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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1977 to December 31, 1977

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	29.873(51/268) (21.800-39.000)	Camp San Mateo Camp Pen. 3.5 mi. N	35.925(4/ 4) (32.300-39.000)	<LLD (0/ 8)	0
Table 1B Direct Radiation Annual Composite (millirem)							
Gamma Exposure	69	5.0000	63.455(11/ 67) (53.000-78.000)	Camp San Mateo Camp Pen. 3.5 mi. N	78.000(1/ 1) (78.000-78.000)	<LLD (0/ 2)	0
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	520	0.0011	0.1564(96/468) (0.016- 0.860)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.1780(49/ 52) (0.016- 0.860)	0.1717(52/ 52) (0.041- 0.770)	0
Table 3 Airborne Weekly Composite (pCi/cu.m)							
I-131	520	0.0430	<LLD (0/468)	ALL <LLD	-----	<LLD (0/ 52)	0

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Table 4A							
Airborne							
Quarterly Composite							
(pCi/cu.m)							
Be-7	16	0.0540	0.1392(12/ 12) (0.087- 0.190)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.1527(4/ 4) (0.140- 0.170)	0.1267(4/ 4) (0.100- 0.150)	0
Ce-141	16	0.0010	0.0105(11/ 12) (0.006- 0.015)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.0127(3/ 4) (0.010- 0.014)	0.0085(4/ 4) (0.005- 0.019)	0
Ce-144	16	0.0020	0.0297(10/ 12) (0.004- 0.042)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0377(3/ 4) (0.036- 0.041)	0.0317(3/ 4) (0.028- 0.036)	0
Co-58	16	0.0010	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 4)	0
Co-60	16	0.0010	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 4)	0
Cs-134	16	0.0010	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 4)	0
Cs-137	16	0.0010	0.0024(5/ 12) (0.002- 0.003)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0030(2/ 4) (0.003- 0.003)	0.0020(2/ 4) (0.002- 0.002)	0

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Table 4A Airborne Quarterly Composite (pCi/cu.m)							
	Ru-103	16	0.0010	0.0098(12/ 12) (0.005- 0.017)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.0110(4/ 4) (0.005- 0.017) (0.0102(4/ 4) (0.005- 0.016)	0
	Zr(Nb)-95	16	0.0010	0.0422(12/ 12) (0.011- 0.097)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0475(4/ 4) (0.019- 0.083) (0.0380(4/ 4) (0.014- 0.076)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)							
	Gross Alpha	44	0.0003	0.0014(12/ 40) (0.000- 0.003)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0015(4/ 4) (0.001- 0.003) (0.0009(4/ 4) (0.000- 0.002)	0
	Sr-90	44	0.0030	0.0020(2/ 40) (0.002- 0.002)	Huntington Beach Generating Station 37 mi. NW	0.0020(1/ 4) (0.002- 0.002) (0.0020(1/ 4) (0.002- 0.002)	0
Table 5 Ocean Water Monthly Composite (pCi/l)							
	Ba(La)-140	12	28.600	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
	Co-58	12	4.9000	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
	Co-60	12	5.3000	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
	Cs-134	12	4.6000	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
	Cs-137	12	3.7000	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
Table 5 Ocean Water Monthly Composite (pCi/l)							
	Fe-59	12	8.8000	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
	I-131	12	25.500	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0
	Mn-54	12	3.7000	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 6)	0

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Table 5								
Ocean Water								
Monthly Composite (pCi/l)								
	Zn-65	12	7.6000	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 6)	0
	Zr(Nb)-95	12	7.3000	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 6)	0
Table 6								
Ocean Water								
Bi-Monthly Composite (pCi/L)								
	Gross Beta	24	105.00	1118.3(6/ 18) (910.00-1210.0)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	1118.3(6/ 6) (910.00-1210.0)	1053.3(6/ 6) (960.00-1140.0)	0
Table 7								
Ocean Water								
Quarterly Composite (pCi/l)								
	Tritium	8	102.00	600.00(1/ 6) (600.00-600.00)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	600.00(1/ 2) (600.00-600.00)	<LLD (0/ 2)	0
Table 9b								
Drinking Water								
Monthly Composite (pCi/l)								
	Gross Alpha	36	*	0.3000(5/ 36) (0.200- 0.600)	San Clemente Golf Course Well 3.5 mi. NNW	0.3000(5/ 12) (0.200- 0.600)	<LLD (0/ 0)	0
	Gross Beta	36	*	1.2028(36/ 36) (0.300- 4.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.6750(12/ 12) (0.400- 4.000)	<LLD (0/ 0)	0
Table 9c								
Drinking Water								
Monthly Composite (pCi/l)								
	Gross Alpha	36	*	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	36	*	12.583(36/ 36) (5.000-24.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	18.917(12/ 12) (11.000-24.000)	<LLD (0/ 0)	0

