organic matter 227 290 422
organisms 319
Orielton 60
orthophosphate 184
outfall diffuser 68
oysters 471
P/N 441
Pagan 407 408
Pamlico 90 202 492
PC 270
Penobscot 106
pH 2 44 47 67 71 101 184 259 290 308 311 315 319 332 383 455
phosphate 50 67 69 113 184 202 226 259 315 458 492
phosphorus 43 47 90 101 154 204 241 259 319 353 407 541
phytoflagellate 287
phytoplankton 43 47 67 71 90 113 154 174 202 204 227 407 441 456
plankton 202 226 270 319 383
PN 47 270
point sources 541
poly B hydroxybutyrate 332
Pontchartrain 383
Port Phillip 388
Potomac 67
predictions 541
primary 43 154 174 202 383 441
processes 184 315 328 456
productivity 43 67 154 174 202 231 383 441
profiles 541
Prorocentrum micans 287
protein 69
pulp mill 456
P32 154
Rangia 90
Rappahannock 328
Raritan 226 227
real time 212 407 408
redox potential 315 328
release 405
respiration 441
Rhode Island 227
Rockaway Point 113
runoff 60 383 541
San Francisco 71
seasons 50 71 226 227 290 441
secchi disc 422 441
secondary 231
sediment water 259 315
sediments 33 90 106 328 332 388 458 492 541
seston 270
settlement 106
sewage 60 68 69 202 204 259 319 388 456 471
sewage treatment farm 388
Sheepscot 106
shellfish 290
shrimp 231
silica 113 319
silicate 50
soil erosion 541
Sound 43
specie key 455
St Lawrence 50
submerged vegetation 455
sulfate 184
sulfide 33 184
surface waters 541
suspended solids 113 405 422 492
symposium 456
Tasmania 60
temperature 2 43 44 47 50 60 67 68 71 77 106 113 154 174 184 202 226 259 270 290 315 441 455 512 541
Texar 315
Texas 231
Theora fragilis 389
thermal 456 541
three dimensional 198
tidal average 212
tides 33 101 512
Tolo 458
trace metals 2 184 311 405 455 456
turbidity 43 67 455 541
two dimensional 353
uptake rates 69 90 259

urea 50
vertical distribution 184
Virginia 212 227 259
wastes 90 204 227 512
water velocity 455
Werribee 388
wetlands 95 101
wind 422
Yaquina 33
Yarra 389
York 174 212 227
zooplankton 67 77 154 227
salmonids
Bay 8 401
California 8
DO 8 401
Estuary 98
fish kills 401
Galveston 401
gas bubbles 401
Humboldt 8
Laita 98
model 98
mucus 401
pH 8 302
pond experiment 8
pulp mill 98 302
saturation 401
sewage 8
Texas 401
toxicity 302
wastes 302
salt wedge
Duwamish 480
Estuary 480
nutrients 480
Washington 480
Saltkallefjord
benthic 352
Byfjorden 352
crustaceans 352
Estuary 352
Gothenburg 352
indicator species 352
Kungsbackafjorden 352
macrofauna 352
meiofauna 352
Sweden 352
zooplankton 352
salts
BOD 36
DO 36
Estuary 143
light 36
NaCl 36
nitrate 143
nutrients 143
phosphate 143
runoff 143
sediments 36
suspended solids 36
temperature 36
Thames 143
turbidity 36
United Kingdom 143
wastes 143
sampling frequency
Estuary 249
methods 249
nutrients 249
Squamish 249
San Diego
Bay 425
Meydenbauer 425
sewage 425
water craft 425
Wollochet 425
San Francisco
agencies 61
ammonium 228
Bay 61 71 228 354 378
BOD 71
distribution 71
DO 71
energy transfer 354
freshwater 378
hydrology 71 354 378
local 61
management 61
methods 228
Michaelis Menton 71
model 71 354 378
nitrate 228
nitrite 228
nitrogen 228
nutrients 71
orthophosphate 228
participation 61
pH 71
phosphorus 228

phytoplankton 71
processes 354
public opinion 61
salinity 71
seasons 71
silica 378
temperature 71
transport 354
two dimensional 378
sand
Clyde 375
Enteromorpha 375
Estuary 375
fauna 375
fisheries 375
molluscs 375
nutrients 375
Scotland 375
sediments 375
sewage 375
worms 375
Santee
Bay 402
Estuary 402
Florida 402
freshwater 402
Louisiana 402
management 402
North Carolina 402
nutrients 402
Palm 402
radioactivity 402
runoff 402
South Carolina 402
swamps 402
wetlands 402
Saronic
Cladocera 245 310
Evadne 310
Greece 245 310
Gulf 245 310
indicator species 245 310
industry 245
seasons 245 310
sewage 245 310
temperature 245 310
wastes 245
zooplankton 245
saturation
Bay 401
DO 401
fish kills 401
Galveston 401
gas bubbles 401
mucus 401
salmonids 401
Texas 401
Savannah
C/N 150
dissolved 131
DOC 150
DON 150
Estuary 131 158
Georgia 150
history 158
inorganic 131
marshes 158
Mississippi 131
Orinoco 131
Pb210 158
plumes 131
plutonium 158
records 158
runoff 150
sediments 158
silica 131
Sound 150
suspended solids 131
uptake rates 131
Scheldt
Belgium 376 535
bloom 376
clay 535
deposition 376
diatoms 376 535
dissolved 535
DO 376
Estuary 376 535
hydrology 376
interface salt fresh 376
nutrients 376
sediments 376 535
self purification 376
silica 535
suspended solids 376
trace metals 376
transport 376
Schizothrix calicola
algae bluegreen 254
Cyanophyta 254

fish kills 254
hosts 254
indicator species 254
microbes 254
viruses 254
Schofield
carbon 27
Estuary 27
inorganic 27
James 27
microbes 27
model 27
nitrate 27
nitrite 27
organic 27
phosphate 27
phytoplankton 27
predictions 27
processes 27
sewage 27
stochastic 27
temperature 27
Virginia 27
Scotland
carbon 454
chlorophyll 454
Clyde 375
Enteromorpha 375
Estuary 375
fauna 375
fisheries 375
Loch 454
management 83
molluscs 375
Nevis 454
nitrate 454
North 454
nutrients 375
phosphate 454
POC 454
productivity 454
sand 375
Sea 454
sediments 375
self purification 83
sewage 375
worms 375
Scottlana canadensis
carbon 195
Copepoda 195
crustaceans 195
detritus 195
energy transfer 195
Estuary 195
Eurytemora affinis 195
Maryland 195
microbes 195
Patuxent 195
primary 195
productivity 195
wetlands 195
Sea
Aberdeen 453
algae bluegreen 335
Baltic 335
Bay 453
benthic 335 338
biomass 445
Black 303
bloom 445
carbon 454
Chaetoceros simplex 303
chlorinated hydrocarbons 491
chlorophyll 453 454
COD 338
crustaceans 338
C14 453
Delaware 411
detergent 335
diatoms 153 445
distribution 153 309
DO 335
economics 491
energy transfer 335
Estuary 309 411
fish 335
fisheries 338 411
Fladen Ground 453
hydrology 491
indicator species 303 335
industry 232
interstitial 503
intertidal 309
Irish 309
Japan 338 445
kelp 232
Loch 454
long term 153
macroalgae 335
macrofauna 309

macroinvertebrates 232
management 411 491
mass transfer 503
Mediterranean 491
Mersey 309
metals 232
microbes 445 491
model 335 338 411 503
Nevis 454
nitrate 303 454
nitrogen 338
North 153 232 411 453 454 503
nutrients 445 491
oil 338 491
organic 309
organic matter 338
organisms 335
phosphate 303 454
phytoplankton 153 303 411
POC 453 454
primary 335 445 453
processes 453
productivity 335 445 453 454
radioactivity 491
resources 491
Scotland 454
seasons 309 453
sediments 338 491
Seto 338
sewage 232 303 335 338
silica 503
succession 232 411
sulfate 338
sulfide 338
symposium 335
temperature 153
trace metals 491
two layer 503
wastes 232 309
winter 445
zone 503
zooplankton 153 335

sea nettle
ammonium 38
Chrysaora quinquecirrha 38
nitrate 38
pH 38
phosphate 38
polyp 38
remote sensing 38
sewage 38

seagrass
algae 438
amino acids 528
Apalachee 191
Bay 191 355
benthic 191 234 438 528
Chesapeake 355
clay 374
Cockburn 63
conference 528
cycles 528
detergent 234
detritus 528
fertilizer 355
fish 528
fisheries 528
Florida 191
France 234
growth rates 63 355
Gulf 234
indicator species 191
invertebrates 191 528
management 528
Marseilles 234
microbes 528
model 438
mud flats 191
nitrogen 528
nutrients 355 528
oil 528
organisms 234 528
oyster reefs 191
pesticides 528
phosphorus 528
Posidonia australis 63
Posidonia oceanica 234
pulp mill 191
seasons 63
sediments 63
sewage 234 374
silica 528
Sound 63
stress 528
Texas 438
trace metals 438 528
turbidity 374
urea 528
wastes 191
wetlands 528

zooplankton 528
seasons
Aberdeen 453
abundance 120
Acartia 227
Albemarle 450
algae 89 120 248 448
alkaline phosphatase 142
alkalinity 293
ammonia 50 295 450
ammonium 186
analysis of variance 395
animals 89 186
argon 397
assay 448
ATP 135
Balanus 227
Bay 71 147 173 199 224 226 227
293 300 397 406 448 453
Bayou 102
benthic 120 224 248 331 395
bloom 227 450 521
BOD 71 274 290
buzzards 406
C/N 406 450
California 276 441
carbon 135
chemical 102
Chesapeake 173 293 397
Chickahominy 173
chloride 293
chlorophyll 102 300 391 406 453
Chocolate 102
Chowan 450
Cladocera 147 245 310
cobalamin 509
Cochin 391
Cockburn 63
coliforms 290
Columbia 175
community structure 89
CO2 397
cycles 186 224
C14 391 453
detritus 406
DIN 199 450
distribution 50 71 293 300
diversity 102 120 300 395
DO 71 102 226 290 441
DOM 50
DON 450
DRP 199
Duwamish 521
energy transfer 276
Estuary 50 89 103 135 173 175
186 227 309 391 450 506 521
Eurytemora 175 227
Evadne 310
Evadne tergestina 147
fauna 276
Firth of Forth 395
Fladen Ground 453
fungus 501
Georgia 386
Great Britian 120 199 274
Greece 245 310
growth rates 63
Gulf 245 310
heat 89
hydrology 71 224 226 441 448 521
indicator species 245 310 331
indices 102 395
industry 245
inorganic 186 506
interstitial 293
intertidal 276 309 395
invertebrates 331
Irish 309
iron 293
James 173
latitudinal gradients 227
life cycles 248
light 175 448 521
linear regression 173 175
Liverpool 199
Long Island 404 509
long term 120 199
macrofauna 309 395
macrophytes 103 276
Malagasy Republic 147
manganese 293
Massachusetts 331 406
Mersey 309
metabolism 224 276 386
methane 397
methods 135
Michaelis Menton 71
microbes 135 142 404 501
- del 71 386
N:P 226

nanoplankton 300 406
Narragansett 227
nematodes 331
New Jersey 224 226 227 300
Newark 300
Newport 135
nitrate 50 175 186 224 226
nitrite 50 186 290
nitrogen 50 186 199 397 506
North 453
North Carolina 89 135 186 450
Nosy Be 147
nutrients 50 71 89 142 173 186
226 227 391 441 448 509 521
Oregon 175 448
organic 50 135 186 309 506
organic aggregates 404
organic matter 227 290
orthophosphate 509
Oslofjord 248
P/N 441
Pamlico 103 186
Patuxent 173
Penilia avirostris 147
Periphyton 521
pH 71 142 290 293
phosphate 50 142 175 224 226 293
phosphorus 199 386
phytoplankton 71 147 175 227 274
300 404 441 450 506 509 521
plankton 226
plants 186
POC 406 453
POM 404
PON 406
pond experiment 89
Posidonia australis 63
Potomac 173
primary 276 391 441 450 453
processes 224 386 453 506
productivity 89 102 276 391 441
450 453
rainfall 147
Rappahannock 173
Raritan 224 226 227
redox potential 293
reproduction 120
respiration 89 102 441
Rhode Island 227
salinity 50 71 226 227 290 441
San Francisco 71
Saronic 245 310
Sea 309 453
seagrass 63
secchi disc 441
sediment water 386
sediments 63 135 186 397
sewage 89 142 245 274 276 310
331 448
shellfish 290
silica 175 293
silicate 50
Sound 63 404 450 509
South Creek 89
spatial distribution 248
St Lawrence 50
sulfate 293
suspended solids 406
Susquehanna 173
synthesis 501
Taylor 102
temperature 50 71 89 226 245 290
310 391 441 448
temporal distribution 248
Texas 102
thiamine 509
tropical 147
urea 50 186
Vellar 506
Virginia 227
vitamins 501
wastes 102 120 227 245 309
watersheds 173
Woods Hole 331
Yaquina 448
yeast 501
York 173 227
zooplankton 102 147 175 227 245
391 404 406
seaweeds
symposium 229
secchi disc
Aquaforte 145
Bay 422
California 441
Canada 145
Chesapeake 422
DO 441
euglenoid 145
Harbor 145

