

APPENDIX M

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

APPENDIX M

State Mussel Watch Program

Summary of 1987-93 Data: Trace Elements in Mussels, Clams, and Sediment (ppm, dry 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	486.54	NA	3.89	6.29	7.31	2.13	12.73	0.55	NA	NA	2.236	NA	153.21
2.0	Crescent City/STP Outfall	RCM	02/17/89	113.75	NA	2.42	1.29	7.17	1.13	4.33	0.60	NA	NA	0.696	NA	135.79
2.0	Crescent City/STP Outfall	RCM	02/23/90	363.27	NA	4.13	2.90	10.61	2.53	10.79	0.25	NA	NA	2.420	NA	172.50
2.0	Crescent City/STP Outfall	RCM	02/27/90	700.00	NA	5.50	32.00	13.00	2.70	14.00	1.10	NA	NA	4.700	NA	210.00
2.0	Crescent City/STP Outfall	RCM	03/12/92	540.00	NA	3.90	2.60	12.00	2.50	9.30	1.30	NA	NA	5.500	NA	200.00
3.0	Crescent City/Control	RCM	02/12/88	412.88	NA	5.45	5.32	5.26	1.24	13.47	0.27	NA	NA	0.282	NA	148.48
3.0	Crescent City/Control	RCM	02/17/89	199.19	NA	3.33	1.90	5.14	0.81	9.00	0.18	NA	NA	0.019	NA	164.29
3.0	Crescent City/Control	RCM	02/23/90	489.21	NA	4.15	3.06	8.54	0.77	14.98	0.14	NA	NA	0.011	NA	159.88
3.0	Crescent City/Control	RCM	02/27/90	1600.00	NA	6.70	56.00	11.00	1.30	25.00	0.28	NA	1.40	0.040	NA	190.00
3.0	Crescent City/Control	RCM	03/12/92	1100.00	NA	3.00	3.70	11.00	0.72	18.00	0.27	NA	NA	0.028	NA	130.00
10.0	Trinidad Head	RCM	09/08/87	216.14	NA	6.01	2.87	4.64	1.21	10.38	0.04	NA	NA	0.032	NA	82.19
10.0	Trinidad Head	RCM	09/20/88	208.08	NA	4.19	1.92	4.96	0.50	10.38	0.10	2.04	NA	0.023	36.88	93.62
10.0	Trinidad Head	RCM	09/28/89	336.62	NA	5.70	2.20	7.35	0.58	14.66	0.08	NA	NA	0.020	NA	87.12
10.0	Trinidad Head	RCM	09/18/90	830.00	10.00	7.10	3.30	5.80	1.20	12.00	0.14	3.40	1.40	0.030	NA	140.00
10.0	Trinidad Head	RCM	10/08/91	550.00	7.20	8.90	2.70	10.00	1.20	10.00	0.13	3.50	2.60	0.023	NA	150.00
10.0	Trinidad Head	RCM	10/22/92	590.00	NA	7.10	2.20	8.40	0.63	11.00	0.07	NA	NA	0.019	NA	86.00
100.0	Mad River Slough	TCM	02/25/92	1300.00	NA	4.60	3.60	12.00	1.30	22.00	0.17	NA	NA	0.029	NA	160.00
101.0	Samoa Bridge/West	TCM	02/27/91	1900.00	NA	5.50	40.00	12.00	1.30	28.00	0.22	NA	NA	0.040	NA	190.00
102.0	Samoa Bridge/East	TCM	02/17/89	601.00	NA	3.50	3.50	7.55	1.30	19.40	0.23	NA	NA	0.035	NA	171.45
102.0	Samoa Bridge/East	TCM	02/25/92	1600.00	NA	7.10	4.10	11.00	2.30	20.00	0.20	NA	NA	0.035	NA	210.00
103.0	Eureka Channel	TCM	02/17/89	538.83	NA	3.65	3.52	6.57	1.13	17.09	0.15	NA	NA	0.017	NA	138.96
103.0	Eureka Channel	TCM	02/25/92	1900.00	NA	5.90	4.80	11.00	1.60	25.00	0.20	NA	NA	0.026	NA	180.00
103.0	Eureka Channel	TCM	02/17/93	2000.00	NA	4.70	15.00	11.00	1.60	25.00	0.17	NA	NA	0.013	NA	160.00
103.2	Louisiana Pacific Dock	TCM	02/11/88	1238.68	NA	4.45	6.08	6.05	1.77	23.31	0.15	NA	NA	0.048	NA	140.95
103.3	E Street	TCM	02/25/92	1800.00	NA	7.30	4.50	11.00	2.60	22.00	0.22	NA	NA	0.026	NA	200.00
103.7	Eda Dock	TCM	02/25/92	1100.00	NA	7.20	3.30	9.70	2.70	13.00	0.24	NA	NA	0.024	NA	210.00
104.0	Eureka STP/Outfall	TCM	02/11/88	1062.37	NA	4.95	6.79	10.00	1.30	22.41	0.13	NA	NA	0.054	NA	150.32
104.0	Eureka STP/Outfall	TCM	02/23/90	1046.51	NA	5.77	5.30	10.17	1.22	22.54	0.17	NA	NA	0.027	NA	181.52
104.0	Eureka STP/Outfall	TCM	02/27/91	2200.00	NA	6.00	58.00	12.00	1.50	31.00	0.15	NA	NA	0.050	NA	180.00
104.0	Eureka STP/Outfall	TCM	02/25/92	1400.00	NA	4.30	3.30	9.80	1.30	20.00	0.15	NA	NA	0.031	NA	160.00
104.5	Eureka STP/Control	TCM	02/12/88	802.93	NA	4.48	6.27	6.48	1.48	18.68	0.12	NA	NA	0.023	NA	144.45
104.5	Eureka STP/Control	TCM	02/17/89	473.78	NA	3.48	3.17	6.57	0.87	15.61	0.18	NA	NA	0.022	NA	127.00
104.5	Eureka STP/Control	TCM	02/23/90	974.04	NA	5.00	4.28	10.39	1.85	21.92	0.15	NA	NA	0.017	NA	165.68
104.5	Eureka STP/Control	TCM	02/27/91	2200.00	NA	4.90	34.00	11.00	1.70	28.00	0.14	NA	NA	0.030	NA	170.00
104.5	Eureka STP/Control	TCM	02/25/92	1600.00	NA	5.50	3.70	11.00	1.40	23.00	0.18	NA	NA	0.023	NA	160.00
104.5	Eureka STP/Control	TCM	02/17/93	2200.00	NA	3.90	9.60	9.90	1.40	26.00	0.15	NA	NA	0.016	NA	130.00
106.0	Fields Landing	TCM	02/25/92	1700.00	NA	7.90	4.00	9.80	1.90	21.00	0.21	NA	NA	0.031	NA	180.00
150.4	Noyo Harbor	SED	03/02/93	44000.00	NA	0.29	100.00	59.00	8.90	510.00	0.09	NA	NA	0.088	NA	160.00
155.1	Lake Pillsbury 1	TFC	03/31/93	2400.00	NA	0.50	18.00	50.00	0.37	54.00	0.16	NA	NA	0.076	NA	100.00
155.3	Lake Pillsbury 2	TFC	03/31/93	2800.00	NA	0.45	7.60	51.00	0.47	60.00	0.15	NA	NA	0.066	NA	110.00

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* RCM = Resident California Mussel TFC = Transplanted Fresh Water Clam NA = Not Analyzed
 TCM = Transplanted California Mussel RFC = Resident Fresh Water Clam ND = Not Detected
 RBM = Resident Bay Mussel SED = Sediment

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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
159.0	Russian River West Fork	TFC	03/20/90	1591.00	6.73	1.27	24.81	60.19	0.95	61.34	0.21	NA	3.10	0.058	NA	143.69
159.0	Russian River West Fork	TFC	01/29/91	300.00	NA	2.10	15.00	88.00	0.72	18.00	0.40	NA	NA	0.060	NA	180.00
159.0	Russian River West Fork	TFC	03/06/92	4900.00	8.90	3.60	21.00	35.00	1.00	68.00	0.28	9.60	4.80	0.430	NA	120.00
159.0	Russian River West Fork	TFC	03/30/93	1800.00	NA	0.44	15.00	46.00	0.40	38.00	0.14	NA	NA	0.066	NA	99.00
160.0	Lake Mendocino	RFC	11/30/89	306.48	12.67	0.55	3.87	48.99	0.66	30.08	0.10	NA	1.93	0.064	NA	52.90
165.0	Russian River Below Ukiah	TFC	03/20/90	1735.74	7.37	1.52	14.48	68.11	2.57	78.17	0.26	NA	3.00	0.774	NA	163.76
165.0	Russian River Below Ukiah	TFC	03/06/92	8000.00	7.90	4.00	26.00	130.00	1.70	190.00	0.34	22.00	4.40	0.320	NA	170.00
165.0	Russian River Below Ukiah	TFC	03/30/93	1700.00	NA	0.40	4.10	45.00	0.33	38.00	0.16	NA	NA	0.290	NA	110.00
175.0	Big Sulfur Creek	TFC	03/21/90	1052.99	NA	2.35	16.19	81.14	1.38	32.01	NA	NA	NA	0.067	NA	140.53
175.0	Big Sulfur Creek	TFC	01/29/91	630.00	NA	5.70	43.00	250.00	1.40	140.00	1.80	NA	NA	0.160	NA	470.00
175.0	Big Sulfur Creek	TFC	03/30/93	880.00	NA	0.54	4.30	57.00	0.13	26.00	0.15	NA	NA	0.063	NA	110.00
176.0	Lake Sonoma	TFC	03/30/93	900.00	NA	0.46	16.00	45.00	0.23	31.00	0.11	NA	NA	0.075	NA	100.00
190.0	Estero Americano	RCM	12/05/88	190.18	NA	12.65	1.59	9.29	0.59	8.06	0.21	NA	NA	0.053	NA	146.47
190.0	Estero Americano	RCM	02/06/90	308.63	9.40	8.24	1.80	8.14	0.53	7.66	0.17	2.25	2.27	0.054	NA	143.74
190.0	Estero Americano	RCM	01/29/91	580.00	7.60	14.00	2.00	7.90	0.64	8.70	0.20	NA	1.50	0.130	NA	140.00
190.0	Estero Americano	RCM	03/05/92	890.00	6.30	7.00	1.80	8.30	0.46	12.00	0.11	2.50	2.60	0.071	NA	110.00
202.0	Bodega Head	RCM	08/14/87	78.73	NA	7.25	2.66	4.09	0.69	5.09	0.12	1.31	2.38	0.092	27.08	83.25
202.0	Bodega Head	RCM	08/24/88	100.00	14.07	13.36	1.64	7.71	0.71	5.21	0.25	1.86	3.57	0.079	7.71	149.50
202.0	Bodega Head	RCM	08/28/89	34.32	12.00	12.04	1.28	6.00	0.68	3.88	0.18	1.82	2.37	0.050	4.57	128.90
202.0	Bodega Head	RCM	11/14/89	280.22	11.33	6.68	1.32	7.24	1.03	7.95	0.19	2.08	2.30	0.077	13.64	152.22
202.0	Bodega Head	RCM	08/22/90	280.00	10.00	13.00	1.70	5.50	1.20	6.00	0.22	2.60	1.70	0.070	NA	180.00
202.0	Bodega Head	RCM	08/28/91	140.00	6.50	11.00	0.87	5.50	0.62	3.90	0.16	1.70	2.10	0.042	NA	130.00
202.0	Bodega Head	RCM	09/01/92	140.00	15.00	12.00	1.90	5.60	1.00	4.50	0.15	1.60	2.10	0.039	NA	150.00
203.0	Tomales Bay	RBM	01/29/91	2100.00	6.80	5.10	5.00	7.40	0.52	53.00	0.21	NA	3.40	0.020	NA	90.00
203.0	Tomales Bay	RBM	12/30/91	1200.00	4.40	4.00	1.70	6.60	0.26	25.00	0.19	3.90	4.10	0.021	NA	76.00
204.0	Estero De San Antonio	TCM	02/26/93	1000.00	NA	8.90	20.00	9.60	1.20	18.00	0.26	NA	NA	0.017	NA	200.00
205.0	Bodega Harbor/Spud Point Marina	TCM	01/29/89	335.29	NA	5.06	1.71	19.00	1.35	8.06	0.29	NA	NA	0.024	NA	215.88
205.0	Bodega Harbor/Spud Point Marina	TCM	01/29/91	2300.00	NA	7.00	2.50	15.00	1.50	11.00	0.31	NA	NA	0.030	NA	210.00
205.0	Bodega Harbor/Spud Point Marina	SED	11/20/91	19000.00	NA	1.10	260.00	110.00	16.00	330.00	0.29	NA	NA	0.110	NA	170.00
205.0	Bodega Harbor/Spud Point Marina	TCM	01/10/92	1000.00	8.50	10.00	2.20	18.00	1.80	8.60	0.29	2.60	3.50	0.020	NA	230.00
205.0	Bodega Harbor/Spud Point Marina	TCM	03/02/93	1500.00	NA	7.80	6.70	16.00	2.20	15.00	0.24	NA	NA	0.014	NA	260.00
207.0	Point Reyes	RCM	01/29/91	260.00	NA	17.00	2.10	7.10	1.30	5.60	0.21	NA	NA	0.510	NA	150.00
280.0	Russian River/S Goat Rock	RCM	12/29/87	513.07	NA	5.75	4.09	5.10	0.60	12.40	0.06	NA	NA	0.064	NA	51.96
280.0	Russian River/S Goat Rock	RCM	12/05/88	293.32	NA	12.21	2.53	9.84	0.53	11.42	0.13	NA	NA	0.026	NA	122.79
280.0	Russian River/S Goat Rock	TCM	02/25/93	1200.00	NA	6.50	15.00	10.00	0.74	20.00	0.22	NA	NA	0.044	NA	190.00
290.0	Russian River/near Moscow	TFC	02/08/88	4780.30	NA	13.81	40.89	31.74	2.25	167.83	0.20	NA	NA	0.303	NA	100.25
290.0	Russian River/near Moscow	TFC	03/30/93	600.00	NA	0.50	12.00	43.00	0.18	22.00	0.08	NA	NA	0.039	NA	83.00
294.1	Mark West Creek/Slusser Road	TFC	04/07/92	1000.00	7.10	6.60	9.30	120.00	0.35	50.00	0.32	4.30	5.50	0.280	NA	130.00
294.2	Windsor Creek/Mark West Station Rd	TFC	04/07/92	2500.00	6.80	4.10	13.00	110.00	0.96	270.00	0.87	7.90	4.00	0.180	NA	190.00
294.5	Green Valley Creek 1	TFC	03/30/93	410.00	NA	0.48	14.00	52.00	0.24	23.00	0.07	NA	NA	0.049	NA	110.00
294.6	Green Valley Creek 2	TFC	03/30/93	420.00	NA	0.48	15.00	47.00	0.28	22.00	0.12	NA	NA	0.080	NA	110.00
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	12/05/88	140.00	5.78	10.78	1.00	33.44	0.78	39.44	0.42	3.22	4.00	0.256	7.33	141.11

