

07JUL91

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY  
 Docket Nos. 50-206, 50-361, 50-362  
 Reporting period: January 1, 1980 to December 31, 1980

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range	Location with Highest Annual Mean Name, Distance and Direction	Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 1A Direct Radiation Quarterly Composite (millirem)							
Gamma Exposure	276	5.0000	24.111(105/268) (18.300-38.200)	Huntington Beach Generating Station 37 mi. NW	31.075( 4/ 4) (25.100-38.200)	21.350( 2/ 8) (19.900-22.800)	0
Table 1B Direct Radiation Annual Composite (millirem)							
Gamma Exposure	69	5.0000	76.000( 16/ 67) (61.000-92.000)	Huntington Beach Generating Station 37 mi. NW	92.000( 1/ 1) (92.000-92.000)	<LLD ( 0/ 2)	0
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	520	0.0011	0.0373(146/468) ( 0.004- 0.178)	Units 2/3 Switchyard 0.13 mi. NNE	0.0458( 51/ 52) ( 0.008- 0.177)	0.0392( 48/ 52) ( 0.010- 0.194)	0
Table 3 Airborne Weekly Composite (pCi/cu.m)							
I-131	520	0.0430	0.2500( 2/468) ( 0.140- 0.360)	Units 2/3 Switchyard 0.13 mi. NNE	0.2500( 2/ 52) ( 0.140- 0.360)	<LLD ( 0/ 52)	0

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Table 4A Airborne Quarterly Composite (pCi/cu.m)								
	Be-7	20	0.0540	0.0606( 16/ 16) ( 0.026- 0.117)  ( 0.002- 0.006)	Huntington Beach Generating Station 37 mi. NW SDG&E Offices 5.5 mi. NW Generating Station 37 mi. NW	0.0745( 4/ 4) ( 0.038- 0.140)  ( 0.006- 0.006)  ( 0.002- 0.002)  ( 0.002- 0.002)	0.0745( 4/ 4) ( 0.038- 0.140)    ( 0.002- 0.002)	0
	Co-58	20	0.0010	<LLD ( 0/ 16)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Co-60	20	0.0010	<LLD ( 0/ 16)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Cs-134	20	0.0010	<LLD ( 0/ 16)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Cs-137	20	0.0010	0.0016( 2/ 16) ( 0.001- 0.002)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0021( 1/ 4) ( 0.002- 0.002)	<LLD ( 0/ 4)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)								
	Zr(Nb)-95	20	0.0010	0.0052( 4/ 16) ( 0.002- 0.011)	San Clemente City SDG&E Offices 5.5 mi. NW	0.0110( 1/ 4) ( 0.011- 0.011)	0.0040( 1/ 4) ( 0.004- 0.004)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)								
	Gross Alpha	44	0.0003	0.0011( 11/ 40) ( 0.000- 0.002)	Huntington Beach Generating Station 37 mi. NW	0.0020( 4/ 4) ( 0.001- 0.004)	0.0020( 4/ 4) ( 0.001- 0.004)	0
	Sr-90	44	0.0030	0.0002( 1/ 40) ( 0.000- 0.000)	San Clemente City SDG&E Offices 5.5 mi. NW	0.0002( 1/ 4) ( 0.000- 0.000)	<LLD ( 0/ 4)	0

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Table 5 Ocean Water Monthly Composite (pCi/l)								
	Co-58	24	4.9000	11.000( 1/ 18) (11.000-11.000)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	11.000( 1/ 6) (11.000-11.000)	<LLD ( 0/ 6)	0
	Co-60	24	5.3000	6.0000( 1/ 18) ( 6.000- 6.000)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	6.0000( 1/ 6) ( 6.000- 6.000)	<LLD ( 0/ 6)	0
	Cs-134	24	4.6000	380.00( 1/ 18) (380.00-380.00)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	380.00( 1/ 6) (380.00-380.00)	<LLD ( 0/ 6)	0
	Cs-137	24	3.7000	430.00( 1/ 18) (430.00-430.00)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	430.00( 1/ 6) (430.00-430.00)	<LLD ( 0/ 6)	0
	Fe-59	24	8.8000	<LLD ( 0/ 18)	ALL <LLD	-----	<LLD ( 0/ 6)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	I-131	24	25.500	<LLD ( 0/ 18)	ALL <LLD	-----	<LLD ( 0/ 6)	0
	Mn-54	24	3.7000	<LLD ( 0/ 18)	ALL <LLD	-----	<LLD ( 0/ 6)	0
	Zn-65	24	7.6000	<LLD ( 0/ 18)	ALL <LLD	-----	<LLD ( 0/ 6)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Zr(Nb)-95	24	7.3000	<LLD ( 0/ 18)	ALL <LLD	-----	<LLD ( 0/ 6)	0
Table 6 Ocean Water Bi-Monthly Composite (pCi/l)								
	Tritium	24	105.00	882.78( 18/ 18) (670.00-1340.0)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	903.33( 6/ 6) (670.00-1340.0)	841.67( 6/ 6) (640.00-1250.0)	0

