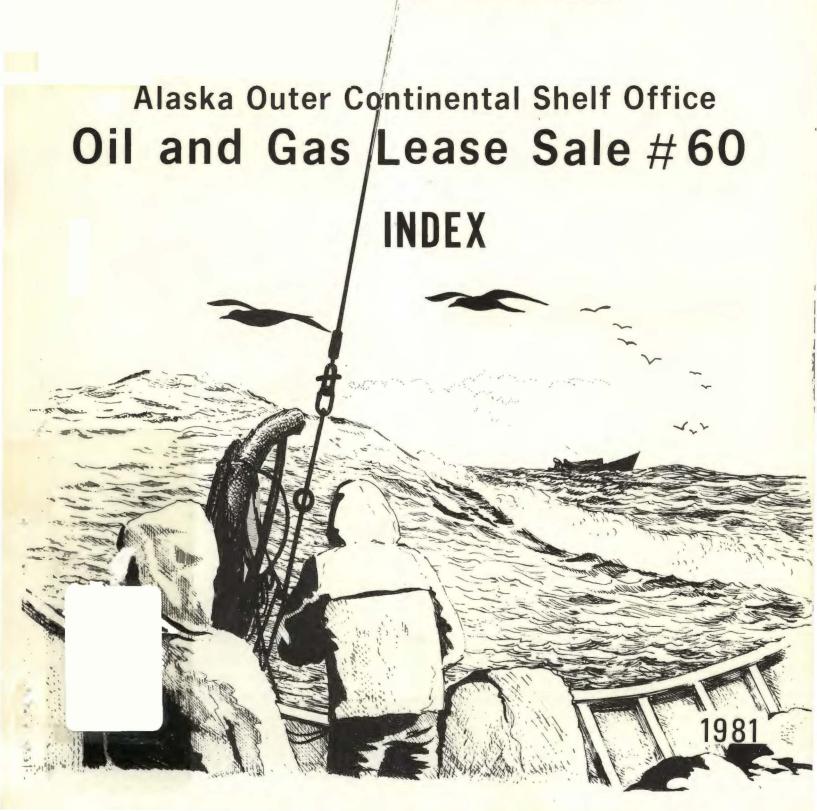
Final Environmental Impact Statement

LOWER COOK INLET -SHELIKOF STRAIT



INDEX

Acid rain 168
See also Air quality (impacts)

ACORP Pollution Response Plan 73

Afognak Archeological District AFG-001 graphic 13

Afognak Island
recreation resources graphic 15
sea otters 38, graphic 11
seals 38
visual resources graphic 15

Afognak Native Corporation graphic 14

AHRS Site Kod-207 (Russian Kiln Site) graphic 13

Air quality 49

Air quality (impacts)

Alternative I 164-168 Alternative II 171 Alternative IV 194-195 Alternative V 201-202 Alternative VI 211

Alaska Coastal Management Program 47-48

Alaska Coastal Management Program (impacts)

Alternative I 156-161
Alternative II 171
Alternative III 176-179
Alternative IV 194
Alternative V 201
Alternative VI 211

Alaska Coastal Region Multi-Agency Oil and Hazardous Substances Pollution Contingency Plan 70-71

Alaska Cooperative Oilspill Response Planning Committee (ACORP) 72

Alaska Earthquake of 1964 34,75, 127, graphic 1 Alaska Heritages, RS, KOD-011 graphic 13

Alaska OCS Environmental Assessment Program 50

Alaska Peninsula archeology graphic 13 recreation resources 44, graphic 15 visual resources graphic 15

Alaska State Park System graphic 15

Albatross, short-tailed 39, graphic 12

Alcids 99

Alcohol and alcoholism 127

Aleut (people) 40, graphic 14

Aleutian Canada goose 39,121, graphic 12

Alternatives, differences and similarities 31-33

Anchor Point impacts 140,142-144 subsistence graphic 14 terminal 10,60

Anchorage ground failure graphic 1 transportation systems 46,152-153,155

Archeologic and historic sites
See Cultural resources;
Cultural resources (impacts);
Specific site

