

05JUL91

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1974 to December 31, 1974

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 Name, Distance and Direction	Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	550	0.0011	0.1652(98/495) (0.040- 0.650)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.1693(49/ 55) (0.040- 0.650)	<LLD (0/ 55)	0
Table 3 Airborne Weekly Composite (pCi/cu.m)							
I-131	10	0.0430	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)							
Co-58	8	0.0010	<LLD (0/ 7)	ALL <LLD	-----	<LLD (0/ 1)	0
Co-60	8	0.0010	<LLD (0/ 7)	ALL <LLD	-----	<LLD (0/ 1)	0
Cs-134	8	0.0010	<LLD (0/ 7)	ALL <LLD	-----	<LLD (0/ 1)	0
Cs-137	8	0.0010	<LLD (0/ 7)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)							
Zr(Nb)-95	8	0.0010	0.0200(6/ 7) (0.004- 0.039)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.0223(3/ 3) (0.013- 0.034)	<LLD (0/ 1)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)							
Gross Alpha	44	0.0003	0.0049(4/ 40) (0.000- 0.017)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0170(1/ 4) (0.017- 0.017)	<LLD (0/ 4)	0
Sr-90	44	0.0030	0.0023(3/ 40) (0.001- 0.005)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0050(1/ 4) (0.005- 0.005)	0.0020(1/ 4) (0.002- 0.002)	0

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Table 5 Ocean Water Monthly Composite (pCi/l)								
	Ba(La)-140	4	28.600	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	Co-58	4	4.9000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	Co-60	4	5.3000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	Cs-134	4	4.6000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	Cs-137	4	3.7000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Fe-59	4	8.8000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	I-131	4	25.500	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	Mn-54	4	3.7000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Zn-65	4	7.6000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
	Zr(Nb)-95	4	7.3000	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 6 Ocean Water Bi-Monthly Composite (pCi/L)								
	Gross Beta	12	105.00	870.00(3/ 9) (670.00-990.00)	Newport Beach 30 mi. NW	950.00(1/ 3) (950.00-950.00)	950.00(1/ 3) (950.00-950.00)	0
Table 7 Ocean Water Quarterly Composite (pCi/l)								
	Tritium	4	102.00	<LLD (0/ 3)	ALL <LLD	-----	<LLD (0/ 1)	0

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Table 9d Drinking Water Quarterly Composite (pCi/l)							
	Gross Alpha	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	12	1.5500(8/ 12) (0.900- 2.300)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.7000(4/ 4) (1.300- 2.300)	<LLD (0/ 0)	0
Table 9e Drinking Water Quarterly Composite (pCi/l)							
	Ba(La)-140	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-58	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9e Drinking Water Quarterly Composite (pCi/l)							
	Fe-59	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Alpha	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	8	20.875(8/ 8) (18.000-24.000)	San Clemente Golf Course Well 3.5 mi. NNW	21.500(4/ 4) (18.000-24.000)	<LLD (0/ 0)	0
	H-3	8	614.29(7/ 8) (300.00-1000.0)	San Clemente Golf Course Well 3.5 mi. NNW	675.00(4/ 4) (500.00-1000.0)	<LLD (0/ 0)	0
	I-131	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 9e Drinking Water Quarterly Composite (pCi/l)								
	Zr(Nb)-95	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0	
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Co-58	7	0.0090	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
	Co-60	7	0.0090	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-134	7	0.0080	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-137	7	0.0070	<LLD (0/ 5)	Newport Beach (North End) 30 mi. NW	0.0150(1/ 2) (0.015- 0.015)	0.0150(1/ 2) (0.015- 0.015)	0
	Fe-59	7	0.0170	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	I-131	7	0.0690	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
	Mn-54	7	0.0070	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
	Ra-226	7	0.0130	0.3160(5/ 5) (0.180- 0.700)	San Onofre State Beach 0.6 mi. SE	0.4400(2/ 2) (0.180- 0.700)	0.3950(2/ 2) (0.210- 0.580)	0
	Zn-65	7	0.0140	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	7	0.0140	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
Co-58	2	0.0080	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-60	2	0.0080	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-134	2	0.0070	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	2	0.0060	0.0434(2/ 2) (0.043- 0.044)	Unit 1 Outfall 0.6 mi. W	0.0436(1/ 1) (0.044- 0.044)	<LLD (0/ 0)	0
Fe-59	2	0.0150	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
I-131	2	0.0170	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0
Mn-54	2	0.0060	<LLD (0/ 2) (0.466- 0.689)	Unit 1 Outfall 0.8 mi. SSW	(0.689- 0.689)	<LLD (0/ 0)	0
Zn-65	2	0.0120	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
Zr(Nb)-95	2	0.0120	<LLD (0/ 2)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12a							
Non-Migratory Marine							
Quarterly Composite							
(pCi/g)							
			(0.038- 0.181)	Unit 1 Outfall	(0.038- 0.181)		
			(0.008- 0.030)	0.9 mi. WSW			
				Newport Beach	(0.030- 0.030)		
				18.2 mi. NW			
Co-58	10	<LLD	(0/ 10)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-60	10	<LLD	(0/ 10)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-134	10	<LLD	(0/ 10)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	10	0.0353	(6/ 10)	0.0530	(3/ 5)	<LLD (0/ 0)	0
			(0.005- 0.145)	Newport Beach	(0.005- 0.145)		
				18.2 mi. NW			
Fe-59	10	<LLD	(0/ 10)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
I-131	10	<LLD (0/ 10) (1.350- 5.960)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW		----- (2.110- 5.960)	<LLD (0/ 0)	0
Mn-54	10	<LLD (0/ 10) (0.081- 0.081)	ALL <LLD Newport Beach 18.2 mi. NW		----- (0.081- 0.081)	<LLD (0/ 0)	0
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
Sr-90	10	<LLD (0/ 10)	ALL <LLD		-----	<LLD (0/ 0)	0
Zn-65	10	<LLD (0/ 10)	ALL <LLD		-----	<LLD (0/ 0)	0
Zr(Nb)-95	10	0.0145(1/ 10) (0.014- 0.014)	Newport Beach 18.2 mi. NW		0.0145(1/ 5) (0.014- 0.014)	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
			(0.091- 0.091)	Unit 1 Outfall 0.9 mi. WSW	(0.091- 0.091)		
Co-58	8	<LLD (0/ 8)	ALL <LLD		-----	<LLD (0/ 0)	0
Co-60	8	<LLD (0/ 8)	ALL <LLD		-----	<LLD (0/ 0)	0
Cs-134	8	<LLD (0/ 8)	ALL <LLD		-----	<LLD (0/ 0)	0
Cs-137	8	<LLD (0/ 8)	ALL <LLD		-----	<LLD (0/ 0)	0
Fe-59	8	<LLD (0/ 8)	ALL <LLD		-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
	I-131	8	<LLD (0/ 8) (1.420- 2.070)	ALL <LLD Newport Beach 18.2 mi. NW	----- (1.420- 2.070)	<LLD (0/ 0)	0
	Mn-54	8	<LLD (0/ 8) (0.014- 0.014)	ALL <LLD Newport Beach 18.2 mi. NW	----- (0.014- 0.014)	<LLD (0/ 0)	0
	Sr-90	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
	Zn-65	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13a Local Crops Semi-Annual Composite (pCi/g)							
	Co-58	4	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	4	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	4	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	4	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 0)	0
	I-131	4	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13a Local Crops Semi-Annual Composite (pCi/g)							
	Zr(Nb)-95	4	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)							
			(16.000-16.000)	San Mateo Canyon 2.6 mi. NW	(16.000-16.000)		
bell pepper	Sr-90	1	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 0)
			(83.000-83.000)	San Mateo Canyon 2.6 mi. NW	(83.000-83.000)		
cabbage	Sr-90	3	0.0005	0.0620(1/ 3)	San Mateo Canyon 2.6 mi. NW	<LLD (0/ 0)	0
			(0.062- 0.062)	San Mateo Canyon 2.6 mi. NW	(0.062- 0.062)		
			(4.000- 4.000)	San Mateo Canyon 2.6 mi. NW	(4.000- 4.000)		
cauliflower	Sr-90	1	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 0)

