

1 4.11 ENVIRONMENTAL JUSTICE

2 4.11.1 Introduction

3 On February 11, 1994, President Clinton issued an “Executive Order on Federal Actions
4 to Address Environmental Justice in Minority Populations and Low-Income Populations”
5 designed to focus attention on environmental and human health conditions among
6 minority populations and low-income populations, and promote nondiscrimination in
7 programs and projects substantially affecting human health and the environment (White
8 House 1994). The order directs specific attention to issues that derive in general from
9 the equal protection clause of the U.S. Constitution and Title VI of the 1964 Civil Rights
10 Act (nondiscrimination in programs and activities funded with Federal money). The
11 order requires the EPA and all other Federal agencies (as well as state agencies
12 receiving Federal funds) to develop strategies to address this issue. The agencies are
13 required to identify and address any disproportionately high and adverse human health
14 or environmental effects of their programs, policies, and activities on minority and/or
15 low-income populations.

16 Federal Guidance

17 In 1997, the EPA’s Office of Environmental Justice released the *Environmental Justice*
18 *Implementation Plan*, supplementing the EPA environmental justice strategy and
19 providing a framework for developing specific plans and guidance for implementing
20 Executive Order 12898. Federal agencies received a framework for the assessment of
21 environmental justice in the EPA’s *Guidance for Incorporating Environmental Justice*
22 *Concerns* in the EPA’s *NEPA Compliance Analysis* in 1998. This approach emphasizes
23 the importance of selecting an analytical process appropriate to the unique
24 circumstances of the potentially affected populations and stresses the use of
25 U.S. Census data for analysis. While Executive Order 12898 is not a part of the NEPA
26 itself, environmental justice analysis has become a part of the federally guided process
27 of analyzing impacts of undertakings subject to the NEPA.

28 State Guidance

29 While many state agencies have utilized the EPA’s *Environmental Justice*
30 *Implementation Plan* as a basis for the development of their own environmental justice
31 strategies and policies, at this time the majority of California state agencies do not have
32 specific guidance for incorporation of environmental justice assessment into their
33 routine impact assessment processes. Environmental justice analysis by State
34 agencies tends to follow the Federal lead but specifically derives its legal and regulatory
35 framework from the California Constitution (equal protection); Government Code

1 Section 65040.12 (defines environmental justice and designates the Office of Planning
2 and Research [OPR] as the coordinator for the State environmental justice program);
3 Government Code Section 65040.2 (requires the OPR to develop environmental justice
4 guidelines for local General Plans); and Public Resources Code 71110 et seq.
5 (establishes the environmental justice program in the California Environmental
6 Protection Agency with specific requirements for developing environmental justice
7 policy, strategy, and guidelines). At its most general level, California law defines
8 environmental justice as "... the fair treatment of people of all races, cultures, and
9 income with respect to the development, adoption, implementation, and enforcement of
10 environmental laws, regulations, and policies" (Gov Code Section 65040.12 and Public
11 Resources Code Section 72000). While not a part of the CEQA itself, environmental
12 justice analysis has become a part of the State-guided process of analyzing impacts of
13 undertakings subject to the CEQA.

14 **California State Lands Commission Policy**

15 The CSLC has developed and adopted a specific Environmental Justice Policy to
16 ensure equity and fairness in its own processes and procedures. The CSLC adopted
17 an amended Environmental Justice Policy on October 1, 2002, to ensure that
18 "Environmental Justice is an essential consideration in the Commission's processes,
19 decisions and programs and that all people who live in California have a meaningful
20 way to participate in these activities." The policy stresses equitable treatment of all
21 members of the public and commits to considering environmental justice in its
22 processes, decision making, and regulatory affairs. This is implemented, in part,
23 through identification of, and communication with, relevant populations that could be
24 adversely and disproportionately impacted by CSLC projects or programs, and by
25 ensuring that a range of reasonable alternatives is identified that would minimize or
26 eliminate environmental impacts affecting such populations. This discussion is provided
27 in this document consistent with and in furtherance of the Commission's Environmental
28 Justice Policy. The staff of the CSLC is required to report back to the Commission on
29 how environmental justice is integrated into its programs, processes, and activities
30 (CSLC 2002).

31 **Methodology**

32 The CSLC environmental justice policy does not provide a specific methodology for
33 conducting project-specific environmental justice analysis. In the absence of specific
34 CSLC guidance, this section of the EIR utilizes relevant portions of the California
35 Energy Commission (CEC) staff's environmental justice methodology (CEC

1 methodology has been chosen as the Proposed Project is specifically linked to an
2 energy generating station).

3 The relevant portions of the CEC guidance applied to this analysis include demographic
4 screening and impact assessment. For demographic screening, census block data are
5 used to develop a demographic screening map covering a 6-mile (10-km) radius around
6 the Proposed Project. During impact assessment, environmental, public health, and
7 safety disciplines define areas of potential impact within the 6-mile (10-km) radius. The
8 demographic screening map is then used to identify populations, or pockets, of greater
9 than 50 percent minority populations (as defined by “race” [all categories other than
10 “white”] or “ethnicity” [only the combined “Hispanic or Latino” category] under
11 U.S. Census terminology) or low-income populations (as defined by “poverty” under
12 U.S. Census terminology) within each impact area. Impact areas within such
13 populations or pockets are considered to have potential environmental justice issues.

14 For the impact assessment itself, existing settings are described and any relevant
15 “unique circumstances” of the affected populations or areas are analyzed. In addition to
16 standard impact analysis, environmental justice analysis determines whether the project
17 would create an unavoidable significant adverse impact on the affected population(s)
18 and, if so, considers whether the impact would be disproportionate.

19 Following the described guidance, this section of the EIR analyzes the distributional
20 patterns of minority and low-income populations on a regional basis and characterizes
21 the distribution of such populations adjacent to the project area. This analysis mainly
22 focuses on whether the Proposed Project’s impacts would have the potential to result in
23 disproportionately high and adverse impacts to minority population(s) and/or low-income
24 populations, thus creating an environmental justice impact.

25 **4.11.2 Description of Resource/Environmental Setting**

26 The project area includes the communities and populations in the immediate vicinity of
27 the Proposed Project, which is located offshore of MCB Camp Pendleton and SONGS
28 Unit 1, just south of the Orange County/San Diego County line. Along the coast to the
29 north (approximately 2 miles [3 km] from the Proposed Project area at its nearest point)
30 is the city of San Clemente within Orange County; MCB Camp Pendleton in San Diego
31 County extends inland (east) and south of the project area. The nearest civilian
32 community to the south along the coast is the city of Oceanside in San Diego County,
33 approximately 14 miles (23 km) from the site of the Proposed Project. The nearest
34 nonmilitary lands to the east of the Proposed Project are within an unincorporated
35 portion of San Diego County, about 10 miles (16 km) from the Proposed Project area.

1 **MCB Camp Pendleton**

2 MCB Camp Pendleton is located in an unincorporated portion of northern San Diego
3 County between the city of San Clemente in Orange County to the north and the city of
4 Oceanside in San Diego County to the south. (A small, unoccupied portion of the Base
5 is located within the boundaries of Orange County, but, for the purposes of this analysis,
6 MCB Camp Pendleton will be addressed as part of San Diego County.) The Base
7 encompasses 250,000 acres (101,173 ha) and includes over 17 miles (27.3 km) of
8 coastline. It is the largest amphibious assault training facility in the country and
9 provides training for Marine Corps, Army, and Navy personnel as well as national,
10 State, and local agencies.