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295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	03/20/90	732.25	7.87	1.71	10.32	53.12	2.08	55.63	0.43	6.17	2.90	0.033	NA	203.40
295.1	Santa Rosa Fl Con Ch/Willowside Rd	TFC	01/30/91	890.00	11.00	2.40	3.30	73.00	1.10	120.00	0.32	NA	2.40	0.040	NA	190.00
295.2	Laguna de Santa Rosa/Stony Point	TFC	12/05/88	37.78	5.33	6.89	0.67	31.22	0.78	32.89	0.12	1.44	3.33	0.144	19.22	106.67
295.2	Laguna de Santa Rosa/Stony Point	TFC	03/20/90	1055.37	7.65	2.09	10.06	58.26	1.62	177.59	0.32	6.63	3.25	0.031	NA	155.45
295.2	Laguna de Santa Rosa/Stony Point	TFC	01/30/91	360.00	7.80	2.00	2.30	61.00	0.33	65.00	0.33	NA	2.10	0.030	NA	150.00
295.2	Laguna De Santa Rosa/Stony Point	TFC	04/07/92	1300.00	9.40	3.40	17.00	170.00	1.00	46.00	0.47	4.10	4.80	0.360	NA	150.00
295.3	Mark West Creek/Wholer Road	TFC	12/05/88	376.14	8.29	14.71	1.57	48.57	0.71	59.86	0.47	4.86	6.57	0.386	18.14	218.14
295.3	Mark West Creek/Wholer Road	TFC	03/20/90	1250.52	9.23	2.29	16.30	67.61	0.86	74.66	0.31	11.39	3.43	0.043	NA	299.39
295.3	Mark West Creek/Wholer Road	TFC	04/07/92	5700.00	9.30	5.50	28.00	150.00	1.50	120.00	0.37	26.00	5.20	0.300	NA	180.00
295.4	Russian River/Wholer Bridge	TFC	12/05/88	682.50	15.75	22.75	8.00	173.50	1.25	76.00	0.60	12.75	9.00	0.575	34.75	344.25
295.4	Russian River/Wholer Bridge	TFC	03/20/90	976.57	7.95	1.83	11.40	54.83	1.16	136.32	0.33	4.55	3.10	0.054	NA	137.59
295.4	Russian River/Wholer Bridge	TFC	01/30/91	570.00	8.20	3.00	3.30	70.00	0.49	31.00	0.29	NA	2.40	0.050	NA	160.00
295.4	Russian River/Wholer Bridge	TFC	04/07/92	900.00	4.80	3.20	6.70	98.00	0.66	46.00	0.46	4.00	4.00	0.190	NA	170.00
295.5	Russian River/Hacienda Bridge	TFC	12/05/88	1837.40	11.60	16.60	9.20	80.40	1.40	159.60	0.86	21.20	9.60	0.460	49.00	320.60
295.5	Russian River/Hacienda Bridge	TFC	03/20/90	1979.86	8.03	1.84	12.37	54.74	0.67	47.23	0.20	7.85	3.23	0.053	NA	143.67
295.5	Russian River/Hacienda Bridge	TFC	04/07/92	1900.00	12.00	5.40	20.00	170.00	0.81	55.00	0.36	10.00	6.10	0.410	NA	150.00
298.0	Brannan Island	RFC	12/29/87	287.36	NA	2.91	13.37	115.13	1.22	27.36	0.18	NA	4.10	0.268	NA	198.47
298.0	Brannan Island	RFC	12/29/88	811.89	NA	4.44	17.78	184.78	1.22	54.33	0.56	NA	5.56	0.356	NA	291.89
298.3	Concord Naval/Pier 4	TCM	12/08/87	2031.74	NA	6.15	7.48	14.17	1.57	48.06	0.17	NA	NA	0.095	NA	146.43
298.4	Concord Naval/Seal Island	TCM	12/08/87	2123.45	NA	7.16	8.01	15.68	1.91	48.40	0.27	NA	NA	0.169	NA	176.13
299.1	Selby Slag 4	TCM	01/14/88	382.81	NA	14.19	4.47	12.53	1.94	13.36	0.26	NA	NA	0.148	NA	209.12
299.2	Selby Slag 5	TCM	01/14/88	409.96	NA	8.47	4.26	12.64	3.07	15.48	0.18	NA	NA	0.103	NA	181.23
299.3	Selby Slag 6	TCM	01/14/88	633.33	NA	11.37	5.07	11.50	2.15	16.13	0.22	NA	NA	0.112	NA	203.33
299.4	Selby Slag 7	TCM	01/14/88	389.56	NA	12.37	4.96	11.65	1.86	14.58	0.27	NA	NA	0.165	NA	202.41
300.2	Mare Island	TCM	01/14/88	325.00	NA	12.12	3.42	12.54	2.30	14.83	0.30	NA	4.37	0.120	NA	211.25
300.2	Mare Island	TCM	12/30/88	539.57	NA	13.00	3.14	15.43	1.71	33.86	0.51	NA	5.43	0.143	NA	271.00
301.0	Davis Point	TCM	01/14/88	680.70	NA	10.18	4.02	11.65	2.15	15.23	0.20	NA	NA	0.116	NA	200.35
301.4	Union Oil Outfall	TCM	01/28/88	390.07	NA	13.08	3.59	13.37	2.72	15.74	0.20	NA	20.57	0.809	NA	309.57
301.4	Union Oil Outfall	TCM	12/30/88	805.29	NA	19.57	4.43	18.43	3.43	26.29	0.63	NA	44.29	1.100	NA	504.29
302.0	Point Pinole	TCM	01/14/88	578.17	NA	11.71	3.25	10.09	2.47	17.46	0.25	NA	3.66	0.094	NA	233.04
302.0	Point Pinole	TCM	12/30/88	559.00	NA	9.54	2.77	10.85	1.31	14.00	0.33	NA	4.15	0.100	NA	175.15
302.0	Point Pinole	TCM	02/09/90	806.67	NA	13.72	3.93	9.46	3.18	18.77	0.30	NA	NA	0.077	NA	246.66
302.0	Point Pinole	TCM	01/16/91	2100.00	11.00	13.00	4.90	61.00	3.50	21.00	0.35	NA	3.40	0.100	NA	320.00
302.0	Point Pinole	TCM	12/27/91	1500.00	7.10	9.10	2.60	11.00	1.60	19.00	0.22	3.00	4.00	0.063	NA	210.00
302.0	Point Pinole	TCM	01/20/93	1200.00	11.00	19.00	4.40	12.00	3.40	16.00	0.34	4.00	4.80	0.120	NA	350.00
302.4	Castro Cove Bridge	TCM	01/18/88	472.60	NA	7.10	3.82	10.64	4.26	27.81	0.53	NA	3.86	0.075	NA	160.50
302.4	Castro Cove Bridge	TCM	12/29/88	688.56	NA	7.06	3.63	12.94	3.69	39.50	0.66	NA	4.88	0.094	NA	203.75
303.1	Santa Fe Channel/Mouth	TCM	03/22/91	2700.00	8.50	11.00	37.00	16.00	3.70	32.00	0.48	NA	2.60	0.260	NA	300.00
303.3	Lauritzen Canal/End	TCM	03/22/91	2600.00	12.00	20.00	15.00	16.00	5.70	65.00	0.49	NA	2.30	0.140	NA	430.00
303.4	Santa Fe Channel/End	TCM	03/22/91	2000.00	7.20	7.40	7.00	47.00	6.20	37.00	0.44	NA	2.30	0.240	NA	370.00
303.6	Richmond Inner Harbor Basin	TCM	01/14/88	680.66	NA	7.13	3.50	16.97	2.77	17.20	0.36	NA	NA	0.077	NA	194.41
303.6	Richmond Inner Harbor Basin	TCM	12/29/88	545.80	NA	5.67	2.60	18.80	3.07	17.13	0.51	NA	NA	0.060	NA	220.47

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
304.4	Serl Intake	TCM	03/22/91	1900.00	7.00	8.30	33.00	14.00	3.20	26.00	0.61	NA	3.30	0.210	NA	240.00
304.6	Point Isabel	TCM	01/14/88	1005.09	NA	8.47	3.40	12.06	10.64	14.35	0.52	NA	NA	0.097	NA	217.05
306.0	San Francisco Bay/Fort Baker	TCM	01/30/91	1800.00	7.90	6.60	3.10	14.00	2.80	22.00	0.21	NA	3.10	1.100	NA	200.00
306.0	San Francisco Bay/Fort Baker	TCM	12/17/91	1500.00	6.70	8.80	2.60	12.00	2.20	17.00	0.20	2.80	5.70	0.550	NA	160.00
306.0	San Francisco Bay/Fort Baker	TCM	01/20/93	1600.00	9.60	6.30	3.40	12.00	3.70	22.00	0.24	3.50	5.20	0.980	NA	210.00
306.5	Alcatraz Island	TCM	01/05/89	393.56	NA	6.81	2.06	12.06	1.56	15.88	0.34	NA	NA	0.338	NA	201.69
307.0	San Francisco Bay/Treasure Is	TCM	01/14/88	1624.11	NA	9.39	3.86	14.40	1.94	22.65	0.34	NA	6.08	0.799	NA	209.46
307.0	San Francisco Bay/Treasure Is	TCM	12/30/88	487.78	NA	5.44	2.22	11.11	1.22	19.33	0.37	NA	5.44	0.483	NA	168.33
307.0	San Francisco Bay/Treasure Is	TCM	02/09/90	784.05	NA	10.15	2.96	11.26	2.90	22.01	0.24	NA	NA	0.899	NA	251.12
307.0	San Francisco Bay/Treasure Is	TCM	01/16/91	1700.00	9.80	8.70	3.30	16.00	2.60	24.00	0.27	NA	3.70	1.200	NA	210.00
307.0	San Francisco Bay/Treasure Is	TCM	12/17/91	1900.00	7.50	8.90	3.20	13.00	2.00	25.00	0.25	3.50	5.10	0.620	NA	210.00
307.0	San Francisco Bay/Treasure Is	TCM	02/01/93	970.00	12.00	15.00	2.80	13.00	2.00	17.00	0.24	4.20	6.30	1.100	NA	330.00
307.2	Alameda Yacht Harbor	TCM	01/14/88	950.70	NA	12.81	4.71	21.83	10.77	52.89	0.65	NA	NA	0.167	NA	312.91
307.2	Alameda Yacht Harbor	TCM	12/30/88	598.46	NA	9.00	3.08	21.62	6.46	32.54	0.78	NA	NA	0.115	NA	330.23
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/14/88	1016.67	NA	12.26	5.42	54.07	29.57	36.45	0.72	NA	NA	0.431	NA	321.67
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	12/30/88	415.00	NA	9.58	2.67	31.50	8.25	26.92	0.81	NA	NA	0.333	NA	333.92
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/30/91	1700.00	11.00	14.00	4.40	41.00	12.00	43.00	0.40	NA	1.70	0.350	NA	460.00
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	12/17/91	870.00	8.20	13.00	2.20	20.00	4.90	24.00	0.37	2.20	2.20	0.140	NA	300.00
307.4	Oakland Inner Hbr/Embarcadero Cove	TCM	01/20/93	1500.00	13.00	16.00	5.00	19.00	4.80	39.00	0.44	4.60	3.40	0.081	NA	440.00
307.5	Lake Merritt	RBM	05/22/92	460.00	NA	6.00	2.50	10.00	6.70	21.00	0.30	NA	NA	0.022	NA	260.00
307.5	Lake Merritt	RCM	03/16/93	1200.00	NA	5.10	2.70	13.00	14.00	59.00	0.23	5.00	NA	0.025	NA	280.00
307.6	Oakland Back Harbor	TCM	01/14/88	828.57	NA	9.00	4.45	20.22	10.17	38.17	0.69	NA	NA	0.167	NA	270.72
307.8	San Francisco Outfall	TCM	12/29/88	308.82	NA	6.82	2.00	16.59	2.29	13.76	0.57	NA	NA	1.012	NA	192.94
307.9	San Francisco/Islands Channel	TCM	01/15/88	803.03	NA	9.33	4.00	14.03	6.27	19.03	0.71	NA	NA	2.885	NA	195.45
308.0	San Francisco Bay/Hunter's Point	TCM	01/16/91	2200.00	9.90	8.40	4.70	13.00	2.60	27.00	0.35	NA	2.60	1.600	NA	220.00
308.0	San Francisco Bay/Hunter's Point	TCM	12/16/91	1600.00	7.30	9.60	3.00	11.00	1.60	24.00	0.21	3.20	4.00	0.600	NA	190.00
308.0	San Francisco Bay/Hunter's Point	TCM	02/01/93	2300.00	NA	14.00	5.70	14.00	3.50	29.00	0.29	5.80	NA	1.000	NA	360.00
308.2	Hunter's Point/Shipyard	TCM	01/15/88	727.51	NA	8.12	4.08	14.26	5.16	19.55	0.36	NA	NA	0.363	NA	190.74
308.2	Hunter's Point/Shipyard	TCM	12/29/88	398.26	NA	6.21	2.21	12.47	2.95	16.00	0.41	NA	NA	0.295	NA	189.47
309.0	San Mateo Bridge/8B	TCM	02/09/90	1016.01	NA	11.42	3.69	13.41	2.49	24.51	0.51	NA	NA	0.893	NA	236.17
309.0	San Mateo Bridge/8B	TCM	01/16/91	1700.00	11.00	13.00	4.50	9.80	2.40	23.00	0.34	NA	1.80	0.760	NA	230.00
309.0	San Mateo Bridge/8B	TCM	12/16/91	2100.00	7.70	11.00	3.60	12.00	1.80	27.00	0.12	3.50	3.60	0.440	NA	210.00
309.0	San Mateo Bridge/8B	TCM	02/01/93	2200.00	NA	14.00	5.70	14.00	3.00	29.00	0.31	5.50	NA	0.950	NA	300.00
313.0	San Francisco Bay/near Redwood Cr	TCM	01/16/91	2000.00	12.00	14.00	18.00	12.00	3.10	31.00	0.34	NA	2.60	0.720	NA	350.00
313.0	San Francisco Bay/near Redwood Cr	TCM	12/16/91	1600.00	7.90	11.00	3.00	11.00	1.80	31.00	0.20	3.20	3.40	0.210	NA	230.00
313.0	San Francisco Bay/near Redwood Cr	TCM	02/01/93	2700.00	NA	14.00	6.80	12.00	3.20	40.00	0.25	6.20	NA	0.300	NA	270.00
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/15/88	1032.83	NA	9.77	4.04	14.49	1.59	36.29	0.35	NA	NA	0.550	NA	180.81
321.0	Dumbarton Bridge/Channel Marker 14	TCM	12/29/88	786.64	NA	11.00	3.45	11.09	1.91	49.36	0.62	NA	NA	0.445	NA	230.64
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/16/91	3200.00	11.00	14.00	7.40	12.00	3.10	55.00	0.41	NA	2.30	0.640	NA	300.00
321.0	Dumbarton Bridge/Channel Marker 14	TCM	12/16/91	1600.00	6.90	9.60	3.10	9.00	1.50	30.00	0.19	2.70	2.70	0.150	NA	180.00
323.3	Palo Alto Outfall	TCM	12/29/88	367.15	NA	9.85	2.62	10.54	1.31	18.69	0.49	NA	NA	0.569	NA	175.15
323.3	Palo Alto Outfall	TCM	02/09/90	811.72	NA	7.76	2.36	11.67	1.54	35.76	0.64	NA	NA	1.181	NA	161.62