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Table 7 Ocean Water Quarterly Composite (pCi/l)								
	Tritium	8	102.00	1150.0( 2/ 6) (400.00-1900.0)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	1900.0( 1/ 2) (1900.0-1900.0)	<LLD ( 0/ 2)	0
Table 9B Drinking Water Monthly Composite (pCi/l)								
	Gross Alpha	36	0.2110	0.3500( 2/ 24) ( 0.300- 0.400)	Huntington Beach 37 mi. NW	0.6000( 1/ 12) ( 0.600- 0.600)	0.6000( 1/ 12) ( 0.600- 0.600)	0
	Gross Beta	36	0.7380	1.3458( 24/ 24) ( 0.600- 2.700)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.4833( 12/ 12) ( 0.800- 2.700)	1.1727( 11/ 12) ( 0.800- 1.600)	0
Table 9C Drinking Water Monthly Composite (pCi/l)								
	Gross Alpha	36	0.4430	3.5000( 4/ 24) ( 2.000- 5.000)	San Clemente Golf Course Well 3.5 mi. NNW	5.0000( 1/ 12) ( 5.000- 5.000)	3.0000( 4/ 12) ( 2.000- 4.000)	0
	Gross Beta	36	1.4750	11.333( 24/ 24) ( 6.000-19.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	11.750( 12/ 12) ( 7.000-19.000)	8.0636( 11/ 12) ( 3.700-13.000)	0
Table 9D Drinking Water Quarterly Composite (pCi/l)								
	Gross Alpha	12	0.2110	0.2000( 1/ 8) ( 0.200- 0.200)	Huntington Beach 37 mi. NW	0.4000( 1/ 4) ( 0.400- 0.400)	0.4000( 1/ 4) ( 0.400- 0.400)	0
	Gross Beta	12	0.7380	1.6125( 8/ 8) ( 0.900- 2.300)	San Clemente Golf Course Well 3.5 mi. NNW	1.6750( 4/ 4) ( 0.900- 2.300)	1.3250( 4/ 4) ( 0.900- 1.800)	0

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Table 9E Drinking Water Quarterly Composite (pCi/l)								
	Ba(La)-140	12	37.400	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Co-58	12	5.1000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Co-60	12	5.4000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Cs-134	12	4.6000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Cs-137	12	3.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 9E Drinking Water Quarterly Composite (pCi/l)								
	Fe-59	12	9.5000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Gross Alpha	12	0.6320	3.0000( 1/ 8) ( 3.000- 3.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	3.0000( 1/ 4) ( 3.000- 3.000)	2.0000( 1/ 4) ( 2.000- 2.000)	0
	Gross Beta	12	0.6990	12.250( 8/ 8) ( 9.000-16.000)	San Clemente Golf Course Well 3.5 mi. NNW	12.500( 4/ 4) ( 9.000-14.000)	8.2500( 4/ 4) ( 6.000- 9.000)	0
	H-3	12	102.00	450.00( 2/ 8) (300.00-600.00)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	600.00( 1/ 4) (600.00-600.00)	500.00( 1/ 4) (500.00-500.00)	0
	I-131	12	0.5100	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Mn-54	12	3.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
	Zn-65	12	7.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 9E Drinking Water Quarterly Composite (pCi/l)								
	Zr(Nb)-95	12	7.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Co-58	8	0.0090	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
	Co-60	8	0.0090	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
	Cs-134	8	0.0080	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
	Cs-137	8	0.0070	0.0160( 2/ 6) ( 0.012- 0.020)	San Onofre State Beach 0.6 mi. SE	0.0200( 1/ 2) ( 0.020- 0.020)	<LLD ( 0/ 2)	0
	Fe-59	8	0.0170	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	I-131	8	0.0690	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
	Mn-54	8	0.0070	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
	Ra-226	8	0.0130	0.3383( 6/ 6) ( 0.140- 0.700)	San Onofre State Beach 0.6 mi. SE	0.4600( 2/ 2) ( 0.220- 0.700)	0.2450( 2/ 2) ( 0.240- 0.250)	0
	Zn-65	8	0.0140	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	8	0.0140	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0