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Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)							
			(28.000-28.000)	San Mateo Canyon 2.6 mi. NW	(28.000-28.000)		
cucumber	Sr-90	1	0.0005	<LLD (0/ 1)	-----	<LLD (0/ 0)	0
squash	Sr-90	2	0.0005	0.0250(1/ 2) (0.025- 0.025)	San Mateo Canyon 2.6 mi. NW (0.025- 0.025)	0.0250(1/ 2) (0.025- 0.025)	<LLD (0/ 0) 0
tomato	H-3 Bound	7	0.2540	34.667(3/ 5) (20.000-59.000)	San Mateo Canyon 2.6 mi. NW (20.000-59.000)	34.667(3/ 5) (19.000-19.000)	19.000(1/ 2) 0
tomato	Sr-90	7	0.0005	<LLD (0/ 5)	San Mateo Canyon 2.6 mi. NW SE of Oceanside 22 mi. SE	0.0460(1/ 2) (0.046- 0.046)	0.0460(1/ 2) (0.046- 0.046) 0
Table 15 Kelp Semi-Annual Composite (pCi/g)							
macrocystis p.	Co-58	6	0.0090	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0
macrocystis p.	Co-60	6	0.0100	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0
macrocystis p.	Cs-134	6	0.0080	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0
macrocystis p.	Cs-137	6	0.0060	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0
macrocystis p.	Fe-59	6	0.0180	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0
Table 15 Kelp Semi-Annual Composite (pCi/g)							
			(6.000- 6.000)	Barn Kelp Bed 6.3 mi. SSE	(6.000- 6.000)		
macrocystis p.	I-131	6	0.0200	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0
macrocystis p.	K-40	6	0.0770	4.8260(5/ 5) (1.570- 8.030)	San Mateo Kelp Bed 3.8 mi. WNW	5.3150(2/ 2) (4.780- 5.850)	1.5200(1/ 1) (1.520- 1.520) 0
macrocystis p.	Mn-54	6	0.0070	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1) 0

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Table 15							
Kelp							
Semi-Annual Composite (pCi/g)							
macrocystis p.	Zn-65	6 0.0140	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 1)	0
macrocystis p.	Zr(Nb)-95	6 0.0140	0.0428(5/ 5) (0.022- 0.067)	San Onofre Kelp Bed 1.5 mi. SSW	0.0546(2/ 2) (0.042- 0.067)	0.0169(1/ 1) (0.017- 0.017)	0