Archeological Resources Protection Act of 1979 graphic 13

Archeological sequence (Kodiak Island Archipelago) graphic 13

Archeological sequence (Pacific Coast) graphic 13

Archeological Site AFG-001 graphic 13

Archeological Site 49 MK 10 graphic 13

Area Meriting Special Attention (AMSA) designation 159-160

Arrow oilspill clean-up 67-68

Athabascans graphic 14

Augustine Island seal concentration 38,110 volcano 76

Auklet, crested 99, graphic 10

Barium sulfate 58

Barren Island National Wildlife Refuge bird colonies graphic 10

Barren Islands
bird colonies 101-102
sea lion rookeries 109-110,
graphic 11
sea otters graphic 11

Bathymetry graphic 2

Bear

black 40,122, graphic 9 brown 40,122,123 graphic 9

Beluga Coal Field 78,104

Bio-Dry plant (Kodiak) graphics 3

Biological habitats
See Coastal habitats;
Coastal habitats (impacts)

Biological Resources
Alternative I
mitigating measure 18-19
irreversible commitment 218
studies 51-52

Bird populations (impacts)
Alternative I 22,99-105,121-122
Alternative II 169
Alternative III 172-173

Bird populations (impacts) Cont'd.
Alternative IV 184-185
Alternative V 195-196
Alternative VI 203-204

Birds

abundance and distribution graphic 10 colonies 37-38,101-103 description 37-38 disturbance 100-101,103 food sources graphic 10 contamination 100 migration graphic 10 oilspill vulnerability index 99 protection of 20

Block deletion alternatives 33,211-216 recommendations 224-226

Bootlegger Cove Clay graphic 1

Border Ranges Fault graphic 1

Bottomfish species graphics 3-4 harvest graphics 3-4 impact processing graphics 3-4

Bradley Lake Hydroelectric Project 78

Brickmaking graphic 13

Bruin Bay Fault graphic 1

BLM studies programs 49-54

Buzzard Bay Oilspill clean-up 68

Cape Starichkof land use impacts 148 terminal impacts 142-144

Captain Cook Recreation Area graphic 15

Caribou, barren ground graphic 9

Castle Mountain Fault graphic 1

Cetaceans

See Whales; Cetaceans, non-endangered; Cetaceans, non-endangered (impacts) Cetaceans, non-endangered 39, graphic 12 Cetaceans, non-endangered (impacts) Alternative I 114-122 Alternative II 169 Alternative III 174 Alternative IV 188-190 Alternative V 197-198 Alternative VI 205-206 Chirikof Island sea otters graphic 11 Chromium 57-58 Chugach Eskimo 40, graphic 14 Chugach National Forest graphic 15 Chugach Natives, Inc. (CNI) sociocultural systems graphic 14 Chugachik Island Site SEL-033 138 Circulation 35, graphic 2 Clam Gulch recreation resources graphic 15 Clams razor graphics 5-8 impacts 81,94,95 Coastal habitats graphic 1 description 36-37 Coastal habitats (impacts) Alternative I 80-84 168-169 Alternative II Alternative III 171 Alternative IV 182-183 Alternative V 195 Alternative VI 202 Coastal Zone Management 47-48 Coastline

See Coastal habitats;

Cod, pacific graphics 3-4

Coastal habitats (impacts)

Columbia Ward Cannery graphic 14 Comments, review and analysis 224-255 Commercial and sportfish (impacts) Alternative I 84-95 Alternative II 169 Alternative III 172 Alternative IV 183 Alternative V 195 Alternative VI 202-203 Commercial fisheries See Fisheries industry; Fisheries industry (impacts) Communications graphic 14 Community infrastructure 40, graphic 14 Community infrastructure (impacts) Alternative I 130-131 Alternative II 170 Alternative III 175 Alternative IV 191-192 Alternative V 199 Alternative VI 208 Consolidation graphic 1 Contaminant distribution studies 50 Cook Inlet air quality 49 bird concentrations 37, graphic 10 block deletion 212-216 cetaceans, non-endangered 39, graphic 12 coastal habitats 36, graphic 1 description graphic 1 endangered species 39, graphic 12 fisheries conflict graphics 3-4 fisheries industry graphics 3-4, graphics 5-8 geology 34 history 40 impacts 216-217 lease sale 80 marine mammals 38, graphic 11 meterology 34-35, graphic 2 no sale 55

Cook Inlet Cont'd. oceanography 35-36, graphic 2 sedimentation graphic 1 seismic activity graphic 1 subsistence graphic 14 terrestrial mammals 39-40, graphic 9 transportation systems 46,47, 153-155 water quality 48 Cook Inlet Native Association (CINA) graphic 14 Cook Inlet Region, Inc. (CIRI) graphic 14 Cook Inlet Response Organization (CIRO) 71-72