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
326.0	Palo Alto/Channel Marker 8	TCM	01/16/91	1800.00	6.30	8.40	3.90	12.00	2.30	47.00	0.34	NA	2.40	0.710	NA	230.00
326.0	Palo Alto/Channel Marker 8	TCM	12/16/91	1200.00	4.30	6.30	2.00	9.50	1.40	31.00	0.08	2.30	1.90	0.280	NA	130.00
326.0	Palo Alto/Channel Marker 8	TCM	02/01/93	1000.00	9.60	10.00	2.90	14.00	2.30	35.00	0.25	3.10	9.00	0.900	NA	240.00
336.0	J. Fitzgerald	RCM	01/30/91	530.00	9.30	7.90	2.20	7.20	1.10	6.30	0.21	NA	1.50	0.570	NA	140.00
399.5	San Lorenzo River	SED	01/14/91	58000.00	NA	1.60	42.00	2.90	17.00	130.00	0.03	NA	NA	0.040	NA	19.00
399.7	San Lorenzo River/Felton	SED	12/03/90	69000.00	NA	2.30	17.00	6.00	17.00	180.00	0.03	NA	NA	0.080	NA	50.00
399.7	San Lorenzo River/Felton	TFC	02/16/91	1500.00	NA	2.90	31.00	79.00	1.80	140.00	0.45	NA	NA	0.130	NA	180.00
400.2	Younger Lagoon	SED	11/04/92	41000.00	NA	0.03	78.00	2.10	5.50	67.00	0.03	NA	NA	0.028	NA	11.00
400.2	Younger Lagoon	TCM	02/25/93	530.00	NA	12.00	2.20	9.40	0.85	11.00	0.21	NA	NA	0.069	NA	170.00
400.6	Santa Cruz/Natural Bridges	RCM	02/16/88	196.08	NA	4.09	2.80	8.26	2.79	4.86	0.24	NA	NA	2.118	NA	154.41
400.6	Santa Cruz/Natural Bridges	RCM	01/28/89	166.20	NA	5.00	1.27	9.60	1.20	4.87	0.25	NA	NA	0.980	NA	180.00
400.8	Aptos Creek	TFC	01/31/90	1162.97	8.23	1.49	9.33	54.94	0.74	150.51	0.33	NA	3.27	0.036	NA	155.12
400.8	Aptos Creek	TFC	10/25/90	600.00	11.00	2.50	10.00	77.00	0.38	110.00	0.25	NA	2.50	0.060	NA	150.00
400.8	Aptos Creek	RFC	11/14/90	571.20	12.20	2.00	9.40	72.40	0.41	94.90	0.41	NA	NA	0.100	NA	173.00
400.8	Aptos Creek	RFC	11/26/90	223.80	NA	3.00	11.00	92.50	0.45	34.30	0.45	NA	NA	0.150	NA	194.00
400.8	Aptos Creek	TFC	12/19/91	1900.00	13.00	5.10	61.00	160.00	0.36	37.00	0.21	NA	5.30	0.410	NA	150.00
401.1	Santa Cruz/T Dock	TCM	02/08/89	249.19	NA	8.29	2.00	113.00	7.48	9.67	0.52	NA	NA	0.062	NA	451.43
402.1	Azevedo Pond	TCM	02/25/93	930.00	NA	12.00	23.00	10.00	2.70	30.00	0.23	NA	NA	0.060	NA	210.00
402.2	Parson's Slough	TCM	02/25/93	1200.00	NA	12.00	13.00	12.00	1.90	18.00	0.23	NA	NA	0.075	NA	200.00
402.5	Elkhorn Slough/Tidal Pond	TCM	02/25/93	1200.00	NA	7.60	7.60	9.00	1.20	17.00	0.22	NA	NA	0.066	NA	170.00
403.5	Moss Landing/South Harbor	TCM	02/02/88	638.30	NA	6.74	3.06	17.09	2.34	18.13	0.29	NA	NA	0.040	NA	283.22
403.5	Moss Landing/South Harbor	TCM	01/04/89	298.17	NA	7.50	1.44	13.17	1.33	19.00	0.36	NA	NA	0.011	NA	379.06
404.0	Sandholdt Bridge	RBM	04/07/88	340.74	NA	6.08	1.74	8.37	2.47	32.84	0.23	NA	NA	0.025	NA	382.96
404.0	Sandholdt Bridge	RBM	12/08/88	362.31	NA	4.56	1.44	10.00	0.94	12.88	0.24	NA	NA	0.006	NA	236.69
404.0	Sandholdt Bridge	TCM	01/04/89	234.05	NA	6.79	1.26	11.32	0.95	18.74	0.27	NA	NA	0.021	NA	355.11
404.0	Sandholdt Bridge	RBM	02/27/89	201.44	NA	8.19	0.94	9.44	0.88	12.25	0.26	NA	NA	0.013	NA	277.69
404.0	Sandholdt Bridge	RBM	04/06/89	171.13	NA	6.67	0.93	9.07	1.13	14.07	0.23	NA	NA	0.207	NA	267.33
404.0	Sandholdt Bridge	TCM	02/19/90	802.93	NA	6.31	1.83	10.55	2.01	17.68	0.27	NA	NA	0.008	NA	221.01
404.0	Sandholdt Bridge	TCM	02/04/91	1300.00	NA	7.30	3.00	11.00	1.70	17.00	0.19	NA	NA	0.030	NA	200.00
404.0	Sandholdt Bridge	TCM	01/28/92	290.00	6.90	6.60	1.80	11.00	1.10	9.30	0.16	2.60	2.80	0.016	NA	160.00
404.0	Sandholdt Bridge	TCM	02/01/93	1300.00	12.00	6.50	2.50	11.00	1.60	17.00	0.21	2.50	3.60	0.026	NA	210.00
405.2	Old Salinas River 2	SED	01/27/92	56000.00	NA	0.30	120.00	6.70	12.00	290.00	ND	NA	NA	0.051	NA	40.00
405.2	Old Salinas River 2	TFC	03/16/92	930.00	NA	11.00	5.70	47.00	0.26	33.00	0.14	NA	NA	0.100	NA	74.00
405.3	Old Salinas River 1	SED	01/27/92	54000.00	NA	0.70	180.00	11.00	14.00	430.00	ND	NA	NA	0.065	NA	52.00
405.3	Old Salinas River 1	TFC	03/16/92	1300.00	NA	4.20	11.00	66.00	0.35	55.00	0.16	NA	NA	0.150	NA	120.00
405.6	Salinas River Lag 1	SED	01/27/92	51000.00	NA	0.70	130.00	16.00	11.00	440.00	ND	NA	NA	0.085	NA	78.00
405.6	Salinas River Lag 1	TFC	03/16/92	270.00	NA	3.50	9.70	73.00	0.16	13.00	0.20	NA	NA	0.120	NA	99.00
405.7	Salinas River Lag 2	SED	01/27/92	25000.00	NA	1.10	170.00	50.00	32.00	610.00	0.13	NA	NA	0.140	NA	160.00
405.7	Salinas River Lag 2	TFC	03/16/92	3500.00	NA	3.00	14.00	82.00	1.50	65.00	0.16	NA	NA	0.180	NA	150.00
414.0	Pacific Grove	RCM	12/19/88	163.79	NA	7.79	1.46	7.87	5.76	5.40	0.16	NA	NA	0.236	NA	238.22
414.0	Pacific Grove	RCM	01/09/89	63.12	13.12	8.18	1.00	7.76	2.88	3.35	0.18	2.24	2.59	0.194	16.59	213.71
414.0	Pacific Grove	RCM	02/08/90	174.41	19.00	9.26	1.05	8.08	3.22	4.40	0.20	2.85	2.53	0.292	22.45	204.49
414.0	Pacific Grove	RCM	02/14/91	150.00	16.00	9.30	5.60	7.00	3.90	4.70	0.12	4.60	1.80	0.340	NA	260.00

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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
414.0	Pacific Grove	RCM	01/31/92	220.00	13.00	16.00	1.50	7.10	4.60	4.00	0.19	2.20	2.80	0.140	NA	270.00
414.0	Pacific Grove	RCM	02/12/93	440.00	19.00	12.00	3.50	7.30	3.90	6.50	0.23	4.60	3.00	0.360	NA	290.00
421.7	Monterey Harbor/Marina	TCM	01/22/88	191.01	NA	7.47	2.07	67.57	14.79	3.39	0.39	NA	NA	0.054	NA	531.65
421.7	Monterey Harbor/Marina	TCM	04/05/89	232.14	NA	7.50	2.57	144.86	12.93	5.79	1.07	NA	NA	0.293	NA	1113.57
423.1	Carmel Bay/New Control	RCM	05/25/92	52.00	15.00	12.00	1.60	4.70	1.10	3.40	0.29	1.60	2.60	0.140	NA	180.00
423.2	Carmel STP/Control	TCM	02/16/88	108.64	NA	5.38	1.67	5.71	2.66	4.47	0.19	NA	NA	0.158	NA	111.11
423.2	Carmel STP/Control	TCM	04/13/89	45.29	NA	14.76	0.76	9.00	1.18	4.59	0.24	NA	NA	0.253	NA	150.59
423.3	Carmel River	TCM	04/13/89	126.06	NA	10.31	0.88	8.69	1.31	5.06	0.34	NA	NA	0.637	NA	168.56
423.4	Carmel STP/10m North	RCM	02/16/88	217.05	NA	5.56	1.10	6.28	2.39	6.14	0.10	NA	NA	1.837	NA	114.15
423.4	Carmel STP/10m North	TCM	04/13/89	125.29	NA	10.41	1.18	8.18	1.35	5.88	0.24	NA	NA	0.582	NA	174.12
423.5	Carmel STP/30m South	TCM	02/01/91	330.00	9.70	9.80	1.30	7.90	1.20	6.30	0.09	1.50	2.30	0.040	NA	150.00
423.5	Carmel STP/30m South	TCM	05/14/92	300.00	11.00	11.00	0.92	7.90	1.10	6.10	0.16	1.30	4.20	0.170	NA	160.00
423.6	Carmel STP/10m South	TCM	01/22/88	392.72	NA	10.00	2.04	6.84	4.69	6.25	0.18	NA	NA	0.355	NA	146.17
423.6	Carmel STP/10m South	TCM	04/13/89	143.50	NA	9.72	0.94	8.11	1.94	5.89	0.25	NA	NA	0.567	NA	151.28
423.7	Carmel STP/100m South	TCM	02/01/91	300.00	9.10	11.00	1.20	9.10	1.30	5.00	0.10	1.50	2.20	0.050	NA	170.00
423.7	Carmel STP/100m South	TCM	05/14/92	340.00	11.00	11.00	0.99	8.00	1.30	6.30	0.16	1.50	3.90	0.180	NA	180.00
423.9	Carmel STP/300m South	TCM	02/01/91	220.00	10.00	8.90	1.00	6.60	1.20	4.60	0.12	1.40	2.10	0.130	NA	260.00
423.9	Carmel STP/300m South	TCM	05/14/92	310.00	12.00	11.00	0.94	6.80	1.50	5.90	0.14	1.40	4.40	0.210	NA	180.00
424.5	Granite Canyon/Control	TCM	09/21/88	15.00	NA	6.96	3.04	5.29	0.49	2.32	1.48	NA	NA	0.080	2.54	109.93
425.4	Lake San Antonio/Buoy	TFC	12/08/87	266.67	NA	16.86	0.85	27.45	2.28	99.57	0.10	NA	NA	0.263	NA	100.00
425.6	Lake San Antonio	RFC	10/28/87	315.02	NA	18.28	1.17	22.16	1.36	26.85	0.11	NA	NA	0.264	NA	105.13
425.6	Lake San Antonio	RFC	09/14/88	423.29	8.71	13.43	1.71	38.71	1.00	86.57	0.13	9.43	6.71	0.857	27.86	159.00
425.6	Lake San Antonio	RFC	08/15/89	387.53	NA	16.90	1.09	21.83	0.45	41.49	0.04	NA	7.33	0.113	NA	116.80
425.6	Lake San Antonio	TFC	05/25/92	560.00	6.90	12.00	13.00	110.00	0.34	60.00	0.13	3.40	5.60	0.310	NA	150.00
426.5	Cayucos Pier	TCM	09/24/87	277.26	9.30	5.16	2.70	22.21	1.88	7.45	0.08	3.60	NA	0.044	64.07	124.61
426.5	Cayucos Pier	TCM	12/14/87	414.08	11.60	4.31	3.79	19.81	2.33	9.03	0.16	3.73	NA	0.050	45.90	172.46
426.5	Cayucos Pier	TCM	09/25/88	132.21	9.71	4.33	1.33	8.67	0.21	5.92	0.10	2.83	NA	0.117	32.00	107.38
426.5	Cayucos Pier	TCM	12/20/88	225.85	10.65	3.55	2.45	9.10	0.70	7.65	0.13	3.15	NA	0.170	34.85	143.65
426.5	Cayucos Pier	TCM	02/28/89	305.71	9.52	4.67	2.86	6.71	0.86	8.19	0.15	4.33	NA	0.152	48.24	130.62
426.5	Cayucos Pier	TCM	09/27/89	218.57	8.93	7.27	1.76	6.48	0.12	5.35	0.08	3.56	NA	0.049	19.13	105.33
426.5	Cayucos Pier	TCM	12/12/89	133.11	10.17	6.15	1.72	6.19	0.78	6.14	0.13	2.54	NA	0.093	26.18	133.09
426.5	Cayucos Pier	TCM	03/05/90	442.22	11.67	6.62	3.31	7.31	1.33	10.72	0.17	5.46	NA	0.052	50.56	177.03
426.5	Cayucos Pier	TCM	09/03/90	260.00	NA	10.00	1.40	8.40	1.00	6.50	0.10	NA	NA	0.070	NA	120.00
426.5	Cayucos Pier	TCM	11/14/90	520.00	NA	5.10	2.50	7.30	0.79	9.20	0.15	NA	NA	0.080	NA	130.00
426.5	Cayucos Pier	TCM	02/25/91	530.00	10.00	3.80	39.00	8.00	1.00	18.00	0.14	NA	1.80	0.060	NA	160.00
428.0	Cayucos	RCM	09/24/87	259.65	NA	4.11	2.78	4.95	1.45	7.48	0.26	4.03	NA	0.035	26.28	144.21
428.0	Cayucos	RCM	03/14/88	301.50	NA	3.60	3.90	8.99	1.31	10.73	0.31	4.39	NA	0.045	38.26	185.77
428.0	Cayucos	RCM	09/25/88	246.85	NA	3.70	2.50	7.05	0.75	10.20	0.34	4.10	NA	0.175	12.80	128.65
428.0	Cayucos	RCM	02/28/89	288.26	NA	3.21	1.84	9.58	0.74	9.63	0.30	4.84	NA	0.026	17.37	148.95
428.0	Cayucos	RCM	09/27/89	394.28	NA	5.58	3.25	7.37	1.00	12.75	0.22	4.90	NA	0.032	51.24	134.34
428.0	Cayucos	RCM	03/05/90	513.81	NA	4.31	3.68	8.88	0.93	13.52	0.30	6.96	NA	0.022	34.66	181.25
428.0	Cayucos	RCM	09/03/90	580.00	NA	5.00	3.20	7.70	0.82	14.00	0.27	NA	NA	0.040	NA	190.00
428.0	Cayucos	RCM	02/25/91	1100.00	NA	3.20	50.00	10.00	1.00	25.00	0.24	NA	NA	0.040	NA	190.00

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* RCM = Resident California Mussel TFC = Transplanted Fresh Water Clam NA = Not Analyzed
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 RBM = Resident Bay Mussel SED = Sediment

APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
428.0	Cayucos	RCM	09/09/91	460.00	NA	2.80	1.90	6.10	0.53	8.90	0.17	NA	NA	0.030	NA	100.00
428.0	Cayucos	RCM	02/25/92	730.00	NA	3.00	3.00	7.60	0.70	14.00	0.21	NA	NA	0.021	NA	160.00
429.2	Morro Bay/Boat Works	RBM	03/14/88	523.37	NA	11.15	4.90	11.06	2.05	12.21	0.34	5.80	NA	0.003	63.36	205.92
429.2	Morro Bay/Boat Works	TCM	12/19/88	350.00	NA	6.47	2.79	12.74	1.53	8.58	0.26	NA	NA	0.021	NA	134.21
429.2	Morro Bay/Boat Works	TCM	02/02/90	547.03	NA	6.43	3.27	12.12	2.12	8.95	0.16	NA	NA	0.010	NA	167.41
429.2	Morro Bay/Boat Works	TCM	01/20/93	1400.00	NA	13.00	12.00	22.00	2.70	18.00	0.47	NA	NA	0.053	NA	270.00
430.0	Montana De Oro	RCM	09/24/87	128.75	10.90	5.94	2.19	8.04	1.18	4.60	0.10	2.76	NA	0.063	11.53	129.27
430.0	Montana De Oro	RCM	12/14/87	266.26	10.60	4.06	4.16	11.26	1.39	6.97	0.13	3.75	NA	0.077	11.95	146.95
430.0	Montana De Oro	RCM	03/14/88	207.04	10.10	4.35	3.24	6.54	1.45	5.26	0.15	2.89	NA	0.077	15.84	140.99
430.0	Montana De Oro	RCM	09/26/88	62.17	9.43	5.17	1.30	6.74	0.57	3.04	0.08	1.91	NA	0.048	7.43	115.52
430.0	Montana De Oro	RCM	12/20/88	82.71	8.90	5.14	1.81	8.33	0.76	3.05	0.09	2.10	NA	0.086	6.48	142.71
430.0	Montana De Oro	RCM	02/28/89	127.35	10.35	4.85	2.00	8.45	1.10	3.90	0.10	2.65	NA	0.105	14.45	148.85
430.0	Montana De Oro	RCM	09/27/89	93.79	10.00	8.92	1.32	6.10	0.03	4.06	0.09	1.93	NA	0.072	16.10	103.60
430.0	Montana De Oro	RCM	12/12/89	100.49	9.33	6.06	1.77	5.62	0.82	3.54	0.10	2.21	NA	0.078	14.85	132.06
430.0	Montana De Oro	RCM	03/05/90	226.51	9.63	6.55	2.62	5.94	0.92	5.24	0.11	2.98	NA	0.051	8.36	146.44
430.0	Montana De Oro	RCM	04/03/90	105.58	12.00	5.25	2.19	6.50	0.81	3.80	0.15	2.50	NA	0.036	5.24	194.67
430.0	Montana De Oro	RCM	09/03/90	210.00	8.30	6.60	1.30	6.10	0.65	4.10	0.08	NA	NA	0.070	NA	130.00
430.0	Montana De Oro	RCM	11/14/90	310.00	9.80	5.00	1.80	6.70	0.76	4.80	0.09	NA	0.93	0.090	NA	150.00
430.0	Montana De Oro	RCM	02/25/91	440.00	10.00	5.30	45.00	7.20	0.82	9.30	0.10	NA	1.30	0.080	NA	160.00
430.0	Montana De Oro	RCM	09/09/91	200.00	6.70	3.20	1.60	5.80	0.45	3.80	0.04	1.50	1.60	0.047	NA	91.00
430.0	Montana De Oro	RCM	12/03/91	340.00	7.40	4.80	2.00	7.30	0.55	5.10	0.06	NA	2.30	0.091	NA	110.00
430.0	Montana De Oro	RCM	02/25/92	94.00	7.50	6.00	0.85	6.60	0.53	4.40	0.05	NA	2.10	0.059	NA	93.00
430.2	Montana De Oro 1	TCM	11/14/90	320.00	9.60	5.80	1.80	6.60	0.68	4.80	0.10	NA	1.10	0.100	NA	160.00
430.2	Montana De Oro 1	TCM	09/10/91	220.00	7.10	4.20	1.40	5.30	0.59	3.60	0.06	NA	NA	0.082	NA	91.00
430.2	Montana De Oro 1	TCM	12/04/91	450.00	8.20	4.00	2.30	7.00	0.85	5.70	0.07	NA	2.50	0.079	NA	150.00
430.4	Montana De Oro 2	TCM	11/14/90	390.00	9.40	4.70	1.80	6.40	0.80	5.40	0.10	NA	1.10	0.110	NA	140.00
430.4	Montana De Oro 2	TCM	09/10/91	230.00	7.40	4.50	1.30	5.70	0.63	4.00	0.07	NA	NA	0.083	NA	100.00
431.0	Lion Rock	RCM	10/05/87	94.92	NA	11.37	1.88	6.36	2.02	4.21	0.56	1.57	NA	0.274	6.42	143.93
431.0	Lion Rock	RCM	03/15/88	330.69	NA	7.99	3.09	6.38	2.38	6.19	0.36	2.52	NA	0.291	25.64	179.10
431.0	Lion Rock	RCM	09/26/88	26.15	NA	10.45	1.30	8.45	0.95	2.55	0.24	1.15	NA	0.275	3.80	124.15
431.0	Lion Rock	RCM	03/01/89	112.78	NA	7.11	1.50	7.44	0.78	3.44	0.31	1.78	NA	0.172	7.50	154.83
431.0	Lion Rock	RCM	09/28/89	86.04	NA	11.39	1.35	4.72	0.39	3.14	0.22	1.32	NA	0.185	9.32	110.94
431.0	Lion Rock	RCM	03/06/90	161.29	NA	8.01	1.63	6.87	0.87	4.87	0.12	2.25	NA	0.166	25.13	201.30
432.0	Pup Rock	RCM	10/05/87	72.65	NA	10.30	1.98	5.98	1.92	4.06	1.68	1.81	NA	0.384	5.64	152.56
432.0	Pup Rock	RCM	03/15/88	253.85	NA	7.77	4.90	5.77	2.05	5.92	0.31	2.71	NA	0.228	13.00	193.08
432.0	Pup Rock	RCM	09/26/88	34.81	NA	11.56	1.63	6.75	0.25	2.50	0.21	1.44	NA	0.400	12.25	133.75
432.0	Pup Rock	RCM	03/01/89	57.78	NA	7.50	1.11	9.00	1.00	2.67	0.72	1.28	NA	0.500	5.94	209.61
432.0	Pup Rock	RCM	09/28/89	60.98	NA	13.68	1.61	5.84	0.97	3.12	0.13	1.72	NA	0.353	4.77	170.74
432.0	Pup Rock	RCM	03/06/90	112.89	NA	8.56	1.74	5.80	0.48	3.76	0.21	1.63	NA	0.131	6.12	190.42
433.0	Diablo Cove/North	RCM	09/25/87	137.59	12.20	7.44	2.13	4.92	1.26	5.00	0.34	1.36	NA	0.298	6.06	102.33
433.0	Diablo Cove/North	RCM	03/15/88	421.65	12.50	6.24	4.12	8.32	1.49	7.04	0.14	3.86	NA	0.251	59.32	208.26