11 In 2000, MCB Camp Pendleton housed a total population of 36,146, including families
12 living in base housing and active duty personnel living in barracks. While the vast
13 majority of employment on base is in the form of uniformed military personnel, there is a
14 substantial amount of civilian employment on base. A significant number of Base
15 residents, including dependents of active duty military personnel, are employed in the
16 region. It is estimated that “over 60,000 military and civilian personnel work aboard the
17 base every day” (USMC 2004). Of the 3,412 occupied housing units on the base in
18 2000, 99 percent were classified by the Census as “renter occupied,” consistent with the
19 fact that housing on the base is governmentally owned.

20 While for most purposes the U.S. Census treats MCB Camp Pendleton as a single
21 block group, in 2000 there were two “Census Designated Places” (utilized for population
22 concentrations outside of incorporated communities) on the base for which detailed
23 demographic data are available: Camp Pendleton North Census Designated Place
24 (CDP) and Camp Pendleton South CDP. The detailed data from these two CDPs may
25 be taken as a proxy for demographics of the larger base as a whole. In 2000, MCB
26 Camp Pendleton North CDP had a total population of 8,197. In terms of its minority
27 population component, 32.9 percent was non-white and 22.6 percent was Hispanic or
28 Latino. The population of the Camp Pendleton South CDP in 2000 was 8,854, of which
29 37.6 percent was non-white and 19.1 percent was Hispanic or Latino individuals. These
30 figures indicate that the overall minority population of MCB Camp Pendleton is roughly
31 similar to San Diego County as a whole, although the county had a higher Hispanic or
32 Latino population component. For San Diego County as a whole, 33.5 percent of the
33 total 2000 population (of 2.8 million persons) was non-white and 26.7 percent was
34 Hispanic or Latino. By comparison, 40.5 percent of California’s 2000 population [of 33.9
35 million] was non-white and 32.4 percent was Hispanic or Latino.

1 There are, of course, other more marked differences between the populations of MCB
2 Camp Pendleton and San Diego County as a whole, due to the fact that the population
3 on the base is largely transient due to the military nature of the installation.
4 Furthermore, the resident population is drawn from across the United States. For
5 example, the Camp Pendleton North CDP population is almost 70 percent male,
6 compared to about 50 percent for the County, and about 90 percent of the population
7 over 16 years of age is in the labor force, compared to about 65 percent for the County.

8 Median household incomes for the two Camp Pendleton CDPs were \$28,558 and
9 \$31,998 in 2000; whereas, the median household income for San Diego county was
10 \$47,067, reflecting differences between military and civilian employment. By
11 comparison, median household income for California in 2000 was \$47,493. Statistics
12 for families below poverty level for both Camp Pendleton CDPs were comparable to
13 those for San Diego County as a whole (the CDPs and the county were all between 8
14 and 9 percent in 1999, the year utilized in the 2000 census). Fewer individuals,
15 however, were living below the poverty level on MCB Camp Pendleton (between 8 and
16 10 percent of the total population in 1999, depending on the area) than was the case for
17 the county as a whole (over 12 percent in 1999). For California as a whole, 10.6
18 percent of families and 14.2 percent of individuals were living below poverty in 1999.

19 These data would suggest that MCB Camp Pendleton as a “community” does not
20 encompass a disproportionately large minority population nor a disproportionately large
21 low-income population in comparison to either County or State averages. Data at the
22 census block group level, to allow a consideration of population “pockets” within a
23 6-mile (10-km) radius of the Proposed Project area, are presented in Figures 4.11-1 and
24 4.11-2. Population data from MCB Camp Pendleton within a 6-mile (10-km) radius falls
25 within a single block group. In terms of percentage of total minority population (all
26 groups other than white non-Hispanic or Latino), this block group was 43.1 percent
27 minority in 2000 (Figure 4.11-1). This is below the 50 percent threshold for
28 consideration as a high minority area and is less than the figure of 45.0 percent minority
29 population for San Diego County as a whole. In terms of low-income population, 8.4
30 percent of individuals in this block group live below the poverty level (Figure 4.11-2),
31 which is substantially less than the 12.4 percent figure for San Diego County as a
32 whole. These data suggest that there is little or no potential for localized environmental
33 justice issues for residential populations or population pockets within the 6-mile (10-km)
34 radius geographic threshold for environmental justice issue screening.

- 1 Figure 4.11-1 Minority Population
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2 Figure 4.11-2 Individuals Below Poverty

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1 City of San Clemente

2 San Clemente is a coastal community in southern Orange County with a U.S. Census
3 population of 49,936 in 2000. A large percentage of the City's development is
4 residential, with the larger portion of local employment supporting commercial and retail
5 businesses, and a majority of the local resident labor force working outside of the
6 community. In 2000, 26,016 residents of San Clemente were in the labor force. Of the
7 19,395 occupied housing units in the community in 2000, 62.4 percent were owner
8 occupied and 37.4 percent were renter occupied.

9 Development along the shore of San Clemente includes several beaches and a fishing
10 pier managed by the City. San Clemente State Beach is also within the City boundaries
11 but is managed by the CDPR. This is a popular recreation area that supports related
12 retail businesses in the community. In addition, there are a number of exclusive, gated
13 housing developments along the coastal bluffs adjacent to the Proposed Project lease
14 area.

15 In terms of its minority population, San Clemente is only 12.1 percent non-white
16 (compared to 35.2 percent for Orange County and 40.5 percent for California) and only
17 15.9 percent Hispanic or Latino (compared to 30.8 percent for Orange County and 32.4
18 percent for California). No single non-white population represents 3 percent or more of
19 the total community population. While Hispanic or Latino individuals represent a larger
20 proportion of the population, only one census tract in the community has a Hispanic or
21 Latino population that comprises over one-half (51.4 percent) of the total population of
22 that tract.

23 Median household income for San Clemente was \$63,507 in 2000, in comparison to a
24 median household income for Orange County of \$58,820, and \$47,493 for California.
25 About 4.6 percent of San Clemente families were living below the poverty level in 1999,
26 compared to 7.0 percent of families in Orange County overall (and 10.6 percent of
27 families in the state). About 7.6 percent of individuals in San Clemente were living
28 below the poverty level in 1999, compared to 10.3 percent of individuals in the county
29 (and 14.2 percent of individuals in the state). Of all the census tracts within the city of
30 San Clemente, only one has a greater proportion of families living below the poverty
31 level than the county or state averages. This same tract also has a greater proportion
32 of individuals living below the poverty level than either the County or State averages. It
33 is also the same tract that has a minority population greater than 50 percent of the total
34 population of the tract.

