

APPENDIX L

**Summary of 1987-93 Data
Trace Elements in Mussels, Clams, and Sediment
(ppm, wet weight)**

APPENDIX L

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
2.0	Crescent City/STP Outfall	RCM	02/12/88	78.3	NA	0.63	1.01	1.18	0.344	2.05	0.088	NA	NA	0.360	NA	24.67
2.0	Crescent City/STP Outfall	RCM	02/17/89	27.3	NA	0.58	0.31	1.72	0.270	1.04	0.145	NA	NA	0.167	NA	32.59
2.0	Crescent City/STP Outfall	RCM	02/23/90	54.5	NA	0.62	0.44	1.59	0.380	1.62	0.038	NA	NA	0.363	NA	25.88
2.0	Crescent City/STP Outfall	RCM	02/27/90	92.0	NA	0.70	4.20	1.70	0.350	1.80	0.140	NA	NA	0.620	NA	28.00
2.0	Crescent City/STP Outfall	RCM	03/12/92	82.0	NA	0.60	0.39	1.80	0.380	1.40	0.200	NA	NA	0.830	NA	30.00
3.0	Crescent City/Control	RCM	02/12/88	72.7	NA	0.96	0.94	0.93	0.219	2.37	0.047	NA	NA	0.050	NA	26.13
3.0	Crescent City/Control	RCM	02/17/89	41.8	NA	0.70	0.40	1.08	0.170	1.89	0.037	NA	NA	0.004	NA	34.50
3.0	Crescent City/Control	RCM	02/23/90	89.0	NA	0.76	0.56	1.55	0.140	2.73	0.026	NA	NA	0.002	NA	29.10
3.0	Crescent City/Control	RCM	02/27/90	260.0	NA	1.10	9.10	1.80	0.210	4.10	0.050	NA	0.23	0.010	NA	31.00
3.0	Crescent City/Control	RCM	03/12/92	180.0	NA	0.50	0.60	1.80	0.120	2.90	0.040	NA	NA	0.005	NA	21.00
10.0	Trinidad Head	RCM	09/08/87	47.3	NA	1.32	0.63	1.02	0.264	2.27	0.009	NA	NA	0.007	NA	18.00
0.0	Trinidad Head	RCM	09/20/88	54.1	NA	1.09	0.50	1.29	0.130	2.70	0.026	0.53	NA	0.006	9.590	24.34
10.0	Trinidad Head	RCM	09/28/89	77.8	NA	1.32	0.51	1.70	0.134	3.39	0.018	NA	NA	0.005	NA	20.12
10.0	Trinidad Head	RCM	09/18/90	130.0	1.60	1.10	0.53	0.90	0.190	1.90	0.020	0.50	0.23	ND	NA	23.00
10.0	Trinidad Head	RCM	10/08/91	92.0	1.20	1.50	0.45	1.70	0.200	1.70	0.020	0.60	0.44	0.004	NA	25.00
10.0	Trinidad Head	RCM	10/22/92	120.0	NA	1.50	0.45	1.70	0.130	2.30	0.014	NA	NA	0.004	NA	18.00
100.0	Mad River Slough	TCM	02/25/92	180.0	NA	0.60	0.50	1.70	0.180	3.10	0.020	NA	NA	0.004	NA	22.00
101.0	Samoa Bridge/West	TCM	02/27/91	320.0	NA	0.90	6.80	2.00	0.220	4.70	0.040	NA	NA	0.010	NA	32.00
102.0	Samoa Bridge/East	TCM	02/17/89	120.2	NA	0.70	0.70	1.51	0.260	3.88	0.046	NA	NA	0.007	NA	34.29
102.0	Samoa Bridge/East	TCM	02/25/92	210.0	NA	0.90	0.52	1.40	0.290	2.60	0.030	NA	NA	0.004	NA	27.00
103.0	Eureka Channel	TCM	02/17/89	123.9	NA	0.84	0.81	1.51	0.260	3.93	0.035	NA	NA	0.004	NA	31.96
103.0	Eureka Channel	TCM	02/25/92	280.0	NA	0.90	0.70	1.60	0.230	3.60	0.030	NA	NA	0.004	NA	26.00
103.0	Eureka Channel	TCM	02/17/93	290.0	NA	0.68	2.20	1.60	0.230	3.60	0.025	NA	NA	0.002	NA	23.00
103.2	Louisiana Pacific Dock	TCM	02/11/88	200.7	NA	0.72	0.99	0.98	0.287	3.78	0.025	NA	NA	0.008	NA	22.83
103.3	E Street	TCM	02/25/92	260.0	NA	1.10	0.66	1.60	0.380	3.20	0.030	NA	NA	0.004	NA	29.00
103.7	Eda Dock	TCM	02/25/92	150.0	NA	1.00	0.45	1.30	0.370	1.80	0.030	NA	NA	0.003	NA	29.00
104.0	Eureka STP/Outfall	TCM	02/11/88	164.7	NA	0.77	1.05	1.55	0.201	3.47	0.020	NA	NA	0.008	NA	23.30
104.0	Eureka STP/Outfall	TCM	02/23/90	170.6	NA	0.94	0.86	1.66	0.199	3.67	0.028	NA	NA	0.004	NA	29.59
104.0	Eureka STP/Outfall	TCM	02/27/91	360.0	NA	1.00	9.60	2.00	0.250	5.10	0.020	NA	NA	0.010	NA	30.00
104.0	Eureka STP/Outfall	TCM	02/25/92	250.0	NA	0.80	0.58	1.70	0.230	3.50	0.030	NA	NA	0.005	NA	28.00
104.5	Eureka STP/Control	TCM	02/12/88	127.7	NA	0.71	1.00	1.03	0.235	2.97	0.020	NA	NA	0.004	NA	22.97
104.5	Eureka STP/Control	TCM	02/17/89	109.0	NA	0.80	0.73	1.51	0.200	3.59	0.042	NA	NA	0.005	NA	29.21
104.5	Eureka STP/Control	TCM	02/23/90	163.6	NA	0.84	0.72	1.75	0.311	3.68	0.025	NA	NA	0.003	NA	27.83
104.5	Eureka STP/Control	TCM	02/27/91	380.0	NA	0.80	5.90	1.90	0.290	4.80	0.020	NA	NA	0.010	NA	29.00
104.5	Eureka STP/Control	TCM	02/25/92	260.0	NA	0.90	0.60	1.80	0.230	3.70	0.030	NA	NA	0.004	NA	26.00
104.5	Eureka STP/Control	TCM	02/17/93	350.0	NA	0.61	1.50	1.60	0.220	4.10	0.024	NA	NA	0.003	NA	20.00
106.0	Fields Landing	TCM	02/25/92	240.0	NA	1.10	0.57	1.40	0.270	3.00	0.030	NA	NA	0.004	NA	26.00
150.4	Noyo Harbor	SED	03/02/93	19000.0	NA	0.12	42.00	25.00	3.800	220.00	0.040	NA	NA	0.037	NA	68.00
155.1	Lake Pillsbury 1	TFC	03/31/93	310.0	NA	0.06	2.30	6.40	0.050	6.90	0.020	NA	NA	0.010	NA	13.00
155.3	Lake Pillsbury 2	TFC	03/31/93	390.0	NA	0.06	1.10	7.10	0.070	8.40	0.021	NA	NA	0.009	NA	15.00

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* RCM = Resident California Mussel
TCM = Transplanted California Mussel
RBM = Resident Bay Mussel

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NA = Not Analyzed
ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
159.0	Russian River West Fork	TFC	03/20/90	200.5	0.85	0.16	3.13	7.58	0.120	7.73	0.027	NA	0.39	0.007	NA	18.10
159.0	Russian River West Fork	TFC	01/29/91	23.0	NA	0.20	1.20	6.80	0.060	1.40	0.030	NA	NA	ND	NA	14.00
159.0	Russian River West Fork	TFC	03/06/92	460.0	0.80	0.30	2.00	3.30	0.090	6.30	0.030	0.90	0.45	0.040	NA	11.00
159.0	Russian River West Fork	TFC	03/30/93	260.0	NA	0.06	2.10	6.60	0.060	5.40	0.020	NA	NA	0.009	NA	14.00
160.0	Lake Mendocino	RFC	11/30/89	53.0	2.19	0.10	0.67	8.48	0.114	5.20	0.017	NA	0.33	0.011	NA	9.15
165.0	Russian River Below Ukiah	TFC	03/20/90	211.8	0.90	0.19	1.77	8.31	0.314	9.54	0.032	NA	0.37	0.094	NA	19.98
165.0	Russian River Below Ukiah	TFC	03/06/92	520.0	0.50	0.30	1.70	8.50	0.110	12.00	0.020	1.40	0.29	0.021	NA	11.00
165.0	Russian River Below Ukiah	TFC	03/30/93	250.0	NA	0.06	0.60	6.60	0.050	5.60	0.024	NA	NA	0.043	NA	16.00
175.0	Big Sulfur Creek	TFC	03/21/90	314.8	NA	0.70	4.84	24.26	0.413	9.57	NA	NA	NA	0.020	NA	42.02
175.0	Big Sulfur Creek	TFC	01/29/91	110.0	NA	1.00	7.30	42.00	0.240	24.00	0.300	NA	NA	0.030	NA	79.00
175.0	Big Sulfur Creek	TFC	03/30/93	100.0	NA	0.06	0.50	6.70	0.020	3.00	0.018	NA	NA	0.007	NA	13.00
176.0	Lake Sonoma	TFC	03/30/93	120.0	NA	0.06	2.20	6.30	0.030	4.30	0.015	NA	NA	0.010	NA	14.00
190.0	Estero Americano	RCM	12/05/88	32.3	NA	2.15	0.27	1.58	0.100	1.37	0.035	NA	NA	0.009	NA	24.90
190.0	Estero Americano	RCM	02/06/90	54.6	1.66	1.46	0.32	1.44	0.094	1.36	0.030	0.40	0.40	0.010	NA	25.44
190.0	Estero Americano	RCM	01/29/91	110.0	1.40	2.60	0.37	1.50	0.120	1.60	0.040	NA	0.28	0.020	NA	26.00
190.0	Estero Americano	RCM	03/05/92	180.0	1.20	1.40	0.35	1.60	0.090	2.40	0.020	0.50	0.51	0.014	NA	22.00
202.0	Bodega Head	RCM	08/14/87	15.7	NA	1.44	0.53	0.81	0.138	1.01	0.023	0.26	0.47	0.018	5.390	16.57
202.0	Bodega Head	RCM	08/24/88	14.0	1.97	1.87	0.23	1.08	0.100	0.73	0.035	0.26	0.50	0.011	1.080	20.93
202.0	Bodega Head	RCM	08/28/89	5.2	1.81	1.82	0.19	0.91	0.103	0.59	0.028	0.27	0.36	0.008	0.690	19.46
202.0	Bodega Head	RCM	11/14/89	54.9	2.22	1.31	0.26	1.42	0.202	1.56	0.036	0.41	0.45	0.015	2.673	29.84
202.0	Bodega Head	RCM	08/22/90	39.0	1.40	1.80	0.24	0.80	0.170	0.80	0.030	0.40	0.24	0.010	NA	25.00
202.0	Bodega Head	RCM	08/28/91	25.0	1.20	1.90	0.15	1.00	0.110	0.70	0.030	0.30	0.37	0.007	NA	23.00
202.0	Bodega Head	RCM	09/01/92	23.0	2.50	2.00	0.32	0.90	0.170	0.80	0.025	0.27	0.35	0.007	NA	25.00
203.0	Tomales Bay	RBM	01/29/91	220.0	0.70	0.50	0.53	0.80	0.060	5.60	0.020	NA	0.36	ND	NA	10.00
203.0	Tomales Bay	RBM	12/30/91	170.0	0.60	0.60	0.24	0.90	0.040	3.60	0.030	0.60	0.59	0.003	NA	11.00
204.0	Estero De San Antonio	TCM	02/26/93	130.0	NA	1.10	2.50	1.20	0.150	2.30	0.033	NA	NA	0.002	NA	25.00
205.0	Bodega Harbor/Spud Point Marina	TCM	01/29/89	57.0	NA	0.86	0.29	3.23	0.230	1.37	0.049	NA	NA	0.004	NA	36.70
205.0	Bodega Harbor/Spud Point Marina	TCM	01/29/91	420.0	NA	1.30	0.46	2.70	0.270	2.00	0.060	NA	NA	0.010	NA	38.00
205.0	Bodega Harbor/Spud Point Marina	SED	11/20/91	7100.0	NA	0.40	98.00	41.00	6.000	120.00	0.110	NA	NA	0.041	NA	64.00
205.0	Bodega Harbor/Spud Point Marina	TCM	01/10/92	160.0	1.30	1.60	0.35	2.80	0.280	1.40	0.050	0.40	0.55	0.003	NA	36.00
205.0	Bodega Harbor/Spud Point Marina	TCM	03/02/93	260.0	NA	1.30	1.10	2.80	0.380	2.60	0.041	NA	NA	0.002	NA	45.00
207.0	Point Reyes	RCM	01/29/91	40.0	NA	2.60	0.33	1.10	0.200	0.90	0.030	NA	NA	0.080	NA	23.00
280.0	Russian River/S Goat Rock	RCM	12/29/87	104.7	NA	1.17	0.83	1.04	0.122	2.53	0.013	NA	NA	0.013	NA	10.60
280.0	Russian River/S Goat Rock	RCM	12/05/88	55.7	NA	2.32	0.48	1.87	0.100	2.17	0.025	NA	NA	0.005	NA	23.33
280.0	Russian River/S Goat Rock	TCM	02/25/93	180.0	NA	0.96	2.20	1.50	0.110	2.90	0.032	NA	NA	0.006	NA	28.00
290.0	Russian River/near Moscow	TFC	02/08/88	631.0	NA	1.82	5.40	4.19	0.297	22.15	0.026	NA	NA	0.040	NA	13.23
290.0	Russian River/near Moscow	TFC	03/30/93	80.0	NA	0.07	1.60	5.80	0.020	2.90	0.011	NA	NA	0.005	NA	11.00
294.1	Mark West Creek/Slusser Road	TFC	04/07/92	61.0	0.40	0.40	0.57	7.30	0.020	3.10	0.020	0.30	0.34	0.017	NA	8.00
294.2	Windsor Creek/Mark West Station Rd	TFC	04/07/92	190.0	0.50	0.30	0.99	8.40	0.070	21.00	0.070	0.60	0.30	0.014	NA	14.00
294.5	Green Valley Creek 1	TFC	03/30/93	67.0	NA	0.08	2.30	8.50	0.040	3.70	0.012	NA	NA	0.008	NA	18.00