hydrology 441
indicator species 145
nanoplankton 145
nutrients 441
organic matter 422
P/N 441
phytoplankton 145 441
primary 441
productivity 441
respiration 441
salinity 422 441
seasons 441
sewage 145
St Johns 145
suspended solids 422
temperature 441
wind 422
secondary
algae 236 343 430
ammonia 123 273 430
batch culture 144
Bay 182 231 330
biomass 144 231
bloom 144
BOD 348
carbon 144
Chlorophyta 144 430
community structure 483
continuous culture 144
coral 182
CO2 144
crabs 231
Cyanophyta 144 430
denitrification 326
energy transfer 231 348
enterovirus 439
Estuary 430
exchange diffusion 123
fertilizer 273
Fiji Island 326
fish 231
freshwater 231
Galveston 231
growth rates 236
Hawaii 182 330
industry 348
inorganic 326
ion exchange 273
Kaneohe 182 330
management 231
mangroves 326
Maryland 430
methods 118 123 483
microbes 182 326 343
microcopepods 330
model 231 348
nitrate 123
nitrogen 144 326 330
nitrogen fixation 144 182
Norway 236
nutrients 236 343
N14 118
N15 118
P/B 330
pesticides 348
pH 144
phosphate 123 273 430
phosphorus 236
phytoplankton 144
Potomac 430
primary 236 343 483
productivity 231 330 343
recipient analog 483
respiration 343
salinity 231
sediments 182 326 439
sewage 144 182 236 273 326 330 343 348 430 439 483
shrimp 231
succession 144
tertiary 236 326 483
Texas 231
trace metals 348
wastes 118 123 348
sediment water
adsorption 259
ammonia 178 387
argon 396
Bay 178 379 387 396
Bayou 181 313 315
benthic 178
bubbles 396
carbon 21 181 387
Carter 21
chambers 178
chemical 179
Chesapeake 396
clay 259 385
CO2 396
Creek 21

cycles 21
dissolved solids 313
DO 242 313 315 387
Doboy 385
Estuary 181
Florida 181
flux 178 315 379 385 387
Georgia 385 386
glucose 313
H2S 396
inorganic 178 181 385
kinetics 313
marshes 21
metabolism 386
methane 396
methods 179
microbes 179 313 385
microcosms 379 387
model 386
Narragansett 178 379 387
nitrate 178
nitrite 178
nitrogen 21 181 242 387 396
nutrients 259 313 387
organic 259
pH 259 315
phosphate 178 181 259 313 315 385
phosphorus 21 181 242 259 379 386 387
primary 21 181
processes 315 386
productivity 21 181 313
P32 385
redox potential 313 315
Rhode Island 178 387
salinity 259 315
seasons 386
sediments 242 387
sewage 259
Sound 385
temperature 178 259 315
Texar 181 315
trace metals 242 387
uptake rates 259
Virginia 21 259
Ware 21
sediments
acetylene 25 444
acid extraction 206
aerobic 58 537
Agnes 421
Alabama 132
algae 537
algae bluegreen 243 247
algae mats 33 243
alkalinity 149 380
amino acids 49
ammonia 49 165 190 247 289 387 388 444
ammonium 186 210
anaerobic 58 358
animals 186
argon 397
assay 58
ATP 135 206 275
Australia 388 424
bacteria 243 246 440
Bay 132 182 190 208 243 252 297 301 380 387 388 397 417 421 427 433 440
Belgium 376 504 535
benthic 33 106 137 208 338 358 371 388 410 433 539
benthic oxygen demand 33 440
Bight 189 275
biomass 201 247 275 304 332 525 537
bioturbation 539
Biscayne 427
bloom 201 275 376 537
BOD 36 539 541
Bothnia 137
bound 3
British Columbia 247
Buzzards 440
cadmium 210 275
calcium 461
California 187
cannery 25
carbon 19 135 387
Ceratium 275
charcoal adsorption 206
chemical 427
Chesapeake 297 301 380 397 417 421
chlorinated hydrocarbons 137 491
chlorophyll 289 424
clay 458 535
Clyde 375

Cockburn 63
COD 289 338 440
coliforms 380
community structure 371
Connecticut 58
Copps Brook 58
coral 182
CO2 397 537
crustaceans 338
cycles 186 233 247 297 410
C14 537
Damariscotta 106
DC 380
degradation 58
dehydrogenase 358
Delaware 539
denitrification 190 326 444 504
Denmark 233
density 246 537
deposition 328 376
detritus 328 424 537
diatoms 376 535
dissolved 3 535
dissolved solids 137
distribution 417
diversity 17 246
DO 36 106 126 137 242 304 332
376 380 387 541
DOC 58
DON 201
ecocline 371
economics 491
Enteromorpha 375
enterovirus 439
enzymes 165
Estuary 33 90 106 135 158 186
201 219 289 304 328 375 376 380
492 493 535 539
fauna 375 388 539
fertilizer 3
Fiji Island 326
fish 17 106
fisheries 338 375
Florida 427 433
flushing 437
flux 187 387 458
free surface 427
freshwater 219
Galveston 208
Georgia 59
Giens 285
gradient 371
growth rates 63 106 285
Guayanilla 243
Gulf 137 285
Hacking 424
Harbor 458
Hawaii 182
heterotrophic 243 246
Hillsborough 433
history 158
Hong Kong 458
Hurricane 421
hydrology 90 132 137 201 208 376
424 491
indicator species 208 371 417
indices 189 208 371 437
industry 208 275 301 380
Inlet 25
inorganic 186 201 326
interface salt fresh 132 376
interstitial 58 504
intertidal 17 25
invertebrates 17 106 433
iron 137 492 493
James 380
Japan 190 338
Kaneohe 182
Klebsiella pneumoniae 25
laboratory culture 106
Lake 358
land development 458
larvae 106
light 36 424
Limnodrilus 539
local 297
Louisiana 126
macrofauna 17 137
macrophytes 247 537
Maine 106
management 491
Mangoku 190 252
mangroves 326
marina 437
marshes 59 126 149 158 210 461
Maryland 304 380
Mediterranean 491
metabolic heat release 358
metabolism 58 358 525
methane 397

methods 135 165 206 424 493
microbes 58 59 135 182 247 252 275 297 326 328 332 417 491 525 537 541
microcalorimetry 358
microcosms 387
microstructure 538
mining 90 201
mixing depth 541
Mobile 132
model 33 58 132 338 427 437 504
molluscs 375
momentum transfer 132
NaCl 36
Narragansett 387
New York 189 275 410
New Zealand 25
Newport 135
nitrate 3 126 186 201 219 252 380 444 504
nitrification 252 410 504
nitrite 186 219 504
nitrogen 186 187 201 210 242 247 297 326 338 387 397 461 541
nitrogen fixation 25 49 182 243
nomogram 437
nonpoint sources 541
North Carolina 90 135 186 492 493
nutrients 25 58 137 149 186 210 289 297 304 358 375 376 380 387 388 410 491
N15 190 252
Odawa 252
oil 137 338 491
oligochaetes 539
Oregon 33
organic 135 186 539 541
organic enrichment 371
organic matter 58 338 358 410 504
organisms 358 410
oxidation 233
oxygen 358
Pamlico 90 186 201 492 493
Patuxent 304 380
Pb210 158
Penobscot 106
percolator 165
pesticides 137 380
pH 332 380 526
PHB 525
phosphate 219 247 380 458 492
phosphorus 3 19 49 90 137 149 187 201 210 242 247 289 297 304 387 461 493 541
phytoplankton 90 137 187 201 297 304 424
plants 186 461
plutonium 158
POC 58
point sources 541
poly B hydroxybutyrate 332 525
POM 421
PON 190
pond experiment 3
Port 424
Port Phillip 388
Posidonia australis 63
Posidonia oceanica 285
potassium 461
Potomac 219 289 380
predictions 433 541
primary 49 137 187 304 410
processes 328 358 427
productivity 49 137 187 304 410
profiles 541
pS2 526
Puerto Rico 243
Puget 17 358
P32 3
radioactivity 491
rainfall 297
Rangia 90
Rappahannock 328 380
records 158
recovery 371
redox potential 126 328 526
reduction 233 252 444
resources 491
respiration 440
Rhode Island 387
runoff 424 541
salinity 33 90 106 328 332 388 458 492 541
salts 36
sand 375
Savannah 158
Scheldt 376 535
Scotland 375

Sea 338 491
seagrass 63
seasons 63 135 186 397
secondary 182 326 439
sediment water 242 387
self purification 246 376
Seto 338
settlement 106
sewage 17 19 25 182 189 219 285 301 326 338 375 380 388 417 421 433 439 440
sewage treatment farm 388
Sheepscot 106
silica 149 187 535
Simoda 190
slaughterhouse 25
soil erosion 421 541
Sound 17 63 358
South Carolina 149
spatial distribution 219
steroids 189
succession 201 371
sulfate 165 338
sulfide 33 338
sulphur 233
surface waters 541
suspended solids 36 59 376 417 421 424 492 538
Susquehanna 380
symposium 137 297
Tar 201
temperature 36 106 541
temporal distribution 219
tertiary 301 326 433
tetrazolium salt 58
Texas 208
thermal 243 304 541
three dimensional 132 427
tides 19 33 210
time dependent 132 427
TKN 219
Tokyo 190
Tolo 458
trace metals 137 149 196 210 242 376 380 387 491
transport 132 301 376 427
tris extraction 206
turbidity 36 541
turnover rates 233 537
uptake rates 90 297 537
Ura 190 252
urea 165 186
vertical transport 297
Virginia 380
vitamin B12 59
Vm 537
Waimea 25
Washington 17 358
wastes 25 90 137 196 208 275 301 380 539
water column 196 417 537
watersheds 58 219 380
weight 289
Werribee 388
wind 427
worms 375
Yaquina 33
York 380
zinc 210
zooplankton 137 297
Zostera 252
Seine
Aisne 35
carbon 35
Estuary 35
France 35
methods 35
nitrogen 35
oxidation rates 35
temperature 35
self adaptation
feed forward 462
feedback 462
model 462
self organization 462
self organization
feed forward 462
feedback 462
model 462
self adaptation 462
self purification
bacteria 246
Belgium 376
bloom 376
BOD 349
COD 349
density 246
deoxygenation 349
deposition 376
diatoms 376

diversity 246
DO 376
Estuary 376
heterotrophic 246
hydrology 376
interface salt fresh 376
Japan 349
management 83
nutrients 376
Scheldt 376
Scotland 83
sediments 246 376
suspended solids 376
TOC 349
TOD 349
trace metals 376
transport 376
seminar
indicator species 111
indices 111
seston
alkaline phosphatase 470
Bay 470
chlorophyll 470
detergent 270
distribution 470
DNA 470
DO 270
enzymes 470
indices 470
microbes 470
nutrients 270
PC 270
phosphorus 470
plankton 270
PN 270
protein 470
salinity 270
temperature 270
Tokyo 470
Seto
benthic 338
COD 338
crustaceans 338
fisheries 338
Japan 338
model 338
nitrogen 338
oil 338
organic matter 338
Sea 338
sediments 338
sewage 338
sulfate 338
sulfide 338
settlement
benthic 106
Damariscotta 106
DO 106
Estuary 106
fish 106
growth rates 106
invertebrates 106
laboratory culture 106
larvae 106
Maine 106
Penobscot 106
salinity 106
sediments 106
Sheepscot 106
temperature 106
Severn
Bay 510
Chesapeake 510
dilution 510
Estuary 510
hydrology 510
model 510
sewage 510
sewage
abundance 167 472
acetylene 25
adsorption 259
aerobic 122 172
agencies 14
Agnes 421
agriculture 60 218 384
Alaska 319 320
algae 72 89 119 140 160 236 256 339 343 400 412 418 430 432 442 448
algae bluegreen 215 218 335
algae mats 60
alkaline phosphatase 142
alkalinity 380
amino acids 225 456
ammonia 62 69 204 273 388 430 520
ammonium 38 129 172 188
amphipods 12

anaerobic 172
animals 89 202
annelids 167
Aqaba 146
aquaculture 360 412
Aquaforte 145
arctic 319
artificial recharge 138
assay 418 448
ATP 172
Australia 60 388
bacteria 256 339 440 456
bacteria proteolytic 456
Baltic 335
batch culture 144 418
Bathyporia sarsi 11
Bay 8 11 12 23 52 64 72 94 140 182 188 301 318 330 380 388 392 417 421 423 425 433 440 448 488 510
Bayou 251
benthic 11 12 72 119 234 305 319 331 335 338 356 388 400 433 447
benthic oxygen demand 440
bibliography 15
Bight 172 189
bioenhancement 447
biomass 52 62 140 144 160 167 339 447
birds 256 339
Black 303
bloom 144 204 251 432 520
BOD 136 274 284 320 324 348
buoys 37
Buzzards 440
C/N 62 136 188 324
calcium 146 339
California 8 37 62 129 276 400 447
calorific content 172 277
Canada 52 145
canal 138 384
cannery 25 447
Capitella capitata 11 12
carbohydrates 225 456
carbon 19 27 116 144 256 324 339
carbon/chlorophyll 62
ceramic panel substrates 37
Chaetoceros simplex 303
Chaetodon miliaris 392
Charleston 136
chemical 359 516
Chesapeake 72 140 301 318 380 417 421 510
Chlorella salina 69
chlorinated hydrocarbons 37
chlorophyll 64 140 215 423
Chlorophyta 144 430
Chrysaora quinquecirrha 38
Cladocera 245 310
clams 225
clay 259 374
Clyde 284 375
COD 338 440 442
coliforms 23 94 122 163 380
coliphage 505
community structure 11 89 256 483
continuous culture 116 144 160
Cook 319 320
copper 505
coral 182
CO2 105 144 432
crustaceans 256 338 339
Cyanophyta 144 430
cycles 129 464
C14 140 456
DC 380
decomposition 172
Delaware 134
denitrification 324 326
detergent 148 234 335
diatoms 197 479
DIC 172
Dickinson 251
dilution 510
dinoflagellate 479
disease 305 356
dispersion 37
dissolved solids 138
distribution 417
diurnal 62 93 129
diversity 17 94 167 197 447 472
Dniester 384
DO 8 72 93 105 148 202 251 284 319 335 369 380 447 464
DOC 172 416
dredging 14 96 148 318
Duwamish 520
dye 68 318