1 These data would suggest that San Clemente does not encompass a disproportionately
2 large minority population nor a disproportionately large low-income population in
3 comparison to either County or State averages. Indeed, San Clemente has relatively
4 few minority or low-income residents compared to either the County or the State. Data
5 at the census block group level, to allow a consideration of population “pockets” within a
6 6-mile (10 km) radius of the Proposed Project area, are presented in Figures 4.11-1 and
7 4.11-2. As shown in these figures, population data from San Clemente within a 6-mile
8 (10-km) radius fall within 25 block groups. In terms of percentage of total minority
9 population, these block groups ranged from 9.2 percent and 58.9 percent minority in
10 2000 (Figure 4.11-1). Only three block groups ranged between 51 percent and 60
11 percent minority, above the 50 percent threshold for consideration as a high minority
12 area. No block groups had over 60 percent total minority population. Only these three
13 census block groups had minority population components higher than 48.7 percent, the
14 equivalent figure for Orange County as a whole. All three of these relatively high
15 minority census block groups are geographically separated from the project area by
16 census block groups that do not have high minority populations.

17 The San Clemente block groups within a 6-mile (10-km) radius of the project ranged
18 from zero to 24.1 percent of individuals living below poverty level in any given block
19 group (Figure 4.11-2). A total of nine census block groups had more than 10.3 percent
20 of individuals living below the poverty level, which is the average for Orange County as
21 a whole. As shown in Figure 4.11-2, three of these block groups were in the range of
22 10.1 to 12.5 percent of individuals living in poverty, five had between 15.1 and 17.5
23 percent, and only one had over 17.6 percent. All the relatively low-income block groups
24 are geographically separated from the project area by census block groups with lower
25 percentages of persons living below the poverty level. Together, these data for
26 San Clemente suggest that there is little potential for localized environmental justice
27 issues for residential populations or population pockets within the 6-mile (10-km) radius
28 geographic threshold for environmental justice issue screening.

29 **Unique Socioeconomic Circumstances/Population: Commercial Fishing**

30 As noted in the project description, the Proposed Project would have few
31 socioeconomic impacts in the traditional sense. The project would generate no
32 significant local employment, as specialized crews already employed by existing
33 contracting firms will perform the offshore work. Similarly, support service work, such
34 as performed offshore by tugboat companies, would rely on existing entities and
35 employees from outside the immediate area. There is some variation by alternative in
36 the degree of shore support, however, as described in Section 4.11.6.

1 Due to the offshore location of the Proposed Project, it may have direct impacts on a
2 narrow sector of the offshore linked economy – those who pursue commercial fishing in
3 the immediate vicinity of the project area. Commercial fishing may be disrupted by
4 temporary exclusion of fishing effort from the project area during active work periods,
5 including a safety buffer zone around working equipment. Direct impacts to the
6 environment, such as a turbidity plume extending out of the immediate project area, or
7 sediment deposition on commercially productive habitat, may affect fishing success.

8 While no precise data are kept, based on known patterns of charter sport fishing boats
9 in the region, very little recreational fishing is assumed to occur in the immediate vicinity
10 of the Proposed Project, as these vessels tend to fish further offshore and in kelp beds.
11 Commercial fisheries data suggest, however, that the area has been used successfully
12 by commercial fishermen.

13 CDFG keeps data on the volume and value by species caught by commercial fishermen
14 by location using a “fish block” system, comprised of a series of 10-minute latitude by
15 10-minute longitude numbered grids. The data reported by CDFG are provided by the
16 dockside fish buyers who record the fish block number provided to them by the
17 individual fishermen at the time of landing. The accuracy of the location data is
18 dependent upon a number of factors; however, due to the long-term use of the fish
19 block system, the data provide a general characterization of the catch within a given
20 area.

21 As shown in Figure 4.11-3, the Proposed Project area falls within Fish Block 756. Table
22 4.11-1 presents summary catch data by species by year for this block for the years
23 1998-2003 (preliminary). As shown, the major commercially valuable species taken
24 from this block include lobster, crabs, mackerel, prawns, sardines, and urchins. A
25 number of these species are highly variable by year in terms of overall economic
26 contribution. Several other species are reported harvested in one or more years during
27 this period, but none were valued over \$4,000 in any given year, and most were valued
28 at far less for all years, with the exception of a one-time squid catch of almost \$14,000
29 in 2002. Lobster dominates a number of years in value, but the mackerel and sardine
30 purse seine fisheries farther offshore produced relatively high values in specific years.
31 In addition to the commercial fish species noted in the table, occasional kelp harvesting
32 occurs in the existing kelp beds around San Onofre. There are, however, no kelp beds
33 in the immediate vicinity of the Proposed Project.

1 Figure 4.11-3 Fish Block 756

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1 **Table 4.11-1. Value of Commercial Fishing Catch by Species, Fish Block No. 756,**
 2 **1998-2002 and 2003 (preliminary)**

Year	All Species	Lobster	Crab	Mackerel	Prawns	Sardines	Urchins	Other*
2003 (prelim)	\$212,024	\$188,208	\$7,657	\$139	\$3,740	\$3,680	\$6,783	\$1,817
2002	\$161,936	\$122,402	\$4,918	\$0	\$4,840	\$7,107	\$7,688	\$14,981
2001	\$264,174	\$125,844	\$9,252	\$6,455	\$8,947	\$102,527	\$3,603	\$7,546
2000	\$473,467	\$106,561	\$5,096	\$98,611	\$1,343	\$213,354	\$36,996	\$11,507
1999	\$340,301	\$71,347	\$5,562	\$145,854	\$14,620	\$84,772	\$6,055	\$11,953
1998	\$167,011	\$79,849	\$4,641	\$34,470	\$18,346	\$15,831	\$8,818	\$5,056

* Several other species are reported harvested in one or more years during this period, but none were valued over \$4,000 in any given year, and most were valued at far less for all years, with the exception of a one-time squid catch of almost \$14,000 in 2002.

3

4 Estimates by knowledgeable individuals regarding the local fishery (K. Nielsen, personal
 5 communication 10/22/04; J. Guth, personal communication 10/27/04) suggest that the
 6 only major commercial fishery taking place in the relatively shallow (approximately 30
 7 feet [9.1 m] deep or less at MLLW), nearshore (within 3,200 feet [975 m] of the beach)
 8 waters in the immediate vicinity of the Proposed Project is the lobster fishery. Other
 9 important fisheries in Fish Block 756, including the crab fishery, take place in water
 10 deeper than those in the immediate Proposed Project area. Examples of the fisheries
 11 that take place in deeper water are the crab (rock and spider) trap fishery, the mackerel
 12 and sardine purse seine fisheries, the prawn trap fishery, and a number of hook and line
 13 and longline fisheries that are pursued intermittently in this area. A small-scale live fish
 14 trap fishery exists in approximately the same area as the lobster fishery, but this fishery
 15 is very small and thus may be more flexible than the lobster fishery due to less
 16 competitive fishing pressure. An urchin dive fishery also occurs in the area, but
 17 reportedly not in the immediate project area, or on a regular basis.