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Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
			( 0.260- 0.260)	Unit 1 Outfall 0.6 mi. W	( 0.260- 0.260)		
Co-58	10	0.0080	0.3042( 4/ 8) ( 0.013- 1.160)	Unit 1 Outfall 0.6 mi. W	0.5870( 2/ 2) ( 0.014- 1.160)	<LLD ( 0/ 2)	0
Co-60	10	0.0080	2.0835( 4/ 8) ( 0.014- 8.100)	Unit 1 Outfall 0.6 mi. W	4.0570( 2/ 2) ( 0.014- 8.100)	<LLD ( 0/ 2)	0
Cs-134	10	0.0070	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 2)	0
Cs-137	10	0.0060	0.0325( 6/ 8) ( 0.014- 0.060)	Unit 3 Outfall 1.2 mi. SSW	0.0440( 1/ 2) ( 0.044- 0.044)	0.0430( 1/ 2) ( 0.043- 0.043)	0
Fe-59	10	0.0150	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 2)	0

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Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)								
	I-131	10	0.0170	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 2)	0
	Mn-54	10	0.0060	0.2525( 2/ 8) ( 0.015- 0.490)	Unit 1 Outfall 0.6 mi. W	0.4900( 1/ 2) ( 0.490- 0.490)	<LLD ( 0/ 2)	0
	Ra-226	10	0.0120	0.3445( 8/ 8) ( 0.166- 0.740)	Unit 2 Outfall 1.6 mi. SW	0.4650( 2/ 2) ( 0.190- 0.740)	0.1690( 2/ 2) ( 0.038- 0.300)	0
	Zn-65	10	0.0120	0.2600( 1/ 8) ( 0.260- 0.260)	Unit 1 Outfall 0.6 mi. W	0.2600( 1/ 2) ( 0.260- 0.260)	<LLD ( 0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	10	0.0120	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 2)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
bay mussel	Co-58	4	0.0070	0.0400( 3/ 4) ( 0.014- 0.080)	Unit 1 Outfall 0.9 mi. WSW	0.0470( 2/ 3) ( 0.014- 0.080)	<LLD ( 0/ 0)	0
bay mussel	Co-60	4	0.0050	0.0383( 4/ 4) ( 0.010- 0.104)	Units 2/3 Outfall 1.5 mi. SSW	0.1040( 1/ 1) ( 0.104- 0.104)	<LLD ( 0/ 0)	0
bay mussel	Cs-134	4	0.0040	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Cs-137	4	0.0010	0.0060( 1/ 4) ( 0.006- 0.006)	Unit 1 Outfall 0.9 mi. WSW	0.0060( 1/ 3) ( 0.006- 0.006)	<LLD ( 0/ 0)	0
bay mussel	Fe-59	4	0.0090	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0