economics 37 94 134 138
Elizabeth 327
energy transfer 72 276 335 348
Enteromorpha 375
enterovirus 439 505
Estuary 27 82 89 93 119 134 138 148 167 202 204 215 218 219 284 327 375 380 384 423 430 510 520
euglenoid 145
eutrophication 15
Evadne 310
fatty acids 423
fauna 167 276 375 384 388 456
feces 163
fertilizer 202 204 273 464
Fiji Island 326
fish 17 202 256 305 335 339 356 392 447 513 516
fish kills 251
fisheries 94 96 338 375 488
flood control 96
Florida 14 433
flushing 218
food processing 516
foraminifera 72 256 339
France 234
freshwater 204 219 284
fungus 456
gastrotrichs 167
Germany 166
Giens 285
glycine 225
Grays 369
Great Britian 23 119 167 197 274 294
Greece 245 310
growth rates 188 236 285 360 392 479
Gulf 146 234 245 285 310
gulls 163
Harbor 136 145 327 369 400 447
Hawaii 64 94 182 188 330 392
heat 89
heterotrophic 256 339 456
Hillsborough 433
Hudson 218
Humboldt 8
Hurricane 421
hydrology 284 448 510 520
Hymeniacidon sanguinea 359
indicator species 12 145 166 197 245 303 310 331 335 359 400 417 472
indices 189 197 456
industry 119 134 136 202 232 245 284 301 327 348 359 380 384 442 464 488 516
Inlet 25 319 320
inorganic 27 161 326 416
insects 256 339
intertidal 17 25 276
invertebrates 12 17 331 433
ion exchange 273
Italy 359
James 27 327 380
Japan 338 488
Jordan 146
Kaneohe 64 94 182 188 330 392
kelp 232
Kiel 11 12
Klebsiella pneumoniae 25
Ks 62
Lagoon 60 105
land development 96
landfill 340
Lebanon 472
light 448
Little Creek 327
Liverpool 23
local 14
Los Angeles 400 447
Louisiana 96 442
Lynnhaven 327
macroalgae 335
macrofauna 11 17 72 356
macroinvertebrates 232 277
macrophytes 52 72 276 277
management 96 215 327 471
manganese 416
mangroves 326
Marseilles 234
marshes 339 442
Maryland 68 93 380 430
Massachusetts 82 161 331
meiofauna 256 339
Mercenaria 225
metabolism 256 276
metals 232
methods 37 271 418 456 483
Meydenbauer 425

microbes 27 72 122 142 167 182 319 326 343 417 423 442 456 516
microcopepods 330
microcosms 140
mining 202 464 513
Mississippi 356
model 27 64 105 327 335 338 348 510
molluscs 256 339 375
Mytilus edulis 360
myxobacteria 166
N/P 160
nanoplankton 145
Nansemond 327
Narragansett 423
nematodes 167 331
Neuse 204
New York 172 189 340
New Zealand 25
nitrate 27 38 64 69 82 129 172 188 204 218 219 303 380
nitrification 138
nitrite 27 172 219
nitrogen 62 94 115 129 144 160 161 163 202 256 319 326 330 338 339 479
nitrogen fixation 25 144 182
nonpoint sources 327
North 232
North Carolina 89 202 204
Norway 236
nutrients 25 62 72 82 89 96 116 142 160 215 218 236 259 271 343 375 380 388 416 442 448 471 472 516
N15 62 129
Obelia dichtoma 37
oil 225 318 338 340 400 423 456 513
oligochaetes 11 167 400
Oregon 448 516
organic 27 259
organic matter 148 324 338
organisms 234 319 335 447
Orielton 60
outfall diffuser 68
oysters 412 471
ozonization 138
P/B 330
Pagan 327
Pamlico 202
parasites 356
pathogens 163
Patuxent 93 380
PC 172
pesticides 348 356 380 513
pH 8 38 105 142 144 259 319 380 432
phosphate 27 38 52 64 69 82 142 146 202 218 219 259 273 303 380 430 520
phosphorus 19 94 115 163 204 236 251 256 259 319 339 432 464
physico chemical treatment 294
phytoplankton 27 62 64 72 82 96 115 116 129 144 145 161 188 202 204 251 256 274 303 339 416 456 472 479 520
Pines 82
plankton 122 202 319 447
PN 172
point sources 218
polychaetes 12 167 400
polyp 38
POM 421
pond experiment 8 89 161 256 339
Poquoson 327
Porifera 359
Port Phillip 388
Posidonia oceanica 234 285
Potomac 215 218 219 380 430
predictions 27 284 327 433
primary 62 64 93 115 129 140 202 236 276 335 343 416 483
processes 27 456
productivity 37 62 64 89 93 115 129 140 202 256 276 330 335 339 343 416 447
protein 69
Providence 423
Puget 17 305
pulp mill 136 456 488 513
Pygospio elegans 11
Quinte 52
radioactivity 513 516
Rappahannock 380
recipient analog 483
recreation 82 94 96
recycle 138
red tide 122

remote sensing 38 318
removal 271
reproduction 392
resources 516
respiration 89 93 343 440
runoff 60 96 134 442 464 513
salinity 60 68 69 202 204 259 319 388 456 471
salmonids 8
San Diego 425
sand 375
Saronic 245 310
Schofield 27
Scotland 375
Sea 232 303 335 338
sea nettle 38
seagrass 234 374
seasons 89 142 245 274 276 310 331 448
secchi disc 145
secondary 144 182 236 273 326 330 343 348 430 439 483
sediment water 259
sediments 17 19 25 182 189 219 285 301 326 338 375 380 388 417 421 433 439 440
Seto 338
Severn 510
sewage treatment farm 388
shellfish 505
silica 319
slaughterhouse 25
soil erosion 96 421
Sound 17 305
South Carolina 136
South Creek 89
spatial distribution 219
Sphaerotilus 516
St Johns 145
stabilization 105
state 14
steroids 189
stochastic 27
storm loading 134
stress 225
Suagus 82
succession 116 144 232
sulfate 338
sulfide 338
Suruga 488
suspended solids 417 421 423
Susquehanna 380
symposium 335 456
Tasmania 60
Taunton 423
taurine 225
Tees 119 167
temperature 27 60 68 89 105 202 245 259 284 310 320 369 448
temporal distribution 219
tertiary 52 161 236 301 326 339 433 483
Thames 138 148
thermal 456 513 516
tides 19
TKN 219
TOC 442
toxicity 116
trace metals 37 72 115 348 356 380 456 479 516
tracer 23
transport 301
turbidity 374
Tyne 119
Ulva 82
United Kingdom 15
uptake rates 69 129 188 259
upwelling 369
urea 62 129 188
Virginia 27 259 380
Vm 62
Waimea 25
Washington 17 305 369 520
wastes 25 105 119 134 136 204 218 232 245 284 301 327 348 359 380 384 400 442 447 464 488 513
water column 417
water craft 425
water supply 138
watersheds 219 380
Wear 119
Werribee 388
wetlands 14 96
Wollochet 425
Woods Hole 331
worms 375
Yaquina 448
York 327 380
zooplankton 72 140 245 335 384 392

sewage treatment farm
ammonia 388
Australia 388
Bay 388
benthic 388
fauna 388
nutrients 388
Port Phillip 388
salinity 388
sediments 388
sewage 388
Werribee 388
sexual maturity
Craiglin 171
DO 171
fertilizer 171
fish 171
flounder 171
growth rates 171
Loch 171
Shannons Index
benthic 9
diversity 9
Lagoon 9
macrofauna 9
molluscs 9
Shark
Broad River 292
detritus 292
Estuary 292
fertilizer 292
Florida 292
leaves 292
mangroves 292
pesticides 292
trace metals 292
Sheepscot
benthic 106
Damariscotta 106
DO 106
Estuary 106
fish 106
growth rates 106
invertebrates 106
laboratory culture 106
larvae 106
Maine 106
Penobscot 106
salinity 106
sediments 106
settlement 106
temperature 106
shellfish
BOD 290
coliforms 290
coliphage 505
copper 505
DO 290
enterovirus 505
nitrite 290
organic matter 290
pH 290
salinity 290
seasons 290
sewage 505
temperature 290
shrimp
Bay 231
biomass 231
crabs 231
energy transfer 231
fish 231
freshwater 231
Galveston 231
management 231
model 231
productivity 231
salinity 231
secondary 231
Texas 231
silica
abundance 113
Alaska 319
algae colonial 152
alkalinity 149 293
amino acids 528
ammonia 293
ammonium 113
arctic 319
ash 382
assay 414
Bay 293 378
Belgium 535
benthic 319 528
Bight 113
bloom 382 414
California 187
carbon 382
Chesapeake 293
chloride 293

chlorophyll 113 382
clay 535
Columbia 175
conference 528
Cook 319
cycles 528
C14 152 382
detritus 528
diagenesis 502
diatoms 347 414 535
dissolved 131 535
distribution 113 293
DO 319
Estuary 131 175 535
Eurytemora 175
fatty acids 382
filter feeders 347
fish 528
fisheries 528
flagellates 347
flux 187
freshwater 113 378
hydrology 378 414
Inlet 319
inorganic 131
interstitial 293 503 536
invertebrates 528
iron 293
light 175
linear regression 175
management 528
manganese 293
marshes 149
mass transfer 503
methods 152
Michaelis Menton 347
microbes 319 502 528
Mississippi 131
model 347 378 502 503 536
mucus 152
N/P 414
New Jersey 113
New York 113
nitrate 113 175 382 414
nitrite 113
nitrogen 187 319 502 528
North 503
Norway 414
Nova Scotia 382
nutrients 149 528
oil 528
Oregon 175
organisms 319 528
Orinoco 131
orthophosphate 414
pesticides 528
pH 293 319
phosphate 113 175 293
phosphorus 149 187 319 382 528
phytoplankton 113 175 187 382 414
plankton 319
plumes 131
primary 152 187 382
processes 536
productivity 152 187 382
redox potential 293
respiration 382
Rockaway Point 113
salinity 113 319
San Francisco 378
Savannah 131
Scheldt 535
Sea 503
seagrass 528
seasons 175 293
sediments 149 187 535
sewage 319
South Carolina 149
stress 528
sulfate 293
suspended solids 113 131
temperature 113
time constants 347
trace metals 149 414 528
Trondheimsfjord 414
two dimensional 378
two layer 503
uptake rates 131
urea 528
wetlands 528
zone 503
zooplankton 175 347 528
silicate
ammonia 50
distribution 50
Estuary 50
nitrate 50
nitrite 50
nitrogen 50

nutrients 50
organic 50
phosphate 50
salinity 50
seasons 50
St Lawrence 50
temperature 50
urea 50
Simoda
ammonia 190
Bay 190
denitrification 190
Japan 190
Mangoku 190
N15 190
PON 190
sediments 190
Tokyo 190
Ura 190
size composition
Bay 200
biomass 200
Hawaii 200
Kaneohe 200
PN 200
succession 200
zooplankton 200
size dependent
ammonia 466
Bay 466
biomass 466
DON 466
DPO 466
excretion rates 466
Hawaii 466
Kaneohe 466
metabolism 466
phosphate 466
zooplankton 466
Skeletonema
ammonium 31
Chlorophyta 31
Estuary 31 367
factorial productivity 367
Hudson 31
light 31
nitrate 31
phytoplankton 31 367
populations mixed 367
populations single 367
primary 367
productivity 367
succession 367
uptake rates 31
York 367
slack water
dispersion coefficient 170
Estuary 170
model 170
Oregon 170
Yaquina 170
slaughterhouse
acetylene 25
cannery 25
Inlet 25
intertidal 25
Klebsiella pneumoniae 25
New Zealand 25
nitrogen fixation 25
nutrients 25
sediments 25
sewage 25
Waimea 25
wastes 25
soil erosion
Agnes 421
Bay 421
BOD 541
Chesapeake 421
DO 541
dredging 96
fisheries 96
flood control 96
Hurricane 421
land development 96
Louisiana 96
management 96
microbes 541
mixing depth 541
nitrogen 541
nonpoint sources 541
nutrients 96
organic 541
phosphorus 541
phytoplankton 96
point sources 541
POM 421
predictions 541
profiles 541
recreation 96

runoff 96 541
salinity 541
sediments 421 541
sewage 96 421
surface waters 541
suspended solids 421
temperature 541
thermal 541
turbidity 541
wetlands 96
Sound
abundance 43
Albemarle 43 450
ammonia 43 450
anaerobic 358
benthic 305 358
bibliography 84
bloom 450
C/N 150 450
chlorophyll 43
Chowan 450
clay 385
cobalamin 509
Cockburn 63
dehydrogenase 358
DIN 450
disease 305
distribution 125
diversity 17
DO 117
Doboy 385
DOC 150
DOM 404
DON 150 450
ecosystem 84
Estuary 450
fish 17 305 515
flux 385
Georgia 150 385
growth rates 63
hydrology 43 515
indices 125
inorganic 385
intertidal 17
invertebrates 17
Lake 358
land development 43 84
Long Island 404 509
macrofauna 17
management 515
metabolic heat release 358
metabolism 358
microbes 385 404
microcalorimetry 358
Mississippi 125
model 515
nitrate 125
nitrogen 43
North Carolina 43 450
nutrients 125 358 509 515
organic aggregates 404
organic matter 358
organisms 358
orthophosphate 117 509
oxygen 358
phosphate 125 385
phosphorus 43
phytoplankton 43 404 450 509 515
POM 404
Posidonia australis 63
primary 43 450 515
processes 358
productivity 43 450 515
Puget 17 84 117 305 358 515
P32 385
resources 125
runoff 150
salinity 43
Savannah 150
seagrass 63
seasons 63 404 450 509
sediment water 385
sediments 17 63 358
sewage 17 305
succession 515
temperature 43
thiamine 509
three dimensional 515
trophic levels 515
turbidity 43
Washington 17 84 305 358 515
wastes 117
zooplankton 404
South Africa
Bay 76
benthic 76
cannery 76
macrofauna 76
Saldanha 76
wastes 76

