

Appendix A.

Detailed listing of non-fishing activities that may adversely impact habitat, including EFH, of managed species.

Physical Alterations

Hydrologic modifications

- Navigation channel construction/expansion
- Canals and ditches
- Dams and water control structures
 - Hydropower operations
 - Flood control
 - Water supply
 - Navigation
 - Water diversion
- Levees, embankments, and impoundments
 - Water management
 - Wildlife Management
 - Aquaculture
- Utility crossings and right-of-ways
- Roads, causeways, and bridges
- Alteration of freshwater inflow
- Ground water withdrawals
- Interbasin transfers/surface water withdrawals

Dredged material disposal and fills

- Open water disposal
- Placement of confined/unconfined material in wetlands

Excavation

- Removal/alteration of wetlands and submerged bottoms

Minerals exploration and mining

- Removal/alteration of wetlands and submerged bottoms

Placement of structures in the coastal environment

- Industrial and Commercial

Petroleum exploration and production platform operations

- Port development waterfront facilities
- Municipal wastewater outfall structures

Navigation

- Breakwaters

- Jetties
- Anchorage/mooring areas

Recreational/Environmental Structures

- Artificial reefs
- Fishing piers

Beach Erosion Control Structures

- Jetties
- Groins
- Bulkheads
- Special purpose structures

Ocean dumping

- Dredged materials
- Hazardous materials
- Municipal solid waste
- Municipal wastewater/sludge

Introduction of exotic species

- Pet and agriculture (including mariculture) related industries
- Ship ballast water releases
- Incidental relocation on vessels, machinery, and animals

Watershed land use practices

- Agriculture
- Silviculture

Erosion/Subsidence

- Channel and shoreline erosion from vessel wakes.
- Shoreline erosion caused by manmade structures
 - Jetties
 - Groins
 - Breakwaters
- Faulting induced by ground water extraction
- Relative sea level rise
- Reduced sediment renourishment
- Barrier islands and shorelines

Recreational boating impacts

- Propeller scarring
- Anchor scarring
- Grounding
- Trash
- Oil and gasoline spillage

Boat wakes

Military Facilities

Degaussing facilities

Ordnance disposal areas

Special training areas, bombing ranges

Water Quality Issues

Non-point-source Pollution (Percent)

Agriculture

Urbanization

Silviculture

Point-source Pollution (PS)

Industrial discharges

Municipal wastewater discharges

Urban stormwater discharges

Vessel wastewater discharges

Thermal effluents from electric power generation facilities

Oil spills

Hydrocarbon pollution

Toxic substances in cleaning materials

Chemical contaminant spills

Air emissions

Ocean dumping

Salinity

Turbidity

Recreational boating impacts

Fuel/oil contamination

Overboard discharges

Prop and anchor damage to reefs/bottoms