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294.6	Green Valley Creek 2	TFC	03/30/93	55.0	NA	0.06	2.00	6.20	0.040	2.90	0.016	NA	NA	0.011	NA	15.00
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	12/05/88	12.6	0.52	0.97	0.09	3.01	0.070	3.55	0.038	0.29	0.36	0.023	0.660	12.70
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	03/20/90	74.7	0.80	0.17	1.05	5.42	0.212	5.67	0.043	0.63	0.30	0.003	NA	20.75
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	01/30/91	75.0	0.90	0.20	0.28	6.10	0.090	10.00	0.030	NA	0.20	ND	NA	16.00
295.2	Laguna de Santa Rosa/Stony Point	TFC	12/05/88	3.4	0.48	0.62	0.06	2.81	0.070	2.96	0.011	0.13	0.30	0.013	1.730	9.60
295.2	Laguna de Santa Rosa/Stony Point	TFC	03/20/90	122.4	0.89	0.24	1.17	6.76	0.188	20.60	0.038	0.77	0.38	0.004	NA	18.03
295.2	Laguna de Santa Rosa/Stony Point	TFC	01/30/91	40.0	0.90	0.20	0.26	6.80	0.040	7.20	0.040	NA	0.23	ND	NA	17.00
295.2	Laguna De Santa Rosa/Stony Point	TFC	04/07/92	110.0	0.80	0.30	1.50	15.00	0.090	3.90	0.040	0.30	0.41	0.031	NA	13.00
295.3	Mark West Creek/Wholer Road	TFC	12/05/88	26.3	0.58	1.03	0.11	3.40	0.050	4.19	0.033	0.34	0.46	0.027	1.270	15.27
295.3	Mark West Creek/Wholer Road	TFC	03/20/90	105.0	0.78	0.19	1.37	5.68	0.072	6.27	0.026	0.96	0.29	0.004	NA	25.15
295.3	Mark West Creek/Wholer Road	TFC	04/07/92	350.0	0.60	0.30	1.70	9.30	0.090	7.40	0.020	1.60	0.32	0.019	NA	11.00
295.4	Russian River/Wholer Bridge	TFC	12/05/88	27.3	0.63	0.91	0.32	6.94	0.050	3.04	0.024	0.51	0.36	0.023	1.390	13.77
295.4	Russian River/Wholer Bridge	TFC	03/20/90	109.4	0.89	0.20	1.28	6.14	0.130	15.27	0.037	0.51	0.35	0.006	NA	15.41
295.4	Russian River/Wholer Bridge	TFC	01/30/91	50.0	0.70	0.30	0.29	6.10	0.040	2.70	0.030	NA	0.21	ND	NA	14.00
295.4	Russian River/Wholer Bridge	TFC	04/07/92	82.0	0.40	0.30	0.61	8.90	0.060	4.20	0.040	0.40	0.36	0.017	NA	15.00
295.5	Russian River/Hacienda Bridge	TFC	12/05/88	91.9	0.58	0.83	0.46	4.02	0.070	7.98	0.043	1.06	0.48	0.023	2.450	16.03
295.5	Russian River/Hacienda Bridge	TFC	03/20/90	99.8	1.03	0.24	1.58	7.01	0.086	6.05	0.026	1.00	0.41	0.007	NA	18.39
295.5	Russian River/Hacienda Bridge	TFC	04/07/92	69.0	0.60	0.30	1.10	9.00	0.040	2.90	0.020	0.50	0.32	0.022	NA	8.00
298.0	Brannan Island	RFC	12/29/87	25.0	NA	0.25	1.16	10.02	0.106	2.38	0.016	NA	0.36	0.023	NA	17.27
298.0	Brannan Island	RFC	12/29/88	73.1	NA	0.40	1.60	16.63	0.110	4.89	0.050	NA	0.50	0.032	NA	26.27
298.3	Concord Naval/Pier 4	TCM	12/08/87	170.7	NA	0.52	0.63	1.19	0.132	4.04	0.014	NA	NA	0.008	NA	12.30
298.4	Concord Naval/Seal Island	TCM	12/08/87	172.0	NA	0.58	0.65	1.27	0.155	3.92	0.022	NA	NA	0.014	NA	14.27
299.1	Selby Slag 4	TCM	01/14/88	49.0	NA	1.82	0.57	1.60	0.248	1.71	0.034	NA	NA	0.019	NA	26.77
299.2	Selby Slag 5	TCM	01/14/88	35.7	NA	0.74	0.37	1.10	0.267	1.35	0.015	NA	NA	0.009	NA	15.77
299.3	Selby Slag 6	TCM	01/14/88	50.7	NA	0.91	0.41	0.92	0.172	1.29	0.017	NA	NA	0.009	NA	16.27
299.4	Selby Slag 7	TCM	01/14/88	32.3	NA	1.03	0.41	0.97	0.154	1.21	0.022	NA	NA	0.014	NA	16.80
300.2	Mare Island	TCM	01/14/88	26.0	NA	0.97	0.27	1.00	0.184	1.19	0.024	NA	0.35	0.010	NA	16.90
300.2	Mare Island	TCM	12/30/88	37.8	NA	0.91	0.22	1.08	0.120	2.37	0.036	NA	0.38	0.010	NA	18.97
301.0	Davis Point	TCM	01/14/88	64.7	NA	0.97	0.38	1.11	0.204	1.45	0.019	NA	NA	0.011	NA	19.03
301.4	Union Oil Outfall	TCM	01/28/88	36.7	NA	1.23	0.34	1.26	0.255	1.48	0.019	NA	1.93	0.076	NA	29.10
301.4	Union Oil Outfall	TCM	12/30/88	56.4	NA	1.37	0.31	1.29	0.240	1.84	0.044	NA	3.10	0.077	NA	35.30
302.0	Point Pinole	TCM	01/14/88	65.3	NA	1.32	0.37	1.14	0.279	1.97	0.029	NA	0.41	0.011	NA	26.33
302.0	Point Pinole	TCM	12/30/88	72.7	NA	1.24	0.36	1.41	0.170	1.82	0.043	NA	0.54	0.013	NA	22.77
302.0	Point Pinole	TCM	02/09/90	92.0	NA	1.56	0.45	1.08	0.363	2.14	0.035	NA	NA	0.009	NA	28.12
302.0	Point Pinole	TCM	01/16/91	230.0	1.20	1.40	0.54	6.70	0.390	2.30	0.040	NA	0.37	0.010	NA	35.00
302.0	Point Pinole	TCM	12/27/91	210.0	1.00	1.30	0.37	1.60	0.230	2.70	0.030	0.40	0.56	0.009	NA	30.00
302.0	Point Pinole	TCM	01/20/93	130.0	1.10	2.00	0.46	1.20	0.350	1.70	0.035	0.42	0.50	0.012	NA	36.00
302.4	Castro Cove Bridge	TCM	01/18/88	69.0	NA	1.04	0.56	1.55	0.621	4.06	0.078	NA	0.56	0.011	NA	23.43
302.4	Castro Cove Bridge	TCM	12/29/88	110.2	NA	1.13	0.58	2.07	0.590	6.32	0.106	NA	0.78	0.015	NA	32.60
303.1	Santa Fe Channel/Mouth	TCM	03/22/91	340.0	1.10	1.40	4.70	2.00	0.470	4.00	0.060	NA	0.33	0.030	NA	38.00

L-4

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

L-5

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
303.3	Lauritzen Canal/End	TCM	03/22/91	230.0	1.10	1.80	1.30	1.40	0.510	5.80	0.040	NA	0.20	0.010	NA	38.00
303.4	Santa Fe Channel/End	TCM	03/22/91	260.0	1.00	1.00	0.92	6.20	0.820	4.90	0.060	NA	0.30	0.030	NA	49.00
303.6	Richmond Inner Harbor Basin	TCM	01/14/88	97.3	NA	1.02	0.50	2.43	0.397	2.46	0.052	NA	NA	0.011	NA	27.80
303.6	Richmond Inner Harbor Basin	TCM	12/29/88	81.9	NA	0.85	0.39	2.82	0.460	2.57	0.077	NA	NA	0.009	NA	33.07
304.4	Serl Intake	TCM	03/22/91	270.0	1.00	1.20	4.70	2.00	0.450	3.70	0.090	NA	0.47	0.030	NA	34.00
304.6	Point Isabel	TCM	01/14/88	131.7	NA	1.11	0.44	1.58	1.393	1.88	0.068	NA	NA	0.013	NA	28.43
306.0	San Francisco Bay/Fort Baker	TCM	01/30/91	310.0	1.30	1.10	0.53	2.40	0.480	3.70	0.040	NA	0.53	0.190	NA	34.00
306.0	San Francisco Bay/Fort Baker	TCM	12/17/91	240.0	1.10	1.40	0.41	1.90	0.350	2.70	0.030	0.40	0.90	0.087	NA	25.00
306.0	San Francisco Bay/Fort Baker	TCM	01/20/93	250.0	1.50	0.99	0.53	1.90	0.580	3.50	0.038	0.55	0.82	0.150	NA	33.00
306.5	Alcatraz Island	TCM	01/05/89	63.0	NA	1.09	0.33	1.93	0.250	2.54	0.055	NA	NA	0.054	NA	32.27
307.0	San Francisco Bay/Treasure Is	TCM	01/14/88	229.0	NA	1.32	0.54	2.03	0.273	3.19	0.049	NA	0.86	0.113	NA	29.53
307.0	San Francisco Bay/Treasure Is	TCM	12/30/88	87.8	NA	0.98	0.40	2.00	0.220	3.48	0.067	NA	0.98	0.087	NA	30.30
307.0	San Francisco Bay/Treasure Is	TCM	02/09/90	102.7	NA	1.33	0.39	1.48	0.380	2.88	0.031	NA	NA	0.118	NA	32.90
307.0	San Francisco Bay/Treasure Is	TCM	01/16/91	280.0	1.60	1.40	0.55	2.70	0.430	4.00	0.040	NA	0.61	0.200	NA	35.00
307.0	San Francisco Bay/Treasure Is	TCM	12/17/91	280.0	1.10	1.30	0.48	1.90	0.300	3.70	0.040	0.50	0.76	0.092	NA	31.00
307.0	San Francisco Bay/Treasure Is	TCM	02/01/93	110.0	1.40	1.70	0.32	1.50	0.230	2.00	0.028	0.49	0.73	0.130	NA	38.00
307.2	Alameda Yacht Harbor	TCM	01/14/88	135.0	NA	1.82	0.67	3.10	1.530	7.51	0.092	NA	NA	0.024	NA	44.43
307.2	Alameda Yacht Harbor	TCM	12/30/88	77.8	NA	1.17	0.40	2.81	0.840	4.23	0.101	NA	NA	0.015	NA	42.93
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/14/88	142.3	NA	1.72	0.76	7.57	4.140	5.10	0.101	NA	NA	0.060	NA	45.03
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	12/30/88	49.8	NA	1.15	0.32	3.78	0.990	3.23	0.097	NA	NA	0.040	NA	40.07
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/30/91	180.0	1.20	1.50	0.46	4.30	1.300	4.50	0.040	NA	0.18	0.040	NA	48.00
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	12/17/91	100.0	1.00	1.60	0.26	2.40	0.590	2.90	0.040	0.30	0.26	0.017	NA	36.00
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/20/93	170.0	1.50	1.80	0.57	2.10	0.540	4.40	0.050	0.52	0.38	0.009	NA	50.00
307.5	Lake Merritt	RBM	05/22/92	60.0	NA	0.80	0.33	1.30	0.880	2.80	0.040	NA	NA	0.003	NA	34.00
307.5	Lake Merritt	RCM	03/16/93	170.0	NA	0.74	0.39	1.90	2.000	8.60	0.034	0.73	NA	0.004	NA	41.00
307.6	Oakland Back Harbor	TCM	01/14/88	116.0	NA	1.26	0.62	2.83	1.423	5.34	0.096	NA	NA	0.023	NA	37.90
307.8	San Francisco Outfall	TCM	12/29/88	52.5	NA	1.16	0.34	2.82	0.390	2.34	0.097	NA	NA	0.172	NA	32.80
307.9	San Francisco/Islands Channel	TCM	01/15/88	88.3	NA	1.03	0.44	1.54	0.690	2.09	0.078	NA	NA	0.317	NA	21.50
308.0	San Francisco Bay/Hunter's Point	TCM	01/16/91	310.0	1.40	1.20	0.67	1.90	0.370	3.90	0.050	NA	0.37	0.230	NA	31.00
308.0	San Francisco Bay/Hunter's Point	TCM	12/16/91	220.0	1.00	1.30	0.42	1.50	0.220	3.40	0.030	0.40	0.56	0.084	NA	27.00
308.0	San Francisco Bay/Hunter's Point	TCM	02/01/93	260.0	NA	1.60	0.64	1.60	0.390	3.20	0.032	0.65	NA	0.110	NA	40.00
308.2	Hunter's Point/Shipyard	TCM	01/15/88	91.7	NA	1.02	0.51	1.80	0.650	2.46	0.045	NA	NA	0.046	NA	24.03
308.2	Hunter's Point/Shipyard	TCM	12/29/88	75.7	NA	1.18	0.42	2.37	0.560	3.04	0.077	NA	NA	0.056	NA	36.00
309.0	San Mateo Bridge/8B	TCM	02/09/90	112.8	NA	1.27	0.41	1.49	0.276	2.72	0.056	NA	NA	0.099	NA	26.21
309.0	San Mateo Bridge/8B	TCM	01/16/91	190.0	1.30	1.50	0.51	1.10	0.270	2.60	0.040	NA	0.21	0.090	NA	26.00
309.0	San Mateo Bridge/8B	TCM	12/16/91	280.0	1.00	1.40	0.47	1.60	0.240	3.50	0.020	0.50	0.47	0.058	NA	28.00
309.0	San Mateo Bridge/8B	TCM	02/01/93	280.0	NA	1.80	0.72	1.80	0.380	3.70	0.039	0.70	NA	0.120	NA	38.00
313.0	San Francisco Bay/near Redwood Cr	TCM	01/16/91	200.0	1.20	1.40	1.80	1.20	0.300	3.00	0.030	NA	0.25	0.070	NA	34.00
313.0	San Francisco Bay/Near Redwood Cr	TCM	12/16/91	200.0	1.00	1.40	0.37	1.40	0.220	3.80	0.020	0.40	0.42	0.026	NA	28.00
313.0	San Francisco Bay/near Redwood Cr	TCM	02/01/93	300.0	NA	1.50	0.75	1.30	0.360	4.40	0.028	0.69	NA	0.033	NA	30.00

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/15/88	136.3	NA	1.29	0.53	1.91	0.210	4.79	0.046	NA	NA	0.073	NA	23.87
321.0	Dumbarton Bridge/Channel Marker 14	TCM	12/29/88	86.5	NA	1.21	0.38	1.22	0.210	5.43	0.068	NA	NA	0.049	NA	25.37
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/16/91	350.0	1.20	1.50	0.81	1.30	0.340	6.00	0.050	NA	0.25	0.070	NA	33.00
321.0	Dumbarton Bridge/Channel Marker 14	TCM	12/16/91	250.0	1.10	1.50	0.48	1.40	0.230	4.70	0.030	0.40	0.42	0.023	NA	28.00
323.3	Palo Alto Outfall	TCM	12/29/88	47.7	NA	1.28	0.34	1.37	0.170	2.43	0.064	NA	NA	0.074	NA	22.77
323.3	Palo Alto Outfall	TCM	02/09/90	116.9	NA	1.12	0.34	1.68	0.222	5.15	0.092	NA	NA	0.170	NA	23.27
326.0	Palo Alto/Channel Marker 8	TCM	01/16/91	270.0	1.00	1.30	0.60	1.80	0.350	7.20	0.050	NA	0.37	0.110	NA	35.00
326.0	Palo Alto/Channel Marker 8	TCM	12/16/91	240.0	0.90	1.30	0.41	1.90	0.280	6.30	0.020	0.50	0.39	0.057	NA	26.00
326.0	Palo Alto/Channel Marker 8	TCM	02/01/93	130.0	1.30	1.30	0.39	1.90	0.310	4.70	0.033	0.41	1.20	0.120	NA	32.00
336.0	J. Fitzgerald	RCM	01/30/91	92.0	1.60	1.40	0.38	1.20	0.190	1.10	0.040	NA	0.26	0.100	NA	24.00
399.5	San Lorenzo River	SED	01/14/91	44000.0	NA	1.20	32.00	2.20	13.000	98.00	0.020	NA	NA	0.030	NA	14.00
399.7	San Lorenzo River/Felton	SED	12/03/90	49000.0	NA	1.60	12.00	4.30	12.000	130.00	0.020	NA	NA	0.060	NA	36.00
399.7	San Lorenzo River/Felton	TFC	02/16/91	120.0	NA	0.20	2.60	6.60	0.150	12.00	0.040	NA	NA	0.010	NA	15.00
400.2	Younger Lagoon	SED	11/04/92	29000.0	NA	0.02	56.00	1.50	3.900	50.00	0.018	NA	NA	0.020	NA	8.00
400.2	Younger Lagoon	TCM	02/25/93	69.0	NA	1.60	0.29	1.20	0.110	1.40	0.028	NA	NA	0.009	NA	22.00
400.6	Santa Cruz/Natural Bridges	RCM	02/16/88	26.7	NA	0.56	0.38	1.12	0.380	0.66	0.033	NA	NA	0.288	NA	21.00
400.6	Santa Cruz/Natural Bridges	RCM	01/28/89	24.9	NA	0.75	0.19	1.44	0.180	0.73	0.037	NA	NA	0.147	NA	27.90
400.8	Aptos Creek	TFC	01/31/90	133.7	0.95	0.17	1.07	6.32	0.085	17.31	0.037	NA	0.38	0.004	NA	17.84
400.8	Aptos Creek	TFC	10/25/90	46.0	0.80	0.20	0.77	5.90	0.030	8.50	0.020	NA	0.19	ND	NA	12.00
400.8	Aptos Creek	RFC	11/14/90	56.0	1.20	0.20	0.92	7.10	0.040	9.30	0.040	NA	NA	0.010	NA	17.00
400.8	Aptos Creek	RFC	11/26/90	15.0	NA	0.20	0.74	6.20	0.030	2.30	0.030	NA	NA	0.010	NA	13.00
400.8	Aptos Creek	TFC	12/19/91	99.0	0.70	0.30	3.20	8.30	0.020	1.90	0.010	NA	0.28	0.021	NA	8.00
401.1	Santa Cruz/T Dock	TCM	02/08/89	52.3	NA	1.74	0.42	23.73	1.570	2.03	0.110	NA	NA	0.013	NA	94.80
402.1	Azevedo Pond	TCM	02/25/93	130.0	NA	1.70	3.20	1.40	0.380	4.20	0.032	NA	NA	0.008	NA	29.00
402.2	Parson's Slough	TCM	02/25/93	180.0	NA	1.80	1.90	1.80	0.280	2.70	0.034	NA	NA	0.011	NA	30.00
402.5	Elkhorn Slough/Tidal Pond	TCM	02/25/93	180.0	NA	1.10	1.10	1.40	0.180	2.60	0.033	NA	NA	0.010	NA	26.00
403.5	Moss Landing/South Harbor	TCM	02/02/88	90.0	NA	0.95	0.43	2.41	0.330	2.56	0.041	NA	NA	0.006	NA	39.93
403.5	Moss Landing/South Harbor	TCM	01/04/89	53.7	NA	1.35	0.26	2.37	0.240	3.42	0.065	NA	NA	0.002	NA	68.23
404.0	Sandholdt Bridge	RBM	04/07/88	46.0	NA	0.82	0.23	1.13	0.333	4.43	0.031	NA	NA	0.003	NA	51.70
404.0	Sandholdt Bridge	RBM	12/08/88	58.0	NA	0.73	0.23	1.60	0.150	2.06	0.038	NA	NA	0.001	NA	37.87
404.0	Sandholdt Bridge	TCM	01/04/89	44.5	NA	1.29	0.24	2.15	0.180	3.56	0.051	NA	NA	0.004	NA	67.47
404.0	Sandholdt Bridge	RBM	02/27/89	32.2	NA	1.31	0.15	1.51	0.140	1.96	0.042	NA	NA	0.002	NA	44.43
404.0	Sandholdt Bridge	RBM	04/06/89	25.7	NA	1.00	0.14	1.36	0.170	2.11	0.034	NA	NA	0.031	NA	40.10
404.0	Sandholdt Bridge	TCM	02/19/90	124.5	NA	0.98	0.28	1.64	0.312	2.74	0.042	NA	NA	0.001	NA	34.26
404.0	Sandholdt Bridge	TCM	02/04/91	190.0	NA	1.10	0.44	1.60	0.250	2.50	0.030	NA	NA	ND	NA	30.00
404.0	Sandholdt Bridge	TCM	01/28/92	49.0	1.20	1.10	0.30	1.80	0.180	1.60	0.030	0.40	0.47	0.003	NA	27.00
404.0	Sandholdt Bridge	TCM	02/01/93	200.0	1.80	0.99	0.38	1.70	0.240	2.60	0.032	0.38	0.55	0.004	NA	32.00
405.2	Old Salinas River 2	SED	01/27/92	41000.0	NA	0.20	88.00	4.90	8.800	210.00	ND	NA	NA	0.038	NA	29.00
405.2	Old Salinas River 2	TFC	03/16/92	99.0	NA	1.20	0.60	5.00	0.030	3.50	0.010	NA	NA	0.011	NA	8.00
405.3	Old Salinas River 1	SED	01/27/92	34000.0	NA	0.40	110.00	7.00	8.900	270.00	ND	NA	NA	0.041	NA	33.00