South Carolina
alkalinity 149
Bay 402
BOD 136
C/N 136
Charleston 136
Estuary 402
Florida 402
freshwater 402
Harbor 136
industry 136
Louisiana 402
management 402
marshes 149
North Carolina 402
nutrients 149 402
Palm 402
phosphorus 149
pulp mill 136
radioactivity 402
runoff 402
Santee 402
sediments 149
sewage 136
silica 149
swamps 402
trace metals 149
wastes 136
wetlands 402
South Creek
algae 89
animals 89
community structure 89
Estuary 89
heat 89
North Carolina 89
nutrients 89
pond experiment 89
productivity 89
respiration 89
seasons 89
sewage 89
temperature 89
Southampton
ammonium 394
carbon 394
DO 394
nitrate 394
nutrients 394
organic matter 394
phosphate 394
phytoplankton 394
temperature 394
trace metals 394
turnover rates 394
zooplankton 394
Spain
benthic 333
C/N 333
fucaceae 334
intertidal 334
macrophytes 333
Mytilus 334
Phaeophyta 333
pulp mill 334
stress 334
Ulvales 334
wastes 334
Spartina
detritus 75
energy transfer 75
marshes 75
microbes 75
model 75
nutrients 75
Spartina alterniflora
marshes 390
New Jersey 390
primary 390
productivity 390
spatial component
Basin 381
Bedford 381
Nova Scotia 381
P/B 381
phytoplankton 381
productivity 381
ratio 381
spatial distribution
algae 248
benthic 248 542
benthic oxygen demand 542
carbon 542
coliforms 542
deoxygenation 542
DO 542
Estuary 219 223 426
fish 542
freshwater 219
heat 542

ice 542
isopleths 223
life cycles 248
light 542
methods 426 542
model 223 542
New Jersey 426
New York 426
nitrate 219
nitrite 219
nonpoint sources 223
nutrients 223 542
organisms 542
Oslofjord 248
phosphate 219
phosphorus 223
phytoplankton 542
Potomac 219 223
primary 542
processes 223
productivity 542
Raritan 426
rate constants 542
reaeration 542
runoff 223
seasons 248
sediments 219
sewage 219
temporal distribution 219 223 248 426 542
TKN 219
trace metals 426
transport 223
wastes 223
watersheds 219
zooplankton 542

specie key
agrochemicals 455
algae mats 357
alkalinity 455
Bay 455
boat traffic 455
Chesapeake 455
chlorine 455
Columbia 357
disease 455
dredging 455
epiphytes 455
Estuary 357
fauna 455
indicator species 357
nutrients 455
oil 455
pH 455
salinity 455
submerged vegetation 455
temperature 455
trace metals 455
turbidity 455
water velocity 455

specified time
density homogeneous 258
model 258
two dimensional 258
unsteady flow 258

Sphaerotilus
chemical 516
fish 516
food processing 516
industry 516
microbes 516
nutrients 516
Oregon 516
radioactivity 516
resources 516
sewage 516
thermal 516
trace metals 516

spores
benthic 10
bloom 10
cysts 10
dinoflagellate 10
Gonyaulax 10
Massachusetts 10
red tide 10
toxicity 10

Squamish
Estuary 249
methods 249
nutrients 249
sampling frequency 249

St Johns
Aquaforte 145
Canada 145
euglenoid 145
Harbor 145
indicator species 145
nanoplankton 145
phytoplankton 145

secchi disc 145
sewage 145
St Lawrence
ammonia 50
ATP 434
bibliography 124
biomass 434
carbon/chlorophyll 434
distribution 50
Estuary 50 124 434
eutrophication 124
fisheries 124
hydrology 124
nitrate 50
nitrite 50
nitrogen 50
nutrients 50
organic 50
phosphate 50
phytoplankton 434
primary 124
productivity 124
salinity 50
seasons 50
silicate 50
suspended solids 124
temperature 50
trace metals 124
urea 50
St Margaret
ATP 465
Bay 465
C/N 465
fisheries 465
methods 465
nutrients 465
PC 465
PN 465
primary 465
productivity 465
runoff 465
suspended solids 465
stabilization
biological 230
chemical 230
CO2 105
DO 105
Lagoon 105
model 105
pH 105
processes 230
sewage 105
temperature 105
wastes 105 230
state
agencies 14 159
dredging 14
federal 484
Florida 14
local 14 159 484
management 159 484
public opinion 159
resources 159
sewage 14
wetlands 14
steady state
Bay 207
Chesapeake 207
decomposition 299
dissolved 207
electron transfer 299
energy transfer 299
growth rates 299
interstitial 207
manganese 207
microbes 299
model 207
organic matter 299
pH 207
redox potential 299
substrates 299
steroids
Bight 189
indices 189
New York 189
sediments 189
sewage 189
stochastic
ammonia 477
benthic oxygen demand 420
BOD 99 477
California 477
carbon 27
cycles 477
Delaware 477
Delta 477
DIN 477
DO 99 477
Estuary 27 99 255 477
freshwater 420

hydrology 420
industry 205
inorganic 27
James 27
light 420
management 205
microbes 27
model 27 99 205 255 420 477
nitrate 27
nitrite 27 477
nitrogen 477
one dimensional 255 420
organic 27
oxidation 477
phosphate 27
phytoplankton 27 477
Potomac 99 255 477
predictions 27
processes 27
runoff 205 420
Sacramento San Joquin 477
Schofield 27
sewage 27
temperature 27 420
time dependent 255
turbidity 420
Virginia 27
zooplankton 477
Stockholm
N/P 239
nitrogen 239
phosphorus 239
phytoplankton 239
storm loading
BOD 523
Delaware 134 523
economics 134
Estuary 134 523
industry 134
model 523
nonpoint sources 523
runoff 134
sewage 134
wastes 134
stratification
density 280
DO 307
Etang de Berre 307
hydrology 280
model 280
nutrients 307
O/P 307
three layer 280
stress
amino acids 225 528
benthic 528
carbohydrates 225
clams 225
community structure 88
conference 528
cycles 528
detritus 528
diversity 88
energy transfer 534
fish 88 528 534
fisheries 528
fucaceae 334
glycine 225
growth rates 534
industry 452
intertidal 334
invertebrates 528
management 528
Mercenaria 225
metabolism 88 452 534
microbes 528
Mytilus 334
nitrogen 528
nutrients 88 528
oil 225 528
organisms 528
pesticides 528
phosphorus 528
populations single 452
productivity 534
pulp mill 334
seagrass 528
sewage 225
silica 528
Spain 334
taurine 225
Texas 88
TLm 452
trace metals 528
Ulvales 334
urea 528
wastes 334 452
wetlands 528
zooplankton 88 528
Suagus

Estuary 82
Massachusetts 82
nitrate 82
nutrients 82
phosphate 82
phytoplankton 82
Pines 82
recreation 82
sewage 82
Ulva 82
submerged vegetation
agrochemicals 455
alkalinity 455
Bay 455
boat traffic 455
Chesapeake 455
chlorine 455
disease 455
dredging 455
epiphytes 455
fauna 455
nutrients 455
oil 455
pH 455
salinity 455
specie key 455
temperature 455
trace metals 455
turbidity 455
water velocity 455
substrates
decomposition 299
electron transfer 299
energy transfer 299
growth rates 299
microbes 299
organic matter 299
redox potential 299
steady state 299
succession
annelids 370
batch culture 144
Bay 200
benthic 370 371 409
biomass 110 144 200 201 409
bloom 144 201
Burrard 460
carbon 110 116 144
Chlorophyta 144
community structure 371
continuous culture 116 144
CO2 144
crustaceans 370
Cyanophyta 144
Delaware 411
distribution 460
diversity 409
DON 201
ecocline 371
England 370
Estuary 201 367 411
factorial productivity 367
fiord 460
fish 515
fisheries 411
gradient 371
Harbor 460
Hawaii 200
hydrology 201 515
indicator species 370 371
indices 371
industry 232
Inlet 460
inorganic 201
Kaneohe 200
kelp 232
Linnhe Eil 370
Loch 370
macrofauna 409
macroinvertebrates 232
management 411 515
metals 232
mining 201
model 411 515
molluscs 370
nitrate 201
nitrogen 110 144 201
nitrogen fixation 144
North 232 411
nutrients 116 515
organic enrichment 371
Pamlico 201
pH 144
phosphorus 110 201
phytoplankton 110 116 144 201
367 411 460 515
PN 200
pond experiment 110
populations mixed 367
populations single 367

primary 367 460 515
productivity 367 460 515
Puget 515
pulp mill 370 409
recovery 371
Sea 232 411
secondary 144
sediments 201 371
sewage 116 144 232
size composition 200
Skeletonema 367
Sound 515
Tar 201
three dimensional 515
toxicity 116
trophic levels 515
Vancouver 460
Washington 515
wastes 232
York 367
zooplankton 200

sulfate
alkalinity 184 293
ammonia 165 184 293
Bay 184 293
benthic 338
Chesapeake 184 293
chloride 293
chlorine 184
chlorophyll 184
COD 338
crustaceans 338
distribution 293
DO 184
enzymes 165
fisheries 338
interstitial 293
iron 293
Japan 338
manganese 293
methods 165
model 338
nitrogen 338
oil 338
organic matter 338
orthophosphate 184
percolator 165
pH 184 293
phosphate 184 293
processes 184
redox potential 293
salinity 184
Sea 338
seasons 293
sediments 165 338
Seto 338
sewage 338
silica 293
sulfide 184 338
temperature 184
trace metals 184
urea 165
vertical distribution 184

sulfide
algae mats 33
alkalinity 184
ammonia 184
Bay 184
benthic 33 338
benthic oxygen demand 33
Chesapeake 184
chlorine 184
chlorophyll 184
COD 338
crustaceans 338
DO 184
Estuary 33
fisheries 338
Japan 338
model 33 338
nitrogen 338
oil 338
Oregon 33
organic matter 338
orthophosphate 184
pH 184
phosphate 184
processes 184
salinity 33 184
Sea 338
sediments 33 338
Seto 338
sewage 338
sulfate 184 338
temperature 184
tides 33
trace metals 184
vertical distribution 184
Yaquina 33

sulphur

cycles 233
Denmark 233
oxidation 233
reduction 233
sediments 233
turnover rates 233
surface waters
BOD 541
DO 541
microbes 541
mixing depth 541
nitrogen 541
nonpoint sources 541
organic 541
phosphorus 541
point sources 541
predictions 541
profiles 541
runoff 541
salinity 541
sediments 541
soil erosion 541
temperature 541
thermal 541
turbidity 541
Suruga
Actinetobacter 431
bacteria 431
Bay 431 488
fisheries 488
heterotrophic 431
industry 488
Japan 488
nutrients 431
phytoplankton 431
pulp mill 488
Sagami 431
sewage 488
Tokyo 431
Vibrios 431
wastes 488
zooplankton 431
survival
model 237
populations mixed 237
zooplankton 237
suspended solids
abundance 113
Agnes 421
ammonium 113
ATP 465
Australia 424
bacteria attached 164
bacteria free 164
Bay 406 417 421 422 423 465
Belgium 376
bibliography 124
Bight 113
bloom 376
BOD 36
Buzzards 406
C/N 406 465
Chesapeake 417 421 422
chlorophyll 113 350 406 423 424
deposition 376
detritus 406 424
diatoms 376
dissolved 131
distribution 113 417
DO 36 376
dry weight 489
Estuary 124 131 164 350 376 423 492
eutrophication 124
fatty acids 423
fisheries 124 465
freshwater 113
Georgia 59
glucose 164
Hacking 424
Humber 164
Hurricane 421
hydrology 124 376 424
indicator species 417
indices 350
inorganic 131
interface salt fresh 376
iron 492
light 36 424
marshes 59
Maryland 350
Massachusetts 406
methods 350 424 465 489
microbes 59 417 423
microstructure 538
mineralization 164
Mississippi 131
NaCl 36
nanoplankton 406
Narragansett 423

New Jersey 113
New York 113
nitrate 113
nitrite 113
North Carolina 492
nutrients 376 465
oil 423
organic matter 164 422
Orinoco 131
Pamlico 492
Patuxent 350
PC 465
phosphate 113 492
phytoplankton 113 424
plumes 131
PN 465
POC 406
POM 421
PON 406
Port 424
primary 124 465
productivity 124 465
Providence 423
release 405
remote sensing 350
Rockaway Point 113
runoff 424 465
salinity 113 405 422 492
salts 36
Savannah 131
Scheldt 376
seasons 406
secchi disc 422
sediments 36 59 376 417 421 424 492 538
self purification 376
sewage 417 421 423
silica 113 131
soil erosion 421
St Lawrence 124
St Margaret 465
Taunton 423
temperature 36 113
trace metals 124 376 405
transport 376
turbidity 36
uptake rates 131
vitamin B12 59
water column 417
wind 422
zooplankton 406
Susquehanna
Agnes 415
alkalinity 380
Bay 79 173 380 415 495
BOD 495
carbon 495
Chesapeake 79 173 380 415 495
Chickahominy 173
chlorophyll 79 415 495
coliforms 380
DC 380
DO 380 495
Estuary 79 173 380 415 495
Hurricane 415
industry 380
James 173 380 495
linear regression 173
Maryland 380
Michaelis Menton 415
model 415
nitrate 380
nitrogen 79 415
nutrients 79 173 380 495
Patuxent 173 380 495
pesticides 380
pH 380
phosphate 380
phosphorus 79 415
phytoplankton 79 415
Potomac 173 380 495
quasi linear 415
Rappahannock 173 380 495
seasons 173
sediments 380
sewage 380
trace metals 380
Virginia 380
wastes 380 415
watersheds 173 380
York 173 380 495
swamps
Bay 402
Estuary 402
Florida 402
freshwater 402
Louisiana 402
management 402
North Carolina 402
nutrients 402