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Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
			(53.000-53.000)	Unit 1 Outfall 0.9 mi. WSW	(53.000-53.000)			
bay mussel	I-131	4	0.0150	<LLD ( 0/ 4)	ALL <LLD	<LLD ( 0/ 0)	0	
bay mussel	Mn-54	4	0.0030	<LLD ( 0/ 4)	ALL <LLD	<LLD ( 0/ 0)	0	
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
bay mussel	Sr-90	4	0.0200	<LLD ( 0/ 4)	ALL <LLD	<LLD ( 0/ 0)	0	
bay mussel	Zn-65	4	0.0070	<LLD ( 0/ 4)	ALL <LLD	<LLD ( 0/ 0)	0	
bay mussel	Zr(Nb)-95	4	0.0070	<LLD ( 0/ 4)	ALL <LLD	<LLD ( 0/ 0)	0	
black perch	Co-58	12	0.0070	<LLD ( 0/ 8)	ALL <LLD	<LLD ( 0/ 4)	0	
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
black perch	Co-60	12	0.0050	<LLD ( 0/ 8)	ALL <LLD	<LLD ( 0/ 4)	0	
black perch	Cs-134	12	0.0040	<LLD ( 0/ 8)	ALL <LLD	<LLD ( 0/ 4)	0	
black perch	Cs-137	12	0.0010	0.0086( 7/ 8) ( 0.006- 0.010)	Newport Beach 18.2 mi. NW	0.0110( 4/ 4) ( 0.007- 0.014)	0.0110( 4/ 4) ( 0.007- 0.014)	0
black perch	Fe-59	12	0.0090	<LLD ( 0/ 8)	ALL <LLD	<LLD ( 0/ 4)	0	
black perch	H-3 Bound	12	1.4000	48.143( 7/ 8) (13.000-109.00)	Unit 1 Outfall 0.9 mi. WSW	70.667( 3/ 4) (13.000-109.00)	56.625( 4/ 4) ( 2.000-150.00)	0
black perch	I-131	12	0.0150	<LLD ( 0/ 8)	ALL <LLD	<LLD ( 0/ 4)	0	
black perch	Mn-54	12	0.0030	<LLD ( 0/ 8)	ALL <LLD	<LLD ( 0/ 4)	0	

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Table 12A							
Non-Migratory Marine							
Quarterly Composite (pCi/g) (flesh type)							
black perch	Sr-90	12 0.0200	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Zn-65	12 0.0070	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Zr(Nb)-95	12 0.0070	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
keyhole limpet	Ag-110m	4 0.0030	0.0597( 3/ 3) ( 0.033- 0.101)	Units 2/3 Outfall 1.5 mi. SSW	0.0597( 3/ 3) ( 0.033- 0.101)	0.0200( 1/ 1) ( 0.020- 0.020)	0
Table 12A							
Non-Migratory Marine							
Quarterly Composite (pCi/g) (flesh type)							
keyhole limpet	Co-58	4 0.0070	0.0540( 3/ 3) ( 0.007- 0.101)	Units 2/3 Outfall 1.5 mi. SSW	0.0540( 3/ 3) ( 0.007- 0.101)	<LLD ( 0/ 1)	0
keyhole limpet	Co-60	4 0.0050	0.0327( 3/ 3) ( 0.021- 0.040)	Units 2/3 Outfall 1.5 mi. SSW	0.0327( 3/ 3) ( 0.021- 0.040)	<LLD ( 0/ 1)	0
keyhole limpet	Cs-134	4 0.0040	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Cs-137	4 0.0010	<LLD ( 0/ 3)	Newport Beach 18.2 mi. NW	0.0050( 1/ 1) ( 0.005- 0.005)	0.0050( 1/ 1) ( 0.005- 0.005)	0
keyhole limpet	Fe-59	4 0.0090	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
Table 12A							
Non-Migratory Marine							
Quarterly Composite (pCi/g) (flesh type)							
keyhole limpet	H-3 Bound	4 1.4000	1.8000( 1/ 3) ( 1.800- 1.800)	Newport Beach 18.2 mi. NW	35.000( 1/ 1) (35.000-35.000)	35.000( 1/ 1) (35.000-35.000)	0
keyhole limpet	I-131	4 0.0150	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Mn-54	4 0.0030	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Sr-90	4 0.0200	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0

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Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
keyhole limpet	Zn-65	4 0.0070	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Zr(Nb)-95	4 0.0070	<LLD ( 0/ 3) ( 0.170- 0.170)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- ( 0.170- 0.170)	<LLD ( 0/ 1)	0
sea hare	Co-58	4 0.0070	0.0430( 1/ 1) ( 0.043- 0.043)	Unit 1 Outfall 0.9 mi. WSW	0.0430( 1/ 1) ( 0.043- 0.043)	<LLD ( 0/ 3)	0
sea hare	Co-60	4 0.0050	0.1380( 1/ 1) ( 0.138- 0.138)	Unit 1 Outfall 0.9 mi. WSW	0.1380( 1/ 1) ( 0.138- 0.138)	0.0140( 2/ 3) ( 0.012- 0.016)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
sea hare	Cs-134	4 0.0040	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
sea hare	Cs-137	4 0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
sea hare	Fe-59	4 0.0090	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
sea hare	I-131	4 0.0150	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
sea hare	Mn-54	4 0.0030	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
sea hare	Sr-90	4 0.0200	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
sea hare	Zn-65	4 0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 3)	0
sea hare	Zr(Nb)-95	4 0.0070	<LLD ( 0/ 1) ( 0.020- 0.056)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- ( 0.056- 0.056)	<LLD ( 0/ 3)	0

