

**California Marine Life
Protection Act Initiative**

***Regional Profile of the MLPA
North Coast Study Region***

***(Alder Creek near Point Arena to the California-
Oregon Border)***

November 2, 2009 DRAFT

DRAFT for staff review only

Contents

1	Introduction.....	1
2	Description of the MLPA North Coast Study Region.....	3
3	Ecological Setting.....	7
3.1	Marine Habitats and Communities.....	7
3.1.1	Depth Categories.....	9
3.1.2	Intertidal Zones.....	10
3.1.3	Estuaries and Lagoons.....	13
3.1.4	Seagrass Beds.....	21
3.1.5	Kelp Forests.....	22
3.1.6	Hard Bottom/Rocky Reefs.....	24
3.1.7	Sandy/Soft bottoms.....	25
3.1.8	Underwater Pinnacles.....	25
3.1.9	Submarine Canyons.....	25
3.1.10	Offshore Rocks and Islands.....	26
3.1.11	Oceanographic Habitats PLACEHOLDER.....	26
3.2	Important Regional Species.....	26
3.2.1	Depleted and Overfished Species PLACEHOLDER.....	27
3.2.2	Fished Species of Interest PLACEHOLDER.....	27
3.2.3	Special Status Species.....	27
4	Land-Sea Interactions.....	39
4.1	Ecological Linkages.....	39
4.2	Coastal Watersheds and Land Use in Study Region.....	41
4.3	Coastal Water Quality.....	41
4.3.1	Point Sources.....	42
4.3.2	Nonpoint Sources.....	43
4.3.3	Impaired Water Bodies in the North Coast Study Region.....	45
4.3.4	Existing Water Quality Protection Designations.....	47
4.3.5	Coastal Energy Projects.....	49
5	Socioeconomic Setting.....	55
5.1	Coastal Counties.....	56
5.1.1	Del Norte County.....	56
5.1.2	Humboldt County.....	57
5.1.3	Mendocino County.....	58
5.1.4	Population Projections.....	59
5.2	Commercial Fisheries.....	60
5.2.1	Port Complexes.....	61
5.2.2	Description of Commercial Fisheries.....	68
5.2.3	Commercial Landings.....	69
5.3	Kelp and Aquaculture Leases.....	70
5.3.1	Synopsis of Kelp Bed Lease Status, Kelp Harvest Regulations, and Algae Harvest.....	70
5.3.2	Edible Algae Harvest.....	71
5.3.3	Aquaculture and Leases on State Water Bottoms PLACEHOLDER.....	72
5.4	Recreational Fisheries.....	72

5.4.1	Modes of Fishing	73
5.4.2	Recreational Fishing Effort	76
5.4.3	Spatial Distribution of Fishing Effort PLACEHOLDER	77
5.4.4	Recreational Fishery Profile PLACEHOLDER	77
5.4.5	Recreational and Commercial Fisheries PLACEHOLDER	77
5.5	Coastal Tourism	78
5.6	Non-consumptive Uses	80
5.6.1	Recreational Beach Use	81
5.6.2	Boating.....	84
5.6.3	Other Recreational Activities	87
5.7	Dredging and Vessel Traffic.....	89
5.7.1	Vessel Accidents	89
5.7.2	State and Federal Legislation.....	90
5.7.3	Navigation Designations and Organizations	90
5.8	Native American Coastal Communities.....	91
5.8.1	Native American Resource Use	91
6	Academic Institutions, Research, Public Outreach and Education.....	97
6.1	Major Marine Research Institutions in the North Coast Study Region.....	97
6.1.1	Scientific Research and Collecting	97
6.1.2	Research and Monitoring Programs.....	99
6.2	Public Education and Outreach.....	102
7	Jurisdiction and Management	107
7.1	Federal, State, Local and Native American Jurisdiction and Programs.....	107
7.1.1	Federal Agencies and Programs	108
7.1.2	State Agencies and Programs.....	110
7.1.3	Local Government Programs.....	112
7.1.4	Native American Jurisdiction and Treaty Rights.....	113
8	Existing MPAs and Coastal Protected Areas.....	115
8.1	Existing State Marine Protected Areas in the Study Region.....	115
8.2	Marine Managed Areas and Other Fishery Closures.....	116
8.2.1	Federally Managed Areas	116
8.2.2	Fishery Closures Within and Adjacent to the North Coast Study Region	116
8.3	Terrestrial Protected Areas in Coastal Watersheds.....	117
8.4	Marine Protected Areas in Oregon.....	117
9	Conclusion.....	119