Palm 402
radioactivity 402
runoff 402
Santee 402
South Carolina 402
wetlands 402
Sweden
benthic 352
Byfjorden 352
crustaceans 352
Estuary 352
Gothenburg 352
indicator species 352
Kungsbackafjorden 352
macrofauna 352
meiofauna 352
Saltkallefjord 352
zooplankton 352
symposium
algae bluegreen 335
amino acids 456
bacteria 456
bacteria proteolytic 456
Baltic 335
Bay 297
benthic 137 335
Bothnia 137
carbohydrates 456
Chesapeake 297
chlorinated hydrocarbons 137
cycles 297
C14 456
detergent 335
dissolved solids 137
DO 137 335
dredging 498
economics 494 498
energy transfer 335
Estuary 341
fauna 456
fish 335
fisheries 494 498
fungus 456
Gulf 137
heterotrophic 456
hydrology 137 337
indicator species 335
indices 456
industry 498
international 281
iron 137
local 297
macroalgae 335
macrofauna 137
management 494 498
marine pollution 281
methods 456
microbes 297 456
model 335 341
nitrogen 297
nutrients 137 297 341 494 498
oil 137 456
organisms 335
pesticides 137
phosphorus 137 297
phytoplankton 137 297 341 456
Potomac 341
power plant 498
primary 137 335
processes 456
productivity 137 335
public opinion 498
pulp mill 456
rainfall 297
resources 494 498
Sacramento 341
salinity 456
Sea 335
seaweeds 229
sediments 137 297
sewage 335 456
thermal 456
trace metals 137 456
uptake rates 297
vertical transport 297
wastes 137
zooplankton 137 297 335 341
synthesis
fungus 501
microbes 501
seasons 501
vitamins 501
yeast 501
Tagus
Estuary 474
organic matter 474
Portugal 474
Sado 474
temperature 474
yeast 474

Tar
biomass 201
bloom 201
DON 201
Estuary 201
hydrology 201
inorganic 201
mining 201
nitrate 201
nitrogen 201
Pamlico 201
phosphorus 201
phytoplankton 201
sediments 201
succession 201
Tasmania
agriculture 60
algae mats 60
Australia 60
Lagoon 60
Orielton 60
runoff 60
salinity 60
sewage 60
temperature 60
Taunton
Bay 423
chlorophyll 423
Estuary 423
fatty acids 423
microbes 423
Narragansett 423
oil 423
Providence 423
sewage 423
suspended solids 423
taurine
amino acids 225
carbohydrates 225
clams 225
glycine 225
Mercenaria 225
oil 225
sewage 225
stress 225
Taylor
Bayou 102
chemical 102
chlorophyll 102
Chocolate 102
diversity 102
DO 102
indices 102
productivity 102
respiration 102
seasons 102
Texas 102
wastes 102
zooplankton 102
TDC
ammonia 473
Bay 473
carbon 473
Chesapeake 473
chlorophyll 473
DIC 473
DOC 473
nitrate 473
nitrite 473
nutrients 473
phaeophytin 473
phosphorus 473
primary 473
productivity 473
Tees
abundance 167
algae 119
annelids 167
benthic 119
biomass 167
diversity 167
Estuary 119 167
fauna 167
gastrotrichs 167
Great Britian 119 167
industry 119
microbes 167
nematodes 167
oligochaetes 167
polychaetes 167
sewage 119 167
Tyne 119
wastes 119
Wear 119
temperature
abundance 43 113
adsorption 259
agriculture 60
agrochemicals 455
Aisne 35

Alaska 320
Albemarle 43
algae 89 448
algae mats 60
alkalinity 47 67 184 455
ammonia 43 44 50 67 178 184
ammonium 113 394
animals 89 202
assay 448
Australia 60 154
Bay 67 71 178 184 226 448 455
Bayou 315
benthic 106 178
benthic oxygen demand 420
Bight 113
biomass 128 154 519
black necrosis 2
bloom 519
boat traffic 455
BOD 36 71 284 290 320 519 541
British Columbia 512
Burry Inlet 2
California 128 441
canal 512
carbon 27 35 394
chambers 178
Chesapeake 67 184 455
chlorine 184 455
chlorophyll 43 47 67 113 128 154 174 184 391 519
Cladocera 245 310
clay 259
Clyde 284
Cochin 391
coliforms 290
community structure 89 174
Cook 320
CO2 105
Crangon crangon 2
C14 391
Damariscotta 106
detergent 2 270
diatoms 153
disease 455
distribution 50 71 113 128 153
DO 2 36 47 67 71 105 106 154 174 184 202 226 270 284 290 315 369 394 441 519 541
dredging 455 512
Duwamish 519
dye 68
east coast 77
epiphytes 455
Estuary 27 35 47 50 67 89 106 154 174 202 284 391 474 519
Evadne 310
fauna 455
fertilizer 202
fish 44 106 202
fisheries 77
flushing 512
flux 178 315
France 35
freshwater 113 284 420 519
Grays 369
Great Britian 2
Greece 245 310
growth rates 106
Gulf 245 310
Harbor 369
heat 89
hydrology 43 71 154 174 226 284 420 441 448
H3 154
indicator species 245 310
industry 202 245 284
Inlet 320
inorganic 27 178
invertebrates 106
James 27 47
juveniles 77
laboratory culture 106
Lagoon 60 105
land development 43
larvae 106
light 36 174 420 448
Little River 154
long term 153
Maine 106
Maryland 68
methods 35
Michaelis Menton 71
microbes 2 27 541
microflagellates 174
mining 202
mixing depth 541
model 27 71 105 420
N/P 226
NaCl 36
nanoplankton 174

Narragansett 178
New Jersey 113 226
New York 113
nitrate 27 50 67 113 128 178 226 394
nitrite 27 50 67 113 178 290
nitrogen 35 43 50 67 202 541
nonpoint sources 541
North 153
North Carolina 43 89 202
NO2 47
NO3 47
nutrients 50 71 89 128 226 259 270 391 394 441 448 455 512
oil 455
one dimensional 420
Oregon 448
organic 27 50 259 541
organic matter 290 394 474
Orielton 60
orthophosphate 184
outfall diffuser 68
oxidation rates 35
P/N 441
Pamlico 202
PC 270
Penobscot 106
pH 2 44 47 67 71 105 184 259 290 315 455
phosphate 27 50 67 113 178 184 202 226 259 315 394
phosphorus 43 47 154 259 541
phytoplankton 27 43 47 67 71 113 128 153 154 174 202 394 441 519
plankton 202 226 270
PN 47 270
point sources 541
pond experiment 89
Portugal 474
Potomac 67
predictions 27 284 541
primary 43 154 174 202 391 441
processes 27 184 315
productivity 43 67 89 154 174 202 391 441
profiles 541
P32 154
Raritan 226
redox potential 315
respiration 89 441
Rhode Island 178
Rockaway Point 113
runoff 60 420 541
Sado 474
salinity 2 43 44 47 50 60 67 68 71 77 106 113 154 174 184 202 226 259 270 290 315 441 455 512 541
salts 36
San Francisco 71
Saronic 245 310
Schofield 27
Sea 153
seasons 50 71 89 226 245 290 310 391 441 448
secchi disc 441
sediment water 178 259 315
sediments 36 106 541
Seine 35
seston 270
settlement 106
sewage 27 60 68 89 105 202 245 259 284 310 320 369 448
Sheepscot 106
shellfish 290
silica 113
silicate 50
soil erosion 541
Sound 43
South Creek 89
Southampton 394
specie key 455
St Lawrence 50
stabilization 105
stochastic 27 420
submerged vegetation 455
sulfate 184
sulfide 184
surface waters 541
suspended solids 36 113
Tagus 474
Tasmania 60
Texar 315
thermal 541
tides 512 519
trace metals 2 184 394 455
turbidity 36 43 67 420 455 541
turnover rates 394
uptake rates 259
upwelling 369

urea 50
vertical distribution 184
Virginia 27 259
Washington 369
wastes 105 245 284 512
water velocity 455
Yaquina 448
yeast 474
York 174
zooplankton 67 77 153 154 245 391 394
temporal distribution
algae 248
benthic 248 542
benthic oxygen demand 542
carbon 542
coliforms 542
deoxygenation 542
DO 542
Estuary 219 223 426
fish 542
freshwater 219
heat 542
ice 542
isopleths 223
life cycles 248
light 542
methods 426 542
model 223 542
New Jersey 426
New York 426
nitrate 219
nitrite 219
nonpoint sources 223
nutrients 223 542
organisms 542
Oslofjord 248
phosphate 219
phosphorus 223
phytoplankton 542
Potomac 219 223
primary 542
processes 223
productivity 542
Raritan 426
rate constants 542
reaeration 542
runoff 223
seasons 248
sediments 219
sewage 219
spatial distribution 219 223 248 426 542
TKN 219
trace metals 426
transport 223
wastes 223
watersheds 219
zooplankton 542
Tenholloway
benthic 540
Econfina 540
Estuary 540
macrophytes 540
tertiary
algae 236 339
bacteria 339
Bay 52 301 433
benthic 433 508
biomass 52 339
birds 339
calcium 339
Canada 52
carbon 339
Chesapeake 301
community structure 483
crustaceans 339
denitrification 326
economics 508
Fiji Island 326
fish 339
Florida 433
foraminifera 339
growth rates 236
heterotrophic 339
Hillsborough 433
industry 301 508
inorganic 161 326
insects 339
invertebrates 433
macrophytes 52
management 508
mangroves 326
marshes 339
Massachusetts 161
meiofauna 339
methods 483
microbes 326
molluscs 339
nitrogen 161 326 339

Norway 236
nutrients 236
organisms 508
pesticides 508
phosphate 52
phosphorus 236 339
phytoplankton 161 339
plants 508
pond experiment 161 339
predictions 433
primary 236 483
productivity 339
public opinion 508
Quinte 52
recipient analog 483
recreation 508
secondary 236 326 483
sediments 301 326 433
sewage 52 161 236 301 326 339 433 483
transport 301
wastes 301 508

tetrazolium salt
aerobic 58
anaerobic 58
assay 58
Connecticut 58
Copps Brook 58
degradation 58
DOC 58
interstitial 58
metabolism 58
microbes 58
model 58
nutrients 58
organic matter 58
POC 58
sediments 58
watersheds 58

Texar
ammonia 314
Bayou 181 314 315 316 317
bloom 317
budget 316
carbon 181
DO 314 315 317
Estuary 181
fish 317
Florida 181 314 316 317
flux 315
Gymnodinium 317
inorganic 181
macroinvertebrates 314
nitrate 314
nitrogen 181 316
pH 315
phosphate 181 314 315
phosphorus 181 316
phytoplankton 314 317
primary 181
processes 315
productivity 181
redox potential 315
salinity 315
sediment water 181 315
temperature 315
TOC 314
toxicity 317
wastes 317
zooplankton 314

Texas
abundance 32
algae 438
Anchoa mitchilli 32
autotrophic 86
Bay 32 86 208 231 372 401
Bayou 102
benthic 208 438
biomass 32 231
chemical 102
chlorophyll 102
Chocolate 102
community structure 88
Corpus Christi 372
crabs 231
diversity 32 88 102
DO 102 401
energy transfer 231
fish 32 88 231
fish kills 401
freshwater 86 231
Galveston 32 208 231 401
gas bubbles 401
heterotrophic 86
hydrology 208
indicator species 32 208
indices 32 102 208
industry 86 208
management 231
matrix 372

metabolism 86 88
microcosms 86
model 231 372 438
mucus 401
nitrogen 372
nutrients 86 88
phytoplankton 86
primary 86
productivity 86 102 231
respiration 86 102
salinity 231
salmonids 401
saturation 401
seagrass 438
seasons 102
secondary 231
sediments 208
shrimp 231
stress 88
Taylor 102
toxicity 32
trace metals 438
Trinity 86
wastes 32 86 102 208
zooplankton 86 88 102

Thames
ammonia 29
artificial recharge 138
canal 138
detergent 148
dissolved solids 138
DO 29 148
dredging 148
economics 138
Estuary 29 138 143 148
model 29
nitrate 143
nitrification 138
nitrogen 29
nutrients 143
organic matter 148
ozonization 138
phosphate 143
recycle 138
runoff 143
salts 143
sewage 138 148
United Kingdom 143
wastes 143
water supply 138

Theora fragilis
abundance 389
Bay 389
benthic 389
diversity 389
DO 389
Estuary 389
fauna 389
Hobsons 389
salinity 389
Yarra 389

thermal
algae bluegreen 243
algae mats 243
amino acids 456
bacteria 243 456
bacteria proteolytic 456
Bay 141 243
bibliography 4 211 213 250 263 264 265 266 267 268 344 435
biomass 304
BOD 541
carbohydrates 456
chemical 516
Chesapeake 141
C14 456
DO 213 304 541
dredging 4
economics 4
energy transfer 141
Estuary 141 304
eutrophication 4 211 213 250 263 264 265 266 267 268 344 435
fauna 456
fish 513 516
food processing 516
fungus 456
Guayanilla 243
heat 141
heterotrophic 243 456
hydrology 141 250 263 264 265 266 267 268
indices 456
industry 211 516
management 435
Maryland 304
methods 213 435 456
microbes 141 456 516 541
mining 513
mixing depth 541

model 250 263 264 265 266 267 268
nitrogen 541
nitrogen fixation 243
nonpoint sources 541
nutrients 141 304 516
oil 4 211 344 456 513
Oregon 516
organic 141 541
Patuxent 141 304
pesticides 4 344 435 513
phosphorus 304 541
phytoplankton 141 304 456
plants 141
point sources 541
pollution 4
power plant 141
predictions 541
primary 141 304
processes 456
productivity 141 304
profiles 541
Puerto Rico 243
pulp mill 456 513
radioactivity 4 513 516
remote sensing 211
resources 211 516
runoff 513 541
salinity 456 541
sediments 243 304 541
sewage 456 513 516
soil erosion 541
Sphaerotilus 516
surface waters 541
symposium 456
temperature 541
trace metals 4 213 435 456 516
turbidity 541
wastes 513

thiamine
cobalamin 509
Long Island 509
nutrients 509
orthophosphate 509
phytoplankton 509
seasons 509
Sound 509

Thomann
Anacostia 78
dye 78
Estuary 78
FWQA Dynamic 78
model 78
Potomac 78
predictions 78
tides 78

three dimensional
Alabama 132
Bay 132 198 427
Biscayne 427
chemical 427
density 198
fish 515
Florida 427
free surface 427
hydrology 132 198 515
interface salt fresh 132
management 515
Mobile 132
model 132 198 427 515
momentum transfer 132
Narragansett 198
nutrients 515
phytoplankton 515
primary 515
processes 427
productivity 515
Puget 515
salinity 198
sediments 132 427
Sound 515
succession 515
time dependent 132 427
transport 132 427
trophic levels 515
Washington 515
wind 427

three layer
density 280
hydrology 280
model 280
stratification 280

tidal average
BOD 212
DO 212
Estuary 212
hydrology 212
model 212
real time 212
salinity 212