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Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
sheep crab	Co-58	3 0.0070	0.0440( 2/ 3) ( 0.015- 0.073)	Unit 1 Outfall 0.9 mi. WSW	0.0730( 1/ 1) ( 0.073- 0.073)	<LLD ( 0/ 0)	0
sheep crab	Co-60	3 0.0050	0.0257( 3/ 3) ( 0.012- 0.051)	Unit 1 Outfall 0.9 mi. WSW	0.0510( 1/ 1) ( 0.051- 0.051)	<LLD ( 0/ 0)	0
sheep crab	Cs-134	3 0.0040	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Cs-137	3 0.0010	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Fe-59	3 0.0090	<LLD ( 0/ 3) ( 1.000- 7.000)	Units 2/3 Outfall 1.5 mi. SSW	( 1.000- 7.000)	<LLD ( 0/ 0)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
sheep crab	I-131	3 0.0150	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Mn-54	3 0.0030	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Sr-90	3 0.0200	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
sheep crab	Zn-65	3 0.0070	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Zr(Nb)-95	3 0.0070	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheephead	Co-58	12 0.0070	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Co-60	12 0.0050	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Cs-134	12 0.0040	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
sheephead	Cs-137	12	0.0010	0.0102( 8/ 8) ( 0.004- 0.014)	Units 2/3 Outfall 1.5 mi. SSW	0.0115( 4/ 4) ( 0.010- 0.014)	0.0075( 4/ 4) ( 0.005- 0.010)	0
sheephead	Fe-59	12	0.0090	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	H-3 Bound	12	1.4000	27.443( 7/ 8) ( 1.400-88.000)	Newport Beach 18.2 mi. NW	44.067( 3/ 4) ( 8.200-94.000)	44.067( 3/ 4) ( 8.200-94.000)	0
sheephead	I-131	12	0.0150	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Mn-54	12	0.0030	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
sheephead	Sr-90	12	0.0200	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Zn-65	12	0.0070	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Zr(Nb)-95	12	0.0070	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Ag-110m	9	0.0030	0.1360( 5/ 5) ( 0.048- 0.270)	Units 2/3 Outfall 1.5 mi. SSW	0.1850( 2/ 2) ( 0.100- 0.270)	0.0200( 1/ 4) ( 0.020- 0.020)	0

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Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
spiny lobster	Co-58	9 0.0070	0.0823( 3/ 5) ( 0.017- 0.150)	Units 2/3 Outfall 1.5 mi. SSW	0.1500( 1/ 2) ( 0.150- 0.150)	<LLD ( 0/ 4)	0
spiny lobster	Co-60	9 0.0050	0.0762( 4/ 5) ( 0.018- 0.200)	Unit 1 Outfall 0.9 mi. WSW	0.1215( 2/ 3) ( 0.043- 0.200)	<LLD ( 0/ 4)	0
spiny lobster	Cs-134	9 0.0040	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Cs-137	9 0.0010	<LLD ( 0/ 5)	Newport Beach 18.2 mi. NW	0.0150( 1/ 4) ( 0.015- 0.015)	0.0150( 1/ 4) ( 0.015- 0.015)	0
spiny lobster	Fe-59	9 0.0090	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	H-3 Bound	9 1.4000	26.650( 2/ 5) ( 8.300-45.000)	Newport Beach 18.2 mi. NW	51.000( 1/ 4) (51.000-51.000)	51.000( 1/ 4) (51.000-51.000)	0
spiny lobster	I-131	9 0.0150	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
spiny lobster	Mn-54	9	0.0030	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Sr-90	9	0.0200	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Zn-65	9	0.0070	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
spiny lobster	Zr(Nb)-95	9	0.0070	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12B								
Non-Migratory Marine Quarterly Composite (pCi/g) (bone type)								
bay mussel	Co-58	4	0.0100	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Co-60	4	0.0110	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Cs-134	4	0.0100	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Cs-137	4	0.0080	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Fe-59	4	0.0200	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12B								
Non-Migratory Marine Quarterly Composite (pCi/g) (bone type)								
bay mussel	I-131	4	0.0400	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Mn-54	4	0.0080	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Sr-90	4	0.0120	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12B								
Non-Migratory Marine Quarterly Composite (pCi/g) (bone type)								
bay mussel	Zn-65	4	0.0160	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Zr(Nb)-95	4	0.0160	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 0)	0
black perch	Co-58	12	0.0100	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Co-60	12	0.0110	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Cs-134	12	0.0100	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
black perch	Cs-137	12	0.0080	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Fe-59	12	0.0200	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	I-131	12	0.0400	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Mn-54	12	0.0080	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
black perch	Sr-90	12	0.0120	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Zn-65	12	0.0160	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
black perch	Zr(Nb)-95	12	0.0160	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
keyhole limpet	Co-58	4	0.0100	0.0360( 1/ 3) ( 0.036- 0.036)	0.0360( 1/ 3) ( 0.036- 0.036)	Units 2/3 Outfall 1.5 mi. SSW	<LLD ( 0/ 1)	0
Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
keyhole limpet	Co-60	4	0.0110	0.0140( 1/ 3) ( 0.014- 0.014)	0.0140( 1/ 3) ( 0.014- 0.014)	Units 2/3 Outfall 1.5 mi. SSW	<LLD ( 0/ 1)	0
keyhole limpet	Cs-134	4	0.0100	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Cs-137	4	0.0080	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Fe-59	4	0.0200	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	I-131	4	0.0400	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Mn-54	4	0.0080	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0