Cottonwood Creek Site SEL-021 138

Coyote 40,122

Crab dungeness graphics 5-8 impacts 91-93 King graphics 5-8 tanner graphics 5-8

Cultural resources 43-44, graphic 13 protection of 14

Cultural resources (impacts) Alternative I 13-15,137-140 Alternative II 170 Alternative III 176 Alternative IV 193 Alternative V 200 Alternative VI 209-210

Deer

Sitka black-tailed 40,122,123 graphic 9

Dissolved oxygen graphic 2

Disturbance (impacts) 83,108-109, 116-117,118

Dog Bay harbor site 79 Dolphin north Pacific white-sided graphic 12 northern right whale graphic 12 Drift bottle studies 35, graphic 2 Drift River volcano effects graphic 1 Drill cuttings 56-57 Drilling muds 57,82-83,84-85,161,162 Ducks eiders 99, graphic 10 goldeneyes graphic 10 mallards graphic 10 mergansers graphic 10 oldsquaws 99, graphic 10 scaups 99, graphic 10 scoters graphic 10 Eagle, bald 38, graphic 10

Earthquake See Seismology; Geologic hazards See also Alaska Earthquake of 1964

Economy 42-43,53,55

Economy (impacts) 135-137 Alternative I Alternative II 170 Alternative III 175-176 Alternative IV 192-193 Alternative V 200 Alternative VI 209

Education graphic 14

Eel grass beds 37, graphic 1

Effects studies 52

Electrical power (utility) graphic 14

Elk graphic 9

Employment Shelikof Strait villages 128

Endangered species 39, graphic 12 1rreversible commitment 218 worse case 219

Endangered species (impacts) Alternative I 114-122 Alternative II 169 Alternative III 174 Alternative IV 188-190 Alternative V 197-198 Alternative VI 205-206 Energy facility siting 47,158,159,160 imports 1 English Bay description graphic 14 sociocultural systems 41 subsistence use 132,133,134, graphic 14 English Bay Village Corporation Environmental studies program 49-50 Environmental training program mitigating measure 17-18 Erskine House KOD-123 graphic 13 Falcon, peregrine 38,39, graphic 10, graphic 12 Farmers Home Administration graphic 14 Faults 50,76,77, graphic 1 See also Border Ranges Fault; Bruin Bay Fault; Castle Mountain Fault Federal Coastal Zone Management Act (CZM) 178-179 Federal grant program 21 Federal Water Pollution Control Act 73

Finfish

commercial graphics 3-4

Fire protection graphic 14

Fisheries industry graphics 3-4, graphics 5-8 base case forecasts 55 irreversible commitment 218 oilspill impacts 22-23 Fisheries industry (impacts) 22-23 95-99 Alternative I 169 Alternative II Alternative III 172 Alternative IV 183-184 195 Alternative V 203 Alternative VI Fishermen's Contingency Fund 96 Flounders graphics 3-4 Formation waters 83,84 Fort Abercrombie State Historic Site graphic 13 Fort St. Nicholas graphic 14 Fort Tidball Historic Site graphic 13 Fox arctic 40,122, graphic 9 red 40,122, graphic 9 Fulmars graphic 10 Geologic hazards 34,50-51,74-77, graphic 1 See also Consolidation; Faults; Ground failure; Ground shaking; Mass movement; Sedimentation; Seismology; Surface warping; Tsunamis: Volcanoes Geology, environmental 34, graphic 1 Glaciation graphic 15 Goat, mountain graphic 9

Ground failure graphic 1

Ground shaking graphic 1

Gulf of Alaska Cleanup Organization (GOACO) 71-72

Gull, glaucous-winged 37, graphic 10

Halibut graphics 3-4 impacts 87

Health services graphic 14

Heavy metals 36, graphic 2

Heritage Conservation and Recreation Service (HCRS) 137

Herring graphics 3-4

Holy Resurrection Church KOD-195 graphic 13

Homer

base case forecast 55 community infrastructure 130 description graphic 14 economy 135 education graphic 14 fire protection graphic 14 fisheries expansion graphic 14 fisheries industry graphics 3-4 government graphic 14 harbor expansion 79 housing graphic 14 land use 146 police protection graphic 14 population 124,125, graphic 14 sewer service graphic 14 sociocultural systems 41,129,218, graphic 14 subsistence graphic 14 support and supply operations 145 transportation systems 47 water service graphic 14