18 Lobster traps in this area are reportedly typically fished in the 30-foot (9-m) to 50-foot
 19 (15-m) depth range, but this is highly variable with habitat type, and traps in the vicinity
 20 of the project may be set shallower than 10 feet (3 m) just outside the surf zone or out to
 21 about the 70-foot (21-m) depth range, depending on ocean conditions and patterns of
 22 catch success (K. Nielsen, personal communication 10/22/04). While lobster trapping
 23 elsewhere in southern California may take place in waters as deep as 200 to 300 feet
 24 (60 to 90 m), the significant lack of areas of hard bottom and structure beyond the 60- to
 25 65-foot (18- to 20-m) depth range in the area offshore of the Proposed Project acts an
 26 effective local depth restriction for successful lobster trapping (J. Guth, personal
 27 communication 10/27/04). The conduits are buried beneath the seafloor, with water

1 depths that range from about 10 feet (3 m) to 30 feet (9.1 m) below the ocean surface.
2 The terminal structures, protective riprap, and naturally occurring rocky features around
3 the conduits are considered good lobster habitat, and those areas are reportedly
4 specifically targeted for lobster trapping.

5 No commercial harvest statistics are kept for areas smaller than the fish block, so it is
6 not possible to use existing data to quantify fishing effort in the immediate project
7 vicinity. It is estimated, however, that relatively few fishermen target lobster specifically
8 in the project area, but these reportedly include at least some of the region's highest
9 producing individuals. It is estimated that approximately 6 to 10 individuals trap lobster
10 in the immediate vicinity of the Proposed Project on a regular basis, some working from
11 Oceanside Harbor (most of the rest of the Oceanside fleet fish further south), others
12 working out of the Dana Point harbor area to the north (most of the rest of the Dana
13 Point fleet fish further north), and at least one working out of both harbors (K. Nielsen,
14 personal communication 10/22/04; J. Guth, personal communication 10/27/04). Fishing
15 grounds are not formally assigned to individuals, but individual use patterns informally
16 established over time may come to be respected by other fishermen and serve to
17 distribute fishing effort. The Proposed Project area, however, is an area of intense, if
18 localized, activity with a good deal of gear concentrated in a relatively small area that
19 has come to be known as particularly productive on a sustained basis (J. Guth, personal
20 communication 10/27/04). No demographic data are available for the commercial
21 fishermen working the Proposed Project area, but informal knowledge of the industry
22 does not suggest that participants are disproportionately drawn from either minority or
23 low-income populations.

24 The proportion of Fish Block 756 within the project area is quite small. The total area of
25 the block is 24,032.7 acres (9,725.8 ha), and the total area of a 350-foot (106.6-m)
26 buffer around the existing conduits and terminal structures is approximately 58.7 acres
27 (23.8 ha). This is only about two-tenths of 1 percent of the total area of the fish block.
28 A 750-foot (228.4-m) buffer around the conduits and terminal structures would
29 encompass about 137.0 acres (55.5 ha), which is about sixth-tenths of 1 percent of the
30 total area of the fish block. The project area represents a greater proportion of the
31 productive lobster fishing area than is obvious by a simple area calculation. As shown
32 in Figure 4.11-3, about half of Fish Block 756 contains water deeper than 65 feet
33 (20 m), beyond the typical local lobster trapping depth. Fish Block 756 contains about
34 12,052.5 acres (4,877.5 ha) shallower than 65 feet (20 m), or just over 50 percent of the
35 total block, which would represent total typical lobster fishing area, based on depth
36 alone. The 350-foot (106.6-m) buffer area around the conduits would then represent
37 only about one-half of 1 percent of the block area shallower than 65 feet (20 m) of

1 depth, while a 750-foot (228.4-m) buffer would represent about 1.1 percent of the total
2 block area shallower than 65 feet (20 m). Within the overall potential fishing area based
3 on depth, lobster fishing is concentrated around a particular bottom structure, which is
4 not evenly distributed along this or other areas of the coast. The project area has a
5 bottom structure considered conducive to lobster trapping success and so is a locus of
6 trapping effort above what would be predicted from spatial and depth relationships
7 alone.

8 Figure 4.11-4 displays the type and distribution of seabed features in the immediate
9 project area within 350-foot (106.6-m), 550-foot (167.5-m), and 750-foot (228.4-m)
10 buffers. Survey data do not exist inside the surf zone for any of the buffers, which is an
11 area normally unsuitable for lobster trapping. Lobster trapping is concentrated around
12 hard bottom structure with some relief that acts as habitat and shelter, and therefore an
13 aggregation attraction, for lobsters. Of the 53.67 acres (21.72 ha) surveyed within the
14 350-foot (106.6-m) buffer, about 5.96 acres (2.41 ha) or 11.1 percent of the buffer area
15 is classified as being predominantly sediment (finer or coarser grained) and scattered
16 rocks, and about another 15.00 acres (6.07 ha) or 27.9 percent of the area is classified
17 as being predominantly rock or rock outcrop (with or without localized sediment ponds).
18 Together, these classifications, which would encompass the preferred lobster trapping
19 area (along with marginal areas, assuming that structure larger than some minimum
20 size and higher than some minimum relief is needed to hold lobsters) comprise about
21 20.96 acres (8.48 ha) or about 39 percent of the area within the 350-foot (106.6-m)
22 buffer. Of the 88.30 acres (35.73 ha) surveyed within the 550-foot (167.5-m) buffer,
23 about 8.23 acres (3.33 ha) or 9.32 percent of the buffer area is classified as being
24 predominantly sediment (finer or coarser grained) and scattered rocks, and about
25 another 27.87 acres (11.28 ha) or 31.6 percent of the area is classified as being
26 predominantly rock or rock outcrop (with or without localized sediment ponds).
27 Together, these classifications, which would encompass preferred (and marginal)
28 lobster trapping areas comprise about 36.1 acres (14.61 ha) or 39 percent of the area
29 within the 550-foot (167.5-m) buffer. For the 750-foot (228.4-m) buffer, no survey data
30 are available for about half of the area not already encompassed by the 550-foot
31 (167.5-m) buffer, so no meaningful additional quantitative analysis of potentially
32 preferred lobster trapping area is possible.

33 Unlike some other commercial fisheries that are only regulated by a size limit, lobster
34 fishing is regulated by both a size limit and seasonal restrictions. Lobster traps may be
35 set only during a limited season that runs from the first Wednesday in October through
36

- 1 Figure 4.11-4 Bottom Composition
- 2

1 the first Wednesday after March 15 each year. Table 4.11-2 displays information on the
 2 harvest from Fish Block 756 on a monthly basis for the 1999-2000 fishing season
 3 through to the 2003-2004 season. With the exception of February and November 2000,
 4 the consistent pattern of catch for each year indicates that October, the opening month
 5 of the season, yields the largest harvest, with the total declining each subsequent month
 6 that the season is open. While there is variability from year to year, the 5 years shown
 7 indicate that the month of October alone accounted for over 40 percent of the total
 8 seasonal catch, November accounted for about half of the October take (or 20 percent
 9 of the total catch), and the remaining 4 months of the season combined accounted for
 10 somewhat less than 40 percent. Given the seasonal nature of the fishery, the area
 11 fishermen have expressed specific concerns regarding the timing of the Proposed
 12 Project. Project activities during, or immediately preceding, the lobster season could
 13 disrupt commercial fishing efforts by displacing fishermen from established fishing
 14 grounds; by adversely impacting lobster behavior through the creation of turbid water
 15 conditions; or by disturbing lobster habitat through sediment deposition on or around
 16 bottom structure or relief features that serve to aggregate and shelter lobsters when
 17 they are not foraging.