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 SED = Sediment

NA = Not Analyzed
 ND = Not Detected

APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
433.0	Diablo Cove/North	RCM	09/26/88	31.50	9.41	8.86	0.68	8.59	0.50	3.05	0.05	1.18	NA	0.105	5.86	94.86
433.0	Diablo Cove/North	RCM	03/01/89	143.85	13.85	7.54	1.77	7.77	1.62	4.00	0.33	2.69	NA	0.223	20.69	230.23
433.0	Diablo Cove/North	RCM	09/28/89	70.17	10.83	13.58	1.80	4.82	1.19	3.86	0.33	2.81	NA	0.334	36.51	186.07
433.0	Diablo Cove/North	RCM	03/06/90	180.20	14.00	10.13	2.04	5.01	1.66	4.61	0.33	2.91	NA	0.234	28.80	284.09
433.0	Diablo Cove/North	RCM	09/04/90	120.00	NA	16.00	1.50	8.10	1.40	3.80	0.32	NA	NA	0.450	NA	230.00
433.0	Diablo Cove/North	RCM	02/26/91	620.00	NA	12.00	6.60	9.80	1.80	7.80	0.34	NA	NA	0.430	NA	290.00
433.0	Diablo Cove/North	RCM	09/09/91	130.00	NA	14.00	1.50	6.40	1.40	4.30	0.21	NA	NA	0.250	NA	210.00
433.0	Diablo Cove/North	RCM	02/26/92	690.00	NA	6.30	2.70	7.40	1.10	9.20	0.19	NA	NA	0.210	NA	200.00
434.0	Diablo Cove/South	RCM	09/25/87	145.57	11.60	7.41	2.03	6.27	1.78	4.20	0.08	2.54	NA	0.230	31.83	157.17
434.0	Diablo Cove/South	RCM	03/15/88	251.80	10.30	9.52	3.97	6.45	1.40	5.20	0.19	3.08	NA	0.410	38.85	196.16
434.0	Diablo Cove/South	RCM	09/26/88	39.84	10.16	10.16	1.21	7.42	0.84	2.63	0.16	1.84	NA	0.195	8.32	130.16
434.0	Diablo Cove/South	RCM	03/01/89	57.69	12.85	12.62	1.92	7.77	1.31	3.00	0.28	2.69	NA	0.223	9.77	213.62
434.0	Diablo Cove/South	RCM	09/28/89	133.97	10.13	13.38	1.72	6.07	1.14	3.23	0.16	1.98	NA	0.326	71.82	130.26
434.0	Diablo Cove/South	RCM	03/06/90	157.70	11.67	10.03	2.15	5.42	1.40	3.71	0.22	2.22	NA	0.167	26.85	198.90
434.0	Diablo Cove/South	RCM	09/04/90	59.00	12.00	12.00	1.40	6.30	1.10	3.00	0.16	NA	NA	0.200	NA	170.00
434.0	Diablo Cove/South	RCM	02/26/91	370.00	11.00	12.00	8.50	7.40	1.20	5.30	0.19	NA	NA	0.210	NA	200.00
434.0	Diablo Cove/South	RCM	09/09/91	130.00	9.70	13.00	1.70	6.40	1.20	3.60	0.12	NA	NA	0.180	NA	160.00
434.0	Diablo Cove/South	RCM	02/26/92	640.00	6.50	6.60	2.70	6.80	1.10	7.10	0.24	NA	2.90	0.220	NA	160.00
435.0	Intake Cove	RCM	09/25/87	153.37	9.40	9.00	2.01	5.24	0.91	5.42	0.05	2.54	NA	0.268	23.31	119.63
435.0	Intake Cove	RCM	03/15/88	272.73	8.90	7.76	2.39	5.31	2.35	6.01	0.08	4.03	NA	0.406	36.36	164.11
435.0	Intake Cove	RCM	09/26/88	31.74	10.16	12.58	1.05	6.53	0.95	2.68	0.11	1.68	NA	0.268	2.37	116.68
435.0	Intake Cove	RCM	03/01/89	107.50	10.00	8.31	1.63	7.38	1.06	3.75	0.13	1.81	NA	0.313	5.63	143.13
435.0	Intake Cove	RCM	09/28/89	97.88	10.67	16.27	1.17	6.01	0.77	3.59	0.08	1.62	NA	0.235	2.03	110.08
435.0	Intake Cove	RCM	03/06/90	349.68	10.33	8.26	1.91	5.65	0.98	4.85	0.11	2.09	NA	0.105	6.85	137.90
435.0	Intake Cove	RCM	09/04/90	64.00	NA	14.00	1.00	6.00	0.77	3.60	0.11	NA	NA	0.160	NA	130.00
435.0	Intake Cove	RCM	02/26/91	480.00	NA	10.00	17.00	7.30	0.95	6.20	0.14	NA	NA	0.210	NA	170.00
435.0	Intake Cove	RCM	09/09/91	90.00	NA	14.00	1.10	6.40	1.10	3.70	0.12	NA	NA	0.190	NA	140.00
435.0	Intake Cove	RCM	02/26/92	560.00	NA	7.20	2.00	7.00	1.10	7.10	0.09	NA	NA	0.180	NA	140.00
436.0	Pecho Rock	RCM	10/05/87	101.55	NA	8.01	2.38	5.56	2.04	4.86	0.22	3.66	NA	0.424	16.23	179.91
436.0	Pecho Rock	RCM	03/15/88	232.84	NA	7.75	2.88	5.71	1.21	5.69	0.40	3.57	NA	0.373	38.90	154.66
436.0	Pecho Rock	RCM	09/26/88	21.30	NA	7.83	0.70	7.09	0.70	2.52	0.37	0.91	NA	0.257	2.13	121.87
436.0	Pecho Rock	RCM	03/01/89	100.65	NA	5.70	0.90	8.80	0.70	3.80	0.39	1.65	NA	0.280	8.95	164.65
436.0	Pecho Rock	RCM	09/28/89	63.81	NA	13.90	0.86	6.65	0.45	3.42	0.18	1.34	NA	0.171	3.70	109.29
436.0	Pecho Rock	RCM	03/06/90	254.95	NA	6.73	1.59	7.02	0.92	5.15	0.49	1.87	NA	0.134	5.49	169.54
437.0	Point San Luis	RCM	09/24/87	121.95	NA	6.16	2.14	4.86	1.21	5.91	0.16	2.84	NA	0.283	22.07	138.62
437.0	Point San Luis	RCM	03/14/88	269.84	NA	4.63	2.67	5.92	1.06	6.12	0.17	3.09	NA	0.207	51.16	143.31
437.0	Point San Luis	RCM	09/25/88	96.83	NA	6.89	1.89	6.17	1.11	4.83	0.31	2.78	NA	0.539	4.33	161.67
437.0	Point San Luis	RCM	02/28/89	111.25	NA	5.31	1.69	8.19	1.38	5.31	0.29	3.38	NA	0.194	25.50	176.44
437.0	Point San Luis	RCM	09/27/89	55.94	NA	9.82	1.87	4.72	1.47	3.93	0.15	2.29	NA	0.325	4.90	161.55
437.0	Point San Luis	RCM	03/05/90	266.21	NA	6.55	2.02	6.37	2.06	5.93	0.16	3.17	NA	0.211	3.61	164.86
437.0	Point San Luis	RCM	09/03/90	130.00	NA	8.00	1.40	6.70	1.00	4.10	0.21	NA	NA	0.210	NA	170.00
437.0	Point San Luis	RCM	02/25/91	480.00	NA	7.80	11.00	8.60	1.70	6.90	0.25	NA	NA	0.220	NA	250.00

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
437.0	Point San Luis	RCM	09/09/91	180.00	NA	6.70	1.40	5.70	1.20	4.60	0.22	NA	NA	0.097	NA	170.00
437.0	Point San Luis	RCM	02/26/92	740.00	NA	7.10	2.70	7.10	1.40	9.50	0.25	NA	NA	0.170	NA	180.00
438.0	Avila	RCM	09/24/87	189.72	NA	7.25	1.63	6.54	1.10	6.19	0.06	2.37	NA	0.147	30.58	121.63
438.0	Avila	RCM	03/14/88	473.19	NA	5.45	3.06	7.04	1.73	6.90	0.26	3.94	NA	0.382	26.01	148.72
438.0	Avila	RCM	09/25/88	95.44	NA	5.56	1.63	7.75	1.81	5.25	0.27	2.38	NA	0.463	5.06	162.69
438.0	Avila	RCM	02/28/89	138.00	NA	5.07	1.73	7.00	2.40	5.40	0.38	3.67	NA	0.527	18.80	165.53
438.0	Avila	RCM	09/27/89	28.52	NA	8.12	1.10	4.81	1.17	4.52	0.22	2.04	NA	0.464	8.28	125.30
438.0	Avila	RCM	03/05/90	202.97	NA	6.20	1.97	6.56	2.76	5.73	0.35	2.75	NA	0.818	2.03	179.93
438.0	Avila	RCM	09/03/90	190.00	NA	8.40	1.50	5.90	1.80	4.90	0.20	NA	NA	0.410	NA	150.00
438.0	Avila	RCM	02/25/91	650.00	NA	9.40	4.60	9.40	3.50	8.90	0.30	NA	NA	1.600	NA	210.00
438.0	Avila	RCM	09/09/91	190.00	NA	4.70	1.00	5.40	1.30	4.10	0.12	NA	NA	0.230	NA	130.00
438.0	Avila	RCM	02/25/92	640.00	NA	4.40	2.40	7.60	1.50	10.00	0.21	NA	NA	0.230	NA	120.00
440.0	Lion Rock/Transplant	TCM	09/25/87	153.97	9.00	5.89	1.56	5.83	0.54	4.32	0.06	1.73	NA	0.126	29.71	97.14
440.0	Lion Rock/Transplant	TCM	12/15/87	447.92	10.80	3.50	3.05	6.27	0.62	7.33	0.11	3.60	NA	0.154	49.06	119.58
440.0	Lion Rock/Transplant	TCM	09/26/88	62.08	8.63	8.75	0.79	5.38	0.25	3.17	0.07	1.50	NA	0.108	20.83	98.04
440.0	Lion Rock/Transplant	TCM	12/20/88	86.47	10.00	3.79	1.11	6.95	0.68	3.74	0.12	1.68	NA	0.111	9.05	116.16
440.0	Lion Rock/Transplant	TCM	03/01/89	103.35	12.76	4.76	1.47	8.47	0.71	4.47	0.14	2.06	NA	0.124	2.47	155.47
440.0	Lion Rock/Transplant	TCM	09/28/89	72.14	9.03	12.33	0.90	5.96	0.68	2.74	0.09	0.95	NA	0.154	8.02	78.01
440.0	Lion Rock/Transplant	TCM	12/13/89	62.47	12.00	6.66	1.00	5.56	1.01	2.79	0.12	0.90	NA	0.137	1.52	111.53
440.0	Lion Rock/Transplant	TCM	03/06/90	255.37	12.67	6.47	2.15	6.09	1.30	5.77	0.16	2.93	NA	0.071	6.53	196.29
440.0	Lion Rock/Transplant	TCM	09/04/90	120.00	NA	12.00	1.00	7.00	0.99	3.60	0.07	NA	NA	0.160	NA	120.00
440.0	Lion Rock/Transplant	TCM	11/15/90	250.00	NA	5.30	1.30	6.30	0.75	4.70	0.08	NA	NA	0.100	NA	130.00
440.0	Lion Rock/Transplant	TCM	02/26/91	410.00	NA	5.20	15.00	6.80	0.94	7.10	0.12	NA	NA	0.100	NA	170.00
440.0	Lion Rock/Transplant	TCM	09/10/91	130.00	NA	6.10	0.69	6.20	0.50	3.30	0.06	NA	NA	0.130	NA	95.00
440.0	Lion Rock/Transplant	TCM	12/04/91	360.00	NA	3.20	1.50	6.40	0.65	5.40	0.08	NA	NA	0.130	NA	110.00
440.0	Lion Rock/Transplant	TCM	02/26/92	790.00	NA	5.80	3.00	6.60	0.92	9.90	0.13	NA	NA	0.170	NA	160.00
441.0	Lion/Diablo/Transplant	TCM	10/05/87	164.27	NA	5.33	1.51	6.19	0.59	4.96	0.07	1.82	NA	0.127	16.99	91.55
441.0	Lion/Diablo/Transplant	TCM	12/15/87	549.26	NA	3.42	3.33	6.18	0.49	8.01	0.11	3.77	NA	0.119	35.72	116.98
441.0	Lion/Diablo/Transplant	TCM	03/15/88	553.96	NA	5.63	3.39	6.67	1.28	8.32	0.09	5.17	NA	0.168	52.16	158.75
441.0	Lion/Diablo/Transplant	TCM	12/20/88	59.28	NA	4.22	1.11	8.00	0.56	3.61	0.12	1.83	NA	0.100	2.00	135.17
441.0	Lion/Diablo/Transplant	TCM	03/01/89	164.06	NA	5.67	1.61	7.33	1.00	4.78	0.17	3.33	NA	0.139	9.56	183.89
441.0	Lion/Diablo/Transplant	TCM	09/28/89	79.92	NA	7.51	0.88	5.39	0.35	2.81	0.11	0.83	NA	0.159	3.50	83.61
441.0	Lion/Diablo/Transplant	TCM	12/13/89	45.62	NA	5.54	1.03	4.94	0.73	2.56	0.12	0.93	NA	0.117	0.02	103.23
441.0	Lion/Diablo/Transplant	TCM	03/06/90	261.16	NA	5.81	2.32	5.69	1.54	5.02	0.17	2.26	NA	0.089	5.05	187.32
441.0	Lion/Diablo/Transplant	TCM	09/04/90	150.00	NA	10.00	1.20	6.40	0.78	3.50	0.07	NA	NA	0.160	NA	100.00
441.0	Lion/Diablo/Transplant	TCM	11/15/90	270.00	NA	5.20	1.40	6.10	0.74	5.10	0.07	NA	NA	0.110	NA	130.00
441.0	Lion/Diablo/Transplant	TCM	02/26/91	440.00	NA	5.20	5.70	6.90	1.10	6.30	0.12	NA	NA	0.130	NA	180.00
441.0	Lion/Diablo/Transplant	TCM	09/10/91	130.00	NA	5.90	0.98	6.50	0.51	3.70	0.06	NA	NA	0.150	NA	86.00
441.0	Lion/Diablo/Transplant	TCM	12/04/91	360.00	NA	4.40	1.50	6.30	0.75	5.40	0.09	NA	NA	0.110	NA	130.00
441.0	Lion/Diablo/Transplant	TCM	02/26/92	840.00	NA	4.40	2.80	6.80	0.94	10.00	0.12	NA	NA	0.150	NA	140.00
442.0	Diablo Cove/North/Transplant	TCM	10/05/87	115.00	8.80	4.25	1.51	5.47	0.52	4.63	0.08	2.21	NA	0.083	15.35	102.50
442.0	Diablo Cove/North/Transplant	TCM	12/15/87	454.34	10.50	4.86	3.10	6.03	1.14	8.18	0.09	5.31	NA	0.112	51.85	134.25