Homer Fisheries Industrial Park 79, graphics 3-4

Hope SEW-018 138

Housing graphic 10

Hydrocarbons 36,85-86,88,91,93,94, 108,161-162, graphic 2 transportation of 16-17

Impacts, differences and similarities 31-33

Imports, oil and gas 25,26,31 See also Energy

Indian Reorganization Act (IRA) Council graphic 14

Industry activity
development 10,12,53,59-60,
150-151,153-154
worst case analysis 220-221
exploration 56-59,98,149-150
worst case analysis 220
production 60-61,151-152,153,154
worst case analysis 221-222

Intergovernmental Planning Program (IPP) 17

Irreversible effects 218

Kachemak Bay commercial shellfish graphics 5-8 marine mammals graphic 11 oilspill impacts 82 State Park graphic 15

Kachemak I, II, III (archeology)
 graphic 13

Kachemak culture graphic 13

Kaguyak Village Site AFG-043 graphic 13

Kamishak Bay sea lion rookeries 110

Karluk
description graphic 14
sociocultural systems graphic 14
subsistence 132,133, graphic 14

Karluk River sportfishing graphic 15 Katmai National Monument recreation resources graphic 15

Kelp 36,37, graphic 1

Kenai

base case forecasts 54,55 communications graphic 14 community infrastructure 130, graphic 14 description graphic 14 economy 43,135 education graphic 14 electrical power graphic 14 fire protection graphic 14 fisheries industry graphic 14 government graphic 14 health service graphic 14 housing graphic 14 land use 146 police protection graphic 14 population 124,125, graphic 14 recreation resources graphic 15 sewer service graphic 14 sociocultural systems 128 water service graphic 14

Kenai National Moose Range graphic 15

Kenai Packers (processing plant) graphics 3-4

Kenai Peninsula
 recreation resources
 44, graphics 15
 visual resources graphic 15

Kenai Peninsula Borough (KPB)
coastal zone management 47
mitigating measure 21
population graphic 14
recreation resources graphic 15

Kenai Peninsula Borough-District Coastal Management Program 157-158,177,178,194

Kenai River recreation resource graphic 15

Kenaitze Indians 40, graphic 14

Kittiwake, black-legged 37, graphic 10

Kizhuyak Bay area development impacts 145-146

Kodiak

base case forecasts 54 communications graphic 14 community infrastructure 130-131, graphic 14 economy 43,136 education graphic 14 electrical power graphic 14 fire protection graphic 14 fisheries industry graphics 3-4, graphics 5-8 government graphic 14 harbor expansion 79 health services graphic 14 history graphic 13 housing graphic 14 marine mammals graphic 11 police protection graphic 14 population 124,125, graphic 14 sewer service graphic 14 sociocultural systems 41,125-126, 129,130,218, graphic 14 villages no sale 55 water service graphic 14

Kodiak Island brown bear history graphic 14 population 40, graphic 14 recreation resources graphic 15 transportation systems 149-150 visual resources graphic 15

Kodiak Island Archipelago archeology graphic 13 sea otters 38 transportation systems 46

Kodiak Island Borough
block deletion 213
coastal zone management 47
education graphic 14
mitigating measure 21
recreation resources graphic 15
revenues 136

Kodiak Island Borough Coastal Management Program 158-159, 177-178,194

Kodiak Island Seafood, Inc. (KISI) graphic 14

Kodiak National Wildlife Refuge bald eagle graphic 10 mountain goat graphic 9 recreation resources graphic 15 reindeer graphic 9

Koniag culture 40, graphic 13, graphic 14

Koniak Phase (archeology) graphic 13

Kukak Beach Phase (archeology) graphic 13

Kukak Mound Phase (archeology) graphic 13

Kukak Village Site graphic 13

Land status 45-46

Land status (impacts)
Alternative I 141-142
Alternative II 170
Alternative III 176
Alternative IV 193
Alternative V 201

Alternative VI 210

Land use 45-46

Land use (impacts)

Alternative I 142-149 Alternative II 170

Alternative III 176

Alternative IV 193

Alternative V 201

Alternative VI 210

Larsen Bay

description graphic 14 sociocultural systems graphic 14 subsistence 133, graphic 14