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Table 9d Drinking Water Quarterly Composite (pCi/l)							
Gross Alpha	12	*	0.2000(3/ 12) (0.200- 0.200)	San Clemente Golf Course Well 3.5 mi. NNW	0.2000(3/ 4) (0.200- 0.200)	<LLD (0/ 0)	0
Gross Beta	12	*	1.2250(12/ 12) (0.500- 2.900)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.6750(4/ 4) (0.500- 2.900)	<LLD (0/ 0)	0
Table 9e Drinking Water Quarterly Composite (pCi/l)							
Ba(La)-140	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-58	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-60	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-134	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9e Drinking Water Quarterly Composite (pCi/l)							
Fe-59	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Gross Alpha	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Gross Beta	12	*	12.667(12/ 12) (6.000-24.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	20.000(4/ 4) (14.000-24.000)	<LLD (0/ 0)	0
H-3	12	*	300.00(1/ 12) (300.00-300.00)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	300.00(1/ 4) (300.00-300.00)	<LLD (0/ 0)	0
I-131	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Mn-54	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Zn-65	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 9e Drinking Water Quarterly Composite (pCi/l)								
	Zr(Nb)-95	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
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	0.0380(1/ 6) (0.038- 0.038)	San Onofre Surfing Beach 0.9 mi. NW	0.0380(1/ 2) (0.038- 0.038)	0.0200(2/ 2) (0.019- 0.021)	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	0.4883(6/ 6) (0.150- 0.750)	San Onofre Surfing Beach 0.9 mi. NW	0.6300(2/ 2) (0.510- 0.750)	0.2850(2/ 2) (0.240- 0.330)	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)							
Co-58	6	0.0080	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Co-60	6	0.0080	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Cs-134	6	0.0070	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Cs-137	6	0.0060	0.0485(4/ 4) (0.041- 0.061)	Unit 1 Outfall 0.8 mi. SSW	0.0535(2/ 2) (0.046- 0.061)	<LLD (0/ 2)	0
Fe-59	6	0.0150	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
I-131	6	0.0170	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Mn-54	6	0.0060	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Ra-226	6	0.0120	0.5800(4/ 4) (0.560- 0.600)	Unit 1 Outfall 0.8 mi. SSW	0.5800(2/ 2) (0.560- 0.600)	0.2050(2/ 2) (0.170- 0.240)	0
Zn-65	6	0.0120	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
Zr(Nb)-95	6	0.0120	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 12a							
Non-Migratory Marine							
Quarterly Composite							
(pCi/g)							
			(0.007- 0.570)	Unit 1 Outfall	(0.007- 0.570)		
			(0.004- 0.004)	0.9 mi. WSW	(0.004- 0.004)		
			0.0780(7/ 32)	Unit 1 Outfall	0.0780(7/ 16)	<LLD (0/ 0)	0
Co-58	32	*	(0.007- 0.180)	0.9 mi. WSW	(0.007- 0.180)		
			0.0921(8/ 32)	Unit 1 Outfall	0.1027(7/ 16)	<LLD (0/ 0)	0
Co-60	32	*	(0.006- 0.380)	0.9 mi. WSW	(0.006- 0.380)		
			<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-134	32	*	0.0096(16/ 32)	Newport Beach	0.0097(8/ 16)	<LLD (0/ 0)	0
Cs-137	32	*	(0.005- 0.012)	18.2 mi. NW	(0.005- 0.012)		
			<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
Fe-59	32	*					