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
442.0	Diablo Cove/North/Transplant	TCM	03/15/88	383.77	10.10	5.31	3.21	5.29	0.76	7.59	0.11	3.31	NA	0.169	73.62	139.03
442.0	Diablo Cove/North/Transplant	TCM	09/26/88	50.19	10.81	10.25	2.13	6.38	1.38	3.63	0.34	2.94	NA	0.569	9.13	203.75
442.0	Diablo Cove/North/Transplant	TCM	12/20/88	97.31	11.69	4.88	1.31	8.63	0.75	4.19	0.11	2.13	NA	0.063	13.44	134.19
442.0	Diablo Cove/North/Transplant	TCM	03/01/89	125.47	11.00	5.41	1.65	7.41	0.71	4.29	0.16	2.59	NA	0.106	5.59	139.24
442.0	Diablo Cove/North/Transplant	TCM	09/28/89	100.70	9.13	13.32	1.11	5.62	0.65	3.31	0.09	1.17	NA	0.144	1.32	85.34
442.0	Diablo Cove/North/Transplant	TCM	12/13/89	76.05	10.67	5.63	1.14	4.88	0.88	2.71	0.13	1.00	NA	0.189	0.68	102.40
442.0	Diablo Cove/North/Transplant	TCM	03/06/90	268.76	13.33	6.93	2.28	6.14	1.56	5.66	0.18	2.63	NA	0.051	3.36	201.11
442.0	Diablo Cove/North/Transplant	TCM	09/04/90	82.00	NA	11.00	1.10	5.90	0.93	3.20	0.08	NA	NA	0.120	NA	120.00
442.0	Diablo Cove/North/Transplant	TCM	11/15/90	330.00	NA	4.60	1.30	6.00	0.70	5.10	0.07	NA	NA	0.140	NA	130.00
442.0	Diablo Cove/North/Transplant	TCM	02/26/91	850.00	NA	7.20	9.50	8.20	1.50	9.10	0.11	NA	NA	0.160	NA	230.00
442.0	Diablo Cove/North/Transplant	TCM	09/10/91	120.00	NA	6.00	0.91	6.40	0.59	3.70	0.05	NA	NA	0.096	NA	99.00
442.1	Diablo Cove/N/Transplant/Shallow	TCM	02/26/91	700.00	NA	6.60	11.00	7.80	1.30	8.20	0.14	NA	NA	0.100	NA	230.00
442.1	Diablo Cove/N/Transplant/Shallow	TCM	09/10/91	95.00	NA	6.10	0.85	6.50	0.54	3.50	0.07	NA	NA	0.082	NA	110.00
443.0	Diablo Cove/South/Transplant	TCM	10/05/87	163.93	11.30	5.36	1.69	4.59	1.83	5.19	0.24	2.57	NA	0.428	40.44	116.57
443.0	Diablo Cove/South/Transplant	TCM	12/15/87	490.20	10.00	4.75	3.31	6.41	1.41	8.69	0.11	4.52	NA	0.100	94.90	135.95
443.0	Diablo Cove/South/Transplant	TCM	09/26/88	42.52	10.48	12.29	0.90	8.29	0.38	3.19	0.09	2.10	NA	0.081	2.90	105.86
443.0	Diablo Cove/South/Transplant	TCM	03/01/89	197.94	11.28	6.06	2.06	9.67	0.61	5.22	0.14	3.11	NA	0.089	23.44	136.50
443.0	Diablo Cove/South/Transplant	TCM	09/28/89	147.33	9.03	10.71	1.12	5.46	0.10	3.63	0.08	1.02	NA	0.139	2.53	76.41
443.0	Diablo Cove/South/Transplant	TCM	12/13/89	73.46	11.33	6.87	1.12	4.93	0.74	3.48	0.14	1.04	NA	0.165	1.23	114.28
443.0	Diablo Cove/South/Transplant	TCM	03/06/90	294.55	11.67	6.66	2.32	5.88	1.52	5.72	0.16	2.32	NA	0.058	3.06	205.62
443.0	Diablo Cove/South/Transplant	TCM	11/15/90	290.00	NA	5.20	1.40	6.40	0.87	4.70	0.08	NA	NA	0.110	NA	140.00
443.0	Diablo Cove/South/Transplant	TCM	02/26/91	590.00	12.00	4.90	26.00	7.60	1.10	9.10	0.10	NA	NA	0.110	NA	190.00
443.0	Diablo Cove/South/Transplant	TCM	09/10/91	110.00	7.60	6.60	0.69	6.30	0.55	3.60	0.05	NA	NA	0.110	NA	81.00
443.0	Diablo Cove/South/Transplant	TCM	12/04/91	430.00	NA	4.90	1.60	6.30	0.73	5.90	0.11	NA	NA	0.140	NA	110.00
443.0	Diablo Cove/South/Transplant	TCM	02/26/92	970.00	8.70	3.50	3.00	6.90	1.10	12.00	0.13	NA	3.10	0.120	NA	160.00
443.1	Diablo Cove/S/Transplant/Shallow	TCM	02/26/91	510.00	11.00	5.40	15.00	6.70	1.10	6.30	0.12	NA	NA	0.070	NA	210.00
443.1	Diablo Cove/S/Transplant/Shallow	TCM	09/10/91	120.00	8.30	6.50	0.88	7.00	0.56	3.50	0.08	NA	NA	0.080	NA	110.00
444.0	Intake Cove/Transplant	TCM	09/25/87	132.37	10.30	3.40	1.33	4.44	0.66	2.86	0.07	2.14	NA	0.088	19.43	117.54
444.0	Intake Cove/Transplant	TCM	12/15/87	377.01	10.30	4.05	2.37	5.36	0.87	4.62	0.07	3.10	NA	0.076	22.69	146.21
444.0	Intake Cove/Transplant	TCM	03/15/88	309.18	11.80	4.23	2.69	5.77	1.52	3.81	0.12	3.02	NA	0.097	15.44	184.06
444.0	Intake Cove/Transplant	TCM	09/26/88	83.00	9.52	4.57	1.00	8.00	3.00	3.43	0.13	1.24	NA	0.067	2.71	146.81
444.0	Intake Cove/Transplant	TCM	12/20/88	88.06	10.18	3.53	1.41	8.82	0.65	4.12	0.15	NA	NA	0.065	5.47	138.82
444.0	Intake Cove/Transplant	TCM	03/01/89	156.88	13.13	5.88	2.13	9.38	0.88	5.00	0.19	2.50	NA	0.081	8.38	211.06
444.0	Intake Cove/Transplant	TCM	09/28/89	113.61	9.60	5.50	1.04	5.35	0.53	3.52	0.13	0.90	NA	0.097	1.33	106.09
444.0	Intake Cove/Transplant	TCM	12/13/89	130.07	10.20	6.33	1.37	6.11	0.94	3.66	0.15	1.13	NA	0.104	0.05	124.07
444.0	Intake Cove/Transplant	TCM	03/06/90	182.99	13.00	5.38	2.19	6.84	1.36	4.80	0.19	1.94	NA	0.154	0.13	209.39
444.0	Intake Cove/Transplant	TCM	09/04/90	110.00	10.00	6.20	1.40	7.00	0.71	3.80	0.09	NA	NA	0.130	NA	150.00
444.0	Intake Cove/Transplant	TCM	02/26/91	850.00	14.00	6.30	5.80	11.00	1.70	8.50	0.13	NA	NA	0.130	NA	240.00
444.0	Intake Cove/Transplant	TCM	09/10/91	190.00	8.60	4.40	1.20	7.10	0.75	3.70	0.09	NA	NA	0.150	NA	110.00
444.0	Intake Cove/Transplant	TCM	12/04/91	270.00	NA	3.20	1.30	6.80	0.79	4.30	0.09	NA	NA	0.170	NA	130.00
444.0	Intake Cove/Transplant	TCM	02/26/92	620.00	9.90	3.40	2.30	7.90	0.97	8.10	0.15	NA	2.80	0.091	NA	160.00
445.0	San Luis Harbor/Transplant	TCM	09/25/87	67.22	8.10	4.79	0.67	5.86	0.58	2.83	0.05	2.69	NA	0.111	14.16	99.31

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
445.0	San Luis Harbor/Transplant	TCM	12/15/87	476.47	NA	3.57	2.66	8.94	1.30	7.24	0.13	2.13	NA	0.078	44.41	120.59
445.0	San Luis Harbor/Transplant	TCM	03/15/88	387.79	9.10	2.81	2.33	6.81	2.11	5.63	0.11	2.41	NA	0.087	31.98	116.17
445.0	San Luis Harbor/Transplant	TCM	09/26/88	88.50	11.35	6.55	1.55	8.40	0.35	3.80	0.09	2.60	NA	0.085	5.20	135.15
445.0	San Luis Harbor/Transplant	TCM	12/20/88	174.71	10.59	4.35	1.65	9.53	0.88	5.35	0.16	2.18	NA	0.094	6.00	116.06
445.0	San Luis Harbor/Transplant	TCM	03/01/89	44.58	11.38	2.54	0.96	7.50	0.54	4.92	0.13	1.83	NA	0.058	1.88	105.54
445.0	San Luis Harbor/Transplant	TCM	09/28/89	71.42	8.77	6.99	1.00	5.90	0.85	3.52	0.12	0.95	NA	0.098	2.67	104.18
445.0	San Luis Harbor/Transplant	TCM	12/13/89	226.84	10.67	5.94	1.56	6.53	0.91	5.86	0.15	1.54	NA	0.090	8.56	105.23
445.0	San Luis Harbor/Transplant	TCM	03/06/90	367.59	11.67	3.85	2.05	6.02	1.43	6.69	0.29	2.25	NA	0.040	13.93	141.09
445.0	San Luis Harbor/Transplant	TCM	09/04/90	260.00	8.30	7.50	1.00	8.40	0.73	4.30	0.08	NA	NA	0.080	NA	110.00
445.0	San Luis Harbor/Transplant	TCM	11/14/90	410.00	NA	3.90	1.60	8.40	0.79	6.10	0.11	NA	NA	0.060	NA	110.00
445.0	San Luis Harbor/Transplant	TCM	02/25/91	470.00	12.00	3.80	11.00	9.70	1.10	8.10	0.17	NA	NA	0.070	NA	170.00
445.0	San Luis Harbor/Transplant	TCM	09/09/91	310.00	7.20	3.70	1.20	7.60	0.89	5.10	0.07	NA	NA	0.090	NA	92.00
445.0	San Luis Harbor/Transplant	TCM	02/25/92	670.00	7.00	2.70	2.40	9.10	1.40	9.40	0.16	NA	2.80	0.055	NA	140.00
446.0	San Luis Obispo Creek 1	TFC	02/26/91	890.00	NA	4.50	22.00	92.00	2.20	37.00	0.41	NA	NA	0.070	NA	210.00
446.1	San Luis Obispo/Creek 2	SED	02/25/92	9000.00	NA	0.50	640.00	50.00	10.00	830.00	0.09	NA	NA	0.230	NA	110.00
446.1	San Luis Obispo/Creek 2	TFC	04/09/92	1100.00	NA	4.00	19.00	120.00	0.40	65.00	0.29	NA	NA	0.230	NA	120.00
446.2	San Luis Obispo Creek 3	SED	11/14/90	47000.00	NA	2.10	540.00	38.00	29.00	560.00	0.12	NA	NA	2.100	NA	110.00
446.2	San Luis Obispo Creek 3	SED	02/25/92	43000.00	NA	0.70	570.00	24.00	14.00	490.00	0.05	NA	NA	0.240	NA	70.00
446.4	San Luis Obispo/Creek 4	SED	02/25/92	40000.00	NA	0.80	450.00	17.00	14.00	300.00	0.05	NA	NA	0.350	NA	65.00
450.0	Point Conception	RCM	03/20/89	116.06	NA	7.75	1.56	10.88	1.19	5.63	0.28	NA	NA	1.200	NA	259.38
450.0	Point Conception	RCM	12/22/89	86.26	NA	5.23	1.49	5.65	1.20	3.29	0.17	NA	NA	0.222	NA	135.38
450.0	Point Conception	RCM	01/04/91	340.00	NA	5.70	4.80	8.60	1.40	5.20	0.21	NA	NA	0.550	NA	220.00
455.0	Gaviota	RCM	01/26/88	180.72	NA	3.51	2.18	9.30	0.90	6.37	0.08	NA	NA	0.667	NA	127.51
455.0	Gaviota	TCM	03/21/89	61.11	NA	10.89	0.94	9.00	0.78	4.33	0.11	NA	NA	0.278	NA	137.78
455.0	Gaviota	RCM	12/22/89	139.23	NA	3.01	1.65	6.08	0.78	5.23	0.11	NA	NA	0.384	NA	156.37
460.0	Goleta Slough 1	TCM	12/18/88	43.36	NA	3.82	0.82	10.91	1.55	12.82	0.16	NA	NA	0.036	NA	230.00
460.0	Goleta Slough 1	SED	09/03/89	16000.00	NA	1.40	49.39	28.35	38.10	252.50	0.07	NA	NA	0.049	NA	102.77
460.0	Goleta Slough 1	SED	11/13/90	73000.00	NA	2.00	110.00	7.20	20.00	180.00	ND	NA	NA	0.080	NA	33.00
460.1	Goleta Slough 2	SED	09/03/89	18902.00	NA	1.16	55.40	27.53	34.40	213.24	0.10	NA	NA	0.037	NA	95.32
460.1	Goleta Slough 2	SED	11/13/90	61000.00	NA	1.80	220.00	11.00	19.00	240.00	ND	NA	NA	0.100	NA	45.00
460.2	Goleta Slough 3	SED	11/13/90	70000.00	NA	2.10	130.00	10.00	18.00	200.00	ND	NA	NA	0.120	NA	31.00
460.3	Goleta Slough 4	SED	11/13/90	58000.00	NA	1.80	110.00	20.00	21.00	210.00	0.03	NA	NA	0.130	NA	64.00
470.0	Santa Barbara Harbor	TCM	01/26/88	220.24	NA	6.83	2.39	103.63	15.18	7.42	0.35	NA	NA	0.067	NA	512.70
470.0	Santa Barbara Harbor	TCM	12/18/88	253.17	NA	9.11	2.22	116.11	5.72	15.11	0.44	NA	NA	0.094	NA	482.61
471.0	Mission Creek	SED	11/13/90	49000.00	NA	1.60	75.00	3.90	16.00	120.00	ND	NA	NA	0.050	NA	19.00
472.0	Waste Slough/Laguna Drainage	SED	11/13/90	53000.00	NA	1.80	130.00	4.40	18.00	220.00	ND	NA	NA	0.070	NA	33.00
480.0	Lake Isabella	RFC	02/09/93	450.00	17.00	0.61	13.00	58.00	0.20	45.00	0.17	10.50	2.20	0.120	NA	130.00
485.0	Ventura Marina	TCM	01/25/88	313.60	NA	7.08	2.22	117.85	6.73	23.82	0.29	NA	NA	0.061	NA	528.51
506.1	Port Hueneme/Wharf B	TCM	01/25/88	579.52	NA	6.56	2.88	117.30	8.65	12.55	0.30	NA	NA	0.076	NA	537.26
506.2	Port Hueneme/Wharf 1	TCM	01/25/88	450.98	NA	3.28	1.33	15.54	4.32	22.75	0.19	NA	NA	0.022	NA	400.73
506.3	Port Hueneme/Entrance	TCM	01/25/88	460.65	NA	5.35	2.08	20.14	6.40	14.12	0.20	NA	NA	0.030	NA	318.98
507.3	Mugu Lagoon/Calleguas Creek	TCM	12/18/88	309.59	NA	6.12	1.47	10.24	1.18	20.59	0.18	NA	NA	0.176	NA	147.06

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* RCM = Resident California Mussel
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NA = Not Analyzed
ND = Not Detected

APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
553.0	Marina Del Rey/Entrance	TCM	12/19/88	206.67	NA	3.24	1.43	14.29	15.29	7.05	0.12	NA	NA	0.857	NA	155.71
554.0	Marina Del Rey/Harbor Patrol Docks	TCM	01/25/88	360.84	NA	6.94	2.12	58.24	47.54	19.72	0.24	NA	NA	0.413	NA	689.16
554.0	Marina Del Rey/Harbor Patrol Docks	TCM	12/19/88	240.41	NA	4.65	1.53	61.82	29.00	14.41	0.27	NA	NA	0.418	NA	434.29
555.0	Marina Del Rey/Basin G	TCM	01/25/88	401.46	NA	11.61	3.80	214.74	41.00	43.99	0.26	NA	NA	0.788	NA	1097.81
555.0	Marina Del Rey/Basin G	TCM	12/19/88	223.57	NA	7.79	2.21	118.86	22.29	21.00	0.34	NA	NA	0.429	NA	630.21
555.2	Marina Del Rey/Basin D	TCM	01/25/88	367.74	NA	11.94	3.66	187.59	33.18	29.83	0.37	NA	NA	0.703	NA	1147.74
556.0	Marina Del Rey/Basin E	TCM	01/25/88	755.40	NA	11.34	3.94	99.64	43.17	34.94	0.29	NA	NA	0.417	NA	889.93
556.0	Marina Del Rey/Basin E	TCM	12/19/88	284.79	NA	7.14	2.00	97.36	9.86	24.57	0.27	NA	NA	0.250	NA	500.71
557.0	Marina Del Rey/Ballona Creek	RBM	01/25/88	556.78	NA	3.34	5.87	12.12	13.38	18.54	0.25	NA	NA	0.505	NA	270.33
559.0	King Harbor	TCM	12/28/87	160.42	NA	9.81	3.33	172.11	30.90	6.92	0.46	NA	NA	0.221	NA	682.29
601.0	LA Harbor/National Steel	TCM	12/28/87	240.74	NA	9.16	3.68	26.24	24.02	19.50	0.13	NA	NA	0.090	NA	454.50
601.0	LA Harbor/National Steel	TCM	12/19/88	254.19	NA	7.50	2.13	26.63	13.69	22.19	0.26	NA	NA	0.050	NA	342.94
601.0	La Harbor/National Steel	SED	08/29/91	26000.00	NA	2.20	120.00	34.00	120.00	630.00	0.68	NA	NA	0.470	NA	460.00
601.0	La Harbor/National Steel	TCM	12/22/91	350.00	NA	9.00	1.70	19.00	8.20	17.00	0.15	NA	NA	0.065	NA	330.00
601.0	LA Harbor/National Steel	SED	09/10/92	41000.00	NA	0.89	91.00	89.00	130.00	580.00	0.29	NA	NA	0.270	NA	270.00
601.0	LA Harbor/National Steel	RBM	01/06/93	670.00	NA	2.70	7.10	28.00	11.00	19.00	0.27	NA	NA	0.094	NA	410.00
602.0	LA Harbor/West Basin	TCM	12/28/87	300.25	NA	6.67	2.86	35.57	11.58	26.69	0.13	NA	NA	0.061	NA	394.40
602.5	LA Harbor/Todd Shipyards	TCM	12/28/87	210.42	NA	8.33	3.17	40.29	19.38	42.81	0.20	NA	NA	0.098	NA	496.25
602.5	LA Harbor/Todd Shipyards	TCM	12/19/88	252.00	NA	6.27	2.07	48.47	8.80	34.00	0.23	NA	NA	0.087	NA	383.53
602.6	LA Harbor/Berth 50	TCM	12/22/89	311.07	NA	4.52	1.92	211.39	4.14	9.86	0.17	NA	NA	0.177	NA	390.57
602.7	LA Harbor/Pacific Ave/Storm Drain	TCM	12/28/87	170.54	NA	7.67	2.58	33.16	17.36	23.70	0.14	NA	NA	0.070	NA	563.56
602.8	LA Harbor/Berth 49	TCM	12/28/87	251.05	NA	4.77	3.49	257.43	17.28	12.45	0.15	NA	NA	0.112	NA	552.32
602.8	LA Harbor/Berth 49	TCM	12/19/88	266.69	NA	3.81	2.50	303.69	7.31	12.81	0.20	NA	NA	0.125	NA	299.56
602.8	LA Harbor/Berth 49	TCM	12/22/89	429.25	NA	4.43	2.05	110.99	6.70	13.47	0.25	NA	NA	0.154	NA	321.76
602.8	LA Harbor/Berth 49	TCM	12/22/89	430.00	NA	4.40	2.10	110.00	6.70	14.00	0.25	NA	NA	0.150	NA	320.00
602.8	LA Harbor/Berth 49	TCM	12/23/90	780.00	NA	7.90	2.40	65.00	6.80	19.00	0.26	NA	NA	0.110	NA	300.00
602.9	LA Harbor/Berth 51	TCM	12/22/89	376.20	NA	3.50	1.66	57.89	6.14	16.91	0.17	NA	NA	0.076	NA	250.21
603.0	LA Harbor/Berth 151	TCM	12/28/87	294.12	NA	5.86	2.95	22.60	17.25	19.53	0.10	NA	NA	0.103	NA	32.21
603.6	LA Harbor/Slip 240	TCM	12/28/87	324.12	NA	5.56	3.36	35.93	13.43	18.19	0.15	NA	NA	0.039	NA	239.78
603.8	LA Harbor/West Channel	TCM	12/28/87	135.42	NA	5.98	1.66	38.50	11.56	12.81	0.09	NA	NA	0.037	NA	293.12
604.5	LA Harbor/Berth 212	TCM	12/19/88	201.90	NA	3.57	1.43	11.95	3.19	14.43	0.14	NA	NA	0.033	NA	194.43
605.0	LA Harbor/Cabrillo Pier	TCM	12/19/88	266.88	NA	4.47	2.12	21.53	5.82	14.65	0.25	NA	NA	0.059	NA	183.35
606.2	LA Harbor/Fish Harbor	TCM	12/28/87	139.34	NA	7.21	2.77	22.79	21.09	17.46	0.19	NA	NA	0.049	NA	361.47
606.3	LA Harbor/Watchorn Basin	TCM	12/28/87	129.94	NA	9.12	2.80	167.04	15.96	22.91	0.26	NA	NA	0.130	NA	497.46
616.0	LA Harbor/Consolidated Slip	TCM	12/28/87	195.40	NA	9.22	5.49	13.51	23.45	18.71	0.14	NA	NA	0.052	NA	370.98
616.0	LA Harbor/Consolidated Slip	TCM	12/19/88	202.75	NA	9.00	3.42	20.00	17.08	21.75	0.28	NA	NA	0.050	NA	376.67
616.0	La Harbor/Consolidated Slip	TCM	12/22/91	390.00	NA	12.00	2.20	15.00	15.00	19.00	0.17	NA	NA	0.049	NA	340.00
616.0	LA Harbor/Consolidated Slip	RBM	01/06/93	780.00	NA	3.90	2.00	14.00	11.00	39.00	0.21	NA	NA	0.049	NA	400.00
618.0	LA Harbor/Angels Gate	TCM	12/23/90	570.00	NA	3.50	2.90	14.00	4.00	15.00	0.14	NA	NA	0.150	NA	210.00
619.0	LA Harbor/San Pedro Boatworks	RBM	12/23/90	580.00	NA	2.50	3.60	37.00	2.80	12.00	0.15	NA	NA	0.090	NA	280.00
622.0	LA Harbor/Commer Marine	TCM	12/23/90	490.00	NA	14.00	2.40	280.00	11.00	27.00	0.45	NA	NA	0.130	NA	790.00
648.0	Malibu	RBM	12/26/90	1300.00	NA	1.90	140.00	8.50	1.70	28.00	0.10	NA	NA	5.300	NA	150.00

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 ND = Not Detected

APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
648.0	Malibu	RBM	01/06/93	1400.00	NA	2.90	3.20	9.10	1.70	20.00	0.16	NA	NA	3.600	NA	190.00
648.1	Malibu Lagoon/Channel A	SED	12/22/91	26000.00	NA	1.80	90.00	20.00	34.00	330.00	0.01	NA	NA	0.130	NA	76.00
648.1	Malibu Lagoon/Channel A	SED	09/10/92	28000.00	NA	1.70	93.00	22.00	11.00	330.00	0.03	NA	NA	0.160	NA	68.00
648.3	Malibu Lagoon/Channel C	SED	12/22/91	49000.00	NA	0.90	90.00	16.00	15.00	350.00	0.03	NA	NA	0.099	NA	61.00
648.3	Malibu Lagoon/Channel C	SED	09/10/92	44000.00	NA	1.30	73.00	20.00	9.60	220.00	0.04	NA	NA	0.130	NA	66.00
648.5	Malibu Lagoon/PCH	SED	12/22/91	60000.00	NA	0.80	68.00	14.00	15.00	490.00	ND	NA	NA	0.050	NA	54.00
648.5	Malibu Lagoon/PCH	SED	09/10/92	55000.00	NA	0.82	77.00	13.00	9.60	300.00	0.02	NA	NA	0.056	NA	50.00
650.0	Santa Monica	RCM	12/19/88	237.35	NA	1.30	1.30	22.80	6.25	12.10	0.25	NA	NA	1.065	NA	184.85
650.0	Santa Monica	RBM	12/26/90	920.00	NA	1.10	57.00	11.00	5.50	19.00	0.18	NA	NA	8.900	NA	180.00
650.0	Santa Monica	RCM	01/06/93	720.00	NA	0.81	20.00	22.00	7.50	12.00	0.27	NA	NA	6.300	NA	240.00
656.0	Manhattan Beach	RCM	12/19/88	282.18	NA	1.24	1.41	16.18	6.24	10.24	0.21	NA	NA	1.176	NA	161.76
658.0	Redondo Beach	RCM	12/19/88	113.84	NA	1.05	1.32	16.95	6.11	6.26	0.28	NA	NA	1.016	NA	177.37
662.0	Royal Palms	RCM	12/28/87	193.24	NA	3.77	2.98	8.58	11.44	9.52	0.20	NA	NA	6.164	NA	229.71
662.0	Royal Palms	RCM	12/19/88	86.47	NA	2.47	1.80	9.33	2.80	9.80	0.21	NA	NA	1.113	6.13	192.47
662.0	Royal Palms	RCM	12/22/89	129.43	NA	3.66	2.58	8.62	3.88	8.34	0.47	NA	NA	8.270	NA	254.61
662.0	Royal Palms	RCM	12/26/90	490.00	NA	2.40	3.20	9.60	2.90	12.00	0.25	NA	NA	7.500	NA	230.00
662.0	Royal Palms	RCM	11/25/91	360.00	NA	1.80	1.90	9.20	2.30	14.00	0.13	NA	NA	3.900	NA	190.00
662.0	Royal Palms	RCM	01/05/93	410.00	NA	2.80	16.00	9.70	3.40	12.00	0.32	NA	NA	6.300	NA	300.00
681.0	Catalina Island/West	RCM	09/04/91	120.00	NA	5.50	1.70	4.90	20.00	5.10	0.18	NA	NA	1.200	NA	190.00
682.0	Catalina Island/Ribbon Rock	RCM	09/19/90	110.00	NA	3.00	2.70	6.80	3.90	7.20	0.09	NA	NA	0.380	NA	220.00
682.0	Catalina Island/Ribbon Rock	RCM	02/01/93	670.00	NA	5.30	52.00	7.70	15.00	17.00	0.19	NA	NA	1.700	NA	210.00
707.0	Anaheim Bay/Navy Harbor	TCM	12/30/87	372.14	NA	4.69	1.65	9.70	5.83	11.96	0.14	NA	NA	0.037	NA	168.78
707.0	Anaheim Bay/Navy Harbor	TCM	12/19/88	388.85	NA	2.55	1.40	11.70	5.70	12.65	0.17	NA	NA	0.030	NA	136.15
707.0	Anaheim Bay/Navy Harbor	TCM	12/27/89	351.29	NA	3.54	1.21	8.09	4.56	10.94	0.13	NA	NA	0.020	NA	162.21
707.0	Anaheim Bay/Navy Harbor	TCM	12/23/90	850.00	NA	5.90	2.60	11.00	5.80	17.00	0.16	NA	NA	0.040	NA	260.00
707.0	Anaheim Bay/Navy Harbor	TCM	12/22/91	730.00	NA	4.80	1.30	10.00	3.50	14.00	0.12	NA	NA	0.036	NA	160.00
708.0	Anaheim Bay/Navy Marsh	TCM	12/30/87	354.37	NA	3.96	1.49	8.16	5.90	11.80	0.08	NA	NA	0.050	NA	131.55
708.0	Anaheim Bay/Navy Marsh	TCM	12/27/89	489.43	NA	4.08	1.41	8.31	3.95	12.09	0.15	NA	NA	0.016	NA	167.70
708.0	Anaheim Bay/Navy Marsh	TCM	12/23/90	1200.00	NA	5.70	15.00	13.00	4.80	17.00	0.13	NA	NA	0.040	NA	280.00
708.0	Anaheim Bay/Navy Marsh	TCM	12/22/91	820.00	NA	5.40	1.40	11.00	3.50	14.00	0.08	NA	NA	0.033	NA	200.00
708.5	Anaheim Bay/Navy Marsh 2	TCM	12/23/90	1800.00	NA	9.30	3.20	13.00	1.70	22.00	0.24	NA	NA	0.070	NA	330.00
708.5	Anaheim Bay/Navy Marsh 2	TCM	12/22/91	950.00	NA	5.70	1.50	12.00	3.00	21.00	0.14	NA	NA	0.037	NA	210.00
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/30/87	282.73	NA	3.25	2.70	8.17	13.92	9.72	0.06	NA	NA	0.031	NA	102.27
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/19/88	414.58	NA	3.79	1.84	12.63	5.68	17.53	0.28	NA	NA	0.137	NA	131.74
710.2	Anaheim Bay/Fuel Docks/South	TCM	12/27/89	442.60	NA	4.52	1.33	12.17	7.65	12.13	NA	NA	NA	0.015	NA	228.09
713.0	Huntington Harbour/Edinger Street	TCM	12/30/87	777.78	NA	7.92	3.02	20.25	19.20	22.74	0.45	NA	NA	0.047	NA	220.41
713.0	Huntington Harbour/Edinger Street	TCM	12/27/89	717.47	NA	7.23	1.98	16.85	10.83	25.77	0.15	NA	NA	0.033	NA	284.45
713.0	Huntington Harbour/Edinger Street	TCM	12/23/90	790.00	NA	16.00	2.80	11.00	6.60	20.00	0.29	NA	NA	0.030	NA	230.00
713.0	Huntington Harbour/Edinger Street	TCM	12/22/91	1000.00	NA	11.00	1.80	14.00	6.50	31.00	0.23	NA	NA	0.038	NA	280.00
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/30/87	433.60	NA	10.79	2.90	11.65	19.45	32.55	0.27	NA	1.98	0.084	NA	405.42
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/19/88	586.06	NA	6.19	2.19	21.94	24.56	49.63	0.26	NA	2.50	0.050	NA	305.44
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/27/89	810.66	NA	7.36	2.25	15.73	25.16	23.26	0.13	NA	NA	0.020	NA	366.58

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NA = Not Analyzed
ND = Not Detected

APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/23/90	830.00	NA	12.00	3.20	12.00	16.00	27.00	0.24	NA	NA	0.110	NA	430.00
715.0	Huntington Harbour/Warner Ave Brdg	TCM	12/22/91	980.00	NA	10.00	2.10	13.00	13.00	38.00	0.23	NA	NA	0.039	NA	320.00
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/06/93	1400.00	NA	11.00	5.90	19.00	12.00	34.00	0.22	NA	NA	0.120	NA	450.00
717.0	Huntington Harbour/Harbor Lane	TCM	12/30/87	262.77	NA	10.44	2.86	16.37	18.57	70.32	0.19	NA	NA	0.032	NA	415.57
717.0	Huntington Harbour/Harbor Lane	TCM	12/19/88	419.38	NA	6.94	1.88	27.44	18.94	34.63	0.28	NA	NA	0.044	NA	293.31
717.0	Huntington Harbour/Harbor Lane	TCM	12/22/91	760.00	NA	6.70	1.40	33.00	17.00	22.00	0.18	NA	NA	0.039	NA	360.00
719.1	Santa Ana River/Prado Dam	TFC	04/02/92	1500.00	6.90	3.00	10.00	110.00	1.40	68.00	0.22	1.80	4.40	0.250	NA	140.00
719.1	Santa Ana River/Prado Dam	TFC	03/17/93	4600.00	NA	0.43	15.00	68.00	2.60	79.00	0.20	NA	NA	0.170	NA	130.00
719.8	Temescal Creek/Nichols Road	TFC	04/02/92	1400.00	NA	3.70	13.00	130.00	0.81	74.00	0.35	NA	NA	0.410	NA	150.00
720.5	Newport Bay/Offshore Ref	TCM	12/21/90	740.00	NA	3.60	1.40	8.50	2.40	10.00	0.10	NA	NA	0.530	NA	150.00
721.0	Newport Bay/Entrance	TCM	12/21/87	635.71	NA	6.40	2.61	10.33	6.60	13.55	0.14	NA	NA	0.048	NA	185.71
721.0	Newport Bay/Entrance	TCM	12/20/88	154.83	NA	4.83	1.17	10.78	3.11	9.56	0.19	NA	NA	0.033	NA	164.61
721.0	Newport Bay/Entrance	TCM	12/27/89	153.59	NA	4.32	1.10	8.35	4.05	6.28	0.10	NA	NA	0.012	NA	226.24
721.0	Newport Bay/Entrance	TCM	12/21/90	870.00	NA	8.20	2.30	11.00	4.70	14.00	0.21	NA	NA	0.040	NA	290.00
723.0	Newport Bay/Bay Island	TCM	12/21/87	601.19	NA	6.53	2.28	13.45	7.28	21.57	0.11	NA	NA	0.058	NA	267.86
723.0	Newport Bay/Bay Island	TCM	12/27/89	268.54	NA	4.02	0.98	12.07	4.58	11.83	0.10	NA	NA	0.003	NA	228.60
723.0	Newport Bay/Bay Island	TCM	12/21/90	780.00	NA	7.30	10.00	12.00	5.70	14.00	0.19	NA	NA	0.030	NA	330.00
723.0	Newport Bay/Bay Island	TCM	12/22/91	670.00	NA	7.30	1.30	20.00	3.80	25.00	0.19	NA	NA	0.030	NA	300.00
723.4	Newport Bay/Turning Basin	TCM	12/21/87	281.84	NA	11.19	1.90	20.19	12.98	23.14	0.23	NA	NA	0.084	NA	365.85
723.4	Newport Bay/Turning Basin	TCM	12/20/88	222.75	NA	8.42	1.42	24.75	10.17	25.25	0.33	NA	NA	0.042	NA	322.75
723.4	Newport Bay/Turning Basin	TCM	12/27/89	232.71	NA	8.29	1.64	31.73	8.84	16.36	0.17	NA	NA	0.024	NA	355.81
723.4	Newport Bay/Turning Basin	TCM	12/21/90	460.00	NA	15.00	3.40	22.00	10.00	32.00	0.34	NA	NA	0.290	NA	660.00
723.4	Newport Bay/Turning Basin	TCM	12/22/91	440.00	NA	10.00	1.20	27.00	10.00	22.00	0.23	NA	NA	0.035	NA	470.00
724.0	Newport Bay/Highway 1 Bridge	TCM	12/21/87	826.29	NA	10.99	2.95	13.64	8.21	38.92	0.17	NA	NA	0.047	NA	291.32
724.0	Newport Bay/Highway 1 Bridge	TCM	12/20/88	296.67	NA	4.33	0.94	9.17	3.78	12.61	0.18	NA	NA	0.028	NA	199.89
724.0	Newport Bay/Highway 1 Bridge	TCM	12/27/89	413.56	NA	5.57	1.52	9.96	3.92	14.48	0.12	NA	NA	0.011	NA	271.15
724.0	Newport Bay/Highway 1 Bridge	TCM	12/21/90	490.00	NA	12.00	2.60	11.00	4.50	17.00	0.26	NA	NA	0.050	NA	340.00
724.0	Newport Bay/Highway 1 Bridge	TCM	12/22/91	510.00	NA	9.60	1.20	18.00	3.30	22.00	0.17	NA	NA	0.036	NA	290.00
724.0	Newport Bay/Highway 1 Bridge	TCM	01/05/93	2200.00	NA	18.00	4.50	20.00	4.90	73.00	0.30	NA	NA	0.047	NA	430.00
725.0	Newport Bay/Crows Nest	TCM	12/21/87	366.91	NA	10.91	2.75	33.05	14.27	25.95	0.38	NA	NA	0.058	NA	471.22
725.0	Newport Bay/Crows Nest	TCM	12/20/88	175.00	NA	7.81	1.31	53.06	9.44	14.19	0.49	NA	NA	0.025	NA	345.00
725.0	Newport Bay/Crows Nest	TCM	12/27/89	150.54	NA	7.69	1.34	44.94	10.90	13.12	0.23	NA	NA	0.017	NA	392.32
725.0	Newport Bay/Crows Nest	TCM	12/21/90	500.00	NA	15.00	2.80	55.00	11.00	14.00	0.52	NA	NA	0.040	NA	760.00
725.0	Newport Bay/Crows Nest	TCM	12/22/91	380.00	NA	8.60	1.10	23.00	13.00	18.00	0.38	NA	NA	0.041	NA	460.00
725.0	Newport Bay/Crows Nest	TCM	01/05/93	460.00	NA	13.00	20.00	73.00	8.30	33.00	0.40	NA	NA	0.046	NA	670.00
726.0	Newport Bay/Rhine Channel/Upper	TCM	12/21/87	558.89	NA	11.48	3.71	68.50	14.97	36.52	0.34	NA	NA	0.068	NA	538.85
726.0	Newport Bay/Rhine Channel/Upper	TCM	12/20/88	443.79	NA	8.36	1.93	76.93	13.57	27.50	0.58	NA	NA	0.050	NA	413.57
726.2	Newport Bay/Rhine Channel/26th Ave	TCM	12/20/88	385.58	NA	6.33	1.58	13.75	4.17	32.17	0.27	NA	NA	0.033	NA	240.25
726.4	Newport Bay/Rhine Channel/End	TCM	12/21/87	745.24	NA	7.52	3.56	9.50	6.84	36.57	0.08	NA	NA	0.055	NA	183.57
726.4	Newport Bay/Rhine Channel/End	TCM	12/20/88	167.00	NA	10.45	1.64	11.45	3.00	18.91	0.30	NA	NA	0.036	NA	259.73
726.4	Newport Bay/Rhine Channel/End	TCM	12/27/89	81.90	NA	9.07	1.75	84.81	13.43	18.79	0.26	NA	NA	0.026	NA	578.75
726.4	Newport Bay/Rhine Channel/End	SED	09/02/90	43000.00	NA	2.00	45.00	460.00	84.00	260.00	8.80	NA	NA	0.230	NA	240.00

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NA = Not Analyzed
 ND = Not Detected

APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
726.4	Newport Bay/Rhine Channel/End	TCM	12/21/90	770.00	NA	14.00	9.70	48.00	1.10	18.00	0.54	NA	NA	0.030	NA	720.00
726.4	Newport Bay/Rhine Channel/End	TCM	12/22/91	640.00	NA	6.60	1.50	25.00	16.00	27.00	0.43	NA	NA	0.044	NA	430.00
726.4	Newport Bay/Rhine Channel/End	TCM	01/05/93	440.00	NA	24.00	13.00	97.00	8.50	61.00	0.55	NA	NA	0.095	NA	880.00
727.0	Garden Grove/Wintersburg Channel	TFC	01/23/91	770.00	NA	1.90	9.30	68.00	4.50	30.00	0.74	NA	NA	0.040	NA	270.00
727.0	Garden Grove/Wintersburg Channel	TFC	03/17/93	560.00	NA	0.82	1.10	105.00	1.30	55.00	0.27	NA	NA	0.230	NA	140.00
728.4	Upper Newport Bay/MacArthur	TFC	03/07/88	131.69	NA	12.68	0.91	37.78	0.46	23.33	0.15	NA	NA	0.227	NA	116.46
728.4	Upper Newport Bay/MacArthur	TFC	12/20/88	75.40	NA	16.00	0.40	55.80	0.80	35.80	0.52	NA	NA	0.440	NA	190.60
728.4	Upper Newport Bay/MacArthur	TFC	03/14/90	1596.11	NA	1.78	7.48	56.89	1.72	46.21	0.22	NA	NA	0.035	NA	192.69
728.4	Upper Newport Bay/MacArthur	TFC	01/23/91	1600.00	NA	110.00	9.30	65.00	2.10	50.00	0.28	NA	NA	0.070	NA	180.00
728.4	Upper Newport Bay/MacArthur	TFC	03/17/93	550.00	NA	1.00	1.50	66.00	0.39	24.00	0.18	NA	NA	0.140	NA	100.00
728.5	Upper Newport Bay/Drain 2	TFC	03/14/90	1554.77	NA	1.59	7.14	55.56	1.75	45.84	0.21	NA	NA	0.038	NA	187.85
728.6	Upper Newport Bay/San Diego Cr 1	TFC	03/07/88	670.54	NA	10.31	1.44	36.20	1.01	24.92	0.14	NA	NA	0.202	NA	115.50
728.7	Upper Newport Bay/Drain 4	TFC	03/14/90	2678.38	NA	2.82	15.85	134.14	4.49	47.97	0.15	NA	NA	0.090	NA	252.97
728.7	Upper Newport Bay/Drain 4	TFC	01/23/91	560.00	NA	2.60	9.10	75.00	1.50	36.00	0.34	NA	NA	0.060	NA	220.00
728.7	Upper Newport Bay/Drain 4	TFC	03/17/93	510.00	NA	0.88	0.71	56.00	0.52	45.00	0.27	NA	NA	0.140	NA	100.00
728.8	Upper Newport Bay/San Diego Cr 2	TFC	03/07/88	202.02	NA	19.24	1.96	39.75	1.00	16.36	0.18	NA	NA	0.333	NA	104.04
728.9	Upper Newport Bay/Drain 5	TFC	03/14/90	1698.51	NA	2.34	10.84	66.17	7.06	57.32	0.32	NA	NA	0.070	NA	190.44
728.9	Upper Newport Bay/Drain 5	SED	01/23/91	59000.00	NA	2.10	3.50	2.70	18.00	110.00	ND	NA	NA	0.050	NA	14.00
730.0	Huntington Beach Pier	RCM	12/26/90	820.00	NA	0.80	2.70	11.00	5.50	18.00	0.10	NA	NA	2.900	NA	210.00
735.0	Corona Del Mar	RCM	12/26/90	390.00	NA	2.30	2.10	11.00	5.40	9.80	0.14	NA	NA	4.800	NA	290.00
735.0	Corona Del Mar	RCM	11/29/91	290.00	NA	2.10	1.20	8.20	4.20	9.40	0.17	NA	NA	2.500	NA	230.00
740.0	Dana Point Harbor/Boat Yard	SED	09/27/90	30000.00	NA	1.90	72.00	130.00	26.00	320.00	0.07	NA	NA	0.280	NA	160.00
740.0	Dana Point Harbor/Boat Yard	TCM	12/21/91	790.00	NA	7.00	1.70	90.00	5.00	12.00	0.23	NA	NA	0.046	NA	440.00
740.0	Dana Point Harbor/Boat Yard	TCM	01/05/93	1600.00	NA	19.00	3.80	120.00	7.90	16.00	0.24	NA	NA	0.075	NA	840.00
744.1	San Onofre 1	TCM	01/30/89	197.76	NA	2.86	1.10	7.81	1.00	6.24	0.18	NA	NA	0.671	NA	121.76
744.1	San Onofre 1	TCM	09/27/90	140.00	6.50	1.60	0.60	6.90	0.58	4.30	0.04	NA	NA	1.100	NA	120.00
744.1	San Onofre 1	TCM	03/12/91	460.00	12.00	6.50	13.00	9.20	1.90	8.90	0.12	NA	NA	1.100	NA	190.00
744.1	San Onofre 1	TCM	10/24/91	450.00	4.80	1.80	0.88	6.60	0.88	7.80	0.06	NA	2.00	1.500	NA	100.00
744.1	San Onofre 1	TCM	03/25/92	760.00	7.90	5.20	1.50	7.40	1.40	11.00	0.14	NA	3.30	0.320	NA	170.00
744.2	San Onofre 2	TCM	01/30/89	200.88	NA	2.58	0.88	7.42	0.35	5.77	0.19	NA	NA	0.481	NA	103.08
744.2	San Onofre 2	TCM	11/22/89	218.10	8.73	2.89	0.84	6.53	1.18	6.18	0.07	0.72	2.33	1.198	14.66	181.60
744.2	San Onofre 2	TCM	10/01/90	170.00	7.10	1.30	0.50	6.40	0.65	5.10	0.05	NA	NA	0.920	NA	130.00
744.2	San Onofre 2	TCM	03/12/91	330.00	12.00	7.40	1.50	13.00	2.10	6.10	0.16	NA	NA	0.910	NA	190.00
744.2	San Onofre 2	TCM	03/25/92	810.00	8.00	5.10	1.30	8.40	1.50	12.00	0.13	NA	3.70	0.460	NA	160.00
744.3	San Onofre 3	TCM	11/22/89	334.66	8.43	3.08	0.87	6.89	1.40	6.69	0.07	0.97	2.70	1.246	19.03	167.85
744.3	San Onofre 3	TCM	04/04/90	233.24	10.67	4.01	0.89	6.05	1.56	6.36	0.11	1.18	2.77	0.631	10.74	135.77
744.3	San Onofre 3	TCM	09/27/90	210.00	7.30	1.50	0.60	7.00	0.67	6.10	0.05	NA	NA	1.100	NA	120.00
744.3	San Onofre 3	TCM	03/12/91	350.00	9.90	4.50	1.40	13.00	1.80	6.70	0.14	NA	NA	0.390	NA	160.00
744.3	San Onofre 3	TCM	03/25/92	760.00	8.30	5.50	1.90	8.30	1.60	12.00	0.14	NA	3.60	0.290	NA	170.00
744.4	San Onofre 4	TCM	01/30/89	141.20	NA	4.12	0.84	7.00	0.96	5.08	0.17	NA	NA	0.476	NA	95.32
744.4	San Onofre 4	TCM	11/22/89	322.01	7.87	2.61	0.97	7.07	1.25	6.55	0.06	1.00	2.77	1.762	17.29	167.10
744.4	San Onofre 4	TCM	04/04/90	166.25	9.97	3.55	0.72	4.97	1.56	5.55	0.10	1.24	2.97	0.583	9.11	130.61

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
744.4	San Onofre 4	TCM	03/12/91	660.00	9.30	3.90	7.20	10.40	1.80	9.20	0.14	NA	NA	0.790	NA	130.00
744.4	San Onofre 4	TCM	10/24/91	460.00	5.00	2.40	0.87	7.20	0.99	7.90	0.07	NA	2.20	1.700	NA	130.00
744.4	San Onofre 4	TCM	03/25/92	670.00	7.90	4.70	1.10	7.60	1.50	12.00	0.11	NA	2.90	0.270	NA	160.00
744.5	San Onofre 5	TCM	01/30/89	112.28	NA	3.64	0.92	7.96	1.00	4.88	0.19	NA	NA	0.492	NA	100.40
744.5	San Onofre 5	TCM	11/22/89	166.52	8.00	2.80	0.76	6.68	1.07	4.87	0.06	0.70	2.03	1.548	10.89	148.19
744.5	San Onofre 5	TCM	04/04/90	112.04	9.30	3.36	0.53	5.46	1.54	4.85	0.08	1.12	2.60	0.581	7.69	119.14
744.5	San Onofre 5	TCM	10/01/90	180.00	6.60	1.40	0.60	6.90	0.61	5.20	0.06	NA	NA	0.930	NA	120.00
744.5	San Onofre 5	TCM	03/12/91	400.00	12.00	6.40	5.00	8.70	1.70	7.40	0.14	NA	NA	1.100	NA	170.00
744.5	San Onofre 5	TCM	03/25/92	610.00	7.70	5.40	1.10	7.80	1.50	11.00	0.11	NA	3.50	0.310	NA	160.00
744.6	San Onofre 6	TCM	01/30/89	182.92	NA	3.96	1.04	6.58	1.13	5.00	0.15	NA	NA	0.613	NA	107.38
744.6	San Onofre 6	TCM	11/22/89	191.73	8.43	2.32	0.74	7.23	1.00	4.79	0.06	0.71	2.80	1.503	10.84	155.69
744.6	San Onofre 6	TCM	04/04/90	116.15	9.37	4.17	0.83	6.46	1.65	5.41	0.11	1.30	2.70	0.732	7.90	141.95
744.6	San Onofre 6	TCM	09/27/90	200.00	7.20	1.30	0.50	7.30	0.56	6.50	0.05	NA	NA	0.100	NA	110.00
744.6	San Onofre 6	TCM	03/12/91	130.00	13.00	4.80	3.90	8.60	1.50	7.50	0.11	NA	NA	0.070	NA	150.00
744.6	San Onofre 6	TCM	10/24/91	440.00	4.80	2.10	0.92	6.70	1.10	8.30	0.06	NA	2.60	1.000	NA	120.00
744.6	San Onofre 6	TCM	03/25/92	840.00	8.70	5.20	1.80	7.90	1.40	13.00	0.11	NA	3.50	0.410	NA	150.00
748.0	Oceanside/Harbor	TCM	12/21/87	858.80	NA	10.35	3.29	80.14	9.38	22.52	0.38	NA	NA	0.081	NA	474.31
748.0	Oceanside/Harbor	TCM	01/05/93	720.00	NA	14.00	11.00	43.00	3.70	9.40	0.22	NA	NA	0.046	NA	450.00
748.0	Oceanside/Harbor	TCM	12/21/91	600.00	NA	12.00	1.40	72.00	3.20	14.00	0.30	NA	NA	0.045	NA	420.00
750.0	Oceanside	RCM	12/21/87	499.02	NA	1.33	2.13	6.26	1.32	9.88	0.08	NA	NA	0.865	NA	132.55
750.0	Oceanside	RCM	12/20/88	290.53	NA	1.53	1.32	8.63	1.21	8.42	0.08	NA	NA	0.421	53.89	120.37
750.0	Oceanside	RCM	12/21/89	348.02	NA	2.50	1.16	6.99	1.81	8.70	0.14	NA	NA	0.303	NA	260.97
750.0	Oceanside	RCM	12/22/90	810.00	9.30	1.00	1.90	9.90	1.40	15.00	0.10	NA	NA	0.780	NA	180.00
750.0	Oceanside	RCM	12/21/91	810.00	6.10	1.20	1.30	9.90	0.94	18.00	0.08	NA	3.60	0.610	NA	150.00
750.0	Oceanside	RCM	09/09/92	640.00	NA	0.77	1.20	7.20	0.70	15.00	0.04	NA	NA	0.170	NA	120.00
751.0	Oceanside/Transplant	SED	12/22/90	59000.00	NA	1.90	28.00	320.00	58.00	380.00	3.50	NA	NA	0.080	NA	120.00
832.0	La Jolla	RCM	12/22/90	640.00	NA	1.70	1.90	7.50	3.50	8.40	0.25	NA	NA	6.100	NA	150.00
832.0	La Jolla	RCM	11/26/91	410.00	NA	1.50	1.00	6.30	2.50	8.20	0.15	NA	NA	2.600	NA	150.00
832.0	La Jolla	RCM	01/05/93	240.00	NA	2.20	1.60	7.30	2.50	5.10	0.23	NA	NA	5.400	NA	220.00
838.2	Point Loma/Sunset Cliffs	RCM	12/22/87	379.49	NA	2.31	2.36	11.59	4.62	8.31	0.56	NA	NA	1.315	NA	213.85
838.2	Point Loma/Sunset Cliffs	RCM	12/20/88	257.64	NA	1.86	1.29	12.50	2.93	8.14	0.34	NA	NA	1.429	NA	187.36
838.2	Point Loma/Sunset Cliffs	RCM	12/21/89	303.33	NA	2.64	1.65	11.93	3.81	8.91	0.28	NA	NA	31.883	NA	255.82
838.2	Point Loma/Sunset Cliffs	RCM	12/22/90	6100.00	NA	14.00	15.00	75.00	36.00	120.00	1.90	NA	NA	20.000	NA	1700.00
838.2	Point Loma/Sunset Cliffs	RCM	11/26/91	490.00	NA	1.30	1.10	11.00	2.20	12.00	0.25	NA	NA	7.600	NA	180.00
838.2	Point Loma/Sunset Cliffs	RCM	09/09/92	340.00	NA	0.74	1.10	9.40	1.70	7.60	0.17	NA	NA	2.800	NA	150.00
840.0	Naval Ocean Sys Cntr/Dolphin Tanks	RCM	12/20/88	261.44	NA	1.88	1.44	11.69	1.75	9.44	0.28	NA	NA	1.050	NA	189.56
840.0	Naval Ocean Sys Cntr/Dolphin Tanks	RCM	01/05/93	620.00	NA	1.00	1.80	12.00	1.70	13.00	0.30	NA	NA	7.000	NA	240.00
865.0	Mission Bay/Hilton Docks	TCM	12/21/89	103.09	NA	8.10	1.40	6.94	1.71	13.10	0.14	NA	NA	0.021	NA	190.48
866.0	Fisherman Channel	SED	09/03/90	30000.00	NA	1.80	38.00	31.00	20.00	590.00	0.04	NA	NA	0.070	NA	63.00
866.0	Fisherman Channel	TCM	12/22/90	1000.00	NA	6.10	1.90	11.00	2.80	15.00	0.20	NA	NA	0.040	NA	220.00
868.5	Mission Bay/Landfill 1	SED	09/01/89	14427.00	NA	0.36	19.94	10.89	11.25	218.28	0.01	NA	NA	0.024	NA	39.32
868.5	Mission Bay/Landfill 1	TCM	12/21/89	572.38	NA	7.16	1.48	8.76	1.78	10.12	0.15	NA	NA	0.050	NA	216.45