Virginia 212
York 212
tidal creek
ammonia 177
DON 177
Georgia 177
marshes 177
nitrate 177
nitrite 177
PON 177
pools 177
tides
aerobic 183
algae 81
algae mats 33
ammonia 518
ammonium 210
Anacostia 78
animals 518
barnacles 507
Bay 22
benthic 33
benthic oxygen demand 33
biomass 519
bloom 519
BOD 1 519
British Columbia 512
Broadkill 101
cadmium 210
California 155
canal 512
carbon 19 22
Chesapeake 22
chlorophyll 101 155 519
coliforms 1 183
cycles 183
DC 1
Delaware 101
detritus 22
distribution 155
diversity 155
DO 1 81 101 518 519
dredging 512
Duwamish 519
dye 1 78
Estuary 1 33 78 81 101 183 507
518 519
flushing 155 512
flux 22
freshwater 519
FWQA Dynamic 78
Gulf 155
hydrology 183
inorganic 101
Lagoon 155
management 183
marshes 22 210 507
microbes 183
model 1 33 78 183 507
Murderkill 101
mussels 507
nitrogen 22 101 183 210
North Inlet 507
nutrients 1 101 210 512 518
Oregon 33
oysters 507
pH 101
phosphate 518
phosphorus 19 22 101 210
phytoplankton 1 155 507 519
Potomac 1 78 81 183
predictions 78 183
primary 22 155 507
processes 183 507
productivity 22 155 507
real time 183
salinity 33 101 512
sediments 19 33 210
sewage 19
sulfide 33
temperature 512 519
Thomann 78
trace metals 210
Transient Water Quality Network
183
Virginia 518
wastes 81 512
water column 507
wetlands 101
Yaquina 33
York 518
zinc 210
time constants
diatoms 347
filter feeders 347
flagellates 347
Michaelis Menton 347
model 347
silica 347
zooplankton 347

time dependent
Alabama 132
Bay 132 427
Biscayne 427
chemical 427
Estuary 255
Florida 427
free surface 427
hydrology 132
interface salt fresh 132
Mobile 132
model 132 255 427
momentum transfer 132
one dimensional 255
Potomac 255
processes 427
sediments 132 427
stochastic 255
three dimensional 132 427
transport 132 427
wind 427
TKN
Estuary 219
freshwater 219
nitrate 219
nitrite 219
phosphate 219
Potomac 219
sediments 219
sewage 219
spatial distribution 219
temporal distribution 219
watersheds 219
TLm
industry 452
metabolism 452
populations single 452
stress 452
wastes 452
TOC
algae 442
ammonia 314
Bayou 314
BOD 349
carbon 220
chlorophyll 220
COD 349 442
CO2 220
deoxygenation 104 349
DO 220 314
DOC 104
Estuary 104 220
Florida 314
indices 220
industry 442
Japan 349
Louisiana 442
macroinvertebrates 314
marshes 442
microbes 220 442
nitrate 314
nutrients 104 220 442
Pamlico 104
pesticides 220
phosphate 314
phytoplankton 314
POC 104
Potomac 220
primary 104
productivity 104
respiration 104
runoff 442
self purification 349
sewage 442
Texar 314
TOD 349
wastes 220 442
zooplankton 314
TOD
BOD 349
COD 349
deoxygenation 349
Japan 349
self purification 349
TOC 349
Tokyo
Actinetobacter 431
alkaline phosphatase 470
ammonia 190
bacteria 431
Bay 190 431 470
chlorophyll 470
denitrification 190
distribution 470
DNA 470
enzymes 470
heterotrophic 431
indices 470
Japan 190
Mangoku 190

microbes 470
nutrients 431
N15 190
phosphorus 470
phytoplankton 431
PON 190
protein 470
Sagami 431
sediments 190
seston 470
Simoda 190
Suruga 431
Ura 190
Vibrios 431
zooplankton 431

Tolo
clay 458
flux 458
Harbor 458
Hong Kong 458
land development 458
phosphate 458
salinity 458
sediments 458

toxicity
abundance 32
Anchoa mitchilli 32
Bay 32
Bayou 317
benthic 10
biomass 32
bloom 10 317
carbon 116
continuous culture 116
cysts 10
dinoflagellate 6 10
diversity 32
DO 317
dredging 107
fish 32 317
Florida 317
Galveston 32
Gonyaulax 6 10
Gymnodinium 317
indicator species 32
indices 32
larvae 107
Massachusetts 10
nutrients 116
pH 302
phytoplankton 116 317
pulp mill 302
red tide 10
salmonids 302
sewage 116
spores 10
succession 116
Texar 317
Texas 32
wastes 32 302 317
zooplankton 107

trace metals
agrochemicals 455
algae 72 216 438
alkalinity 149 184 380 455
amino acids 456 528
ammonia 184 311 387
ammonium 210 394
assay 414
bacteria 456
bacteria proteolytic 456
Bay 72 184 380 387 455
Belgium 376
benthic 72 137 356 438 528
bibliography 4 124 213 435 436
black necrosis 2
bloom 376 414
boat traffic 455
BOD 311 348
Bothnia 137
Broad River 292
buoys 37
Burry Inlet 2
cadmium 210
California 37
carbohydrates 456
carbon 387 394
ceramic panel substrates 37
chemical 516
Chesapeake 72 184 380 455
chlorinated hydrocarbons 37 137 491
chlorine 184 455
chlorophyll 184
coliforms 380
conference 528
Crangon crangon 2
cycles 528
C14 456
DC 380

deposition 376
detergent 2 436
detritus 292 528
diatoms 376 414 479
dinoflagellate 479
disease 356 455
dispersion 37
dissolved solids 137
DO 2 72 137 184 213 216 242 311 376 380 387 394
DOC 311
DON 311
dredging 4 455
economics 4 37 491
energy transfer 72 348
epiphytes 455
Estuary 124 216 292 376 380 426
eutrophication 4 124 213 435
fauna 455 456
fertilizer 292
fish 356 516 528
fisheries 124 528
Florida 292
flux 387
food processing 516
foraminifera 72
fungus 456
Great Britian 2
growth rates 479
Gulf 137
heterotrophic 456
hydrology 124 137 376 414 491
indices 456
industry 348 380 516
instruments 436
interface salt fresh 311 376
invertebrates 528
iron 137
James 380
land development 216
leaves 292
macrofauna 72 137 356
macrophytes 72
management 435 491 528
mangroves 292
marshes 149 210
Maryland 380
Mediterranean 491
methods 37 213 426 435 436 456
microbes 2 72 216 456 491 516 528
microcosms 387
Mississippi 356
model 348 436 438
N/P 414
Narragansett 387
New Jersey 426
New York 426
nitrate 380 394 414
nitrite 311
nitrogen 115 210 242 387 479 528
Norway 414
nutrients 72 137 149 210 216 376 380 387 394 436 455 491 516 528
Obelia dichtoma 37
oil 4 137 436 455 456 491 528
Oregon 516
organic matter 394
organisms 528
orthophosphate 184 414
parasites 356
Patuxent 380
pesticides 4 137 292 348 356 380 435 436 528
pH 2 184 311 380 455
phosphate 184 380 394
phosphorus 115 137 149 210 242 387 528
phytoplankton 72 115 137 394 414 456 479
pollution 4
Potomac 216 380
primary 115 124 137
processes 184 456
productivity 37 115 124 137
pulp mill 456
radioactivity 4 491 516
Rappahannock 380
Raritan 426
release 405
resources 216 491 516
Rhode Island 387
runoff 216
salinity 2 184 311 405 455 456
Scheldt 376
Sea 491
seagrass 438 528
secondary 348
sediment water 242 387
sediments 137 149 196 210 242

376 380 387 491
self purification 376
sewage 37 72 115 348 356 380 456 479 516
Shark 292
silica 149 414 528
South Carolina 149
Southampton 394
spatial distribution 426
specie key 455
Sphaerotilus 516
St Lawrence 124
stress 528
submerged vegetation 455
sulfate 184
sulfide 184
suspended solids 124 376 405
Susquehanna 380
symposium 137 456
temperature 2 184 394 455
temporal distribution 426
Texas 438
thermal 4 213 435 456 516
tides 210
transport 376
Trondheimsfjord 414
turbidity 455
turnover rates 394
urea 528
vertical distribution 184
Virginia 380
viruses 216
wastes 137 196 216 348 380
water column 196
water velocity 455
watersheds 380
wetlands 528
York 380
zinc 210
zooplankton 72 137 394 528

tracer
Bay 23
coliforms 23
Great Britian 23
Liverpool 23
sewage 23

Transient Water Quality Network
aerobic 183
coliforms 183
cycles 183
Estuary 183
hydrology 183
management 183
microbes 183
model 183
nitrogen 183
Potomac 183
predictions 183
processes 183
real time 183
tides 183

transport
Alabama 132
Bay 132 262 301 354 427
Belgium 376
Biscayne 427
bloom 376
chemical 427
Chesapeake 301
deposition 376
diatoms 376
DO 376
energy transfer 354
Estuary 223 376
Florida 427
free surface 427
hydrology 100 132 262 354 376
industry 301
interface salt fresh 132 376
intracellular 100
isopleths 223
Jamaica 262
Mobile 132
model 100 132 223 244 262 354 427
momentum transfer 132
New York 262
nitrogen 100
nonadvective 244
nonpoint sources 223
nutrients 100 223 376
phosphorus 100 223
Potomac 223
processes 223 244 354 427
runoff 223
San Francisco 354
Scheldt 376
sediments 132 301 376 427
self purification 376
sewage 301

spatial distribution 223
suspended solids 376
temporal distribution 223
tertiary 301
three dimensional 132 427
time dependent 132 427
trace metals 376
two dimensional 262
wastes 223 301
wind 427
Trinity
autotrophic 86
Bay 86
freshwater 86
heterotrophic 86
industry 86
metabolism 86
microcosms 86
nutrients 86
phytoplankton 86
primary 86
productivity 86
respiration 86
Texas 86
wastes 86
zooplankton 86
tris extraction
acid extraction 206
ATP 206
charcoal adsorption 206
methods 206
sediments 206
Trondheimsfjord
assay 414
bloom 414
diatoms 414
hydrology 414
N/P 414
nitrate 414
Norway 414
orthophosphate 414
phytoplankton 414
silica 414
trace metals 414
trophic levels
fish 515
hydrology 515
management 515
model 515
nutrients 515
phytoplankton 515
primary 515
productivity 515
Puget 515
Sound 515
succession 515
three dimensional 515
Washington 515
tropical
Bay 147
Cladocera 147
Evadne tergestina 147
Malagasy Republic 147
Nosy Be 147
Penilia avirostris 147
phytoplankton 147
rainfall 147
seasons 147
zooplankton 147
turbidity
abundance 43
agrochemicals 455
Albemarle 43
alkalinity 67 455
ammonia 43 67
Baule Mitschlerlich 511
Bay 67 455
benthic 511
benthic oxygen demand 420
boat traffic 455
BOD 36 541
Chesapeake 67 455
chlorine 455
chlorophyll 43 67
clay 374
disease 455
DO 36 67 541
dredging 455
epiphytes 455
Estuary 67
fauna 455
freshwater 420
hydrology 43 420
land development 43
light 36 420
macrophytes 511
microbes 541
mixing depth 541
model 420
NaCl 36

nitrate 67
nitrite 67
nitrogen 43 67 541
nonpoint sources 541
North Carolina 43
nutrients 455 511
oil 455
one dimensional 420
organic 541
pH 67 455
phosphate 67
phosphorus 43 541
phytoplankton 43 67 511
point sources 541
Potomac 67
predictions 541
primary 43 511
productivity 43 67 511
profiles 541
runoff 420 541
salinity 43 67 455 541
salts 36
seagrass 374
sediments 36 541
sewage 374
soil erosion 541
Sound 43
specie key 455
stochastic 420
submerged vegetation 455
surface waters 541
suspended solids 36
temperature 36 43 67 420 455 541
thermal 541
trace metals 455
water velocity 455
zooplankton 67

turnover rates
aerobic 537
algae 537
ammonium 394
Bay 469
biomass 537
bloom 537
carbon 394
Chesapeake 469
CO2 537
cycles 233
C14 537
Denmark 233
density 537
detritus 537
DO 394
DOP 469
Ks 469
macrophytes 537
microbes 537
nitrate 394
nutrients 394
organic matter 394
orthophosphate 469
oxidation 233
phosphate 394
phytoplankton 394 469
polyphosphate 469
P32 469
reduction 233
sediments 233 537
Southampton 394
sulphur 233
temperature 394
trace metals 394
uptake rates 537
Vm 469 537
water column 537
zooplankton 394

two dimensional
advection 42
Bay 41 42 262 353 378
BOD 353
Chesapeake 41 42
coliforms 353
Coriolis 42
density homogeneous 258
DO 353
finite difference 41
freshwater 378
hydrology 41 42 262 378
Jamaica 262 353
model 41 42 258 262 353 378
New York 262 353
nitrogen 353
phosphorus 353
salinity 353
San Francisco 378
silica 378
specified time 258
transport 262
unsteady flow 258

two layer

interstitial 503
mass transfer 503
model 503
North 503
Sea 503
silica 503
zone 503
Tyne
algae 119
benthic 119
Estuary 119
Great Britian 119
industry 119
sewage 119
Tees 119
wastes 119
Wear 119
Ulva
Estuary 82
Massachusetts 82
nitrate 82
nutrients 82
phosphate 82
phytoplankton 82
Pines 82
recreation 82
sewage 82
Suagus 82
Ulvales
fucaceae 334
intertidal 334
Mytilus 334
pulp mill 334
Spain 334
stress 334
wastes 334
United Kingdom
bibliography 15 51
Estuary 143
eutrophication 15 51
nitrate 143
nutrients 143
phosphate 143
runoff 143
salts 143
sewage 15
Thames 143
wastes 143
unsteady flow
density homogeneous 258
model 258
specified time 258
two dimensional 258
uptake rates
adsorption 259
aerobic 537
algae 133 537
algae bluegreen 533
alkaline phosphatase 482
ammonia 69 157
ammonium 31 129 188 482
Bay 133 188 297
biomass 133 533 537
bloom 533 537
C/N 188 482
California 129
carbon 482
Chesapeake 133 297
Chlorella salina 69
chlorophyll 482
Chlorophyta 31
Chowan 533
clay 259
CO2 537
cycles 129 297
C14 537
denitrification 157
density 537
detritus 537
dissolved 131
diurnal 129 482
diversity 533
Estuary 31 90 131 133 533
eutrophic 157
growth rates 188
Hawaii 188
Hudson 31
hydrology 90
inorganic 131
Kaneohe 188
Ks 482
light 31
local 297
macrophytes 157 537
microbes 133 297 533 537
mining 90
Mississippi 131
model 157
nitrate 31 69 129 157 188 482
nitrification 157

nitrogen 129 157 297 482
North Carolina 90 533
nutrients 259 297
N15 129
Olisthodiscus luteus 482
organic 157 259
organic matter 157
Orinoco 131
orthophosphate 133
Pamlico 90
pH 259
phosphate 69 259
phosphorus 90 259 297 482 533
phytoplankton 31 90 129 157 188 297 533
plumes 131
primary 129
processes 157
productivity 129
protein 69
rainfall 297
Rangia 90
Rhode 133
salinity 69 90 259
Savannah 131
sediment water 259
sediments 90 297 537
sewage 69 129 188 259
silica 131
Skeletonema 31
suspended solids 131
symposium 297
temperature 259
turnover rates 537
urea 129 188
vertical transport 297
Virginia 259
Vm 537
wastes 90
water column 537
zooplankton 157 297

upwelling
DO 369
Grays 369
Harbor 369
sewage 369
temperature 369
Washington 369

Ura
ammonia 190
Bay 190 252
denitrification 190
Japan 190
Mangoku 190 252
microbes 252
nitrate 252
nitrification 252
N15 190 252
Odawa 252
PON 190
reduction 252
sediments 190 252
Simoda 190
Tokyo 190
Zostera 252