Lease sale 55 2-3

Lease sale 46 (Kodiak) 3,5

Lease sale 60 4
Alternative I
description 11-13
scoping process 5-8

Lease sale 61 3,5 effects 80

Lease sale 35 80

Leases

See Lease sale (specific); Leasing program

Leasing program
history 2
legal mandates and authority 3-4
process 2
regulatory enforcement 4
scoping process 5-8

Lessee information 20-21

Lifestyle irreversible commitment 218

Liquefied natural gas (LNG) air quality impacts 166-167 site facilities 10,61,78-79, 104,143,145

Long term effects 216-217 definition 216

McNeil River State Game Sanctuary recreation resources graphic 15

Mammals protection of 20

Marine archeology 139-140, graphic 13

Marine Mammal Protection Act (MMPA) of 1972 graphic 11 Marine mammals graphic ll
abundance and distribution
graphic ll
concentration areas graphic ll
description 38
food sources graphic ll
migration graphic ll
population status graphic l1

Marine mammals (impacts)
Alternative I 23,105-114
Alternative II 169
Alternative III 173
Alternative IV 185-188
Alternative V 196-197
Alternative VI 204-205

Marine sanctuaries (impacts)
Alternative II 171
Alternative III 180-182

Marmot Island sea lion rookeries 110, graphic 11

Mass movement (geology) 75

Meteorology 34-35, graphic 2
See also Precipitation;
Skycover (visibility);
Temperature;
Winds and storms

Miller Airfield 150

Mink 40,122,123, graphic 9

Mitigating measures 5-6,7-8,13-20 comments 226-231

Monashka Creek reservoir graphic 14

Monk's Lagoon graphic 14

Monte Carlo (random) technique 9

Moose 40,122,123, graphic 9

Mount Augustine (volcano)
34, graphic 1, graphic 15

Mount Douglas (volcano) graphic 1

Mount Iliamna (volcano) graphic 1, graphic 15

Mount Katmai (volcano) 34,76, graphic 1

Mount Redoubt (volcano) graphic 1, graphic 15

Mount Spurr (volcano) graphic 1

Muds

See Drilling muds

Murres

common 37,99, graphic 10 thick-billed graphic 10

National Energy Plan objectives 4

National Oil and Hazardous Substances Pollution Contingency Plan 70,74

National Response Team 70-71

New England Fish Company (NEFCO) graphics 3-4

Nikiski dock 47 land use impacts 145,147 LNG plant 12,13,27,78-79,143,145

Ninilchik

description graphic 14

population graphic 14 subsistence graphic 14

Ninilchik KEN-032 138

Ninilchik Village Council graphic 14

No-sale case 54-55

Noise graphic 2

North Pacific Rim, Inc. graphic 14

Ocean Bay I Phase (archeology) graphic 13

Ocean Bay II Phase (archeology) graphic 13

Oceanography, chemical 36, graphic 2 Ouzinkie Native Corporation graphic 14 See also Dissolved oxygen; Heavy metals; Oyster-catchers graphic 10 Hydrocarbons; Pacific Alaska LNG Associates 13,61 Salinity Oceanography, physical 35-36, Pacific Alaska LNG Company graphic 2 78-79,104,143,155 See also Bathymetry; Circulation; Persistence Noise; See Oilspills Sea ice; Spray ica; Petrel, fork-tailed storm Surface trajectories; 37,99, graphic 10 Tides and currents; Waves and swells; Petroleum industry oilspill response Winds and storms organizations See also Alaska Cooperative Oilspill Oil and gas resource estimates Response Planning Committee 9-11,56,61-62,218 (ACORP): Alternative I 11,12 Cook Inlet Response Organ-Alternative II 25 ization (CIRO); Alternative IV 27 Gulf of Alaska Cleanup Alternative V 28,29 Organization (GOACO) Alternative VI 30 Phalaropes graphic 10 Oilspills cleanup 67-68,73 Phillips LNG plant 13 frequency estimates 62,81 persistence indexes 67-70 Pipelines probably impacts 21-25,65,105-108, construction Alternative I 114-116,117-120,133-134 12-13 response 70-74 Alternative IV 27 28 - 29risk analysis 61-67,104 Alternative V trajectory simulation 62-64 Alternative VI 30 design requirements On Scene Coordinator (OSC) 70-71 mitigating measures 15-17 gas 143-144 Orientation program oil 145 See Environmental training program terminals Anchor Point 10,60 Otter 36-37,38,40,111-112,113,114 Talnik Point 10,60 river 122,123, graphic 9 sea 106, graphic 11 Placer Amex Company 78 Outer Continental Shelf Lands Act Plovers graphic 10 (OCSLAA) 1,157 Point Conception Ouzinkie LNG facility 10 description graphic 14 sociocultural systems graphic 14 Police protection graphic 14 subsistence 133,134, graphic 14