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
405.3	Old Salinas River 1	TFC	03/16/92	110.0	NA	0.30	0.91	5.50	0.030	4.60	0.010	NA	NA	0.012	NA	10.00
405.6	Salinas River Lag 1	SED	01/27/92	32000.0	NA	0.40	82.00	10.00	7.000	280.00	ND	NA	NA	0.054	NA	49.00
405.6	Salinas River Lag 1	TFC	03/16/92	26.0	NA	0.30	0.95	7.20	0.020	1.30	0.020	NA	NA	0.012	NA	10.00
405.7	Salinas River Lag 2	SED	01/27/92	12000.0	NA	0.50	83.00	24.00	16.000	300.00	0.060	NA	NA	0.068	NA	78.00
405.7	Salinas River Lag 2	TFC	03/16/92	390.0	NA	0.30	1.50	9.00	0.170	7.20	0.020	NA	NA	0.020	NA	17.00
414.0	Pacific Grove	RCM	12/19/88	19.0	NA	0.90	0.17	0.91	0.669	0.63	0.019	NA	NA	0.027	NA	27.63
414.0	Pacific Grove	RCM	01/09/89	10.7	2.23	1.39	0.17	1.32	0.490	0.57	0.030	0.38	0.44	0.033	2.820	36.33
414.0	Pacific Grove	RCM	02/08/90	26.9	2.93	1.43	0.16	1.24	0.496	0.68	0.031	0.44	0.39	0.045	3.457	31.49
414.0	Pacific Grove	RCM	02/14/91	22.0	2.40	1.40	0.83	1.00	0.580	0.70	0.020	0.70	0.27	0.050	NA	39.00
414.0	Pacific Grove	RCM	01/31/92	28.0	1.60	2.00	0.19	0.90	0.580	0.50	0.020	0.30	0.35	0.018	NA	34.00
414.0	Pacific Grove	RCM	02/12/93	56.0	2.40	1.50	0.45	0.90	0.500	0.80	0.029	0.59	0.38	0.046	NA	37.00
421.7	Monterey Harbor/Marina	TCM	01/22/88	34.0	NA	1.33	0.37	12.03	2.633	0.60	0.069	NA	NA	0.010	NA	94.63
421.7	Monterey Harbor/Marina	TCM	04/05/89	32.5	NA	1.05	0.36	20.28	1.810	0.81	0.150	NA	NA	0.041	NA	155.90
423.1	Carmel Bay/New Control	RCM	05/25/92	7.0	2.20	1.70	0.23	0.70	0.160	0.50	0.040	0.20	0.37	0.020	NA	26.00
423.2	Carmel STP/Control	TCM	02/16/88	14.7	NA	0.73	0.22	0.77	0.359	0.60	0.025	NA	NA	0.021	NA	15.00
423.2	Carmel STP/Control	TCM	04/13/89	7.7	NA	2.51	0.13	1.53	0.200	0.78	0.040	NA	NA	0.043	NA	25.60
423.3	Carmel River	TCM	04/13/89	20.2	NA	1.65	0.14	1.39	0.210	0.81	0.054	NA	NA	0.102	NA	26.97
423.4	Carmel STP/10m North	RCM	02/16/88	37.3	NA	0.96	0.19	1.08	0.410	1.06	0.017	NA	NA	0.316	NA	19.63
423.4	Carmel STP/10m North	TCM	04/13/89	21.3	NA	1.77	0.20	1.39	0.230	1.00	0.041	NA	NA	0.099	NA	29.60
423.5	Carmel STP/30m South	TCM	02/01/91	45.0	1.30	1.30	0.18	1.10	0.160	0.90	0.010	0.20	0.31	0.010	NA	20.00
423.5	Carmel STP/30m South	TCM	05/14/92	47.0	1.70	1.70	0.14	1.20	0.170	0.90	0.020	0.20	0.65	0.026	NA	25.00
423.6	Carmel STP/10m South	TCM	01/22/88	68.3	NA	1.74	0.35	1.19	0.817	1.09	0.032	NA	NA	0.062	NA	25.43
423.6	Carmel STP/10m South	TCM	04/13/89	25.8	NA	1.75	0.17	1.46	0.350	1.06	0.045	NA	NA	0.102	NA	27.23
423.7	Carmel STP/100m South	TCM	02/01/91	52.0	1.60	1.90	0.21	1.60	0.230	0.90	0.020	0.30	0.38	0.010	NA	30.00
423.7	Carmel STP/100m South	TCM	05/14/92	52.0	1.70	1.70	0.15	1.20	0.200	1.00	0.020	0.20	0.60	0.028	NA	28.00
423.9	Carmel STP/300m South	TCM	02/01/91	38.0	1.70	1.50	0.17	1.10	0.210	0.80	0.020	0.20	0.36	0.020	NA	45.00
423.9	Carmel STP/300m South	TCM	05/14/92	49.0	1.90	1.70	0.15	1.10	0.240	0.90	0.020	0.20	0.70	0.033	NA	28.00
424.5	Granite Canyon/Control	TCM	09/21/88	2.1	NA	0.96	0.42	0.73	0.067	0.32	0.204	NA	NA	0.011	0.350	15.17
425.4	Lake San Antonio/Buoy	TFC	12/08/87	22.7	NA	1.43	0.07	2.33	0.193	8.46	0.008	NA	NA	0.022	NA	8.50
425.6	Lake San Antonio	RFC	10/28/87	28.7	NA	1.66	0.11	2.02	0.123	2.44	0.010	NA	NA	0.024	NA	9.57
425.6	Lake San Antonio	RFC	09/14/88	29.6	0.61	0.94	0.12	2.71	0.070	6.06	0.009	0.66	0.47	0.060	1.950	11.13
425.6	Lake San Antonio	RFC	08/15/89	57.0	NA	2.48	0.16	3.21	0.066	6.10	0.006	NA	1.08	0.017	NA	17.17
425.6	Lake San Antonio	TFC	05/25/92	44.0	0.50	0.90	1.00	8.70	0.030	4.70	0.010	0.30	0.44	0.024	NA	12.00
426.5	Cayucos Pier	TCM	09/24/87	59.3	2.00	1.10	0.58	4.75	0.402	1.59	0.016	0.77	NA	0.009	13.710	26.67
426.5	Cayucos Pier	TCM	12/14/87	66.7	1.90	0.69	0.61	3.19	0.375	1.45	0.026	0.60	NA	0.008	7.390	27.77
426.5	Cayucos Pier	TCM	09/25/88	31.7	2.33	1.04	0.32	2.08	0.050	1.42	0.023	0.68	NA	0.028	7.680	25.77
426.5	Cayucos Pier	TCM	12/20/88	45.2	2.13	0.71	0.49	1.82	0.140	1.53	0.025	0.63	NA	0.034	6.970	28.73
426.5	Cayucos Pier	TCM	02/28/89	64.2	2.00	0.98	0.60	1.41	0.180	1.72	0.031	0.91	NA	0.032	10.130	27.43
426.5	Cayucos Pier	TCM	09/27/89	54.9	2.24	1.82	0.44	1.63	0.030	1.34	0.020	0.89	NA	0.012	4.802	26.44
426.5	Cayucos Pier	TCM	12/12/89	28.5	2.18	1.32	0.37	1.32	0.167	1.31	0.028	0.54	NA	0.020	5.603	28.48

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
426.5	Cayucos Pier	TCM	03/05/90	69.4	1.83	1.04	0.52	1.15	0.209	1.68	0.027	0.86	NA	0.008	7.938	27.79
426.5	Cayucos Pier	TCM	09/03/90	61.0	NA	2.30	0.33	2.00	0.230	1.50	0.020	NA	NA	0.020	NA	28.00
426.5	Cayucos Pier	TCM	11/14/90	110.0	NA	1.00	0.51	1.50	0.160	1.90	0.030	NA	NA	0.020	NA	27.00
426.5	Cayucos Pier	TCM	02/25/91	100.0	1.90	0.70	7.50	1.50	0.190	3.50	0.030	NA	0.35	0.010	NA	31.00
428.0	Cayucos	RCM	09/24/87	49.3	NA	0.78	0.53	0.94	0.275	1.42	0.049	0.77	NA	0.007	4.993	27.40
428.0	Cayucos	RCM	03/14/88	53.7	NA	0.64	0.69	1.60	0.233	1.91	0.055	0.78	NA	0.008	6.810	33.07
428.0	Cayucos	RCM	09/25/88	49.4	NA	0.74	0.50	1.41	0.150	2.04	0.069	0.82	NA	0.035	2.560	25.73
428.0	Cayucos	RCM	02/28/89	54.8	NA	0.61	0.35	1.82	0.140	1.83	0.057	0.92	NA	0.005	3.300	28.30
428.0	Cayucos	RCM	09/27/89	78.1	NA	1.10	0.64	1.46	0.198	2.52	0.044	0.97	NA	0.006	10.146	26.60
428.0	Cayucos	RCM	03/05/90	76.0	NA	0.64	0.54	1.31	0.138	2.00	0.044	1.03	NA	0.003	5.130	26.83
428.0	Cayucos	RCM	09/03/90	110.0	NA	1.00	0.61	1.50	0.160	2.70	0.050	NA	NA	0.010	NA	36.00
428.0	Cayucos	RCM	02/25/91	170.0	NA	0.50	7.90	1.60	0.160	4.00	0.040	NA	NA	0.010	NA	30.00
428.0	Cayucos	RCM	09/09/91	95.0	NA	0.60	0.39	1.30	0.110	1.80	0.040	NA	NA	0.006	NA	21.00
428.0	Cayucos	RCM	02/25/92	120.0	NA	0.50	0.50	1.30	0.120	2.30	0.040	NA	NA	0.004	NA	27.00
429.2	Morro Bay/Boat Works	RBM	03/14/88	56.0	NA	1.19	0.52	1.18	0.219	1.31	0.036	0.62	NA	ND	6.780	22.03
429.2	Morro Bay/Boat Works	TCM	12/19/88	66.5	NA	1.23	0.53	2.42	0.290	1.63	0.049	NA	NA	0.004	NA	25.50
429.2	Morro Bay/Boat Works	TCM	02/02/90	85.9	NA	1.01	0.51	1.90	0.333	1.41	0.024	NA	NA	0.002	NA	26.28
429.2	Morro Bay/Boat Works	TCM	01/20/93	180.0	NA	1.70	1.50	2.80	0.350	2.30	0.061	NA	NA	0.007	NA	35.00
430.0	Montana De Oro	RCM	09/24/87	24.3	2.10	1.12	0.41	1.52	0.223	0.87	0.019	0.52	NA	0.012	2.180	24.43
430.0	Montana De Oro	RCM	12/14/87	43.7	1.70	0.67	0.68	1.85	0.227	1.14	0.021	0.62	NA	0.013	1.960	24.10
430.0	Montana De Oro	RCM	03/14/88	33.3	1.60	0.70	0.52	1.05	0.234	0.85	0.024	0.47	NA	0.012	2.550	22.70
430.0	Montana De Oro	RCM	09/26/88	14.3	2.17	1.19	0.30	1.55	0.130	0.70	0.019	0.44	NA	0.011	1.710	26.57
430.0	Montana De Oro	RCM	12/20/88	17.4	1.87	1.08	0.38	1.75	0.160	0.64	0.019	0.44	NA	0.018	1.360	29.97
430.0	Montana De Oro	RCM	02/28/89	25.5	2.07	0.97	0.40	1.69	0.220	0.78	0.020	0.53	NA	0.021	2.890	29.77
430.0	Montana De Oro	RCM	09/27/89	21.4	2.28	2.03	0.30	1.39	0.007	0.93	0.021	0.44	NA	0.016	3.671	23.62
430.0	Montana De Oro	RCM	12/12/89	21.0	1.95	1.27	0.37	1.17	0.171	0.74	0.021	0.46	NA	0.016	3.104	27.60
430.0	Montana De Oro	RCM	03/05/90	39.2	1.67	1.13	0.45	1.03	0.159	0.91	0.019	0.52	NA	0.009	1.446	25.33
430.0	Montana De Oro	RCM	04/03/90	18.3	2.08	0.91	0.38	1.12	0.140	0.66	0.026	0.43	NA	0.006	0.907	33.68
430.0	Montana De Oro	RCM	09/03/90	42.0	1.70	1.30	0.26	1.20	0.130	0.80	0.020	NA	NA	0.010	NA	26.00
430.0	Montana De Oro	RCM	11/14/90	59.0	1.90	0.90	0.34	1.30	0.140	0.90	0.020	NA	0.18	0.020	NA	28.00
430.0	Montana De Oro	RCM	02/25/91	66.0	1.50	0.80	6.80	1.10	0.120	1.40	0.020	NA	0.20	0.010	NA	24.00
430.0	Montana De Oro	RCM	09/09/91	43.0	1.40	0.70	0.34	1.20	0.100	0.80	0.010	0.30	0.34	0.010	NA	20.00
430.0	Montana De Oro	RCM	12/03/91	66.0	1.40	0.90	0.39	1.40	0.110	1.00	0.010	NA	0.45	0.018	NA	21.00
430.0	Montana De Oro	RCM	02/25/92	23.0	1.80	1.50	0.21	1.60	0.130	1.10	0.010	NA	0.51	0.014	NA	23.00
430.2	Montana De Oro 1	TCM	11/14/90	55.0	1.70	1.00	0.31	1.10	0.120	0.80	0.020	NA	0.19	0.020	NA	28.00
430.2	Montana De Oro 1	TCM	09/10/91	45.0	1.40	0.90	0.29	1.10	0.120	0.70	0.010	NA	NA	0.017	NA	19.00
430.2	Montana De Oro 1	TCM	12/04/91	77.0	1.40	0.70	0.40	1.20	0.150	1.00	0.010	NA	0.43	0.014	NA	26.00
430.4	Montana De Oro 2	TCM	11/14/90	71.0	1.70	0.90	0.33	1.20	0.140	1.00	0.020	NA	0.20	0.020	NA	25.00
430.4	Montana De Oro 2	TCM	09/10/91	48.0	1.60	0.90	0.27	1.20	0.130	0.80	0.010	NA	NA	0.017	NA	21.00
431.0	Lion Rock	RCM	10/05/87	14.3	NA	1.72	0.28	0.96	0.304	0.64	0.084	0.24	NA	0.041	0.970	21.73