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Table 12B							
Non-Migratory Marine							
Quarterly Composite							
(pCi/g) (bone type)							
keyhole limpet	Sr-90	4 0.0120	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Zn-65	4 0.0160	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
keyhole limpet	Zr(Nb)-95	4 0.0160	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 1)	0
			( 0.030- 0.030)	Unit 1 Outfall 0.9 mi. WSW	( 0.030- 0.030)		

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Table 12B								
Non-Migratory Marine Quarterly Composite (pCi/g) (bone type)								
sheep crab	Co-58	3	0.0100	0.0410( 1/ 3) ( 0.041- 0.041)	Unit 1 Outfall 0.9 mi. WSW	0.0410( 1/ 1) ( 0.041- 0.041)	<LLD ( 0/ 0)	0
sheep crab	Co-60	3	0.0110	0.0300( 1/ 3) ( 0.030- 0.030)	Unit 1 Outfall 0.9 mi. WSW	0.0300( 1/ 1) ( 0.030- 0.030)	<LLD ( 0/ 0)	0
sheep crab	Cs-134	3	0.0100	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Cs-137	3	0.0080	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Fe-59	3	0.0200	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	I-131	3	0.0400	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Mn-54	3	0.0080	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12B								
Non-Migratory Marine Quarterly Composite (pCi/g) (bone type)								
sheep crab	Sr-90	3	0.0120	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Zn-65	3	0.0160	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
sheep crab	Zr(Nb)-95	3	0.0160	<LLD ( 0/ 3)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12B								
Non-Migratory Marine Quarterly Composite (pCi/g) (bone type)								
sheephead	Co-58	12	0.0100	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Co-60	12	0.0110	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Cs-134	12	0.0100	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Cs-137	12	0.0080	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Fe-59	12	0.0200	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	I-131	12	0.0400	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
sheephead	Mn-54	12	0.0080	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Sr-90	12	0.0120	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
sheephead	Zn-65	12	0.0160	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
sheephead	Zr(Nb)-95	12	0.0160	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 4)	0
				( 0.040- 0.130)	Unit 1 Outfall 0.9 mi. WSW	( 0.040- 0.130)		
spiny lobster	Co-58	9	0.0100	0.0450( 2/ 5)	0.0500( 1/ 3)	<LLD ( 0/ 4)	0	
				( 0.040- 0.050)	Unit 1 Outfall 0.9 mi. WSW	( 0.050- 0.050)		
spiny lobster	Co-60	9	0.0110	0.0650( 2/ 5)	0.1000( 1/ 3)	<LLD ( 0/ 4)	0	
				( 0.030- 0.100)	Unit 1 Outfall 0.9 mi. WSW	( 0.100- 0.100)		
spiny lobster	Cs-134	9	0.0100	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Cs-137	9	0.0080	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
spiny lobster	Fe-59	9	0.0200	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	I-131	9	0.0400	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Mn-54	9	0.0080	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Sr-90	9	0.0120	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
Table 12B								
Non-Migratory Marine								
Quarterly Composite								
(pCi/g) (bone type)								
spiny lobster	Zn-65	9	0.0160	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0
spiny lobster	Zr(Nb)-95	9	0.0160	<LLD ( 0/ 5)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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Table 13A								
Local Crops								
Semi-Annual Composite (pCi/g)								
corn	Co-58	2	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
corn	Co-60	2	0.0020	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
corn	Cs-134	2	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
corn	Cs-137	2	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
corn	I-131	2	0.0090	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
Table 13A								
Local Crops								
Semi-Annual Composite (pCi/g)								
corn	Zr(Nb)-95	2	0.0020	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
tomato	Co-58	2	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
tomato	Co-60	2	0.0020	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
Table 13A								
Local Crops								
Semi-Annual Composite (pCi/g)								
tomato	Cs-134	2	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
tomato	Cs-137	2	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
tomato	I-131	2	0.0090	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
tomato	Zr(Nb)-95	2	0.0020	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
Table 13B								
Local Crops								
Semi-Annual Composite (pCi/g)								
corn	H-3 Bound	2	0.2540	110.00( 1/ 1) (110.00-110.00)	SE of Oceanside 22 mi. SE	300.00( 1/ 1) (300.00-300.00)	300.00( 1/ 1) (300.00-300.00)	0
corn	Sr-90	2	0.0005	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0
tomato	H-3 Bound	2	0.2540	86.000( 1/ 1) (86.000-86.000)	SE of Oceanside 22 mi. SE	110.00( 1/ 1) (110.00-110.00)	110.00( 1/ 1) (110.00-110.00)	0
tomato	Sr-90	2	0.0005	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 1)	0