Pollock graphics 3-4 walleye graphics 3-4

Pollution

See Air quality;
Contaminant distribution;
Formation waters;
Hydrocarbons;
Oilspill risk analysis;
Transport studies;
Water quality

Polly Creek razor clams graphic 15

Population 40,53, graphic 14

Population (impacts)

Alternative I 124-125,128,130-131
Alternative II 169
Alternative IV 191
Alternative V 198-199
Alternative VI 207-208

Porpoise
Dall 39, graphic 12
harbor 39, graphic 12

Port Bailey Cannery graphic 14

Port Graham
description graphic 14
sociocultural systems 41
subsistence use 132,133,134,
graphic 14

Port Lions

base case forecasts 54
community infrastructure 131
communications graphic 14
description graphic 14
economy 43,136
education graphic 14
electrical power graphic 14
fire protection graphic 14
harbor site 79-80
health services graphic 14
housing graphic 14
land use 147
police protection graphic 14

Port Lions Cont'd.

population 124,125
sewer service graphic 14
sociocultural systems 24,41,
127-128,218, graphic 14
subsistence 133,134, graphic 14
transportation systems 24,26
water service graphic 14

Port Wakefield Cannery 46,127

Portlock Bank fur seal concentration 111

Precipitation graphic 2

Puffin, tufted 37,99, graphic 10

Racial conflict 41

Recreational and tourism resources 44, graphic 14

Recreational and tourism resources (impacts)

Alternative I 140-141
Alternative II 170
Alternative IV 193
Alternative V 200-201
Alternative VI 210

Refuge See Specific refuge

Reindeer graphic 9

Rig-Tenders dock 47

Rockfish graphics 3-4

Rookeries graphic 11

Russian Orthodox Church graphic 14

Russian River recreation resources graphic 15

Sablefish graphics 3-4

Salamatof Seafoods, Inc. graphics 3-4

Salinity graphic 2

Salmon graphic 3
chinook graphic 3
chum graphic 3
coho graphic 3
fisheries industry graphic 3
harvest graphic 3
impacts 89-90
pink 22, graphic 3
sockeye graphic 3
sportfishing graphic 3

Sandpipers graphic 10

Santa Barbara blowout, 1969 105-106

Scallop oilspill impacts 82,94-95 weathervane graphics 5-8

Sea ice graphic 2

Sea Lions 106,107,109-110,112 Stellar 38, graphic 11

Seals 105-106 harbor 38,110, graphic 11 northern fur 38, graphic 11 ringed 106-107

Sedimentation 51,163-164, graphic 1, graphic 2

Seismology 34,50,74-75,77 graphic 1

Seldovia
description graphic 14
fisheries industry graphics 3-4
sociocultural systems 41
subsistence graphic 14

Selenie Lagoon Archeological Site SEL-064 138, graphic 13

Semidi Islands Aleutian Canada goose 39,121-122

Seward Fisheries (processing plant) graphics 3-4

Sewer service graphic 14

Shearwaters short-tailed 37, graphic 10 sooty 37, graphic 10

Shelekov, Gregor graphic 13

Shelikof Strait bird concentrations 37, graphic 10 block deletions 212-216 cetaceans, non-endangered 39, graphic 12 coastal habitat 36, graphic 1 description graphic 1 endangered species 39, graphic 12 fisheries industry graphics 3-4, graphics 5-8 geology 34 impacts 216-217 marine mammals 38, graphic 11 meterology 34-35, graphic 2 oceanography 35-36, graphic 2 sociocultural systems 41,128,129 subsistence 41,132-217, graphic 14 terrestrial mammals 39-40, graphic 9

Shellfish commercial graphics 5-8 impacts 22,94-95

Shipwrecks, historic graphic 13

Short-term uses 216-217 definition 216

Shrimp 93-94
coonstripe graphics 5-8
humpback graphics 5-8
pink graphics 5-8
sidestripe graphics 5-8
spot (prawn) graphics 5-8