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
431.0	Lion Rock	RCM	03/15/88	41.7	NA	1.01	0.39	0.80	0.300	0.78	0.046	0.32	NA	0.037	3.230	22.57
431.0	Lion Rock	RCM	09/26/88	5.2	NA	2.09	0.26	1.69	0.190	0.51	0.048	0.23	NA	0.055	0.760	24.83
431.0	Lion Rock	RCM	03/01/89	20.3	NA	1.28	0.27	1.34	0.140	0.62	0.055	0.32	NA	0.031	1.350	27.87
431.0	Lion Rock	RCM	09/28/89	15.5	NA	2.05	0.24	0.85	0.070	0.57	0.039	0.24	NA	0.033	1.678	19.97
431.0	Lion Rock	RCM	03/06/90	31.1	NA	1.55	0.31	1.33	0.168	0.94	0.023	0.43	NA	0.032	4.850	38.85
432.0	Pup Rock	RCM	10/05/87	11.3	NA	1.61	0.31	0.93	0.300	0.63	0.262	0.28	NA	0.060	0.880	23.80
432.0	Pup Rock	RCM	03/15/88	33.0	NA	1.01	0.64	0.75	0.266	0.77	0.041	0.35	NA	0.030	1.690	25.10
432.0	Pup Rock	RCM	09/26/88	5.6	NA	1.85	0.26	1.08	0.040	0.40	0.033	0.23	NA	0.064	1.960	21.40
432.0	Pup Rock	RCM	03/01/89	10.4	NA	1.35	0.20	1.62	0.180	0.48	0.130	0.23	NA	0.090	1.070	37.73
432.0	Pup Rock	RCM	09/28/89	10.9	NA	2.44	0.29	1.04	0.173	0.56	0.024	0.31	NA	0.063	0.849	30.39
432.0	Pup Rock	RCM	03/06/90	20.4	NA	1.55	0.31	1.05	0.087	0.68	0.038	0.30	NA	0.024	1.108	34.47
433.0	Diablo Cove/North	RCM	09/25/87	23.7	2.10	1.28	0.37	0.85	0.217	0.86	0.058	0.23	NA	0.051	1.042	17.60
433.0	Diablo Cove/North	RCM	03/15/88	49.3	1.50	0.73	0.48	0.97	0.175	0.82	0.017	0.45	NA	0.029	6.940	24.37
433.0	Diablo Cove/North	RCM	09/26/88	6.9	2.07	1.95	0.15	1.89	0.110	0.67	0.010	0.26	NA	0.023	1.290	20.87
433.0	Diablo Cove/North	RCM	03/01/89	18.7	1.80	0.98	0.23	1.01	0.210	0.52	0.043	0.35	NA	0.029	2.690	29.93
433.0	Diablo Cove/North	RCM	09/28/89	10.1	1.56	1.96	0.26	0.69	0.171	0.56	0.047	0.40	NA	0.048	5.257	26.79
433.0	Diablo Cove/North	RCM	03/06/90	23.4	1.82	1.32	0.27	0.65	0.216	0.60	0.043	0.38	NA	0.030	3.744	36.93
433.0	Diablo Cove/North	RCM	09/04/90	15.0	NA	2.00	0.19	1.00	0.180	0.50	0.040	NA	NA	0.060	NA	29.00
433.0	Diablo Cove/North	RCM	02/26/91	71.0	NA	1.40	0.76	1.10	0.210	0.90	0.040	NA	NA	0.050	NA	33.00
433.0	Diablo Cove/North	RCM	09/09/91	19.0	NA	2.10	0.22	0.90	0.210	0.60	0.030	NA	NA	0.037	NA	31.00
433.0	Diablo Cove/North	RCM	02/26/92	100.0	NA	0.90	0.40	1.10	0.160	1.40	0.030	NA	NA	0.031	NA	30.00
434.0	Diablo Cove/South	RCM	09/25/87	23.0	1.80	1.17	0.32	0.99	0.282	0.66	0.013	0.40	NA	0.036	5.030	24.83
434.0	Diablo Cove/South	RCM	03/15/88	35.0	1.40	1.32	0.55	0.90	0.195	0.72	0.026	0.43	NA	0.057	5.400	27.27
434.0	Diablo Cove/South	RCM	09/26/88	7.6	1.93	1.93	0.23	1.41	0.160	0.50	0.031	0.35	NA	0.037	1.580	24.73
434.0	Diablo Cove/South	RCM	03/01/89	7.5	1.67	1.64	0.25	1.01	0.170	0.39	0.036	0.35	NA	0.029	1.270	27.77
434.0	Diablo Cove/South	RCM	09/28/89	24.7	1.86	2.46	0.32	1.12	0.210	0.59	0.030	0.36	NA	0.060	13.215	23.97
434.0	Diablo Cove/South	RCM	03/06/90	23.2	1.72	1.47	0.32	0.80	0.206	0.55	0.033	0.33	NA	0.025	3.947	29.24
434.0	Diablo Cove/South	RCM	09/04/90	9.0	1.80	1.80	0.21	1.00	0.170	0.50	0.020	NA	NA	0.030	NA	26.00
434.0	Diablo Cove/South	RCM	02/26/91	49.0	1.50	1.60	1.10	1.00	0.160	0.70	0.030	NA	NA	0.030	NA	26.00
434.0	Diablo Cove/South	RCM	09/09/91	20.0	1.50	2.00	0.26	1.00	0.190	0.60	0.020	NA	NA	0.028	NA	25.00
434.0	Diablo Cove/South	RCM	02/26/92	92.0	0.90	0.90	0.39	1.00	0.160	1.00	0.030	NA	0.41	0.031	NA	23.00
435.0	Intake Cove	RCM	09/25/87	25.0	1.50	1.47	0.33	0.85	0.149	0.88	0.009	0.41	NA	0.044	3.800	19.50
435.0	Intake Cove	RCM	03/15/88	39.0	1.30	1.11	0.34	0.76	0.335	0.86	0.012	0.58	NA	0.058	5.200	23.47
435.0	Intake Cove	RCM	09/26/88	6.0	1.93	2.39	0.20	1.24	0.180	0.51	0.020	0.32	NA	0.051	0.450	22.17
435.0	Intake Cove	RCM	03/01/89	17.2	1.60	1.33	0.26	1.18	0.170	0.60	0.020	0.29	NA	0.050	0.900	22.90
435.0	Intake Cove	RCM	09/28/89	17.9	1.95	2.98	0.21	1.10	0.141	0.66	0.015	0.30	NA	0.043	0.371	20.14
435.0	Intake Cove	RCM	03/06/90	58.0	1.71	1.37	0.32	0.94	0.163	0.81	0.018	0.35	NA	0.017	1.137	22.89
435.0	Intake Cove	RCM	09/04/90	10.0	NA	2.20	0.16	1.00	0.120	0.60	0.020	NA	NA	0.030	NA	21.00
435.0	Intake Cove	RCM	02/26/91	71.0	NA	1.50	2.50	1.10	0.140	0.90	0.020	NA	NA	0.030	NA	25.00
435.0	Intake Cove	RCM	09/09/91	15.0	NA	2.30	0.18	1.00	0.180	0.60	0.020	NA	NA	0.031	NA	23.00

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

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Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
435.0	Intake Cove	RCM	02/26/92	86.0	NA	1.10	0.31	1.10	0.170	1.10	0.010	NA	NA	0.028	NA	22.00
436.0	Pecho Rock	RCM	10/05/87	15.3	NA	1.21	0.36	0.84	0.307	0.73	0.033	0.55	NA	0.064	2.450	27.17
436.0	Pecho Rock	RCM	03/15/88	31.7	NA	1.05	0.39	0.78	0.165	0.77	0.055	0.49	NA	0.051	5.290	21.03
436.0	Pecho Rock	RCM	09/26/88	4.9	NA	1.80	0.16	1.63	0.160	0.58	0.085	0.21	NA	0.059	0.490	28.03
436.0	Pecho Rock	RCM	03/01/89	20.1	NA	1.14	0.18	1.76	0.140	0.76	0.078	0.33	NA	0.056	1.790	32.93
436.0	Pecho Rock	RCM	09/28/89	14.2	NA	3.10	0.19	1.48	0.100	0.76	0.041	0.30	NA	0.038	0.825	24.37
436.0	Pecho Rock	RCM	03/06/90	41.0	NA	1.08	0.26	1.13	0.148	0.83	0.079	0.30	NA	0.022	0.884	27.30
437.0	Point San Luis	RCM	09/24/87	20.0	NA	1.01	0.35	0.80	0.198	0.97	0.026	0.47	NA	0.046	3.620	22.73
437.0	Point San Luis	RCM	03/14/88	39.7	NA	0.68	0.39	0.87	0.156	0.90	0.026	0.45	NA	0.030	7.520	21.07
437.0	Point San Luis	RCM	09/25/88	17.4	NA	1.24	0.34	1.11	0.200	0.87	0.056	0.50	NA	0.097	0.780	29.10
437.0	Point San Luis	RCM	02/28/89	17.8	NA	0.85	0.27	1.31	0.220	0.85	0.046	0.54	NA	0.031	4.080	28.23
437.0	Point San Luis	RCM	09/27/89	9.6	NA	1.69	0.32	0.81	0.253	0.68	0.026	0.39	NA	0.056	0.843	27.79
437.0	Point San Luis	RCM	03/05/90	40.7	NA	1.00	0.31	0.97	0.315	0.91	0.025	0.49	NA	0.032	0.552	25.22
437.0	Point San Luis	RCM	09/03/90	24.0	NA	1.50	0.26	1.20	0.180	0.80	0.040	NA	NA	0.040	NA	31.00
437.0	Point San Luis	RCM	02/25/91	67.0	NA	1.10	1.50	1.20	0.240	1.00	0.040	NA	NA	0.030	NA	35.00
437.0	Point San Luis	RCM	09/09/91	27.0	NA	1.00	0.21	0.90	0.180	0.70	0.030	NA	NA	0.015	NA	26.00
437.0	Point San Luis	RCM	02/26/92	110.0	NA	1.00	0.40	1.00	0.210	1.40	0.040	NA	NA	0.025	NA	26.00
438.0	Avila	RCM	09/24/87	35.7	NA	1.36	0.31	1.23	0.206	1.16	0.012	0.45	NA	0.028	5.750	22.87
438.0	Avila	RCM	03/14/88	67.7	NA	0.78	0.44	1.01	0.247	0.99	0.037	0.56	NA	0.055	3.720	21.27
438.0	Avila	RCM	09/25/88	15.3	NA	0.89	0.26	1.24	0.290	0.84	0.043	0.38	NA	0.074	0.810	26.03
438.0	Avila	RCM	02/28/89	20.7	NA	0.76	0.26	1.05	0.360	0.81	0.057	0.55	NA	0.079	2.820	24.83
438.0	Avila	RCM	09/27/89	5.2	NA	1.49	0.20	0.89	0.215	0.83	0.040	0.38	NA	0.085	1.524	23.06
438.0	Avila	RCM	03/05/90	30.6	NA	0.94	0.30	0.99	0.417	0.87	0.052	0.42	NA	0.124	0.307	27.17
438.0	Avila	RCM	09/03/90	32.0	NA	1.40	0.25	1.00	0.300	0.80	0.030	NA	NA	0.070	NA	25.00
438.0	Avila	RCM	02/25/91	87.0	NA	1.30	0.62	1.30	0.470	1.20	0.040	NA	NA	0.210	NA	28.00
438.0	Avila	RCM	09/09/91	36.0	NA	0.90	0.19	1.00	0.240	0.80	0.020	NA	NA	0.043	NA	24.00
438.0	Avila	RCM	02/25/92	96.0	NA	0.70	0.36	1.10	0.230	1.50	0.030	NA	NA	0.035	NA	18.00
440.0	Lion Rock/Transplant	TCM	09/25/87	32.3	1.90	1.24	0.33	1.22	0.113	0.91	0.013	0.36	NA	0.026	6.240	20.40
440.0	Lion Rock/Transplant	TCM	12/15/87	71.7	1.70	0.56	0.49	1.00	0.099	1.17	0.018	0.57	NA	0.025	7.850	19.13
440.0	Lion Rock/Transplant	TCM	09/26/88	14.9	2.07	2.10	0.19	1.29	0.060	0.76	0.017	0.36	NA	0.026	5.000	23.53
440.0	Lion Rock/Transplant	TCM	12/20/88	16.4	1.90	0.72	0.21	1.32	0.130	0.71	0.022	0.32	NA	0.021	1.720	22.07
440.0	Lion Rock/Transplant	TCM	03/01/89	17.6	2.17	0.81	0.25	1.44	0.120	0.76	0.024	0.35	NA	0.021	0.420	26.43
440.0	Lion Rock/Transplant	TCM	09/28/89	16.7	2.09	2.85	0.21	1.38	0.157	0.63	0.021	0.22	NA	0.036	1.853	18.02
440.0	Lion Rock/Transplant	TCM	12/13/89	11.2	2.16	1.20	0.18	1.00	0.182	0.50	0.021	0.16	NA	0.025	0.274	20.08
440.0	Lion Rock/Transplant	TCM	03/06/90	38.1	1.89	0.96	0.32	0.91	0.194	0.86	0.024	0.44	NA	0.011	0.973	29.25
440.0	Lion Rock/Transplant	TCM	09/04/90	24.0	NA	2.40	0.20	1.40	0.200	0.70	0.010	NA	NA	0.030	NA	24.00
440.0	Lion Rock/Transplant	TCM	11/15/90	46.0	NA	1.00	0.24	1.20	0.140	0.90	0.010	NA	NA	0.020	NA	24.00
440.0	Lion Rock/Transplant	TCM	02/26/91	68.0	NA	0.90	2.50	1.10	0.160	1.20	0.020	NA	NA	0.020	NA	28.00
440.0	Lion Rock/Transplant	TCM	09/10/91	29.0	NA	1.30	0.15	1.40	0.110	0.70	0.010	NA	NA	0.029	NA	21.00
440.0	Lion Rock/Transplant	TCM	12/04/91	68.0	NA	0.60	0.29	1.20	0.120	1.00	0.020	NA	NA	0.025	NA	21.00

* RCM = Resident California Mussel
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TFC = Transplanted Fresh Water Clam
RFC = Resident Fresh Water Clam
SED = Sediment