Uranouchi
Bay 322
chlorophyll 322
Japan 322
nutrients 322
phytoplankton 322
wastes 322

urea
amino acids 528
ammonia 50 62 165
ammonium 129 186 188 298
animals 186
Bay 188 298
benthic 528
biomass 62
biosorption 543
C/N 62 188
California 62 129
carbon/chlorophyll 62
Chesapeake 298
conference 528
cycles 129 186 528
C14 543
detritus 528
distribution 50
diurnal 62 129
enzymes 165
Estuary 50 186
fish 528 543
fisheries 528
growth rates 188
Hawaii 188
inorganic 186
invertebrates 528
Kaneohe 188

Ks 62
management 528
methianine 543
methods 165
microbes 528
nitrate 50 129 186 188 298
nitrite 50 186 298
nitrogen 50 62 129 186 528
North Carolina 186
nutrients 50 62 186 528
N15 62 129
oil 528
organic 50 186
organisms 528
Pamlico 186
percolator 165
pesticides 528
phosphate 50
phosphorus 528
phytoplankton 62 129 188 298
plants 186
primary 62 129
productivity 62 129
salinity 50
seagrass 528
seasons 50 186
sediments 165 186
sewage 62 129 188
silica 528
silicate 50
St Lawrence 50
stress 528
sulfate 165
temperature 50
trace metals 528
uptake rates 129 188
Vm 62
wetlands 528
zooplankton 528

USSR
metabolism 162
mussels 162
nitrogen 162
nutrients 162
organic 162
phosphate 162

uv/resin
interference 54
methods 54
nitrate 54

Vancouver
Burrard 460
distribution 460
fiord 460
Harbor 460
Inlet 460
phytoplankton 460
primary 460
productivity 460
succession 460

Vellar
Estuary 506
inorganic 506
nitrogen 506
organic 506
phytoplankton 506
processes 506
seasons 506

vertical distribution
alkalinity 184
ammonia 184
Bay 184
Chesapeake 184
chlorine 184
chlorophyll 184
DO 184
orthophosphate 184
pH 184
phosphate 184
processes 184
salinity 184
sulfate 184
sulfide 184
temperature 184
trace metals 184

vertical shear
density 530
dispersion 530
dye 530
Estuary 530
hydrology 530
longitudinal 530
mixing 530
model 530
point sources 530
York 530

vertical transport
Bay 297
Chesapeake 297
cycles 297

local 297
microbes 297
nitrogen 297
nutrients 297
phosphorus 297
phytoplankton 297
rainfall 297
sediments 297
symposium 297
uptake rates 297
zooplankton 297
Vibrios
Actinetobacter 431
bacteria 431
Bay 431
heterotrophic 431
nutrients 431
phytoplankton 431
Sagami 431
Suruga 431
Tokyo 431
zooplankton 431
Virginia
Acartia 227
adsorption 259
alkalinity 380
ammonia 518
animals 518
Balanus 227
Bay 156 227 380 475
bibliography 156 475
bloom 227
BOD 212
carbon 21 27
Carter 21
Chesapeake 156 380 475
clay 259
coliforms 380
Creek 21
cycles 21
DC 380
DO 212 380 518
Estuary 27 212 227 380 518
Eurytemora 227
hydrology 212
industry 380
inorganic 27
James 27 380
latitudinal gradients 227
marshes 21
Maryland 380
microbes 27
model 27 212
Narragansett 227
New Jersey 227
nitrate 27 380
nitrite 27
nitrogen 21
nutrients 227 259 380 518
organic 27 259
organic matter 227
Patuxent 380
pesticides 380
pH 259 380
phosphate 27 259 380 518
phosphorus 21 259
phytoplankton 27 227
Potomac 380
predictions 27
primary 21
processes 27
productivity 21
Rappahannock 380
Raritan 227
real time 212
Rhode Island 227
salinity 212 227 259
Schofield 27
seasons 227
sediment water 21 259
sediments 380
sewage 27 259 380
stochastic 27
Susquehanna 380
temperature 27 259
tidal average 212
tides 518
trace metals 380
uptake rates 259
Ware 21
wastes 227 380
watersheds 380
York 212 227 380 518
zooplankton 227
viruses
algae 216
algae bluegreen 254
Cyanophyta 254
DO 216
Estuary 216

fish kills 254
hosts 254
indicator species 254
land development 216
microbes 216 254
nutrients 216
Potomac 216
resources 216
runoff 216
Schizothrix calicola 254
trace metals 216
wastes 216
vitamin B12
Georgia 59
marshes 59
microbes 59
sediments 59
suspended solids 59
vitamins
fungus 501
microbes 501
seasons 501
synthesis 501
yeast 501
Vm
aerobic 537
algae 537
alkaline phosphatase 468
ammonia 62
ammonium 522
Bay 468 469
biomass 62 537
bloom 537
boundary layer 522
C/N 62
California 62
carbon 522
carbon/chlorophyll 62
Chesapeake 468 469
CO2 537
cycles 522
C14 537
density 537
detritus 537
diurnal 62
DOP 469
growth rates 522
kelp 522
Ks 62 468 469 522
Macrocystis 522
macrophytes 537
microbes 537
morphology 522
nitrogen 62 522
nutrients 62 522
N15 62
orthophosphate 469
phosphomonoester 468
phosphorus 468
phytoplankton 62 468 469
polyphosphate 469
primary 62 522
productivity 62 522
P32 469
sediments 537
sewage 62
turnover rates 469 537
uptake rates 537
urea 62
water column 537
water velocity 522
Waimea
acetylene 25
cannery 25
Inlet 25
intertidal 25
Klebsiella pneumoniae 25
New Zealand 25
nitrogen fixation 25
nutrients 25
sediments 25
sewage 25
slaughterhouse 25
wastes 25
Ware
carbon 21
Carter 21
Creek 21
cycles 21
marshes 21
nitrogen 21
phosphorus 21
primary 21
productivity 21
sediment water 21
Virginia 21
Washington
ammonia 481 520
anaerobic 358
benthic 305 358

bibliography 84 112
bloom 520
chlorophyll 481
dehydrogenase 358
disease 305
diversity 17
DO 369
Duwamish 480 481 520
ecosystem 84
Estuary 480 481 520
fish 17 305 515
Grays 369
Harbor 369
hydrology 515 520
indicator species 481
intertidal 17
invertebrates 17
Lake 358
land development 84
macrofauna 17
management 515
metabolic heat release 358
metabolism 358
microcalorimetry 358
model 515
nitrate 481
nitrite 481
nutrients 358 480 515
organic matter 358
organisms 358
oxygen 358
Periphyton 481
phosphate 481 520
phytoplankton 515 520
primary 481 515
processes 358
productivity 481 515
Puget 17 84 305 358 515
salt wedge 480
sediments 17 358
sewage 17 305 369 520
Sound 17 84 305 358 515
succession 515
temperature 369
three dimensional 515
trophic levels 515
upwelling 369
wastes 481
wastes
abundance 32 120
Acartia 227
acetylene 25
Agnes 415
agriculture 218 282 384
algae 81 119 120 216 400 442
algae bluegreen 66 218
algae mats 130
alkalinity 380
ammonia 123 204 481
Anchoa mitchilli 32
animals 399
Apalachee 191
assay 399
ATP 275
autotrophic 86
Balanus 227
Bay 32 76 86 191 208 227 238 301 322 380 415 488
Bayou 102 317
benthic 76 119 120 137 191 208 400 447 508 539
benthic oxygen demand 221
Bight 275
bioenhancement 447
biological 230
biomass 32 66 275 447
bioturbation 539
bloom 204 227 275 317
BOD 109 136 221 284 342 348 539
Bothnia 137
British Columbia 512
C/N 136
cadmium 275
California 400 447
canal 384 512
cannery 25 76 447
carbon 220 221 342
Ceratium 275
Charleston 136
chemical 20 102 109 230 359
Chesapeake 301 380 415
Chinhae 238
chlorinated hydrocarbons 137
chlorophyll 102 220 322 415 481
Chocolate 102
Cladocera 245
Clyde 284
COD 442
coliforms 221 380
CO2 105 220

cycles 342 464
DC 380
Delaware 109 134 342 539
detergent 413
disease 238
dissolved solids 137
distribution 309
diversity 32 102 120 447
Dniester 384
DO 81 102 105 117 137 216 220 221 222 284 317 342 380 447 464
dredging 512
Duwamish 481
economics 134 508
Elizabeth 327
energy transfer 348
Estuary 66 81 90 109 119 130 134 143 204 216 218 220 221 222 223 227 284 309 327 342 380 384 415 481 539
Eurytemora 227
eutrophic 20
exchange diffusion 123
fauna 384 539
fertilizer 204 238 282 464
fish 32 317 447 513
fisheries 488
Florida 191 317
flushing 218 512
flux 342
freshwater 86 204 222 284
fucaceae 334
Galveston 32 208
Great Britian 119 120
Greece 245
Gulf 137 245
Gymnodinium 317
Harbor 20 136 327 400 447
heterotrophic 86
heterotrophic potential 500
Hudson 218
Hurricane 415
hydrology 20 90 137 208 284 399
Hymeniacidon sanguinea 359
indicator species 32 191 208 245 359 399 400 481
indices 32 102 208 220
industry 86 109 119 134 136 208 232 245 275 284 301 327 348 359 380 384 442 452 464 488 508
Inlet 25
inorganic 413
intertidal 25 309 334
invertebrates 191
Ireland 130
Irish 309
iron 137
isopleths 223
Italy 359
James 327 380
Japan 322 488
kelp 232
Klebsiella pneumoniae 25
Korea 238
Lagoon 105
land development 216
latitudinal gradients 227
Limnodrilus 539
Little Creek 327
long term 120
Los Angeles 400 447
Louisiana 442
Lynnhaven 327
macrofauna 76 137 309
macroinvertebrates 232
management 109 327 508
marshes 442
Maryland 380
Mersey 309
metabolism 86 452
metals 232
methods 118 123 399
Michaelis Menton 415
microbes 20 216 220 275 399 442 500
microcosms 86
mining 66 90 464 513
model 105 109 223 327 342 348 415
mud flats 130 191
municipal 109 413
Mytilus 334
N/P 413
Nansemond 327
Narragansett 227
Neuse 204
New Jersey 227
New York 275
New Zealand 25
nitrate 123 143 204 218 380 481

nitrite 481
nitrogen 66 342 413 415
nitrogen fixation 25
nonpoint sources 223 327
North 232
North Carolina 90 204
nutrients 25 86 130 137 143 216 218 220 221 222 223 227 282 322 342 380 442 512
N14 118
N15 118
oil 137 399 400 513
oligochaetes 400 539
organic 130 309 500 539
organic matter 227 413
organisms 447 508
orthophosphate 117
oyster reefs 191
Pagan 327
Pamlico 66 90
Patuxent 380
Periphyton 481
pesticides 137 220 348 380 508 513
pH 105 302 380
phosphate 123 143 218 380 481
phosphorus 66 90 137 204 223 342 413 415 464
phytoplankton 66 86 90 137 204 221 227 317 322 342 413 415
plankton 20 447
plants 508
point sources 218
polychaetes 400
pool experiment 66
populations mixed 500
populations single 452
Poquoson 327
Porifera 359
Porphyra 238
Potomac 81 216 218 220 221 222 223 342 380
predictions 284 327
primary 86 137 238 481
processes 223 230
productivity 86 102 137 238 447 481
public opinion 508
Puget 117
pulp mill 136 191 302 334 488 513
quasi linear 415
radioactivity 513
Rangia 90
Rappahannock 380
Raritan 227
recreation 508
reproduction 120
resources 216 222
respiration 86 102
Rhode Island 227
Rogerstown 130
runoff 134 143 216 223 442 464 513
Saldanha 76
salinity 90 204 227 512
salmonids 302
salts 143
Saronic 245
Sea 232 309
seagrass 191
seasons 102 120 227 245 309
secondary 118 123 348
sediments 25 90 137 196 208 275 301 380 539
sewage 25 105 119 134 136 204 218 232 245 284 301 327 348 359 380 384 400 442 447 464 488 513
slaughterhouse 25
Sound 117
South Africa 76
South Carolina 136
Spain 334
spatial distribution 223
stabilization 105 230
storm loading 134
stress 334 452
succession 232
Suruga 488
Susquehanna 380 415
symposium 137
Taylor 102
Tees 119
temperature 105 245 284 512
temporal distribution 223
tertiary 301 508
Texar 317
Texas 32 86 102 208
Thames 143
thermal 513