18 **Table 4.11-2. Value of Lobster Harvest by Month, Fish Block 756, 1999-2000**
 19 **Season through 2003-2004 Season**

Month	Lobster Fishing Season					Five-Season Total	Percent of Five-Season Total
	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004		
October	\$31,056	\$24,606	\$57,953	\$50,913	\$105,750	\$270,278	42.4%
November	\$16,153	\$25,208	\$24,219	\$28,274	\$30,745	\$124,599	19.6%
December	\$16,726	\$14,520	\$21,169	\$26,913	\$18,570	\$97,898	15.4%
January	\$12,703	\$9,741	\$10,392	\$15,633	\$13,282	\$61,751	9.7%
February	\$24,741	\$8,476	\$4,348	\$11,638	\$10,233	\$59,436	9.3%
March	\$4,783	\$4,284	\$1,561	\$5,872	\$6,559	\$23,059	3.6%
Grand Total	\$106,161	\$86,834	\$119,641	\$139,242	\$185,138	\$637,021	100%

20

21 Beyond harvest statistics by fish block, the CDFG also tracks where catch is landed by
 22 port, so it is possible to determine where fish caught in Fish Block 756 are landed and
 23 thus determine where at least some secondary economic benefits from the localized
 24 fishery accrue. Dana Point and Newport Beach, in Orange County, and Oceanside, in
 25 San Diego County, are the closest ports to the project area, and the only ports that have
 26 taken lobster landings on a regular basis from the fish block encompassing the project
 27 area (Fish Block 756) since 1998. Table 4.11-3 displays the pattern of lobster landings

1 for these ports from Fish Block 756 for the years 1998-2003 in terms of total value.
 2 Table 4.11-4 displays analogous information in terms of volume of harvest. As shown,
 3 Dana Point strongly dominated other ports in terms of annual value and volume of
 4 lobster landed from Fish Block 756 between 1998 and 2003, nearly quadrupling the
 5 landings of the next closest port in the year with the least variation (1999) and
 6 exceeding the second place port by more than ninefold in 2002, the year with the
 7 greatest variation.

8 **Table 4.11-3. Value of All Species Landings, Value of Lobster Landings, and Value**
 9 **of Lobster Landings from Fish Block 756 by Year and by Port, 1998-2002 and 2003**
 10 **(preliminary)**

Year	Value of Harvest, All Species	Value of Lobster Harvest	Value of Lobster Landings by Port			
			Dana Point	Newport	Oceanside	Other*
2003 (prelim)	\$212,024	\$188,208	\$146,315	\$32,150	\$7,001	\$2,742
2002	\$161,936	\$122,402	\$105,556	\$9,516	\$7,331	\$0
2001	\$264,174	\$125,844	\$111,302	\$14,542	\$0	\$0
2000	\$473,467	\$106,561	\$86,108	\$18,051	\$2,402	\$0
1999	\$340,301	\$71,347	\$50,125	\$13,547	\$547	\$7,128
1998	\$167,011	\$79,849	\$62,603	\$13,438	\$2,698	\$1,111

* In 2003, "other" landings of lobster from Fish Block 756 were made in Hermosa. In 1999, "other" landings occurred in Point Loma, San Diego, and Huntington. In 1998, "other" landings occurred in Catalina, Hermosa, and San Diego.

11

12 **Table 4.11-4. Volume of All Species Landings, Volume of Lobster Landings, and**
 13 **Volume of Lobster Landings from Fish Block 756 (in pounds) by Year and by Port,**
 14 **1998-2002 and 2003 (preliminary)**

Year	Volume of Lobster Harvest	Volume of Lobster Landings by Port			
		Dana Point	Newport	Oceanside	Other*
2003 (prelim)	25,363	19,378	4,589	989	406
2002	16,925	14,348	1,572	1,005	0
2001	17,447	15,294	2,153	0	0
2000	13,794	10,998	2,467	329	0
1999	9,365	6,582	1,721	76	985
1998	12,902	9,956	2,232	418	188

* In 2003, "other" landings of lobster from Fish Block 756 were made in Hermosa. In 1999, "other" landings occurred in Point Loma, San Diego, and Huntington. In 1998, "other" landings occurred in Catalina, Hermosa, and San Diego.

15

1 Beyond the individual fishermen directly engaged in the lobster harvest, port of landing
2 communities are the locus of economic activity associated with the fishery. These
3 communities vary in the amount of economic activity they capture or “leak” based on the
4 location of subsequent distribution, processing, and marketing, as well as the location of
5 fishery supply and support businesses. Nevertheless, characterizing the landings from
6 the project area fish block relative to overall landings of the relevant ports is one
7 straightforward if simplistic way to gauge the relative economic contribution of the
8 harvest taken from any specific area.

9 Tables 4.11-5, 4.11-6, and 4.11-7 present data on the total value of port landings and
10 the value of lobster landings for each of these ports, along with the total value of the
11 Fish Block 756 lobster harvest for comparative purposes, for 1998-2002, and
12 preliminary data from 2003. This allows an assessment of the relative dependency of
13 the port on lobster from the project area in terms of both overall commercial fishery
14 landings as well as specific lobster landings. For Dana Point, as shown in Table 4.11-5,
15 lobster from Fish Block 756 accounted for about 13 percent of lobster landings annually
16 from 1998-2000, but this figure climbed above 20 percent in 2001 and 2002 and
17 reached 36 percent in 2003 (according to preliminary figures). This is a substantial
18 portion of the lobster harvest, which, in turn, is a substantial portion of total port
19 landings. Lobster landings from Fish Block 756 alone accounted for 8 to 13 percent of
20 the annual value of landings of all species combined for Dana Point for the period 1998-
21 2003.

22 For Newport Beach, as shown in Table 4.11-6, landings from Fish Block 756 accounted
23 for between 6 and 10 percent of all lobster landings annually for the years 1998-2002
24 (and between 2 and 3 percent of the value of all catch for all species landed at the port
25 during these years). Preliminary data from 2003, however, show an increased relative
26 importance of landings from Fish Block 756 as they accounted for 18 percent of total
27 port lobster landings (and about 6 percent of the total value of all fish of all species
28 landed at the port that year). For the port of Oceanside, as shown in Table 4.11-7,
29 lobster landed from Fish Block 756 accounted for 3 percent or less of total port lobster
30 landings annually for the years 1998-2003 (and far less than 1 percent of total value of
31 combined landings of all species at the port for these same years).