NA = Not Analyzed
ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
440.0	Lion Rock/Transplant	TCM	02/26/92	120.0	NA	0.90	0.45	1.00	0.140	1.50	0.020	NA	NA	0.026	NA	24.00
441.0	Lion/Diablo/Transplant	TCM	10/05/87	34.3	NA	1.11	0.31	1.29	0.124	1.04	0.014	0.38	NA	0.027	3.550	19.13
441.0	Lion/Diablo/Transplant	TCM	12/15/87	87.3	NA	0.54	0.53	0.98	0.077	1.27	0.017	0.60	NA	0.019	5.680	18.60
441.0	Lion/Diablo/Transplant	TCM	03/15/88	77.0	NA	0.78	0.47	0.93	0.179	1.16	0.013	0.72	NA	0.023	7.250	22.07
441.0	Lion/Diablo/Transplant	TCM	12/20/88	10.7	NA	0.76	0.20	1.44	0.100	0.65	0.021	0.33	NA	0.018	0.360	24.33
441.0	Lion/Diablo/Transplant	TCM	03/01/89	29.5	NA	1.02	0.29	1.32	0.180	0.86	0.030	0.60	NA	0.025	1.720	33.10
441.0	Lion/Diablo/Transplant	TCM	09/28/89	18.8	NA	1.76	0.21	1.27	0.082	0.66	0.025	0.20	NA	0.037	0.822	19.65
441.0	Lion/Diablo/Transplant	TCM	12/13/89	9.3	NA	1.12	0.21	1.00	0.148	0.52	0.025	0.19	NA	0.024	0.004	20.96
441.0	Lion/Diablo/Transplant	TCM	03/06/90	37.3	NA	0.83	0.33	0.81	0.220	0.72	0.025	0.32	NA	0.013	0.722	26.79
441.0	Lion/Diablo/Transplant	TCM	09/04/90	32.0	NA	2.20	0.26	1.40	0.170	0.80	0.020	NA	NA	0.030	NA	22.00
441.0	Lion/Diablo/Transplant	TCM	11/15/90	50.0	NA	1.00	0.26	1.10	0.140	0.90	0.010	NA	NA	0.020	NA	24.00
441.0	Lion/Diablo/Transplant	TCM	02/26/91	70.0	NA	0.80	0.90	1.10	0.170	1.00	0.020	NA	NA	0.020	NA	28.00
441.0	Lion/Diablo/Transplant	TCM	09/10/91	31.0	NA	1.40	0.23	1.50	0.120	0.90	0.010	NA	NA	0.036	NA	20.00
441.0	Lion/Diablo/Transplant	TCM	12/04/91	67.0	NA	0.80	0.28	1.20	0.140	1.00	0.020	NA	NA	0.021	NA	24.00
441.0	Lion/Diablo/Transplant	TCM	02/26/92	130.0	NA	0.70	0.44	1.10	0.150	1.60	0.020	NA	NA	0.024	NA	22.00
442.0	Diablo Cove/North/Transplant	TCM	10/05/87	23.0	1.80	0.85	0.30	1.09	0.105	0.93	0.015	0.44	NA	0.017	3.070	20.50
442.0	Diablo Cove/North/Transplant	TCM	12/15/87	66.3	1.50	0.71	0.45	0.88	0.166	1.19	0.014	0.78	NA	0.016	7.570	19.60
442.0	Diablo Cove/North/Transplant	TCM	03/15/88	58.3	1.50	0.81	0.49	0.80	0.116	1.15	0.017	0.50	NA	0.026	11.190	21.13
442.0	Diablo Cove/North/Transplant	TCM	09/26/88	8.0	1.73	1.64	0.34	1.02	0.220	0.58	0.055	0.47	NA	0.091	1.460	32.60
442.0	Diablo Cove/North/Transplant	TCM	12/20/88	15.6	1.87	0.78	0.21	1.38	0.120	0.67	0.018	0.34	NA	0.010	2.150	21.47
442.0	Diablo Cove/North/Transplant	TCM	03/01/89	21.3	1.87	0.92	0.28	1.26	0.120	0.73	0.028	0.44	NA	0.018	0.950	23.67
442.0	Diablo Cove/North/Transplant	TCM	09/28/89	21.8	1.97	2.88	0.24	1.21	0.140	0.71	0.020	0.25	NA	0.031	0.285	18.43
442.0	Diablo Cove/North/Transplant	TCM	12/13/89	14.8	2.08	1.10	0.22	0.95	0.172	0.53	0.026	0.19	NA	0.037	0.133	19.97
442.0	Diablo Cove/North/Transplant	TCM	03/06/90	38.2	1.89	0.98	0.32	0.87	0.222	0.80	0.025	0.37	NA	0.007	0.477	28.56
442.0	Diablo Cove/North/Transplant	TCM	09/04/90	17.0	NA	2.30	0.23	1.20	0.200	0.70	0.020	NA	NA	0.030	NA	25.00
442.0	Diablo Cove/North/Transplant	TCM	11/15/90	64.0	NA	0.90	0.25	1.20	0.140	1.00	0.010	NA	NA	0.030	NA	25.00
442.0	Diablo Cove/North/Transplant	TCM	02/26/91	120.0	NA	1.00	1.40	1.20	0.220	1.30	0.020	NA	NA	0.020	NA	33.00
442.0	Diablo Cove/North/Transplant	TCM	09/10/91	26.0	NA	1.30	0.19	1.40	0.130	0.80	0.010	NA	NA	0.020	NA	21.00
442.1	Diablo Cove/N/Transplant/Shallow	TCM	02/26/91	97.0	NA	0.90	1.50	1.10	0.180	1.10	0.020	NA	NA	0.010	NA	32.00
442.1	Diablo Cove/N/Transplant/Shallow	TCM	09/10/91	22.0	NA	1.40	0.19	1.50	0.120	0.80	0.020	NA	NA	0.019	NA	25.00
443.0	Diablo Cove/South/Transplant	TCM	10/05/87	30.0	2.10	0.98	0.31	0.84	0.335	0.95	0.044	0.47	NA	0.078	7.400	21.33
443.0	Diablo Cove/South/Transplant	TCM	12/15/87	75.0	1.50	0.73	0.51	0.98	0.216	1.33	0.017	0.69	NA	0.015	14.520	20.80
443.0	Diablo Cove/South/Transplant	TCM	09/26/88	8.9	2.20	2.58	0.19	1.74	0.080	0.67	0.019	0.44	NA	0.017	0.610	22.23
443.0	Diablo Cove/South/Transplant	TCM	03/01/89	35.6	2.03	1.09	0.37	1.74	0.110	0.94	0.026	0.56	NA	0.016	4.220	24.57
443.0	Diablo Cove/South/Transplant	TCM	09/28/89	34.2	2.09	2.48	0.26	1.27	0.023	0.84	0.018	0.24	NA	0.032	0.587	17.73
443.0	Diablo Cove/South/Transplant	TCM	12/13/89	14.8	2.28	1.38	0.23	0.99	0.149	0.70	0.028	0.21	NA	0.033	0.247	22.97
443.0	Diablo Cove/South/Transplant	TCM	03/06/90	45.9	1.82	1.04	0.36	0.92	0.237	0.89	0.026	0.36	NA	0.009	0.477	32.08
443.0	Diablo Cove/South/Transplant	TCM	11/15/90	56.0	NA	1.00	0.27	1.20	0.170	0.90	0.020	NA	NA	0.020	NA	27.00
443.0	Diablo Cove/South/Transplant	TCM	02/26/91	100.0	2.10	0.90	4.50	1.30	0.190	1.60	0.020	NA	NA	0.020	NA	33.00
443.0	Diablo Cove/South/Transplant	TCM	09/10/91	25.0	1.80	1.50	0.16	1.50	0.130	0.80	0.010	NA	NA	0.025	NA	19.00

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 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
443.0	Diablo Cove/South/Transplant	TCM	12/04/91	82.0	NA	0.90	0.31	1.20	0.140	1.10	0.020	NA	NA	0.027	NA	21.00
443.0	Diablo Cove/South/Transplant	TCM	02/26/92	140.0	1.20	0.50	0.42	1.00	0.150	1.70	0.020	NA	0.43	0.017	NA	22.00
443.1	Diablo Cove/S/Transplant/Shallow	TCM	02/26/91	80.0	1.70	0.80	2.40	1.10	0.170	1.00	0.020	NA	NA	0.010	NA	33.00
443.1	Diablo Cove/S/Transplant/Shallow	TCM	09/10/91	23.0	1.60	1.30	0.17	1.40	0.110	0.70	0.020	NA	NA	0.015	NA	21.00
444.0	Intake Cove/Transplant	TCM	09/25/87	27.7	2.20	0.71	0.28	0.93	0.137	0.60	0.015	0.45	NA	0.018	4.060	24.57
444.0	Intake Cove/Transplant	TCM	12/15/87	54.7	1.50	0.59	0.34	0.78	0.127	0.67	0.011	0.45	NA	0.011	3.290	21.20
444.0	Intake Cove/Transplant	TCM	03/15/88	42.7	1.60	0.58	0.37	0.80	0.209	0.53	0.016	0.42	NA	0.013	2.130	25.40
444.0	Intake Cove/Transplant	TCM	09/26/88	17.4	2.00	0.96	0.21	1.68	0.630	0.72	0.027	0.26	NA	0.014	0.570	30.83
444.0	Intake Cove/Transplant	TCM	12/20/88	15.0	1.73	0.60	0.24	1.50	0.110	0.70	0.025	NA	NA	0.011	0.930	23.60
444.0	Intake Cove/Transplant	TCM	03/01/89	25.1	2.10	0.94	0.34	1.50	0.140	0.80	0.030	0.40	NA	0.013	1.340	33.77
444.0	Intake Cove/Transplant	TCM	09/28/89	25.9	2.19	1.25	0.24	1.22	0.121	0.80	0.030	0.21	NA	0.022	0.303	24.19
444.0	Intake Cove/Transplant	TCM	12/13/89	24.5	1.92	1.19	0.26	1.15	0.177	0.69	0.028	0.21	NA	0.020	0.009	23.33
444.0	Intake Cove/Transplant	TCM	03/06/90	29.8	2.12	0.88	0.36	1.11	0.222	0.78	0.031	0.32	NA	0.025	0.021	34.13
444.0	Intake Cove/Transplant	TCM	09/04/90	22.0	2.00	1.30	0.28	1.40	0.140	0.80	0.020	NA	NA	0.030	NA	30.00
444.0	Intake Cove/Transplant	TCM	02/26/91	120.0	2.00	0.90	0.83	1.60	0.240	1.20	0.020	NA	NA	0.020	NA	34.00
444.0	Intake Cove/Transplant	TCM	09/10/91	42.0	1.90	1.00	0.27	1.60	0.170	0.80	0.020	NA	NA	0.033	NA	25.00
444.0	Intake Cove/Transplant	TCM	12/04/91	54.0	NA	0.60	0.26	1.40	0.160	0.90	0.020	NA	NA	0.034	NA	26.00
444.0	Intake Cove/Transplant	TCM	02/26/92	93.0	1.50	0.50	0.35	1.20	0.150	1.20	0.020	NA	0.42	0.014	NA	24.00
445.0	San Luis Harbor/Transplant	TCM	09/25/87	16.3	2.00	1.16	0.16	1.42	0.142	0.69	0.013	0.65	NA	0.027	3.440	24.13
445.0	San Luis Harbor/Transplant	TCM	12/15/87	81.0	NA	0.61	0.45	1.52	0.220	1.23	0.023	0.36	NA	0.013	7.550	20.50
445.0	San Luis Harbor/Transplant	TCM	03/15/88	78.3	1.80	0.57	0.47	1.38	0.427	1.14	0.022	0.49	NA	0.018	6.460	23.47
445.0	San Luis Harbor/Transplant	TCM	09/26/88	17.7	2.27	1.31	0.31	1.68	0.070	0.76	0.019	0.52	NA	0.017	1.040	27.03
445.0	San Luis Harbor/Transplant	TCM	12/20/88	29.7	1.80	0.74	0.28	1.62	0.150	0.91	0.028	0.37	NA	0.016	1.020	19.73
445.0	San Luis Harbor/Transplant	TCM	03/01/89	10.7	2.73	0.61	0.23	1.80	0.130	1.18	0.032	0.44	NA	0.014	0.450	25.33
445.0	San Luis Harbor/Transplant	TCM	09/28/89	16.5	2.03	1.61	0.23	1.36	0.196	0.81	0.028	0.22	NA	0.023	0.617	24.07
445.0	San Luis Harbor/Transplant	TCM	12/13/89	49.0	2.30	1.28	0.34	1.41	0.197	1.27	0.032	0.33	NA	0.019	1.849	22.73
445.0	San Luis Harbor/Transplant	TCM	03/06/90	69.1	2.19	0.72	0.39	1.13	0.269	1.26	0.054	0.42	NA	0.008	2.619	26.52
445.0	San Luis Harbor/Transplant	TCM	09/04/90	66.0	2.10	1.90	0.25	2.10	0.180	1.10	0.020	NA	NA	0.020	NA	28.00
445.0	San Luis Harbor/Transplant	TCM	11/14/90	95.0	NA	0.90	0.37	1.90	0.180	1.40	0.030	NA	NA	0.010	NA	26.00
445.0	San Luis Harbor/Transplant	TCM	02/25/91	91.0	2.30	0.70	2.10	1.90	0.210	1.60	0.030	NA	NA	0.010	NA	33.00
445.0	San Luis Harbor/Transplant	TCM	09/09/91	73.0	1.70	0.90	0.28	1.80	0.210	1.20	0.020	NA	NA	0.021	NA	22.00
445.0	San Luis Harbor/Transplant	TCM	02/25/92	110.0	1.20	0.50	0.40	1.50	0.230	1.60	0.030	NA	0.47	0.009	NA	23.00
446.0	San Luis Obispo Creek 1	TFC	02/26/91	52.0	NA	0.30	1.30	5.30	0.130	2.10	0.020	NA	NA	ND	NA	12.00
446.1	San Luis Obispo/Creek 2	SED	02/25/92	5000.0	NA	0.30	360.00	28.00	5.600	460.00	0.050	NA	NA	0.130	NA	61.00
446.1	San Luis Obispo/Creek 2	TFC	04/09/92	64.0	NA	0.20	1.10	7.00	0.020	3.80	0.020	NA	NA	0.013	NA	7.00
446.2	San Luis Obispo Creek 3	SED	11/14/90	23000.0	NA	1.00	260.00	18.00	14.000	270.00	0.060	NA	NA	1.020	NA	53.00
446.2	San Luis Obispo Creek 3	SED	02/25/92	28000.0	NA	0.50	370.00	16.00	9.200	320.00	0.030	NA	NA	0.160	NA	46.00
446.4	San Luis Obispo/Creek 4	SED	02/25/92	24000.0	NA	0.50	270.00	10.00	8.500	180.00	0.030	NA	NA	0.210	NA	40.00
450.0	Point Conception	RCM	03/20/89	18.6	NA	1.24	0.25	1.74	0.190	0.90	0.045	NA	NA	0.192	NA	41.50
450.0	Point Conception	RCM	12/22/89	15.2	NA	0.92	0.26	0.99	0.211	0.58	0.030	NA	NA	0.039	NA	23.83

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NA = Not Analyzed
 ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
450.0	Point Conception	RCM	01/04/91	55.0	NA	0.90	0.77	1.40	0.230	0.80	0.030	NA	NA	0.090	NA	35.00
455.0	Gaviota	RCM	01/26/88	30.0	NA	0.58	0.36	1.54	0.149	1.06	0.013	NA	NA	0.111	NA	21.17
455.0	Gaviota	TCM	03/21/89	11.0	NA	1.96	0.17	1.62	0.140	0.78	0.020	NA	NA	0.050	NA	24.80
455.0	Gaviota	RCM	12/22/89	22.0	NA	0.48	0.26	0.96	0.123	0.83	0.017	NA	NA	0.061	NA	24.71
460.0	Goleta Slough 1	TCM	12/18/88	4.8	NA	0.42	0.09	1.20	0.170	1.41	0.018	NA	NA	0.004	NA	25.30
460.0	Goleta Slough 1	SED	09/03/89	7840.0	NA	0.69	24.20	13.89	18.669	123.72	0.032	NA	NA	0.024	NA	50.36
460.0	Goleta Slough 1	SED	11/13/90	52000.0	NA	1.40	78.00	5.10	14.000	130.00	NA	NA	NA	0.060	NA	23.00
460.1	Goleta Slough 2	SED	09/03/89	9035.2	NA	0.55	26.48	13.16	16.443	101.93	0.047	NA	NA	0.018	NA	45.56
460.1	Goleta Slough 2	SED	11/13/90	44000.0	NA	1.30	160.00	8.00	14.000	170.00	NA	NA	NA	0.070	NA	33.00
460.2	Goleta Slough 3	SED	11/13/90	52000.0	NA	1.50	95.00	7.30	13.000	150.00	NA	NA	NA	0.090	NA	23.00
460.3	Goleta Slough 4	SED	11/13/90	35000.0	NA	1.10	66.00	12.00	13.000	130.00	0.020	NA	NA	0.080	NA	38.00
470.0	Santa Barbara Harbor	TCM	01/26/88	37.0	NA	1.15	0.40	17.41	2.550	1.25	0.058	NA	NA	0.011	NA	86.13
470.0	Santa Barbara Harbor	TCM	12/18/88	45.6	NA	1.64	0.40	20.90	1.030	2.72	0.079	NA	NA	0.017	NA	86.87
471.0	Mission Creek	SED	11/13/90	38000.0	NA	1.30	59.00	3.10	13.000	94.00	NA	NA	NA	0.040	NA	15.00
472.0	Waste Slough/Laguna Drainage	SED	11/13/90	36000.0	NA	1.20	87.00	3.00	12.000	150.00	NA	NA	NA	0.050	NA	22.00
480.0	Lake Isabella	RFC	02/09/93	51.0	1.90	0.07	1.50	6.60	0.020	5.10	0.019	1.20	0.25	0.014	NA	15.00
485.0	Ventura Marina	TCM	01/25/88	47.7	NA	1.08	0.34	17.91	1.023	3.62	0.044	NA	NA	0.009	NA	80.33
506.1	Port Hueneme/Wharf B	TCM	01/25/88	88.7	NA	1.00	0.44	17.95	1.323	1.92	0.046	NA	NA	0.012	NA	82.20
506.2	Port Hueneme/Wharf 1	TCM	01/25/88	61.3	NA	0.45	0.18	2.11	0.587	3.09	0.025	NA	NA	0.003	NA	54.50
506.3	Port Hueneme/Entrance	TCM	01/25/88	66.3	NA	0.77	0.30	2.90	0.921	2.03	0.029	NA	NA	0.004	NA	45.93
507.3	Mugu Lagoon/Calleguas Creek	TCM	12/18/88	52.6	NA	1.04	0.25	1.74	0.200	3.50	0.030	NA	NA	0.030	NA	25.00
553.0	Marina Del Rey/Entrance	TCM	12/19/88	43.4	NA	0.68	0.30	3.00	3.210	1.48	0.026	NA	NA	0.180	NA	32.70
554.0	Marina Del Rey/Harbor Patrol Docks	TCM	01/25/88	74.3	NA	1.43	0.44	12.00	9.793	4.06	0.050	NA	NA	0.085	NA	141.97
554.0	Marina Del Rey/Harbor Patrol Docks	TCM	12/19/88	40.9	NA	0.79	0.26	10.51	4.930	2.45	0.046	NA	NA	0.071	NA	73.83
555.0	Marina Del Rey/Basin G	TCM	01/25/88	55.0	NA	1.59	0.52	29.42	5.617	6.03	0.036	NA	NA	0.108	NA	150.40
555.0	Marina Del Rey/Basin G	TCM	12/19/88	31.3	NA	1.09	0.31	16.64	3.120	2.94	0.047	NA	NA	0.060	NA	88.23
555.2	Marina Del Rey/Basin D	TCM	01/25/88	57.0	NA	1.85	0.57	29.08	5.143	4.62	0.057	NA	NA	0.109	NA	177.90
556.0	Marina Del Rey/Basin E	TCM	01/25/88	105.0	NA	1.58	0.55	13.85	6.000	4.86	0.040	NA	NA	0.058	NA	123.70
556.0	Marina Del Rey/Basin E	TCM	12/19/88	39.9	NA	1.00	0.28	13.63	1.380	3.44	0.038	NA	NA	0.035	NA	70.10
557.0	Marina Del Rey/Ballona Creek	RBM	01/25/88	50.7	NA	0.30	0.53	1.10	1.217	1.69	0.022	NA	NA	0.046	NA	24.60
559.0	King Harbor	TCM	12/28/87	25.7	NA	1.57	0.53	27.54	4.943	1.11	0.073	NA	NA	0.035	NA	109.17
601.0	LA Harbor/National Steel	TCM	12/28/87	30.3	NA	1.15	0.46	3.31	3.026	2.46	0.016	NA	NA	0.011	NA	57.27
601.0	LA Harbor/National Steel	TCM	12/19/88	40.7	NA	1.20	0.34	4.26	2.190	3.55	0.041	NA	NA	0.008	NA	54.87
601.0	La Harbor/National Steel	SED	08/29/91	15000.0	NA	1.20	68.00	19.00	68.000	360.00	0.380	NA	NA	0.270	NA	260.00
601.0	La Harbor/National Steel	TCM	12/22/91	54.0	NA	1.40	0.26	2.90	1.300	2.60	0.020	NA	NA	0.010	NA	51.00
601.0	LA Harbor/National Steel	SED	09/10/92	25000.0	NA	0.54	55.00	54.00	79.000	350.00	0.180	NA	NA	0.160	NA	170.00
601.0	LA Harbor/National Steel	RBM	01/06/93	74.0	NA	0.30	0.78	3.10	1.200	2.10	0.030	NA	NA	0.010	NA	45.00
602.0	LA Harbor/West Basin	TCM	12/28/87	39.3	NA	0.87	0.37	4.66	1.517	3.50	0.017	NA	NA	0.008	NA	51.67
602.5	LA Harbor/Todd Shipyards	TCM	12/28/87	33.7	NA	1.33	0.51	6.45	3.100	6.85	0.032	NA	NA	0.016	NA	79.40
602.5	LA Harbor/Todd Shipyards	TCM	12/19/88	37.8	NA	0.94	0.31	7.27	1.320	5.10	0.035	NA	NA	0.013	NA	57.53