tides 81 512
TLm 452
TOC 220 442
toxicity 32 302 317
trace metals 137 196 216 348 380
transport 223 301
Trinity 86
Tyne 119
Ulvales 334
United Kingdom 143
uptake rates 90
Uranouchi 322
Virginia 227 380
viruses 216
Waimea 25
Washington 481
water column 196
watersheds 380
Wear 119
York 227 327 380
zooplankton 86 102 137 227 245 342 384

water column
aerobic 537
algae 537
barnacles 507
Bay 417
biomass 537
bloom 537
Chesapeake 417
CO2 537
C14 537
density 537
detritus 537
distribution 417
Estuary 507
indicator species 417
macrophytes 537
marshes 507
microbes 417 537
model 507
mussels 507
North Inlet 507
oysters 507
phytoplankton 507
primary 507
processes 507
productivity 507
sediments 196 417 537
sewage 417
suspended solids 417
tides 507
trace metals 196
turnover rates 537
uptake rates 537
Vm 537
wastes 196

water craft
Bay 425
Meydenbauer 425
San Diego 425
sewage 425
Wollochet 425

water quality
DO 97
hydrology 97
model 97

water supply
artificial recharge 138
canal 138
dissolved solids 138
economics 138
Estuary 138
nitrification 138
ozonization 138
recycle 138
sewage 138
Thames 138

water velocity
agrochemicals 455
alkalinity 455
ammonium 522
Bay 455
biomass 336
boat traffic 455
boundary layer 522
carbon 522
Chesapeake 455
chlorine 455
cycles 522
disease 455
dredging 455
epiphytes 455
Estuary 336
fauna 455
Grevelingen 336
growth rates 522
kelp 522
Ks 522
light 336

Macrocystis 522
morphology 522
Netherlands 336
nitrogen 522
nutrients 336 455 522
oil 455
pH 455
primary 336 522
productivity 336 522
salinity 455
specie key 455
submerged vegetation 455
temperature 455
trace metals 455
turbidity 455
Vm 522
Zostera marina 336
watersheds
aerobic 58
agriculture 517
alkalinity 380
anaerobic 58
assay 58
Bay 92 173 380
Chesapeake 92 173 380
Chickahominy 173
coliforms 380
Connecticut 58
Copps Brook 58
DC 380
degradation 58
DO 380
DOC 58
Estuary 173 219 380
fertilizer 517
flood control 517
freshwater 219
hydrology 517
indices 92
industry 380 517
interstitial 58
James 173 380
land development 92 517
linear regression 173
Maryland 380
metabolism 58
microbes 58
model 58
nitrate 219 380
nitrite 219
North Carolina 517
nutrients 58 92 173 380 517
organic matter 58
Patuxent 173 380
pesticides 380 517
pH 380
phosphate 219 380
POC 58
Potomac 173 219 380
Rappahannock 173 380
recreation 517
resources 517
seasons 173
sediments 58 219 380
sewage 219 380
spatial distribution 219
Susquehanna 173 380
temporal distribution 219
tetrazolium salt 58
TKN 219
trace metals 380
Virginia 380
wastes 380
York 173 380
Wear
algae 119
benthic 119
Estuary 119
Great Britian 119
industry 119
sewage 119
Tees 119
Tyne 119
wastes 119
weight
ammonia 289
chlorophyll 289
COD 289
Estuary 289
nutrients 289
phosphorus 289
Potomac 289
sediments 289
Werribee
ammonia 388
Australia 388
Bay 388
benthic 388
fauna 388
nutrients 388

Port Phillip 388
salinity 388
sediments 388
sewage 388
sewage treatment farm 388
wetlands
agencies 14
agriculture 26
amino acids 528
Barataria 95
Basin 95
Bay 402
benthic 528
Broadkill 101
carbon 192 195
chlorophyll 101
conference 528
Copepoda 195
crustaceans 195
cycles 528
Delaware 101
detritus 192 195 528
disposal 531
DO 101
dredging 14 96 531
energy transfer 192 195
Estuary 101 192 195 402
Eurytemora affinis 195
fish 528
fisheries 95 96 528
flood control 96
Florida 14 402
freshwater 402
inorganic 101
invertebrates 528
land development 96
local 14
Louisiana 95 96 402
management 96 402 528
marshes 192
Maryland 192 195
microbes 195 528
Murderkill 101
nitrogen 101 528
North Carolina 402
nursery grounds 95
nutrients 26 95 96 101 192 402 528
oil 528
organisms 528
Palm 402
Patuxent 192 195
pesticides 528
pH 101
phosphorus 101 528
phytoplankton 96
primary 192 195
productivity 192 195
radioactivity 402
recreation 96
runoff 26 96 402
salinity 95 101
Santee 402
Scottlana canadensis 195
seagrass 528
sewage 14 96
silica 528
soil erosion 96
South Carolina 402
state 14
stress 528
swamps 402
tides 101
trace metals 528
urea 528
zooplankton 528
wind
Bay 422 427
Biscayne 427
chemical 427
Chesapeake 422
Florida 427
free surface 427
model 427
organic matter 422
processes 427
salinity 422
secchi disc 422
sediments 427
suspended solids 422
three dimensional 427
time dependent 427
transport 427
winter
biomass 445
bloom 445
diatoms 445
Japan 445
microbes 445
nutrients 445

primary 445
productivity 445
Sea 445
Wollochet
Bay 425
Meydenbauer 425
San Diego 425
sewage 425
water craft 425
Woods Hole
benthic 331
indicator species 331
invertebrates 331
Massachusetts 331
nematodes 331
seasons 331
sewage 331
worms
Clyde 375
Enteromorpha 375
Estuary 375
fauna 375
fisheries 375
molluscs 375
nutrients 375
sand 375
Scotland 375
sediments 375
sewage 375
Yaquina
algae 448
algae mats 33
assay 448
Bay 448
benthic 33
benthic oxygen demand 33
dispersion coefficient 170
Estuary 33 170
hydrology 448
light 448
model 33 170
nutrients 448
Oregon 33 170 448
salinity 33
seasons 448
sediments 33
sewage 448
slack water 170
sulfide 33
temperature 448
tides 33
Yarra
abundance 389
Bay 389
benthic 389
diversity 389
DO 389
Estuary 389
fauna 389
Hobsons 389
salinity 389
Theora fragilis 389
yeast
Estuary 474
fungus 501
microbes 501
organic matter 474
Portugal 474
Sado 474
seasons 501
synthesis 501
Tagus 474
temperature 474
vitamins 501
York
Acartia 227
alkalinity 380
ammonia 518
animals 518
Balanus 227
Bay 173 227 380 495
bloom 227
BOD 212 495
carbon 495
Chesapeake 173 380 495
Chickahominy 173
chlorophyll 174 495
coliforms 380
community structure 174
DC 380
density 530
dispersion 530
DO 174 212 380 495 518
dye 530
Elizabeth 327
Estuary 173 174 212 227 327 367
380 495 518 530
Eurytemora 227
factorial productivity 367
Harbor 327

hydrology 174 212 530
industry 327 380
James 173 327 380 495
latitudinal gradients 227
light 174
linear regression 173
Little Creek 327
longitudinal 530
Lynnhaven 327
management 380
Maryland 380
microflagellates 174
mixing 530
model 212 327 530
nanoplankton 174
Nansemond 327
Narragansett 227
New Jersey 227
nitrate 380
nonpoint sources 327
nutrients 173 227 380 495 518
organic matter 227
Pagan 327
Patuxent 173 380 495
pesticides 380
pH 380
phosphate 380 518
phytoplankton 174 227 367
point sources 530
populations mixed 367
populations single 367
Poquoson 327
Potomac 173 380 495
predictions 327
primary 174 367
productivity 174 367
Rappahannock 173 380 495
Raritan 227
real time 212
Rhode Island 227
salinity 174 212 227
seasons 173 227
sediments 380
sewage 327 380
Skeletonema 367
succession 367
Susquehanna 173 380 495
temperature 174
tidal average 212
tides 518
trace metals 380
vertical shear 530
Virginia 212 227 380 518
wastes 227 327 380
watersheds 173 380
zooplankton 227
zinc
ammonia 210
cadmium 210
marshes 210
nitrogen 210
nutrients 210
phosphorus 210
sediments 210
tides 210
trace metals 210
zone
interstitial 503
mass transfer 503
model 503
North 503
Sea 503
silica 503
two layer 503

zooplankton
Acartia 227
Actinetobacter 431
agriculture 384
algae 72 87 140
algae bluegreen 335
alkalinity 67
amino acids 528
ammonia 67 157 314 466 477
ammonium 394
ATP 295
Australia 154
autotrophic 86
bacteria 431
Balanus 227
Baltic 335
Basin 295
Bay 67 72 86 140 147 200 227 296 297 392 406 431 466
Bayou 102 314
Bedford 295
benthic 72 87 137 335 352 528 542
benthic oxygen demand 542
biomass 140 154 200 296 466
bloom 227 363
BOD 342 477
Bothnia 137
Buzzards 406
Byfjorden 352
C/N 406
Calanus pacificus 363
California 477
canal 384
carbohydrates 295
carbon 295 342 394 542
Chaetoceros 363
Chaetodon miliaris 392
chemical 102
Chesapeake 67 72 140 296 297
chlorinated hydrocarbons 137
chlorophyll 67 102 140 154 296 391 406
Chocolate 102
Cladocera 147 245
Cochin 391
coliforms 542
Columbia 175
community structure 88
conference 528
crustaceans 352
cycles 297 342 477 528
C14 140 391
Delaware 342 477
Delta 477
denitrification 157
deoxygenation 542
detergent 335
detritus 406 528
diatoms 153 347
DIN 477
dissolved solids 137
distribution 153
diversity 88 102
Dniester 384
DO 67 72 102 137 154 194 314 335 342 394 477 542
DOM 404
DON 466
DPO 466
dredging 107
east coast 77
energy transfer 72 335
Estuary 67 87 154 175 227 341 342 352 384 391 477
Euphaussid furcilia 363
Eurytemora 175 227
eutrophic 157
Evadne tergestina 147
excretion rates 466
fauna 87 384
feeding rates 363
filter feeders 347
fish 88 335 392 528 542
fisheries 77 528
flagellates 295 347
Florida 314
flux 342
foraminifera 72
freshwater 86
Gothenburg 352
Greece 245
growth rates 392
Gulf 137 245
Hawaii 200 392 466
heat 542
heterotrophic 86 431
hydrology 87 137 154
H3 154
ice 542

indicator species 245 335 352
indices 102
industry 86 245 384
invertebrates 528
iron 137
juveniles 77
Kaneohe 200 392 466
Kungsbackafjorden 352
larvae 107
latitudinal gradients 227
light 175 542
linear regression 175
Little River 154
local 297
Long Island 404
long term 153
macroalgae 335
macrofauna 72 137 352
macroinvertebrates 314
macrophytes 72 157
Malagasy Republic 147
management 528
Massachusetts 406
meiofauna 352
metabolism 86 88 466
methods 296 542
Michaelis Menton 347
microbes 72 297 404 528
microcosms 86 140 194
mining 87
model 157 237 335 341 342 347 477 542
nanoplankton 296 363 406
Narragansett 227
New Jersey 227
nitrate 67 157 175 314 394
nitrification 157
nitrite 67 477
nitrogen 67 87 157 194 297 342 477 528
North 153
Nosy Be 147
nutrients 72 86 88 137 227 297 341 342 391 394 431 528 542
oil 137 528
Oregon 175
organic 157
organic aggregates 404
organic matter 157 227 394
organisms 335 528 542
oxidation 477
Pamlico 87
particulate matter 295
Penilia avirostris 147
pesticides 137 528
pH 67
phosphate 67 175 314 394 466
phosphorus 87 137 154 194 297 342 528
phytoplankton 67 72 86 87 137 147 153 154 157 175 194 227 295 296 297 314 341 342 363 394 404 431 477 542
PN 200
POC 406
POM 404
PON 406
populations mixed 237
Potomac 67 341 342 477
primary 86 137 140 154 296 335 391 542
processes 157
productivity 67 86 102 137 140 154 194 296 335 363 391 542
protein 295
Pseudocalanus minutus 363
P32 154
rainfall 147 297
Raritan 227
rate constants 542
reaeration 542
reproduction 392
respiration 86 102
Rhode Island 227
Sacramento 341
Sacramento San Joquin 477
Sagami 431
salinity 67 77 154 227
Saltkallefjord 352
Saronic 245
Sea 153 335
seagrass 528
seasons 102 147 175 227 245 391 404 406
sediments 137 297
sewage 72 140 245 335 384 392
silica 175 347 528
size composition 200
size dependent 466
Sound 404

Southampton 394
spatial distribution 542
stochastic 477
stress 88 528
succession 200
Suruga 431
survival 237
suspended solids 406
Sweden 352
symposium 137 297 335 341
Taylor 102
temperature 67 77 153 154 245 391 394
temporal distribution 542
Texar 314
Texas 86 88 102
time constants 347
TOC 314
Tokyo 431
toxicity 107
trace metals 72 137 394 528
Trinity 86
tropical 147
turbidity 67
turnover rates 394
uptake rates 157 297
urea 528
vertical transport 297
Vibrios 431
Virginia 227
wastes 86 102 137 227 245 342 384
wetlands 528
York 227
Zostera
Bay 252
Mangoku 252
microbes 252
nitrate 252
nitrification 252
N15 252
Odawa 252
reduction 252
sediments 252
Ura 252
Zostera marina
biomass 336
Estuary 336
Grevelingen 336
light 336
Netherlands 336
nutrients 336
primary 336
productivity 336
water velocity 336