32 The relative economic contribution of these ports near the project area to the regional
33 fishing economy may be gauged by examining more aggregated data. The ports that
34 have taken lobster from Fish Block 756 fall into two CDFG regional landings areas: the
35 San Diego area (Oceanside) and the Los Angeles area (Dana Point and Newport
36 Beach). For 2002, the most recent year for which final data are available, landings of
37 lobster in all San Diego area ports were valued at \$1,395,649, and total landings of all
38

1 **Table 4.11-5. Value of Annual Port Landings for All Species, All Lobster, and**
 2 **Lobster from Fish Block 756, 1998-2002 and 2003 (preliminary) for the Port of Dana**
 3 **Point**

Year	Value of Port Landings All Species (from any area)	Value of Port Landings Lobster Only (from any area)	Value of Port Landings of Lobster from Fish Block 756	Percent of Total Lobster Harvest
2003 (prelim)	\$1,151,256	\$402,022	\$146,315	36%
2002	\$1,092,734	\$511,046	\$105,556	21%
2001	\$1,027,303	\$472,440	\$111,302	24%
2000	\$1,074,862	\$639,704	\$86,108	13%
1999	\$664,539	\$372,952	\$50,125	13%
1998	\$705,256	\$492,023	\$62,603	13%

4

5 **Table 4.11-6. Value of Annual Port Landings for All Species, All Lobster, and**
 6 **Lobster from Fish Block 756, 1998-2002 and 2003 (preliminary) for the Port of**
 7 **Newport Beach**

Year	Value of Port Landings All Species (from any area)	Value of Port Landings Lobster Only (from any area)	Value of Port Landings of Lobster from Fish Block 756	Percent of Total Lobster Harvest
2003 (prelim)	\$546,907	\$176,997	\$32,150	18%
2002	\$563,243	\$169,784	\$9,516	6%
2001	\$521,765	\$142,137	\$14,542	10%
2000	\$557,245	\$188,762	\$18,051	10%
1999	\$674,208	\$191,355	\$13,547	7%
1998	\$593,776	\$149,924	\$13,438	9%

8

9 **Table 4.11-7. Value of Annual Port Landings for All Species, All Lobster, and**
 10 **Lobster from Fish Block 756, 1998-2002 and 2003 (preliminary) for the Port of**
 11 **Oceanside**

Year	Value of Port Landings All Species (from any area)	Value of Port Landings Lobster Only (from any area)	Value of Port Landings of Lobster from Fish Block 756	Percent of Total Lobster Harvest
2003 (prelim)	\$1,485,649	\$352,060	\$7,001	2%
2002	\$1,311,069	\$256,782	\$7,331	3%
2001	\$1,294,728	\$359,186	\$0	0%
2000	\$959,132	\$326,340	\$2,402	1%
1999	\$1,799,439	\$69,869	\$547	1%
1998	\$511,798	\$185,275	\$2,698	1%

1 species were valued at \$5,556,209. For Los Angeles area ports, lobster landings in
2 2002 were valued at \$1,338,585, while total landings for all species were valued at
3 \$23,286,481.

4 **4.11.3 Regulatory Setting**

5 The regulatory setting has been described in Section 4.11.1.

6 **4.11.4 Significance Criteria**

7 An environmental justice impact would be considered significant if the Proposed Project
8 would:

- 9 • disproportionately result in significant adverse environmental, public health, or
10 safety impacts to minority and/or low-income populations at levels exceeding
11 either the 50 percent threshold or meaningfully greater than the corresponding
12 medians for the county(s) where the project is located; or
- 13 • result in a disproportionate decrease in the employment and economic base of
14 minority and/or low-income populations (including the commercial fishing
15 industry) within the county(s) and/or immediately surrounding cities where the
16 project is located.

17 **4.11.5 Impact Analysis and Mitigation**

18 This section evaluates the Proposed Project to determine whether the disposition would
19 create disproportionate environmental, public health, and/or safety impacts on minority
20 populations or low-income populations. This includes impacts to employment and
21 commercial activities in the project and study areas. The evaluation is largely
22 qualitative.

23 **Impact EJ-1. Environmental, Public Health, and Safety Effects on Minority** 24 **Populations and Low-Income Populations**

25 **The Proposed Project would not have any disproportional or significant**
26 **environmental, public health, or safety effects on minority populations or low-**
27 **income populations (Class III).**

28 The Proposed Project would involve removal of the terminal structures and manhole
29 risers attached to buried cooling water conduits, offshore of MCB Camp Pendleton. The
30 project site is not located within or in proximity to residential minority populations and/or
31 low-income populations. No public health or safety issues that extend beyond the

1 immediate project area were identified, e.g., vessel safety and navigation concerns are
2 limited to the immediate vicinity of the project at sea; therefore, no public health or
3 safety issues are likely to accrue to local residential populations (Class III). No
4 mitigation is required.

5 Minority populations and/or low-income populations may make recreational use of
6 nearby areas that have views of the project site, including use of recreational sport
7 fishing charters and use of designated onshore recreational areas, including San Onofre
8 State Beach. These would be transient as opposed to residential uses, and they would
9 be equally open to persons of all demographic groups and economic strata. Therefore,
10 no disproportionate impact to minority populations and/or low-income would result
11 (Class III). No mitigation is required.

12 **Impact EJ-2. Employment and Economic Effects on Minority Populations and** 13 **Low-Income Populations**

14 The Proposed Project would not have any disproportional or significant employment or
15 economic effects on minority populations or low-income populations (Class III).

16 The Proposed Project would generate minimal new employment over a short time
17 period. It would take approximately 4 months and would involve fewer than 20
18 construction workers and divers, virtually all of whom would be existing, specialized
19 employees of firms from outside the immediate area; therefore local employment would
20 not be significantly impacted (Class III). Project personnel would be employed from the
21 regional workforce and would utilize local accommodations such as hotels/motels, as
22 necessary, on a temporary basis. No relocation of persons would be required;
23 therefore, housing supply within the region would not be impacted (Class III). No
24 mitigation is required.

25 While some goods and services may be purchased locally as a result of support
26 activities, these expenditures are likely to be minor; therefore economic impacts will not
27 be significant (Class III). Given the small number of employees involved and the short
28 construction timeframe for disposition, the Proposed Project in general would have a
29 minor beneficial but not significant effect on employment, income, and economic activity
30 in the study area. This minor level of beneficial impact is unlikely to induce
31 demographic or economic growth. A number of existing companies in southern
32 California are capable of meeting the requirements of this project. Los Angeles and
33 San Diego counties are major economic regions with large labor forces providing
34 adequate labor pools to meet the project employment without the need to recruit new
35 employees to the region. As a result, no new growth would be generated by this

1 project, and there would be no growth-related impacts (Class III). No mitigation is
2 required.

3 **Impact EJ-3. Environmental Justice Effects on Commercial Fishermen**

4 **The Proposed Project would not have any disproportional or significant effects**
5 **on minority populations or low-income populations engaged in commercial**
6 **fishing (Class III).**

7 Fishermen represent a special population with respect to potential impacts resulting
8 from the Proposed Project. The offshore portion of the project area is used by lobster
9 fishermen; some set traps in the immediate project vicinity. Deeper waters offshore of
10 the project area are used for a variety of other commercial fishing activities, but it is very
11 unlikely that there would be project-related disruptions of these fisheries. There could
12 be temporary disruptions to commercial lobster fishing during terminal structure and
13 manhole demolition and removal activities. To the extent that lobsters use the terminal
14 structures and associated riprap scheduled for removal as habitat, there would be a
15 minor long-term net loss of lobster habitat under the Proposed Project.

16 Only a small portion of Fish Block 756 would be impacted by the Proposed Project, and
17 adverse impacts are likely to be less than significant for the lobster fishery at either the
18 fish block or the landing port level. However, adverse impacts may accrue to individual
19 fishermen, as they may be proportionately more reliant on the project area than others.
20 Furthermore, as noted in the Significance Criteria in Section 4.2, Commercial Fishing,
21 substantial interference with commercial fisheries in the disposition area for a period of
22 1 month or longer during active fishing seasons would be considered a significant
23 impact.