Shumagin gap (seismology) graphic 1

Shuyak Island sea otters 38, graphic 11 seals 38

Skycover (visibility) graphic 2

Subsistence 41-42, graphic 14 Social factors See Community Infrastructure; defined 42,131, graphic 14 Employment; impacts Population; Alternative I 23-24,131-134 Population (impacts); Alternative II 170 Sociocultural systems Alternative III 26,175 (impacts); Alternative IV 192 Subsistence Alternative V 29,199-200 208-209 Alternative VI Sociocultural systems 41-42,53-54, graphic 14 Sugarloaf Island sea lion rookeries 110, graphic 11 Sociocultural systems (impacts) Alternative I 24,125-130 Support/supply systems 58,59 170 Alternative II Alternative I 12,145 Alternative III 175 Alternative IV 27 Alternative IV 191 28 Alternative V Alternative V 199 30 Alternative VI Alternative VI 208 Surface trajectories 35-36, graphic 2 Socioeconomic studies program 52-54 Surface warping graphic 1 Soldotna base case forecast 54 Swanson River communications graphic 14 development graphic 14 description graphic 14 economy 43 Takli Alder Phase (archeology) education graphic 14 graphic 13 electrical power graphic 14 fire protection graphic 14 Takli Birch Phase (archeology) government graphic 14 graphic 13 health services graphic 14 housing graphic 14 Takli Cottonwood Phase (archeology) land use 146 graphic 13 police protection graphic 14 population 124,125, graphic 14 Takli Island Archeological District sewer service graphic 14 graphic 13 sociocultural systems 128 water service graphic 14 Talnik Point terminal 10,11,12-13,60,146 Solvents 58 Tectonics graphic 1 Spillover land use impacts 146-147 Temperature graphic 2 Sportfishing graphics 3-4 Terrestrial mammals graphic 9 See also Commercial and sportfish (impacts) Terrestrial mammals (impacts) 122-124 Alternative I Spray ice graphic 2 Alternative II 169 Alternative III 174 Sterling Highway graphic 14, Alternative IV 190 graphic 15 Alternative V 198 Alternative VI 207

Terror Lake Hydroelectric project graphic 14 Three Saints Bay KOD-124 Archeological District graphic 13 Three Saints Bay (archeology) graphic 13 Three Saints Bay Russian Settlements graphic 13 Tidal waves See Tsunamis Tides and currents graphic 2 Trading Bay hydrocarbons graphic 2 Trail River recreation resources graphic 15 Transport studies 51 Transportation systems 46-47,53 Transportation systems (impacts) Alternative I 24-25,149-156 Alternative II 170-171 Alternative III 176 Alternative IV 193-194 Alternative V 201 Alternative VI 210-211 Trinity Islands sea otters 38, graphic 11 Tsunamis 74-75,76, graphic 1 Tugidak Island seals 38,110 Turnstones graphic 10

Tuxedni National Wildlife Range (NWR)

Undiscovered recoverable resources

See Oil and gas resource

estimates

air quality 49

Visual resources 44, graphic 15 irreversible commitment 218 Visual resources (impacts) Alternative I 140-141 Alternative II 170 Alternative III 176 Alternative IV 193 Alternative V 200-201 Alternative VI 210 Volcanoes 34,76, graphic 1 See also Specific volcano Water quality 48-49 Water quality (impacts) Alternative I 161-164 Alternative II 171 Alternative III 179 Alternative IV 194 Alternative V 201 Alternative VI 211 Water service (utility) graphic 14 Waterforms graphic 15 Waves and swells graphic 2 Weather See Meterology Wells exploration and delineation 56 Alternative I 12 Alternative IV 27 Alternative V 28 Alternative VI 30 production and service 60 Alternative I 13 Whales beaked Bering Sea graphic 12 giant bottlenose graphic 12 goose-beaked graphic 12 beluga 39, graphic 12

United States Coast Guard 73-74,

graphic 14

Whales Cont'd.
blue 39, graphic 12
endangered species 115-117,219,
222-223, graphic 12
fin 23,39, graphic 12
gray 23,39
humpback 23,39, graphic 12
killer 39, graphic 12
minke 39, graphic 12
right 39, graphic 12
right 39, graphic 12
sei 23,39, graphic 12
sperm 39, graphic 12
sperm 39, graphic 12
worse case 219,222-223
See also Cetaceans, nonendangered (impacts)