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Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)								
			(0.900-33.000)	Unit 1 Outfall 0.9 mi. WSW	(0.900-33.000)			
	I-131	32	*	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	32	*	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
			(0.006- 0.040)	Unit 1 Outfall 0.9 mi. WSW	(0.006- 0.040)			
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)								
	Sr-90	32	*	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	32	*	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	32	*	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)								
			(0.032- 0.160)	Unit 1 Outfall 0.9 mi. WSW	(0.032- 0.160)			
	Co-58	24	*	0.0110(1/ 24) (0.011- 0.011)	Unit 1 Outfall 0.9 mi. WSW	0.0110(1/ 12) (0.011- 0.011)	<LLD (0/ 0)	0
	Co-60	24	*	0.0370(1/ 24) (0.037- 0.037)	Unit 1 Outfall 0.9 mi. WSW	0.0370(1/ 12) (0.037- 0.037)	<LLD (0/ 0)	0
	Cs-134	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
	Fe-59	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
I-131	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
Mn-54	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
			(0.090- 0.090)	Unit 1 Outfall 0.9 mi. WSW	(0.090- 0.090)		
Sr-90	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
Zn-65	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
Zr(Nb)-95	24	*	<LLD (0/ 24)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13a Local Crops Semi-Annual Composite (pCi/g)							
			(0.120- 0.120)	San Mateo Canyon 2.6 mi. NW	(0.120- 0.120)		
			(0.060- 0.060)	San Mateo Canyon 2.6 mi. NW	(0.060- 0.060)		
Co-58	9	*	0.0500(1/ 9)	SE of Oceanside 22 mi. SE	0.0500(1/ 5)	<LLD (0/ 0)	0
			(0.050- 0.050)		(0.050- 0.050)		
Co-60	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-134	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	9	*	0.0640(1/ 9)	San Mateo Canyon 2.6 mi. NW	0.0640(1/ 4)	<LLD (0/ 0)	0
			(0.064- 0.064)		(0.064- 0.064)		
I-131	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 13a Local Crops Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	9	*	0.0500(2/ 9) (0.040- 0.060)	San Mateo Canyon 2.6 mi. NW	0.0600(1/ 4) (0.060- 0.060)	<LLD (0/ 0)	0
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)								
				SE of Oceanside 22 mi. SE	(20.000-20.000)	(20.000-20.000)		
bell peppers	Sr-90	1	0.0005	<LLD (0/ 0)	ALL <LLD	-----	<LLD (0/ 1)	0
cucumbers	H-3 Bound	2	0.2540	30.000(1/ 1) (30.000-30.000)	SE of Oceanside 22 mi. SE	36.000(1/ 1) (36.000-36.000)	36.000(1/ 1) (36.000-36.000)	0
cucumbers	Sr-90	2	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 1)	0
strawberries	H-3 Bound	2	0.2540	15.000(1/ 1) (15.000-15.000)	SE of Oceanside 22 mi. SE	16.000(1/ 1) (16.000-16.000)	16.000(1/ 1) (16.000-16.000)	0
strawberries	Sr-90	2	0.0005	0.0500(1/ 1) (0.050- 0.050)	San Mateo Canyon 2.6 mi. NW	0.0500(1/ 1) (0.050- 0.050)	<LLD (0/ 1)	0
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)								
tomato	H-3 Bound	4	0.2540	11.000(1/ 2) (11.000-11.000)	SE of Oceanside 22 mi. SE	64.000(1/ 2) (64.000-64.000)	64.000(1/ 2) (64.000-64.000)	0
tomato	Sr-90	4	0.0005	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 14 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	0.0650(2/ 4) (0.040- 0.090)	Camp San Onofre Camp Pen. 2.5 mi. NE	0.0900(1/ 1) (0.090- 0.090)	0.0400(1/ 1) (0.040- 0.040)	0
	I-131	5	0.0210	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 14 Soil Samples Annual Composite (pCi/g)								
	Sr-89	5	0.0070	0.0400(1/ 4) (0.040- 0.040)	E. Site Boundary 0.2 mi. NNW	0.0400(1/ 1) (0.040- 0.040)	<LLD (0/ 1)	0
	Sr-90	5	0.0070	0.0400(1/ 4) (0.040- 0.040)	Camp San Onofre Camp Pen. 2.5 mi. NE	0.0400(1/ 1) (0.040- 0.040)	<LLD (0/ 1)	0
	Zr(Nb)-95	5	0.0150	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 15 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	0.0049(5/ 6) (0.002- 0.007)	San Mateo Kelp Bed 3.8 mi. WNW	0.0050(1/ 2) (0.005- 0.005)	0.0035(2/ 2) (0.003- 0.004)	0
macrocystis p.	Fe-59	8	0.0180	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1977 to December 31, 1977

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.	H-3 Bound	8 0.4660	2.4833(6/ 6) (1.700- 3.900)	San Onofre Kelp Bed 1.5 mi. SSW	3.1000(2/ 2) (2.300- 3.900)	1.9500(2/ 2) (1.600- 2.300)	0
macrocystis p.	I-131	8 0.0200	0.0106(5/ 6) (0.003- 0.020)	Barn Kelp Bed 6.3 mi. SSE	0.0200(1/ 2) (0.020- 0.020)	0.0120(2/ 2) (0.004- 0.020)	0
macrocystis p.	Mn-54	8 0.0070	<LLD (0/ 6) (0.002- 0.002)	ALL <LLD Barn Kelp Bed 6.3 mi. SSE	----- (0.002- 0.002)	<LLD (0/ 2)	0
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	0.0233(6/ 6) (0.014- 0.048)	San Onofre Kelp Bed 1.5 mi. SSW	0.0310(2/ 2) (0.014- 0.048)	0.0240(2/ 2) (0.010- 0.038)	0