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 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
602.6	LA Harbor/Berth 50	TCM	12/22/89	50.7	NA	0.74	0.31	34.46	0.675	1.61	0.028	NA	NA	0.029	NA	63.66
602.7	LA Harbor/Pacific Ave/Storm Drain	TCM	12/28/87	29.3	NA	1.32	0.44	5.70	2.987	4.08	0.024	NA	NA	0.012	NA	96.93
602.8	LA Harbor/Berth 49	TCM	12/28/87	39.7	NA	0.75	0.55	40.67	2.730	1.97	0.023	NA	NA	0.018	NA	87.27
602.8	LA Harbor/Berth 49	TCM	12/19/88	42.7	NA	0.61	0.40	48.59	1.170	2.05	0.032	NA	NA	0.020	NA	47.93
602.8	LA Harbor/Berth 49	TCM	12/22/89	68.7	NA	0.71	0.33	17.76	1.072	2.16	0.041	NA	NA	0.025	NA	51.48
602.8	LA Harbor/Berth 49	TCM	12/22/89	68.0	NA	0.70	0.33	17.00	1.100	2.20	0.040	NA	NA	0.020	NA	50.00
602.8	LA Harbor/Berth 49	TCM	12/23/90	130.0	NA	1.30	0.40	11.00	1.100	3.10	0.040	NA	NA	0.020	NA	50.00
602.9	LA Harbor/Berth 51	TCM	12/22/89	72.6	NA	0.68	0.32	11.17	1.185	3.26	0.034	NA	NA	0.015	NA	48.29
603.0	LA Harbor/Berth 151	TCM	12/28/87	40.0	NA	0.80	0.40	3.07	2.347	2.66	0.014	NA	NA	0.014	NA	4.38
603.6	LA Harbor/Slip 240	TCM	12/28/87	58.7	NA	1.01	0.61	6.50	2.430	3.29	0.027	NA	NA	0.007	NA	43.40
603.8	LA Harbor/West Channel	TCM	12/28/87	21.7	NA	0.96	0.27	6.16	1.850	2.05	0.014	NA	NA	0.006	NA	46.90
604.5	LA Harbor/Berth 212	TCM	12/19/88	42.4	NA	0.75	0.30	2.51	0.670	3.03	0.029	NA	NA	0.007	NA	40.83
605.0	LA Harbor/Cabrillo Pier	TCM	12/19/88	45.4	NA	0.76	0.36	3.66	0.990	2.49	0.042	NA	NA	0.010	NA	31.17
606.2	LA Harbor/Fish Harbor	TCM	12/28/87	17.0	NA	0.88	0.34	2.78	2.573	2.13	0.023	NA	NA	0.006	NA	44.10
606.3	LA Harbor/Watchorn Basin	TCM	12/28/87	15.3	NA	1.08	0.33	19.71	1.883	2.70	0.031	NA	NA	0.015	NA	58.70
616.0	LA Harbor/Consolidated Slip	TCM	12/28/87	22.7	NA	1.07	0.64	1.57	2.720	2.17	0.016	NA	NA	0.006	NA	43.03
616.0	LA Harbor/Consolidated Slip	TCM	12/19/88	24.3	NA	1.08	0.41	2.40	2.050	2.61	0.034	NA	NA	0.006	NA	45.20
616.0	LA Harbor/Consolidated Slip	TCM	12/22/91	53.0	NA	1.60	0.30	2.10	2.100	2.60	0.020	NA	NA	0.007	NA	47.00
616.0	LA Harbor/Consolidated Slip	RBM	01/06/93	87.0	NA	0.44	0.22	1.60	1.200	4.40	0.024	NA	NA	0.005	NA	45.00
618.0	LA Harbor/Angels Gate	TCM	12/23/90	110.0	NA	0.70	0.57	2.70	0.780	2.90	0.030	NA	NA	0.030	NA	41.00
619.0	LA Harbor/San Pedro Boatworks	RBM	12/23/90	66.0	NA	0.30	0.41	4.20	0.320	1.40	0.020	NA	NA	0.010	NA	32.00
622.0	LA Harbor/Commer Marine	TCM	12/23/90	67.0	NA	1.90	0.33	38.00	1.500	3.70	0.060	NA	NA	0.020	NA	110.00
648.0	Malibu	RBM	12/26/90	190.0	NA	0.30	20.00	1.20	0.240	4.00	0.010	NA	NA	0.760	NA	22.00
648.0	Malibu	RBM	01/06/93	180.0	NA	0.38	0.42	1.20	0.220	2.60	0.021	NA	NA	0.470	NA	25.00
648.1	Malibu Lagoon/Channel A	SED	12/22/91	12000.0	NA	0.80	40.00	8.90	15.000	150.00	0.010	NA	NA	0.058	NA	34.00
648.1	Malibu Lagoon/Channel A	SED	09/10/92	12000.0	NA	0.71	39.00	9.20	4.600	140.00	0.013	NA	NA	0.067	NA	28.00
648.3	Malibu Lagoon/Channel C	SED	12/22/91	27000.0	NA	0.50	50.00	8.90	8.300	190.00	0.020	NA	NA	0.055	NA	34.00
648.3	Malibu Lagoon/Channel C	SED	09/10/92	23000.0	NA	0.68	38.00	10.00	5.000	110.00	0.019	NA	NA	0.068	NA	34.00
648.5	Malibu Lagoon/PCH	SED	12/22/91	37000.0	NA	0.50	42.00	8.60	9.200	300.00	ND	NA	NA	0.031	NA	33.00
648.5	Malibu Lagoon/PCH	SED	09/10/92	41000.0	NA	0.61	58.00	9.70	7.200	220.00	0.016	NA	NA	0.042	NA	37.00
650.0	Santa Monica	RCM	12/19/88	47.5	NA	0.26	0.26	4.56	1.250	2.42	0.049	NA	NA	0.213	NA	36.97
650.0	Santa Monica	RBM	12/26/90	140.0	NA	0.20	8.60	1.70	0.830	2.90	0.030	NA	NA	1.300	NA	27.00
650.0	Santa Monica	RCM	01/06/93	110.0	NA	0.12	2.90	3.20	1.100	1.80	0.040	NA	NA	0.930	NA	35.00
656.0	Manhattan Beach	RCM	12/19/88	48.0	NA	0.21	0.24	2.75	1.060	1.74	0.035	NA	NA	0.200	NA	27.50
658.0	Redondo Beach	RCM	12/19/88	21.6	NA	0.20	0.25	3.22	1.160	1.19	0.053	NA	NA	0.193	NA	33.70
662.0	Royal Palms	RCM	12/28/87	26.7	NA	0.52	0.41	1.18	1.579	1.31	0.028	NA	NA	0.851	NA	31.70
662.0	Royal Palms	RCM	12/19/88	13.0	NA	0.37	0.27	1.40	0.420	1.47	0.031	NA	NA	0.167	0.920	28.87
662.0	Royal Palms	RCM	12/22/89	19.7	NA	0.56	0.39	1.31	0.590	1.27	0.071	NA	NA	1.257	NA	38.70
662.0	Royal Palms	RCM	12/26/90	62.0	NA	0.30	0.40	1.20	0.370	1.50	0.030	NA	NA	0.940	NA	29.00
662.0	Royal Palms	RCM	11/25/91	53.0	NA	0.30	0.28	1.40	0.340	2.10	0.020	NA	NA	0.570	NA	28.00

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SED = Sediment

NA = Not Analyzed
ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
662.0	Royal Palms	RCM	01/05/93	60.0	NA	0.41	2.30	1.40	0.500	1.80	0.047	NA	NA	0.920	NA	44.00
681.0	Catalina Island/West	RCM	09/04/91	17.0	NA	0.80	0.23	0.70	2.800	0.70	0.020	NA	NA	0.170	NA	26.00
682.0	Catalina Island/Ribbon Rock	RCM	09/19/90	18.0	NA	0.50	0.45	1.10	0.640	1.20	0.010	NA	NA	0.060	NA	36.00
682.0	Catalina Island/Ribbon Rock	RCM	02/01/93	84.0	NA	0.66	6.50	1.00	1.900	2.10	0.024	NA	NA	0.210	NA	26.00
707.0	Anaheim Bay/Navy Harbor	TCM	12/30/87	70.3	NA	0.89	0.31	1.83	1.102	2.26	0.027	NA	NA	0.007	NA	31.90
707.0	Anaheim Bay/Navy Harbor	TCM	12/19/88	77.8	NA	0.51	0.28	2.34	1.140	2.53	0.033	NA	NA	0.006	NA	27.23
707.0	Anaheim Bay/Navy Harbor	TCM	12/27/89	70.6	NA	0.71	0.24	1.63	0.917	2.20	0.026	NA	NA	0.004	NA	32.60
707.0	Anaheim Bay/Navy Harbor	TCM	12/23/90	130.0	NA	0.90	0.39	1.70	0.880	2.60	0.020	NA	NA	0.010	NA	39.00
707.0	Anaheim Bay/Navy Harbor	TCM	12/22/91	150.0	NA	1.00	0.27	2.10	0.730	2.90	0.030	NA	NA	0.008	NA	33.00
708.0	Anaheim Bay/Navy Marsh	TCM	12/30/87	73.0	NA	0.82	0.31	1.68	1.215	2.43	0.017	NA	NA	0.010	NA	27.10
708.0	Anaheim Bay/Navy Marsh	TCM	12/27/89	88.1	NA	0.73	0.25	1.50	0.711	2.18	0.027	NA	NA	0.003	NA	30.19
708.0	Anaheim Bay/Navy Marsh	TCM	12/23/90	190.0	NA	0.90	2.40	2.10	0.780	2.80	0.020	NA	NA	0.010	NA	45.00
708.0	Anaheim Bay/Navy Marsh	TCM	12/22/91	130.0	NA	0.90	0.22	1.70	0.550	2.20	0.010	NA	NA	0.005	NA	32.00
708.5	Anaheim Bay/Navy Marsh 2	TCM	12/23/90	240.0	NA	1.30	0.43	1.80	0.230	3.00	0.030	NA	NA	0.010	NA	45.00
708.5	Anaheim Bay/Navy Marsh 2	TCM	12/22/91	160.0	NA	1.00	0.26	2.10	0.520	3.60	0.020	NA	NA	0.006	NA	36.00
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/30/87	54.0	NA	0.62	0.52	1.56	2.659	1.86	0.012	NA	NA	0.006	NA	19.53
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/19/88	78.8	NA	0.72	0.35	2.40	1.080	3.33	0.054	NA	NA	0.026	NA	25.03
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/27/89	70.8	NA	0.72	0.21	1.95	1.224	1.94	NA	NA	NA	0.002	NA	36.49
713.0	Huntington Harbour/Edinger Street	TCM	12/30/87	114.3	NA	1.16	0.44	2.98	2.822	3.34	0.066	NA	NA	0.007	NA	32.40
713.0	Huntington Harbour/Edinger Street	TCM	12/27/89	107.6	NA	1.08	0.30	2.53	1.625	3.87	0.023	NA	NA	0.005	NA	42.67
713.0	Huntington Harbour/Edinger Street	TCM	12/23/90	85.0	NA	1.70	0.30	1.20	0.710	2.20	0.030	NA	NA	ND	NA	25.00
713.0	Huntington Harbour/Edinger Street	TCM	12/22/91	140.0	NA	1.50	0.24	1.90	0.880	4.20	0.030	NA	NA	0.005	NA	38.00
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/30/87	53.3	NA	1.33	0.36	1.43	2.392	4.00	0.033	NA	0.24	0.010	NA	49.87
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/19/88	93.8	NA	0.99	0.35	3.51	3.930	7.94	0.042	NA	0.40	0.008	NA	48.87
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/27/89	111.1	NA	1.01	0.31	2.16	3.447	3.19	0.018	NA	NA	0.003	NA	50.22
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/23/90	86.0	NA	1.20	0.33	1.20	1.700	2.80	0.020	NA	NA	0.010	NA	45.00
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/22/91	120.0	NA	1.30	0.26	1.60	1.600	4.80	0.030	NA	NA	0.005	NA	40.00
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/06/93	170.0	NA	1.30	0.72	2.30	1.500	4.10	0.027	NA	NA	0.015	NA	55.00
717.0	Huntington Harbour/Harbor Lane	TCM	12/30/87	36.0	NA	1.43	0.39	2.24	2.544	9.63	0.025	NA	NA	0.004	NA	56.93
717.0	Huntington Harbour/Harbor Lane	TCM	12/19/88	67.1	NA	1.11	0.30	4.39	3.030	5.54	0.045	NA	NA	0.007	NA	46.93
717.0	Huntington Harbour/Harbor Lane	TCM	12/22/91	110.0	NA	1.00	0.21	5.00	2.600	3.30	0.030	NA	NA	0.006	NA	54.00
719.1	Santa Ana River/Prado Dam	TFC	04/02/92	150.0	0.70	0.30	1.00	11.00	0.140	6.90	0.020	0.20	0.44	0.025	NA	14.00
719.1	Santa Ana River/Prado Dam	TFC	03/17/93	680.0	NA	0.06	2.20	10.00	0.380	12.00	0.029	NA	NA	0.025	NA	19.00
719.8	Temescal Creek/Nichols Road	TFC	04/02/92	160.0	NA	0.40	1.50	15.00	0.090	8.30	0.040	NA	NA	0.046	NA	17.00
720.5	Newport Bay/Offshore Ref	TCM	12/21/90	150.0	NA	0.70	0.28	1.70	0.480	2.00	0.020	NA	NA	0.110	NA	30.00
721.0	Newport Bay/Entrance	TCM	12/21/87	89.0	NA	0.90	0.37	1.45	0.924	1.90	0.019	NA	NA	0.007	NA	26.00
721.0	Newport Bay/Entrance	TCM	12/20/88	27.9	NA	0.87	0.21	1.94	0.560	1.72	0.034	NA	NA	0.006	NA	29.63
721.0	Newport Bay/Entrance	TCM	12/27/89	25.8	NA	0.73	0.18	1.40	0.680	1.06	0.017	NA	NA	0.002	NA	38.01
721.0	Newport Bay/Entrance	TCM	12/21/90	130.0	NA	1.20	0.35	1.70	0.710	2.10	0.030	NA	NA	0.010	NA	43.00
723.0	Newport Bay/Bay Island	TCM	12/21/87	101.0	NA	1.10	0.38	2.26	1.223	3.62	0.019	NA	NA	0.010	NA	45.00

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* RCM = Resident California Mussel
TCM = Transplanted California Mussel
RBM = Resident Bay Mussel

TFC = Transplanted Fresh Water Clam
RFC = Resident Fresh Water Clam
SED = Sediment