Whitney-Fidalgo Fisheries (processing plant) graphics 3-4

Wilderness resources 44, graphic 15 irreversible commitment 218

Wilderness resources (impacts)

Alternative I 140-141
Alternative II 170
Alternative III 176
Alternative IV 193
Alternative V 200-201

Alternative VI 210

Winds and storms graphic 2

Wolf 40,122

Wolverine 40,122, graphic 9

Wood products industry 55

World Seafood Corporation 79

Worst case analysis 219-223 definition 219

Yakataga shelf exploratory drilling 2

Yukon Island Main Site SEL-001 138

ACRONYM GLOSSARY

AADT Average Annual Daily Traffic

AAI Alaska Aeronautical Industries

ACMA Alaska Coastal Management Act

ACMP Alaska Coastal Management Program

ACORP Alaska Cooperative Oilspill Response Planning Committee

ADEC Alaska Department of Environmental Conservation

ADF&G Alaska Department of Fish and Game

AHRS Alaska Heritage Resource Survey

AMSA Area Meriting Special Attention

ANCSA Alaska Native Claims Settlement Act

AQCR Air Quality Control Region

ARCO Atlantic Richfield Company

AS Alaska Statute

BAST Best Available and Safety Technology

bbls barrels

Bcf billion cubic feet

BLM Bureau of Land Management

BPTCA or BPT best practical control technology currently available

CETA Comprehensive Employment Training Act

CEQ Council in Environmental Quality

cf cubic feet

CFR Code of Federal Regulations

CI Cook Inlet

CINA Cook Inlet Native Association

CIRI Cook Inlet Regional Corporation

CIRO Cook Inlet Response Organization

CMP Coastal Management Program

CNI Chugach Natives, Inc.

CO carbon monoxide

COE Corps of Engineers

CZMA Coastal Zone Management Act

DCM Deputy Conservation Manager

DEC Department of Environmental Conservation

DEIS draft environmental impact statement

DOC Department of Commerce

DOE Department of Energy

DOI Department of the Interior

DOT Department of Transportation

DNR Department of Natural Resources

EA Environment Assessment

ECm median effective concentration

EIS environmental impact statement

ELW extreme low water

EPA Environmental Protection Act

FAA Federal Aviation Administration

FEIS final environmental impact statement

FERC Federal Energy Regulatory Commission

FLMPA Federal Land Management and Policy Act

FR Federal Register

FWS Fish and Wildlife Service

FY fiscal year

GOACO Gulf of Alaska Cleanup Organization

GS Geologic Survey

HCRS Heritage Conservation and Recreation Service

IPHC International Pacific Halibut Commission

IPP Intergovernmental Planning Program

IRA Indian Reorganization Act

ISER Institute of Social and Economic Research

KANA Kodiak Area Native Association

KEA Kodiak Electric Association

KIB Kodiak Island Borough

KISI Kodiak Island Seafood, Inc.

km kilometer

KPB Kenai Peninsula Borough

1b pound

LMW low molecular weight

LRA List of Recommended Areas

mi mile

MLLW mean lower low water

MMbbls million barrels

MMcf million cubic feet

MMPA Marine Mammal Protection Act

mph miles per hour

MSL mean sea level

NAS National Academy of Sciences

ND none detectable

NEFCO New England Fish Company

NEPA National Environmental Protection Act

NGPA Natural Gas Policy Act

NMFS National Marine Fisheries Service

NOAA National Oceanic and Atmospheric Administration

NOX nitrogen dioxide

NPDES National Pollution Discharge Elimination System

NWR National Wildlife Refuge

OCS Outer Continental Shelf

OCSEAP Outer Continental Shelf Environmental Assessment Program

OCSLAA Outer Continental Shelf Lands Act

OEDP Overall Economic Development Planning

OSC On Scene Coordinator

ppb parts per billion

ppm parts per million

PSD Prevention of Significant Deterioration

REIL runway and identification lights

ROW right-of-way

RRT Regional Response Team

SESP socioeconomic studies program

SHPO State Historic Preservation Office

SID Secretarial Issue Document

SSC Scientific Support Coordinator

TAMS Tippets, Abbett, McCarthy and Stratton Engineers

TLm medium tolerance limit

TMP Transportation Management Plan

USF&WS United States Fish and Wildlife Service

	USGS	United States Geological Survey
6 7	USDI	United States Department of the Interior
	VASI	Visual approach slope indicator
	WSF	water soluable fractions
•	yd	yard