24 The exclusion of commercial fishermen from a proven fishing ground during disposition
25 could impact their livelihood if they did not have an equally productive alternate site to
26 fish during that period, and/or if they could not do so as efficiently as at their existing
27 grounds. Beyond physical exclusion from fishing grounds due to project barge and
28 vessel activity, lobster fishermen could also experience adverse impacts if the project
29 either removed habitat or temporarily impaired habitat through project-related turbidity
30 and sediment deposition on otherwise productive lobster habitat.

31 For the purposes of this analysis, three different buffer zones were created to display
32 what may be considered the maximum reasonably foreseeable spatial extent of these
33 types of fishery interference. Assuming a maximum project bottom disturbance footprint
34 of 150 feet (45.7 m) around the conduits, the water quality analysis suggests that

1 sedimentation could take place up to about 65 feet (19.8 m) beyond the disturbance
2 area itself, and the turbidity plume could extend about three times that distance, or
3 about 195 feet (59.4 m). A conservative buffer encompassing the maximum direct
4 disturbance, sedimentation, and turbidity impacts would then extend approximately 350
5 feet (106.6 m) outward from the conduits and terminal structures. A buffer of this size,
6 as shown in Figure 4.11-4, conservatively extending from the seawall to 350 feet (106.6
7 m) offshore of the farthest terminal structure, would encompass a total of 58.7 acres
8 (23.7 ha). The actual area of direct impact within this maximum extent buffer would
9 depend on the specific area(s) disturbed and the volume, grain size, and
10 deposition/placement of the excavated materials as well as sea conditions at the time,
11 including surge and current. A conservative safety exclusion zone buffer was created
12 by utilizing the 1,100-foot (355.0-m) anchor spread zone (550 feet [167.5 m] on either
13 side of the conduits) to characterize the footprint of direct activities. This area, also
14 shown in Figure 4.11-4, would add another 37.7 acres (15.3 ha) to the project buffers,
15 so that together with the enclosed disturbance, sedimentation, and turbidity buffer area,
16 the combined buffer would encompass a total of 96.37 acres (39.0 ha); adding a 200-
17 foot (60.9-m) vessel exclusion safety zone around the direct activities/anchor spread
18 zone would extend the buffer to a total of 750 feet (228.4 m) and enlarge the overall
19 buffer by 40.7 acres (16.5 ha), for a total combined area of 137.0 acres (55.5 ha). This
20 estimated impact area compares to an actual impact area resulting from the exclusion
21 zone component that would be determined by the actual placement, and duration of
22 placement, of the anchor spread and the extent of observation of a vessel safety
23 exclusion zone.

24 The potential for these impacts could be avoided altogether by timing relevant project
25 activities to avoid lobster season and several weeks immediately preceding the lobster
26 season. If the season cannot be avoided in its entirety, the potential for adverse
27 impacts could be minimized at least in part by avoiding the most productive months at
28 the beginning of lobster fishing season. The specific demographic composition of the
29 group of fishermen in question is unknown, but given anecdotal knowledge of the
30 fishery, it is unlikely that lobster fishery impacts would result in environmental justice
31 impacts.

32 The Proposed Project would involve only short-term disposition activities; there would
33 be no long-term project actions or adverse effects from project implementation.

34 Based upon the factors presented above, the Proposed Project would not result in a
35 significant environmental justice impact (Class III). No mitigation is required. (See
36 Section 4.2, Commercial Fishing, for discussion of other potential commercial fishing
37 impacts and mitigation.)

1 Table 4.11-8 summarizes the environmental justice impacts and mitigation measures.

2 **Table 4.11-8. Summary of Environmental Justice Impacts and Mitigation Measures**

Impact	Mitigation Measures
EJ-1: Environmental, public health, and safety effects on minority populations and low-income populations.	No mitigation required
EJ-2: Employment and economic effects on minority populations and low-income populations.	No mitigation required
EJ-3: Environmental Justice effects on commercial fishermen	No mitigation required

3

4 **4.11.6 Impacts of Alternatives**

5 **4.11.6.1 Complete Removal of Conduits Alternative**

6 **Impact EJ-ALT-1. Environmental, Public Health, and Safety Effects on Minority**
7 **Populations and Low-Income Populations**

8 **This alternative would not have any disproportional or significant environmental,**
9 **public health, or safety effects on minority populations or low-income**
10 **populations (Class III).**

11 No public health or safety issues that extend beyond the immediate project area were
12 identified, e.g., vessel safety and navigation concerns are limited to the immediate
13 vicinity of the project at sea; therefore, no public health or safety impacts are likely to
14 accrue to local residential populations (Class III). No environmental issues that may
15 involve minority populations or low-income populations beyond employment, economic,
16 and commercial fishing effects (discussed separately below) were identified (Class III).
17 No mitigation is required.

18 **Impact EJ-ALT-2. Employment and Economic Effects on Minority Populations**
19 **and Low-Income Populations**

20 **This alternative would not have any disproportional or significant employment or**
21 **economic effects on minority populations or low-income populations (Class III).**

22 The duration of the project activities would increase to 12 months. Additional trestle
23 fabrication, movement of materials ashore after offshore removal, and related activities
24 would increase total onsite employment. Given that a number of these positions would
25 be less specialized than the offshore positions that would be required under the
26 Proposed Project, this alternative would likely result in more and longer duration
27 employment opportunities for local individuals and entities. While this would benefit the

1 local economy, this would not be significant due to the small number of jobs involved
2 (Class III). No mitigation is required.

3 This alternative would also create more shoreside impacts through beach disruption and
4 increased truck activities due to over-the-beach materials removal. There is no
5 indication, however, that these activities would disproportionately impact minority
6 populations or low-income populations; therefore, no environmental justice impacts
7 would occur (Class III). No mitigation is required.

8 **Impact EJ-ALT-3. Environmental Justice Effects on Commercial Fishermen**

9 **This alternative would not have any disproportional or significant effects on**
10 **minority populations or low-income populations engaged in commercial fishing**
11 **(Class III).**

12 In terms of potential impacts related to commercial fishing, the longer project duration
13 would increase the chances of interfering with local fishing efforts, depending on the
14 timing of project activities. Beyond exclusion of fishing effort in a safety zone around
15 offshore project activities, this alternative would create more turbidity and sedimentation
16 through more intense bottom disturbance over a greater area that could interfere with
17 lobster fishing by disrupting lobster behavior and habitat. Given that substantial
18 interference with commercial fishing for more than 1 month in the disposition area would
19 be considered a significant impact (Section 4.2), avoiding significant impacts to
20 commercial fishermen would not be feasible given the 12-month duration of this
21 alternative. It may be possible to minimize the impacts, if not avoid them altogether, by
22 starting the project immediately after the close of lobster season in March (see Impact
23 FSH-ALT-2). As this alternative requires that work commence at the terminals and
24 progress shoreward, this may result in having the work out of the more productive
25 commercial lobster trapping area and into shallower waters before the lobster season
26 reopens in October. It is not expected, however, that disproportional impacts would
27 accrue to minority populations or low-income populations; therefore, no significant
28 environmental justice impacts would result (Class III). No mitigation is required.