NA = Not Analyzed
ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
723.0	Newport Bay/Bay Island	TCM	12/27/89	46.2	NA	0.69	0.17	2.08	0.788	2.03	0.017	NA	NA	0.001	NA	39.32
723.0	Newport Bay/Bay Island	TCM	12/21/90	110.0	NA	1.00	1.40	1.60	0.780	1.90	0.030	NA	NA	ND	NA	45.00
723.0	Newport Bay/Bay Island	TCM	12/22/91	110.0	NA	1.20	0.21	3.20	0.600	4.00	0.030	NA	NA	0.005	NA	47.00
723.4	Newport Bay/Turning Basin	TCM	12/21/87	34.7	NA	1.38	0.23	2.48	1.597	2.85	0.028	NA	NA	0.010	NA	45.00
723.4	Newport Bay/Turning Basin	TCM	12/20/88	26.7	NA	1.01	0.17	2.97	1.220	3.03	0.040	NA	NA	0.005	NA	38.73
723.4	Newport Bay/Turning Basin	TCM	12/27/89	32.6	NA	1.16	0.23	4.44	1.238	2.29	0.023	NA	NA	0.003	NA	49.81
723.4	Newport Bay/Turning Basin	TCM	12/21/90	49.0	NA	1.60	0.36	2.40	1.100	3.40	0.040	NA	NA	0.030	NA	71.00
723.4	Newport Bay/Turning Basin	TCM	12/22/91	60.0	NA	1.40	0.16	3.70	1.400	3.00	0.030	NA	NA	0.005	NA	64.00
724.0	Newport Bay/Highway 1 Bridge	TCM	12/21/87	117.3	NA	1.56	0.42	1.94	1.166	5.53	0.024	NA	NA	0.007	NA	41.37
724.0	Newport Bay/Highway 1 Bridge	TCM	12/20/88	53.4	NA	0.78	0.17	1.65	0.680	2.27	0.032	NA	NA	0.005	NA	35.98
724.0	Newport Bay/Highway 1 Bridge	TCM	12/27/89	67.0	NA	0.90	0.25	1.61	0.635	2.35	0.020	NA	NA	0.002	NA	43.93
724.0	Newport Bay/Highway 1 Bridge	TCM	12/21/90	58.0	NA	1.40	0.31	1.30	0.540	2.00	0.030	NA	NA	0.010	NA	40.00
724.0	Newport Bay/Highway 1 Bridge	TCM	12/22/91	73.0	NA	1.40	0.17	2.60	0.480	3.20	0.020	NA	NA	0.005	NA	42.00
724.0	Newport Bay/Highway 1 Bridge	TCM	01/05/93	230.0	NA	1.90	0.48	2.10	0.520	7.80	0.032	NA	NA	0.005	NA	46.00
725.0	Newport Bay/Crows Nest	TCM	12/21/87	51.0	NA	1.52	0.38	4.59	1.983	3.61	0.053	NA	NA	0.008	NA	65.50
725.0	Newport Bay/Crows Nest	TCM	12/20/88	28.0	NA	1.25	0.21	8.49	1.510	2.27	0.079	NA	NA	0.004	NA	55.20
725.0	Newport Bay/Crows Nest	TCM	12/27/89	19.4	NA	0.99	0.17	5.80	1.406	1.69	0.029	NA	NA	0.002	NA	50.61
725.0	Newport Bay/Crows Nest	TCM	12/21/90	58.0	NA	1.70	0.32	6.40	1.300	1.60	0.060	NA	NA	ND	NA	88.00
725.0	Newport Bay/Crows Nest	TCM	12/22/91	61.0	NA	1.40	0.18	3.70	2.100	2.90	0.060	NA	NA	0.007	NA	74.00
725.0	Newport Bay/Crows Nest	TCM	01/05/93	52.0	NA	1.50	2.30	8.30	0.950	3.80	0.046	NA	NA	0.005	NA	76.00
726.0	Newport Bay/Rhine Channel/Upper	TCM	12/21/87	74.3	NA	1.53	0.49	9.11	1.991	4.86	0.046	NA	NA	0.009	NA	71.67
726.0	Newport Bay/Rhine Channel/Upper	TCM	12/20/88	62.1	NA	1.17	0.27	10.77	1.900	3.85	0.081	NA	NA	0.007	NA	57.90
726.2	Newport Bay/Rhine Channel/26th Ave	TCM	12/20/88	46.3	NA	0.76	0.19	1.65	0.500	3.86	0.032	NA	NA	0.004	NA	28.83
726.4	Newport Bay/Rhine Channel/End	TCM	12/21/87	104.3	NA	1.05	0.50	1.33	0.957	5.12	0.011	NA	NA	0.008	NA	25.70
726.4	Newport Bay/Rhine Channel/End	TCM	12/20/88	18.4	NA	1.15	0.18	1.26	0.330	2.08	0.033	NA	NA	0.004	NA	28.57
726.4	Newport Bay/Rhine Channel/End	TCM	12/27/89	9.6	NA	1.06	0.20	9.92	1.571	2.20	0.030	NA	NA	0.003	NA	67.71
726.4	Newport Bay/Rhine Channel/End	SED	09/02/90	23000.0	NA	1.10	25.00	250.00	46.000	140.00	4.800	NA	NA	0.130	NA	130.00
726.4	Newport Bay/Rhine Channel/End	TCM	12/21/90	83.0	NA	1.50	1.10	5.20	1.200	1.90	0.060	NA	NA	ND	NA	78.00
726.4	Newport Bay/Rhine Channel/End	TCM	12/22/91	100.0	NA	1.10	0.24	4.10	2.600	4.40	0.070	NA	NA	0.007	NA	70.00
726.4	Newport Bay/Rhine Channel/End	TCM	01/05/93	49.0	NA	2.70	1.40	11.00	0.940	6.80	0.061	NA	NA	0.011	NA	98.00
727.0	Garden Grove/Wintersburg Channel	TFC	01/23/91	70.0	NA	0.20	0.85	6.20	0.410	2.70	0.070	NA	NA	ND	NA	25.00
727.0	Garden Grove/Wintersburg Channel	TFC	03/17/93	100.0	NA	0.15	0.20	19.00	0.240	10.00	0.050	NA	NA	0.043	NA	26.00
728.4	Upper Newport Bay/MacArthur	TFC	03/07/88	10.7	NA	1.03	0.07	3.06	0.037	1.89	0.012	NA	NA	0.018	NA	9.43
728.4	Upper Newport Bay/MacArthur	TFC	12/20/88	3.8	NA	0.80	0.02	2.79	0.040	1.79	0.026	NA	NA	0.022	NA	9.53
728.4	Upper Newport Bay/MacArthur	TFC	03/14/90	202.7	NA	0.23	0.95	7.23	0.218	5.87	0.027	NA	NA	0.004	NA	24.47
728.4	Upper Newport Bay/MacArthur	TFC	01/23/91	120.0	NA	8.40	0.71	4.90	0.160	3.80	0.020	NA	NA	0.010	NA	14.00
728.4	Upper Newport Bay/MacArthur	TFC	03/17/93	58.0	NA	0.11	0.16	7.00	0.040	2.50	0.019	NA	NA	0.015	NA	11.00
728.5	Upper Newport Bay/Drain 2	TFC	03/14/90	200.6	NA	0.21	0.92	7.17	0.226	5.91	0.027	NA	NA	0.005	NA	24.23
728.6	Upper Newport Bay/San Diego Cr 1	TFC	03/07/88	57.7	NA	0.89	0.12	3.11	0.087	2.14	0.012	NA	NA	0.017	NA	9.93
728.7	Upper Newport Bay/Drain 4	TFC	03/14/90	479.4	NA	0.50	2.84	24.01	0.804	8.59	0.027	NA	NA	0.016	NA	45.28

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NA = Not Analyzed
ND = Not Detected

APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
728.7	Upper Newport Bay/Drain 4	TFC	01/23/91	39.0	NA	0.20	0.64	5.20	0.100	2.50	0.020	NA	NA	ND	NA	15.00
728.7	Upper Newport Bay/Drain 4	TFC	03/17/93	89.0	NA	0.15	0.12	9.70	0.090	7.80	0.047	NA	NA	0.024	NA	17.00
728.8	Upper Newport Bay/San Diego Cr 2	TFC	03/07/88	13.3	NA	1.27	0.13	2.62	0.066	1.08	0.012	NA	NA	0.022	NA	6.87
728.9	Upper Newport Bay/Drain 5	TFC	03/14/90	183.4	NA	0.25	1.17	7.15	0.762	6.19	0.034	NA	NA	0.008	NA	20.57
728.9	Upper Newport Bay/Drain 5	SED	01/23/91	40000.0	NA	1.40	2.40	1.80	12.000	75.00	NA	NA	NA	0.030	NA	9.00
730.0	Huntington Beach Pier	RCM	12/26/90	160.0	NA	0.20	0.52	2.10	1.100	3.50	0.020	NA	NA	0.560	NA	41.00
735.0	Corona Del Mar	RCM	12/26/90	62.0	NA	0.40	0.34	1.80	0.860	1.60	0.020	NA	NA	0.770	NA	46.00
735.0	Corona Del Mar	RCM	11/29/91	39.0	NA	0.30	0.16	1.10	0.570	1.30	0.020	NA	NA	0.340	NA	31.00
740.0	Dana Point Harbor/Boat Yard	SED	09/27/90	13000.0	NA	0.80	32.00	58.00	12.000	140.00	0.030	NA	NA	0.120	NA	71.00
740.0	Dana Point Harbor/Boat Yard	TCM	12/21/91	110.0	NA	0.90	0.23	12.00	0.670	1.60	0.030	NA	NA	0.006	NA	59.00
740.0	Dana Point Harbor/Boat Yard	TCM	01/05/93	200.0	NA	2.40	0.48	15.00	1.000	2.00	0.030	NA	NA	0.009	NA	110.00
744.1	San Onofre 1	TCM	01/30/89	41.5	NA	0.60	0.23	1.64	0.210	1.31	0.037	NA	NA	0.141	NA	25.57
744.1	San Onofre 1	TCM	09/27/90	33.0	1.50	0.40	0.14	1.60	0.140	1.00	0.010	NA	NA	0.260	NA	28.00
744.1	San Onofre 1	TCM	03/12/91	61.0	1.60	0.90	1.70	1.20	0.250	1.20	0.020	NA	NA	0.150	NA	25.00
744.1	San Onofre 1	TCM	10/24/91	81.0	0.90	0.30	0.16	1.20	0.160	1.40	0.010	NA	0.36	0.270	NA	18.00
744.1	San Onofre 1	TCM	03/25/92	130.0	1.40	0.90	0.26	1.30	0.240	1.90	0.020	NA	0.57	0.055	NA	29.00
744.2	San Onofre 2	TCM	01/30/89	52.2	NA	0.67	0.23	1.93	0.090	1.50	0.049	NA	NA	0.125	NA	26.80
744.2	San Onofre 2	TCM	11/22/89	40.1	1.61	0.53	0.15	1.20	0.217	1.14	0.014	0.13	0.43	0.220	2.697	33.41
744.2	San Onofre 2	TCM	10/01/90	42.0	1.70	0.30	0.12	1.60	0.160	1.20	0.010	NA	NA	0.230	NA	32.00
744.2	San Onofre 2	TCM	03/12/91	43.0	1.60	1.00	0.20	1.70	0.280	0.80	0.020	NA	NA	0.120	NA	25.00
744.2	San Onofre 2	TCM	03/25/92	140.0	1.40	0.90	0.22	1.40	0.260	2.10	0.020	NA	0.63	0.079	NA	27.00
744.3	San Onofre 3	TCM	11/22/89	60.2	1.52	0.55	0.16	1.24	0.252	1.20	0.012	0.17	0.49	0.224	3.425	30.21
744.3	San Onofre 3	TCM	04/04/90	45.5	2.08	0.78	0.17	1.18	0.304	1.24	0.022	0.23	0.54	0.123	2.094	26.48
744.3	San Onofre 3	TCM	09/27/90	52.0	1.80	0.40	0.15	1.70	0.170	1.50	0.010	NA	NA	0.270	NA	30.00
744.3	San Onofre 3	TCM	03/12/91	33.0	0.90	0.40	0.13	1.20	0.170	0.60	0.010	NA	NA	0.040	NA	15.00
744.3	San Onofre 3	TCM	03/25/92	130.0	1.40	0.90	0.31	1.40	0.260	2.00	0.020	NA	0.59	0.048	NA	28.00
744.4	San Onofre 4	TCM	01/30/89	35.3	NA	1.03	0.21	1.75	0.240	1.27	0.042	NA	NA	0.119	NA	23.83
744.4	San Onofre 4	TCM	11/22/89	64.7	1.58	0.52	0.19	1.42	0.251	1.32	0.013	0.20	0.56	0.354	3.475	33.59
744.4	San Onofre 4	TCM	04/04/90	33.3	1.99	0.71	0.14	0.99	0.312	1.11	0.019	0.25	0.59	0.117	1.822	26.12
744.4	San Onofre 4	TCM	03/12/91	110.0	1.60	0.70	1.20	1.70	0.300	1.50	0.020	NA	NA	0.130	NA	22.00
744.4	San Onofre 4	TCM	10/24/91	77.0	0.80	0.40	0.15	1.20	0.170	1.30	0.010	NA	0.37	0.280	NA	22.00
744.4	San Onofre 4	TCM	03/25/92	120.0	1.40	0.90	0.20	1.40	0.270	2.20	0.020	NA	0.53	0.049	NA	29.00
744.5	San Onofre 5	TCM	01/30/89	28.1	NA	0.91	0.23	1.99	0.250	1.22	0.047	NA	NA	0.123	NA	25.10
744.5	San Onofre 5	TCM	11/22/89	35.5	1.70	0.60	0.16	1.42	0.228	1.04	0.014	0.15	0.43	0.330	2.320	31.56
744.5	San Onofre 5	TCM	04/04/90	21.5	1.79	0.65	0.10	1.05	0.296	0.93	0.016	0.22	0.50	0.112	1.476	22.87
744.5	San Onofre 5	TCM	10/01/90	44.0	1.60	0.30	0.15	1.70	0.150	1.30	0.010	NA	NA	0.230	NA	30.00
744.5	San Onofre 5	TCM	03/12/91	66.0	2.00	1.00	0.82	1.40	0.280	1.20	0.020	NA	NA	0.180	NA	28.00
744.5	San Onofre 5	TCM	03/25/92	110.0	1.40	1.00	0.19	1.40	0.270	1.90	0.020	NA	0.62	0.055	NA	28.00
744.6	San Onofre 6	TCM	01/30/89	43.9	NA	0.95	0.25	1.58	0.270	1.20	0.036	NA	NA	0.147	NA	25.77
744.6	San Onofre 6	TCM	11/22/89	43.1	1.90	0.52	0.17	1.63	0.225	1.08	0.014	0.16	0.63	0.338	2.439	35.03