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
868.5	Mission Bay/Landfill 1	SED	09/03/90	67000.00	NA	2.20	48.00	16.00	20.00	800.00	ND	NA	NA	0.060	NA	83.00
868.5	Mission Bay/Landfill 1	TCM	12/22/90	840.00	NA	4.10	8.70	10.00	1.60	11.00	0.15	NA	NA	0.060	NA	160.00
868.5	Mission Bay/Landfill 1	TCM	12/21/91	620.00	NA	4.90	1.30	8.50	1.20	15.00	0.14	NA	NA	0.054	NA	130.00
868.6	Mission Bay/Landfill 2	SED	09/03/90	51000.00	NA	1.70	65.00	23.00	22.00	930.00	ND	NA	NA	0.080	NA	110.00
868.6	Mission Bay/Landfill 2	TCM	12/21/91	720.00	NA	4.90	1.10	8.50	1.20	10.00	0.14	NA	NA	0.044	NA	140.00
871.0	Mission Bay/South Shore/Rock 2	TCM	01/05/93	1100.00	NA	7.20	34.00	9.80	1.70	15.00	0.13	NA	NA	0.130	NA	200.00
872.4	Mission Bay/Kendall-Frost Reserve	TCM	01/04/93	1100.00	NA	12.00	16.00	13.00	4.20	17.00	0.25	NA	NA	0.069	NA	230.00
873.5	Mission Bay/Harbor Police	TCM	01/04/93	650.00	NA	11.00	1.80	62.00	4.30	13.00	0.17	NA	NA	0.062	NA	470.00
881.0	San Diego Bay/Sweetwater Marsh	TCM	12/21/88	552.35	NA	4.30	1.30	20.45	2.35	18.65	0.19	NA	NA	0.205	NA	285.70
881.3	Sweetwater River/Mouth 1	SED	09/07/90	65000.00	NA	2.40	35.00	32.00	22.00	670.00	0.04	NA	NA	0.200	NA	110.00
881.3	Sweetwater River/Mouth 1	TCM	01/15/91	1800.00	NA	6.90	2.30	18.00	3.40	20.00	0.29	NA	NA	0.510	NA	400.00
881.3	Sweetwater River/Mouth 1	SED	08/31/91	25000.00	NA	0.40	67.00	53.00	36.00	570.00	0.18	NA	NA	0.940	NA	240.00
881.3	Sweetwater River/Mouth 1	TCM	12/21/91	760.00	NA	10.00	1.20	22.00	2.90	39.00	0.21	NA	NA	0.190	NA	300.00
881.4	Sweetwater River/Mouth 2	SED	08/31/91	64000.00	NA	0.10	34.00	10.00	8.90	780.00	ND	NA	NA	0.066	NA	70.00
881.5	San Diego Bay/Rohr Channel Mouth	TCM	01/05/93	1600.00	NA	12.00	2.70	28.00	3.60	36.00	0.18	NA	NA	0.390	NA	380.00
882.0	24th St Maritime Terminal/South	TCM	12/22/87	766.67	NA	7.22	2.70	56.07	4.58	30.93	0.18	NA	NA	0.340	NA	302.62
882.0	24th St Maritime Terminal/South	TCM	12/21/91	670.00	7.20	9.70	1.60	34.00	2.80	32.00	0.20	1.20	2.60	0.240	NA	280.00
882.2	24Th St Maritime Terminal/North	TCM	12/21/88	544.07	NA	5.64	2.64	77.21	4.79	41.07	0.24	NA	NA	0.593	NA	311.43
882.2	24Th St Maritime Terminal/North	SED	09/01/89	37921.00	NA	1.84	65.18	2596.60	79.30	260.56	0.10	NA	NA	1.010	NA	452.28
882.2	24Th St Maritime Terminal/North	TCM	12/21/89	474.75	NA	11.77	2.58	44.21	0.49	28.38	0.31	NA	NA	0.499	NA	477.89
882.2	24Th St Maritime Terminal/North	TCM	01/05/93	1200.00	NA	12.00	2.40	66.00	4.10	27.00	0.23	NA	NA	0.350	NA	370.00
882.5	San Diego Bay/NASSCO Pier 12	TCM	12/22/87	515.63	NA	8.59	2.96	44.30	7.96	21.85	0.20	NA	NA	0.287	NA	337.76
882.7	San Diego Bay/Sampson Street Pier	TCM	12/22/87	303.48	NA	11.32	2.77	168.93	11.22	55.90	0.52	NA	NA	0.465	NA	580.10
882.7	San Diego Bay/Sampson Street Pier	TCM	12/21/88	231.93	NA	9.07	2.57	87.50	7.64	29.21	0.29	NA	NA	0.479	NA	410.50
882.7	San Diego Bay/Sampson Street Pier	TCM	01/05/93	690.00	NA	20.00	11.00	58.00	6.20	21.00	0.36	NA	NA	0.310	NA	470.00
882.8	San Diego Bay/KELCO Pier	TCM	12/21/88	366.20	NA	7.40	2.47	65.67	6.93	28.47	0.30	NA	NA	0.653	NA	344.87
882.8	San Diego Bay/KELCO Pier	TCM	12/21/91	390.00	NA	14.00	1.60	51.00	5.40	25.00	0.27	NA	2.10	0.240	NA	410.00
882.8	San Diego Bay/KELCO Pier	TCM	12/21/91	640.00	NA	9.50	1.70	48.00	5.10	34.00	0.25	NA	NA	0.280	NA	370.00
882.9	San Diego Bay/Coronado Brdg/East	TCM	12/21/88	414.56	NA	7.81	3.00	78.06	8.81	26.00	0.22	NA	NA	1.138	NA	361.25
883.1	San Diego Bay/Chollas Creek	TCM	12/21/88	352.14	NA	7.64	3.57	58.36	15.43	41.29	0.27	NA	NA	0.493	NA	463.07
883.4	San Diego Bay/Continental Maritime	TCM	12/21/88	321.21	NA	7.36	2.36	55.36	5.86	30.50	0.24	NA	NA	0.536	NA	296.64
883.4	San Diego Bay/Continental Maritime	TCM	01/05/93	550.00	NA	17.00	19.00	37.00	6.00	23.00	0.29	NA	NA	0.250	NA	450.00
883.5	San Diego Bay/Tuna Docks	TCM	12/21/88	355.13	NA	7.47	2.47	52.40	6.40	23.60	0.37	NA	NA	0.513	NA	374.00
883.6	San Diego Bay/7th Street Channel	TCM	12/22/87	355.69	NA	7.38	2.16	38.84	20.72	45.18	0.13	NA	NA	0.313	NA	561.79
883.6	San Diego Bay/7th Street Channel	TCM	12/21/88	448.17	NA	5.89	2.67	91.78	14.61	57.56	0.19	NA	NA	0.606	NA	452.06
883.6	San Diego Bay/7th Street Channel	SED	11/27/90	39000.00	NA	2.10	73.00	150.00	45.00	500.00	0.43	NA	NA	1.100	NA	210.00
883.6	San Diego Bay/7th Street Channel	SED	08/31/91	41000.00	NA	0.40	82.00	200.00	45.00	460.00	0.46	NA	NA	1.600	NA	240.00
883.7	San Diego Bay/Terminal S-10th St	TCM	01/05/93	460.00	NA	17.00	2.90	42.00	7.80	14.00	0.34	NA	NA	0.290	NA	420.00
885.2	San Diego Bay/32nd Street	TCM	12/21/88	364.38	NA	8.38	4.92	72.08	5.08	35.77	0.23	NA	NA	0.662	NA	406.69
886.2	San Diego Gas&Electric Silvergate	TCM	12/21/88	254.19	NA	7.50	2.44	55.94	5.88	32.06	0.28	NA	NA	0.550	NA	356.88
887.0	San Diego Bay/Evans Street	SED	09/07/90	29000.00	NA	2.10	110.00	420.00	110.00	350.00	1.50	NA	NA	2.100	NA	600.00
887.0	San Diego Bay/Evans Street	TCM	12/22/90	660.00	NA	11.00	12.00	52.00	5.90	25.00	0.39	NA	NA	0.350	NA	460.00

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APPENDIX M (continued)

State Mussel Watch Program

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

Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Titanium	Zinc
887.0	San Diego Bay/Evans Street	TCM	12/21/91	530.00	NA	8.60	1.60	36.00	6.40	30.00	0.22	NA	NA	0.290	NA	340.00
887.0	San Diego Bay/Evans Street	TCM	01/05/93	790.00	NA	13.00	2.70	58.00	8.00	30.00	0.31	NA	NA	0.360	NA	550.00
888.0	San Diego Bay/Coronado Bridge	TCM	12/21/91	590.00	NA	10.00	1.90	47.00	6.30	29.00	0.23	NA	NA	0.330	NA	390.00
888.0	San Diego Bay/Coronado Bridge	TCM	01/05/93	340.00	NA	11.00	19.00	24.00	3.50	25.00	0.25	NA	NA	0.160	NA	310.00
891.0	San Diego Bay/G Street Pier	TCM	12/22/87	682.05	NA	8.36	2.49	21.74	8.74	18.80	0.25	NA	NA	0.308	NA	401.03
893.0	San Diego Bay/Laurel Street	TCM	01/05/93	380.00	NA	14.00	24.00	29.00	5.90	13.00	0.23	NA	NA	0.500	NA	350.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/22/87	424.88	NA	9.32	9.63	32.49	24.40	21.20	0.19	NA	NA	0.967	NA	434.04
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/21/88	412.06	NA	7.67	5.22	43.06	16.28	19.94	0.19	NA	NA	1.433	NA	365.72
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	SED	09/01/89	13811.50	NA	10.58	12.70	136.35	157.80	876.92	0.22	NA	NA	0.050	NA	397.79
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/21/89	420.52	NA	7.65	7.34	37.69	15.52	12.88	0.21	NA	NA	1.295	NA	392.32
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	SED	09/07/90	66000.00	NA	7.70	78.00	110.00	230.00	210.00	0.35	NA	NA	1.300	NA	360.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	12/22/90	1300.00	NA	13.00	170.00	85.00	23.00	47.00	0.46	NA	NA	2.200	NA	530.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	SED	08/31/91	37000.00	NA	8.50	780.00	86.00	270.00	340.00	0.35	NA	NA	2.800	NA	840.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	RBM	12/21/91	600.00	NA	9.00	11.00	38.00	16.00	23.00	0.28	NA	NA	1.000	NA	340.00
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	01/05/93	640.00	NA	16.00	6.60	54.00	16.00	22.00	0.31	NA	NA	1.600	NA	580.00
894.1	SD Bay/Harbor Is/E Basin/Storm Dr2	TCM	12/21/88	361.13	NA	5.13	2.80	76.00	2.20	25.93	0.34	NA	NA	0.547	NA	348.87
894.2	SD Bay/Harbor Is/E Basin/E End Doc	TCM	12/21/88	244.37	NA	4.16	3.42	36.26	6.79	15.32	0.23	NA	NA	0.474	NA	271.21
894.3	SD Bay/Harbor Is/E Basin/Mid Chan	TCM	12/21/88	330.00	NA	6.69	4.75	29.94	10.44	10.94	0.22	NA	NA	0.538	NA	277.69
894.8	Laurel Street Storm Drain	TCM	12/21/88	391.93	NA	7.86	3.14	24.86	9.64	15.29	0.21	NA	NA	0.693	NA	313.79
895.6	San Diego Bay/Grape St Storm Drain	TCM	01/05/93	340.00	NA	17.00	1.80	25.00	5.80	14.00	0.28	NA	NA	0.700	NA	430.00
897.5	Commercial Basin/North Harbor Dr	TCM	12/22/87	351.40	NA	8.15	2.42	42.63	10.40	29.80	0.42	NA	NA	0.149	NA	661.65
898.0	Commercial Basin/Carlton Street	TCM	12/21/88	311.42	NA	6.50	2.25	106.33	9.92	14.75	0.62	NA	NA	0.442	NA	386.08
898.0	Commercial Basin/Carlton Street	TCM	12/21/89	353.72	NA	5.71	1.60	137.21	11.53	19.88	0.70	NA	NA	0.318	NA	639.30
898.0	Commercial Basin/Carlton Street	TCM	01/05/93	530.00	NA	19.00	2.70	100.00	12.00	20.00	0.72	NA	NA	0.220	NA	870.00
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/88	280.81	NA	6.00	2.56	10.69	3.56	7.69	0.20	NA	NA	0.256	NA	204.19
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/89	360.00	NA	5.70	1.40	13.00	4.40	10.00	0.21	NA	NA	0.080	NA	280.00
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	12/21/91	500.00	6.40	6.40	1.40	14.00	3.50	13.00	0.16	0.70	1.80	0.120	NA	250.00
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	01/05/93	1000.00	NA	12.00	2.20	20.00	5.20	13.00	0.28	NA	NA	0.130	NA	420.00
899.2	San Diego Bay/Shelter Island	TCM	01/05/93	600.00	NA	11.00	2.20	180.00	7.00	14.00	0.57	NA	NA	0.310	NA	880.00
899.4	San Diego Bay/Shelter Is/Fuel Dock	TCM	12/22/87	261.08	NA	6.35	1.54	40.77	5.31	11.17	0.31	NA	NA	0.095	NA	423.15
901.0	San Diego Bay/Degausing Station	SED	09/07/90	7600.00	NA	2.40	26.00	8.20	22.00	250.00	ND	NA	NA	0.080	NA	45.00
901.0	San Diego Bay/Degausing Station	TCM	12/21/91	590.00	NA	4.20	1.40	12.00	2.50	16.00	0.11	NA	NA	0.180	NA	200.00
904.0	Imperial Beach/Pier	RCM	12/22/90	700.00	NA	1.20	1.70	11.00	2.30	14.00	0.16	NA	NA	4.100	NA	190.00

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