1 **4.11.6.2 Removal of Nearshore Components Alternative**

2 **Impact EJ-ALT-4. Environmental, Public Health, and Safety Effects on Minority** 3 **Populations and Low-Income Populations**

4 **This alternative would not have any disproportional or significant environmental,**
5 **public health, or safety effects on minority populations or low-income**
6 **populations (Class III).**

7 No public health or safety issues that extend beyond the immediate project area were
8 identified, e.g., vessel safety and navigation concerns are limited to the immediate
9 vicinity of the project at sea; therefore, no public health or safety impacts are likely to
10 accrue to local residential populations (Class III). No environmental issues that may
11 involve minority populations or low-income populations beyond employment, economic,
12 and commercial fishing effects (discussed separately below) were identified (Class III).
13 No mitigation is required.

14 **Impact EJ-ALT-5. Employment and Economic Effects on Minority Populations** 15 **and Low-Income Populations**

16 **This alternative would not have any disproportional or significant employment or**
17 **economic effects on minority populations or low-income populations (Class III).**

18 There would be a limited increase in project employment associated specifically with the
19 removal of nearshore components across the beach, but this is not expected to result in
20 significant socioeconomic or environmental justice impacts. Impacts associated with
21 the over-the-beach movement of removed materials would be similar in nature to those
22 seen under the Complete Removal of Conduits Alternative, but they would be shorter in
23 duration and of less intensity due to the much smaller volume of material involved. No
24 significant socioeconomic or environmental justice impacts would result from this
25 alternative (Class III). No mitigation is required.

26 **Impact EJ-ALT-6. Environmental Justice Effects on Commercial Fishermen**

27 **This alternative would not have any disproportional or significant effects on**
28 **minority populations or low-income populations engaged in commercial fishing**
29 **(Class III).**

30 Under this alternative, environmental impacts would be limited to the nearshore area.
31 This alternative would have minimal impacts on local commercial fishing if the project
32 were confined to only removing the nearshore components (those within 300 feet [91 m])

1 of the shore), as relatively little or no fishing takes place in very shallow water within or
2 just outside the surf zone. Lobster habitat utilized by commercial fishermen would not
3 be altered from existing conditions as the offshore terminal structures and associated
4 riprap would be left in place. If the subalternative that removes all vertical structures
5 consistent with the Proposed Project were adopted, this alternative would be similar to
6 the Proposed Project in terms of socioeconomic and environmental justice impacts, and
7 commercial fishing impacts in particular (Class III). No mitigation is required.

8 **4.11.6.3 Crush Conduits and Remove Terminal Structures Alternative**

9 **Impact EJ-ALT-7. Environmental, Public Health, Safety, Employment, Economic** 10 **and/or Commercial Fishing Effects on Minority Populations and Low-Income** 11 **Populations**

12 **This alternative would not have any disproportional or significant environmental,**
13 **public health, safety, employment, economic and/or commercial fishing effects**
14 **on minority populations or low-income populations (Class III).**

15 In terms of socioeconomic, environmental justice, and commercial fishing impacts, this
16 alternative would be similar to the Complete Removal of Conduits Alternative, with the
17 exception that material would be left in place rather than removed and transported over
18 the beach. This difference would not change any significance findings for
19 socioeconomic, environmental justice, or commercial fishing impacts (Class III). No
20 mitigation is required.

21 **4.11.6.4 Artificial Reef Alternative**

22 **Impact EJ-ALT-8. Environmental, Public Health, Safety, Employment, and/or** 23 **Economic Effects on Minority Populations and Low-Income Populations**

24 **This alternative would not have any disproportional or significant environmental,**
25 **public health, safety, employment and/or effects on minority populations or**
26 **low-income populations (Class III).**

27 No public health or safety issues that extend beyond the immediate project area were
28 identified, e.g., vessel safety and navigation concerns are limited to the immediate
29 vicinity of the project at sea; therefore, no public health or safety impacts are likely to
30 accrue to local residential populations (Class III). No environmental issues that may
31 involve minority populations or low-income populations beyond employment, economic,
32 and commercial fishing effects (discussed separately below) were identified (Class III).
33 Employment and economic impacts would not be significant (Class III).

1 This alternative would be very similar to the Proposed Project. The creation of an
2 artificial reef under this alternative would have no adverse environmental justice impacts
3 (Class III). No mitigation is required.

4 **Impact EJ-ALT-9. Environmental Justice Effects on Commercial Fishermen**

5 **This alternative would not have any disproportional or significant effects on**
6 **minority populations or low-income populations engaged in commercial fishing**
7 **(Class III).**

8 The creation of additional reef under this alternative would enhance fishing in the area,
9 creating socioeconomic benefits over the long term. The artificial reef would provide
10 expanded habitat for species of fish and invertebrates, enhancing local commercial
11 fishing over the long term. There would be positive, beneficial effects on commercial
12 fishermen associated with the creation of the artificial reef under this alternative, but
13 these benefits are unlikely to accrue specifically to minority populations or low-income
14 populations (Class IV).

15 **4.11.6.5 No Project Alternative**

16 **Impact EJ-ALT-10. Environmental, Public Health, Safety, Employment, Economic** 17 **and/or Commercial Fishing Effects on Minority Populations and Low-Income** 18 **Populations**

19 **This alternative would not have any disproportional or significant environmental,**
20 **public health, safety, employment, economic and/or commercial fishing effects**
21 **on minority populations or low-income populations (Class III).**

22 Under the No Project Alternative, socioeconomic and commercial fishing activities
23 would continue as under existing conditions. This alternative would not result in any
24 socioeconomic, environmental justice, or commercial fishing impacts.

25 **4.11.7 Cumulative Project Impact Analysis**

26 Ongoing decommissioning of SONGS Unit 1 is a long-term, multi-year effort that
27 requires specialized workforce personnel trained in nuclear power plant safety issues.
28 Many of these workers are not local; instead they travel to SONGS and are employed
29 because of their specialized skills and training. This is a different workforce than the
30 small local workforce needed for the Proposed Project. The proposed new steam
31 generators at SONGS Units 2 and 3 would likewise require a specialized workforce,
32 separate from that required for the Proposed Project. The potential toll road extension

1 would be a major, long-term freeway construction project. If a coastal alignment were
2 selected, that project would be initiated after completion of the much smaller disposition
3 project, which will be finished by 2006. None of the MCB Camp Pendleton projects
4 would require construction personnel experienced in work in the offshore environment.
5 Finally, none of the potential cumulative projects identified would have an offshore
6 impact that would adversely affect commercial fishermen or their fishing grounds.

7 Overall, no cumulative socioeconomic or environmental justice effects on minority
8 populations, low-income populations, or commercial fishermen would result from the
9 implementation of the Proposed Project in conjunction with other known projects.

10 **4.11.8 References**

11 California Department of Fish and Game. 2004. Personal Communication. 10/22/04
12 and 10/27/04. Data for San Diego area port landings, 1997-2003, Los Angeles
13 area port landings, 1997-2003, and Fish Block 756 harvest data, 1997-2003,
14 provided electronically by Jana Robertson, Management Services Technician,
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