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NA = Not Analyzed
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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
744.6	San Onofre 6	TCM	04/04/90	21.0	1.70	0.75	0.15	1.17	0.299	0.98	0.020	0.24	0.49	0.132	1.430	25.69
744.6	San Onofre 6	TCM	09/27/90	54.0	2.00	0.40	0.14	2.00	0.150	1.80	0.010	NA	NA	0.030	NA	30.00
744.6	San Onofre 6	TCM	03/12/91	25.0	2.50	0.90	0.74	1.60	0.290	1.40	0.020	NA	NA	0.010	NA	28.00
744.6	San Onofre 6	TCM	10/24/91	76.0	0.80	0.40	0.16	1.20	0.190	1.40	0.010	NA	0.45	0.170	NA	21.00
744.6	San Onofre 6	TCM	03/25/92	150.0	1.50	0.90	0.31	1.40	0.240	2.20	0.020	NA	0.61	0.071	NA	26.00
748.0	Oceanside/Harbor	TCM	12/21/87	123.7	NA	1.49	0.47	11.54	1.350	3.24	0.055	NA	NA	0.012	NA	68.30
748.0	Oceanside/Harbor	TCM	01/05/93	89.0	NA	1.70	1.30	5.30	0.460	1.20	0.027	NA	NA	0.006	NA	55.00
748.0	Oceanside/Harbor	TCM	12/21/91	71.0	NA	1.40	0.17	8.50	0.380	1.70	0.040	NA	NA	0.005	NA	50.00
750.0	Oceanside	RCM	12/21/87	85.3	NA	0.23	0.37	1.07	0.226	1.69	0.014	NA	NA	0.148	NA	22.67
750.0	Oceanside	RCM	12/20/88	55.2	NA	0.29	0.25	1.64	0.230	1.60	0.015	NA	NA	0.080	10.240	22.87
750.0	Oceanside	RCM	12/21/89	42.8	NA	0.31	0.14	0.86	0.223	1.07	0.017	NA	NA	0.037	NA	32.10
750.0	Oceanside	RCM	12/22/90	140.0	1.60	0.20	0.33	1.70	0.240	2.60	0.020	NA	NA	0.130	NA	31.00
750.0	Oceanside	RCM	12/21/91	130.0	1.00	0.20	0.20	1.50	0.150	2.80	0.010	NA	0.56	0.095	NA	23.00
750.0	Oceanside	RCM	09/09/92	110.0	NA	0.14	0.21	1.30	0.120	2.70	0.007	NA	NA	0.030	NA	21.00
751.0	Oceanside/Transplant	SED	12/22/90	40000.0	NA	1.30	19.00	220.00	39.000	260.00	2.400	NA	NA	0.050	NA	82.00
832.0	La Jolla	RCM	12/22/90	95.0	NA	0.30	0.28	1.10	0.520	1.20	0.040	NA	NA	0.900	NA	22.00
832.0	La Jolla	RCM	11/26/91	56.0	NA	0.20	0.14	0.90	0.340	1.10	0.020	NA	NA	0.360	NA	21.00
832.0	La Jolla	RCM	01/05/93	30.0	NA	0.27	0.20	0.90	0.310	0.60	0.028	NA	NA	0.660	NA	27.00
838.2	Point Loma/Sunset Cliffs	RCM	12/22/87	49.3	NA	0.30	0.31	1.51	0.601	1.08	0.073	NA	NA	0.171	NA	27.80
838.2	Point Loma/Sunset Cliffs	RCM	12/20/88	36.1	NA	0.26	0.18	1.75	0.410	1.14	0.048	NA	NA	0.200	NA	26.23
838.2	Point Loma/Sunset Cliffs	RCM	12/21/89	35.5	NA	0.31	0.19	1.40	0.446	1.04	0.033	NA	NA	3.730	NA	29.93
838.2	Point Loma/Sunset Cliffs	RCM	12/22/90	590.0	NA	1.40	1.50	7.30	3.500	12.00	0.180	NA	NA	1.900	NA	170.00
838.2	Point Loma/Sunset Cliffs	RCM	11/26/91	54.0	NA	0.10	0.12	1.20	0.240	1.30	0.030	NA	NA	0.840	NA	20.00
838.2	Point Loma/Sunset Cliffs	RCM	09/09/92	57.0	NA	0.13	0.19	1.60	0.290	1.30	0.029	NA	NA	0.470	NA	25.00
840.0	Naval Ocean Sys Cntr/Dolphin Tanks	RCM	12/20/88	41.8	NA	0.30	0.23	1.87	0.280	1.51	0.044	NA	NA	0.168	NA	30.33
840.0	Naval Ocean Sys Cntr/Dolphin Tanks	RCM	01/05/93	88.0	NA	0.14	0.26	1.70	0.240	1.80	0.043	NA	NA	0.990	NA	34.00
865.0	Mission Bay/Hilton Docks	TCM	12/21/89	11.9	NA	0.93	0.16	0.80	0.197	1.51	0.016	NA	NA	0.002	NA	21.91
866.0	Fisherman Channel	SED	09/03/90	18000.0	NA	1.10	23.00	19.00	12.000	350.00	0.020	NA	NA	0.040	NA	38.00
866.0	Fisherman Channel	TCM	12/22/90	140.0	NA	0.90	0.27	1.60	0.390	2.10	0.030	NA	NA	0.010	NA	31.00
868.5	Mission Bay/Landfill 1	SED	09/01/89	10820.3	NA	0.27	14.95	8.17	8.438	163.71	0.011	NA	NA	0.018	NA	29.49
868.5	Mission Bay/Landfill 1	TCM	12/21/89	80.7	NA	1.01	0.21	1.24	0.251	1.43	0.021	NA	NA	0.007	NA	30.52
868.5	Mission Bay/Landfill 1	SED	09/03/90	44000.0	NA	1.40	31.00	10.00	13.000	520.00	NA	NA	NA	0.040	NA	54.00
868.5	Mission Bay/Landfill 1	TCM	12/22/90	160.0	NA	0.80	1.70	1.90	0.310	2.10	0.030	NA	NA	0.010	NA	31.00
868.5	Mission Bay/Landfill 1	TCM	12/21/91	110.0	NA	0.90	0.23	1.50	0.210	2.60	0.020	NA	NA	0.009	NA	23.00
868.6	Mission Bay/Landfill 2	SED	09/03/90	31000.0	NA	1.00	39.00	14.00	13.000	560.00	NA	NA	NA	0.050	NA	67.00
868.6	Mission Bay/Landfill 2	TCM	12/21/91	130.0	NA	0.90	0.20	1.60	0.220	1.90	0.030	NA	NA	0.008	NA	26.00
871.0	Mission Bay/South Shore/Rock 2	TCM	01/05/93	170.0	NA	1.10	5.20	1.50	0.260	2.30	0.020	NA	NA	0.020	NA	30.00
872.4	Mission Bay/Kendall-Frost Reserve	TCM	01/04/93	140.0	NA	1.50	2.00	1.70	0.530	2.20	0.032	NA	NA	0.009	NA	29.00
873.5	Mission Bay/Harbor Police	TCM	01/04/93	88.0	NA	1.50	0.24	8.40	0.580	1.80	0.023	NA	NA	0.008	NA	64.00
881.0	San Diego Bay/Sweetwater Marsh	TCM	12/21/88	110.5	NA	0.86	0.26	4.09	0.470	3.73	0.037	NA	NA	0.041	NA	57.14

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
881.3	Sweetwater River/Mouth 1	SED	09/07/90	45000.0	NA	1.70	24.00	22.00	15.000	470.00	0.030	NA	NA	0.140	NA	76.00
881.3	Sweetwater River/Mouth 1	TCM	01/15/91	260.0	NA	1.00	0.33	2.60	0.490	2.90	0.040	NA	NA	0.070	NA	58.00
881.3	Sweetwater River/Mouth 1	SED	08/31/91	12000.0	NA	0.20	32.00	26.00	17.000	270.00	0.090	NA	NA	0.450	NA	120.00
881.3	Sweetwater River/Mouth 1	TCM	12/21/91	120.0	NA	1.60	0.19	3.40	0.450	6.00	0.030	NA	NA	0.029	NA	47.00
881.4	Sweetwater River/Mouth 2	SED	08/31/91	43000.0	NA	0.10	23.00	6.70	6.000	520.00	ND	NA	NA	0.044	NA	47.00
881.5	San Diego Bay/Rohr Channel Mouth	TCM	01/05/93	210.0	NA	1.60	0.35	3.60	0.470	4.70	0.023	NA	NA	0.051	NA	49.00
882.0	24th St Maritime Terminal/South	TCM	12/22/87	107.3	NA	1.01	0.38	7.85	0.641	4.33	0.025	NA	NA	0.048	NA	42.37
882.0	24th St Maritime Terminal/South	TCM	12/21/91	92.0	1.00	1.30	0.22	4.70	0.380	4.40	0.030	0.20	0.36	0.033	NA	38.00
882.2	24Th St Maritime Terminal/North	TCM	12/21/88	76.2	NA	0.79	0.37	10.81	0.670	5.75	0.033	NA	NA	0.083	NA	43.60
882.2	24Th St Maritime Terminal/North	SED	09/01/89	13841.2	NA	0.67	23.79	947.76	28.944	95.10	0.037	NA	NA	0.369	NA	165.08
882.2	24Th St Maritime Terminal/North	TCM	12/21/89	54.1	NA	1.34	0.29	5.04	0.056	3.24	0.035	NA	NA	0.057	NA	54.48
882.2	24Th St Maritime Terminal/North	TCM	01/05/93	150.0	NA	1.50	0.30	8.40	0.520	3.40	0.029	NA	NA	0.044	NA	47.00
882.5	San Diego Bay/NASSCO Pier 12	TCM	12/22/87	66.0	NA	1.10	0.38	5.67	1.019	2.80	0.026	NA	NA	0.037	NA	43.23
882.7	San Diego Bay/Sampson Street Pier	TCM	12/22/87	40.7	NA	1.52	0.37	22.64	1.503	7.49	0.070	NA	NA	0.062	NA	77.73
882.7	San Diego Bay/Sampson Street Pier	TCM	12/21/88	32.5	NA	1.27	0.36	12.25	1.070	4.09	0.041	NA	NA	0.067	NA	57.47
882.7	San Diego Bay/Sampson Street Pier	TCM	01/05/93	64.0	NA	1.90	1.00	5.40	0.580	2.00	0.033	NA	NA	0.029	NA	44.00
882.8	San Diego Bay/KELCO Pier	TCM	12/21/88	54.9	NA	1.11	0.37	9.85	1.040	4.27	0.045	NA	NA	0.098	NA	51.73
882.8	San Diego Bay/KELCO Pier	TCM	12/21/91	82.0	NA	1.20	0.22	6.10	0.650	4.40	0.030	NA	NA	0.036	NA	47.00
882.8	San Diego Bay/KELCO Pier	TCM	12/21/91	57.0	NA	2.00	0.23	7.40	0.780	3.60	0.040	NA	0.30	0.035	NA	59.00
882.9	San Diego Bay/Coronado Brdg/East	TCM	12/21/88	66.3	NA	1.25	0.48	12.49	1.410	4.16	0.035	NA	NA	0.182	NA	57.80
883.1	San Diego Bay/Chollas Creek	TCM	12/21/88	49.3	NA	1.07	0.50	8.17	2.160	5.78	0.038	NA	NA	0.069	NA	64.83
883.4	San Diego Bay/Continental Maritime	TCM	12/21/88	45.0	NA	1.03	0.33	7.75	0.820	4.27	0.034	NA	NA	0.075	NA	41.53
883.4	San Diego Bay/Continental Maritime	TCM	01/05/93	58.0	NA	1.80	2.00	3.90	0.640	2.40	0.031	NA	NA	0.027	NA	48.00
883.5	San Diego Bay/Tuna Docks	TCM	12/21/88	53.3	NA	1.12	0.37	7.86	0.960	3.54	0.055	NA	NA	0.077	NA	56.10
883.6	San Diego Bay/7th Street Channel	TCM	12/22/87	58.3	NA	1.21	0.35	6.37	3.398	7.41	0.021	NA	NA	0.051	NA	92.13
883.6	San Diego Bay/7th Street Channel	TCM	12/21/88	80.7	NA	1.06	0.48	16.52	2.630	10.36	0.035	NA	NA	0.109	NA	81.37
883.6	San Diego Bay/7th Street Channel	SED	11/27/90	20000.0	NA	1.10	38.00	78.00	23.000	260.00	0.220	NA	NA	0.570	NA	110.00
883.6	San Diego Bay/7th Street Channel	SED	08/31/91	19000.0	NA	0.20	38.00	93.00	21.000	210.00	0.210	NA	NA	0.740	NA	110.00
883.7	San Diego Bay/Terminal S-10th St	TCM	01/05/93	55.0	NA	2.00	0.35	5.00	0.940	1.70	0.041	NA	NA	0.035	NA	50.00
885.2	San Diego Bay/32nd Street	TCM	12/21/88	47.4	NA	1.09	0.64	9.37	0.660	4.65	0.030	NA	NA	0.086	NA	52.87
886.2	San Diego Gas&Electric Silvergate	TCM	12/21/88	40.7	NA	1.20	0.39	8.95	0.940	5.13	0.044	NA	NA	0.088	NA	57.10
887.0	San Diego Bay/Evans Street	SED	09/07/90	11000.0	NA	0.80	42.00	160.00	42.000	130.00	0.570	NA	NA	0.800	NA	230.00
887.0	San Diego Bay/Evans Street	TCM	12/22/90	92.0	NA	1.50	1.70	7.20	0.820	3.50	0.050	NA	NA	0.050	NA	64.00
887.0	San Diego Bay/Evans Street	TCM	12/21/91	75.0	NA	1.20	0.23	5.10	0.900	4.20	0.030	NA	NA	0.041	NA	48.00
887.0	San Diego Bay/Evans Street	TCM	01/05/93	100.0	NA	1.70	0.35	7.50	1.000	3.90	0.040	NA	NA	0.047	NA	72.00
888.0	San Diego Bay/Coronado Bridge	TCM	12/21/91	85.0	NA	1.40	0.27	6.80	0.910	4.20	0.030	NA	NA	0.048	NA	56.00
888.0	San Diego Bay/Coronado Bridge	TCM	01/05/93	40.0	NA	1.30	2.30	2.90	0.420	3.00	0.030	NA	NA	0.019	NA	37.00
891.0	San Diego Bay/G Street Pier	TCM	12/22/87	88.7	NA	1.09	0.32	2.83	1.137	2.44	0.032	NA	NA	0.040	NA	52.13
893.0	San Diego Bay/Laurel Street	TCM	01/05/93	41.0	NA	1.50	2.60	3.20	0.640	1.40	0.025	NA	NA	0.055	NA	38.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/22/87	60.3	NA	1.32	1.37	4.61	3.465	3.01	0.027	NA	NA	0.137	NA	61.63

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APPENDIX L (continued)

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, wet weight)

Station Number	Station Name	Sample Type+	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/21/88	74.2	NA	1.38	0.94	7.75	2.930	3.59	0.035	NA	NA	0.258	NA	65.83
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	SED	09/01/89	8880.8	NA	6.80	8.17	87.67	101.465	563.86	0.138	NA	NA	0.032	NA	255.78
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/21/89	66.0	NA	1.20	1.15	5.92	2.437	2.02	0.032	NA	NA	0.203	NA	61.59
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	SED	09/07/90	47000.0	NA	5.40	55.00	77.00	160.000	150.00	0.250	NA	NA	0.920	NA	250.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/22/90	170.0	NA	1.70	22.00	11.00	3.000	6.10	0.060	NA	NA	0.290	NA	69.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	SED	08/31/91	20000.0	NA	4.60	420.00	46.00	140.000	180.00	0.190	NA	NA	1.500	NA	450.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	RBM	12/21/91	71.0	NA	1.10	1.30	4.50	1.900	2.70	0.030	NA	NA	0.120	NA	40.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	01/05/93	76.0	NA	1.90	0.79	6.40	1.900	2.60	0.037	NA	NA	0.190	NA	69.00
894.1	SD Bay/Harbor Is/E Basin/Storm Dr2	TCM	12/21/88	54.2	NA	0.77	0.42	11.40	0.330	3.89	0.051	NA	NA	0.082	NA	52.33
894.2	SD Bay/Harbor Is/E Basin/E End Doc	TCM	12/21/88	46.4	NA	0.79	0.65	6.89	1.290	2.91	0.043	NA	NA	0.090	NA	51.53
894.3	SD Bay/Harbor Is/E Basin/Mid Chan	TCM	12/21/88	52.8	NA	1.07	0.76	4.79	1.670	1.75	0.035	NA	NA	0.086	NA	44.43
894.8	Laurel Street Storm Drain	TCM	12/21/88	54.9	NA	1.10	0.44	3.48	1.350	2.14	0.029	NA	NA	0.097	NA	43.93
895.6	San Diego Bay/Grape St Storm Drain	TCM	01/05/93	38.0	NA	1.90	0.20	2.80	0.640	1.60	0.031	NA	NA	0.078	NA	48.00
897.5	Commercial Basin/North Harbor Dr	TCM	12/22/87	58.3	NA	1.35	0.40	7.08	1.726	4.95	0.070	NA	NA	0.025	NA	109.83
898.0	Commercial Basin/Carlton Street	TCM	12/21/88	37.4	NA	0.78	0.27	12.76	1.190	1.77	0.074	NA	NA	0.053	NA	46.33
898.0	Commercial Basin/Carlton Street	TCM	12/21/89	53.8	NA	0.87	0.24	20.86	1.753	3.02	0.107	NA	NA	0.048	NA	97.17
898.0	Commercial Basin/Carlton Street	TCM	01/05/93	57.0	NA	2.10	0.29	11.00	1.300	2.20	0.078	NA	NA	0.024	NA	94.00
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/88	44.9	NA	0.96	0.41	1.71	0.570	1.23	0.032	NA	NA	0.041	NA	32.67
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/89	54.0	NA	0.86	0.21	1.95	0.660	1.50	0.030	NA	NA	0.012	NA	42.00
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/91	89.0	1.10	1.10	0.25	2.50	0.620	2.30	0.030	0.10	0.32	0.021	NA	44.00
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	01/05/93	130.0	NA	1.50	0.28	2.60	0.670	1.70	0.036	NA	NA	0.017	NA	54.00
899.2	San Diego Bay/Shelter Island	TCM	01/05/93	80.0	NA	1.50	0.29	24.00	0.930	1.90	0.076	NA	NA	0.041	NA	120.00
899.4	San Diego Bay/Shelter Is/Fuel Dock	TCM	12/22/87	53.0	NA	1.29	0.31	8.28	1.077	2.27	0.064	NA	NA	0.019	NA	85.90
901.0	San Diego Bay/Degausing Station	SED	09/07/90	5500.0	NA	1.70	19.00	6.00	16.000	180.00	NA	NA	NA	0.060	NA	33.00
901.0	San Diego Bay/Degausing Station	TCM	12/21/91	120.0	NA	0.90	0.29	2.40	0.510	3.30	0.020	NA	NA	0.037	NA	41.00
904.0	Imperial Beach/Pier	RCM	12/22/90	130.0	NA	0.20	0.30	2.00	0.410	2.50	0.030	NA	NA	0.730	NA	34.00

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