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<b>Table 14</b>								
Soil Samples								
Annual Composite (pCi/g)								
	Co-58	5	0.0100	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 1)	0
	Co-60	5	0.0110	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 1)	0
	Cs-134	5	0.0090	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 1)	0
	Cs-137	5	0.0070	0.0400( 2/ 4) ( 0.020- 0.060)	Huntington Beach Generating Station ( 0.060- 0.060)	0.0600( 1/ 1) ( 0.060- 0.060)	0.0600( 1/ 1) ( 0.060- 0.060)	0
	I-131	5	0.0210	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 1)	0
<b>Table 14</b>								
Soil Samples								
Annual Composite (pCi/g)								
	Sr-89	5	0.0070	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 1)	0
	Sr-90	5	0.0070	0.0350( 2/ 4) ( 0.020- 0.050)	Camp San Onofre Camp Pen. 2.5 mi. NE	0.0500( 1/ 1) ( 0.050- 0.050)	0.0300( 1/ 1) ( 0.030- 0.030)	0
	Zr(Nb)-95	5	0.0150	<LLD ( 0/ 4)	ALL <LLD	-----	<LLD ( 0/ 1)	0
<b>Table 15</b>								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	Co-58	8	0.0090	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
macrocystis p.	Co-60	8	0.0100	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
macrocystis p.	Cs-134	8	0.0080	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
macrocystis p.	Cs-137	8	0.0060	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
macrocystis p.	Fe-59	8	0.0180	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0

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 Reporting period: January 1, 1980 to December 31, 1980

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range	Location with Highest Annual Mean Name, Distance and Direction	Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 15							
Kelp							
Semi-Annual Composite (pCi/g)							
macrocystis p.	I-131	8	0.0200	( 1.600- 1.600) Kelp Bed 3.8 mi. WNW	( 1.600- 1.600)	0.0240( 1/ 2) 0.0085( 2/ 2) ( 0.024- 0.024) ( 0.008- 0.009)	0
macrocystis p.	Mn-54	8	0.0070	<LLD ( 0/ 6) Kelp Bed 1.5 mi. SSW	ALL <LLD	<LLD ( 0/ 2)	0

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Table 15

Kelp

Semi-Annual Composite

(pCi/g)

macrocystis p.	Zn-65	8	0.0140	<LLD ( 0/ 6)	ALL <LLD	-----	<LLD ( 0/ 2)	0
macrocystis p.	Zr(Nb)-95	8	0.0140	0.0190( 3/ 6) ( 0.014- 0.023)	San Onofre Kelp Bed 1.5 mi. SSW	0.0230( 1/ 2) ( 0.023- 0.023)	0.0180( 1/ 2) ( 0.018- 0.018)	0