

## APPENDIX J

### Summary of 1995-97 Data

Trace Elements in Mussel, Clam, Oyster, Shore Crab,  
and Sand Worm  
(ppm, wet weight)

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### State Mussel Watch Program

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Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc
1.0	Crescent City Harbor	RCM	04/09/97	120.0	NA	0.33	1.10	6.60	0.16	2.70	0.045	NA	NA	0.014	58.0
2.0	Crescent City/STP Outfall	RCM	04/09/97	160.0	NA	0.60	2.30	2.00	0.28	2.50	0.085	NA	NA	0.350	25.0
2.2	Crescent City Harbor/Inner Jetty	RCM	04/09/97	120.0	NA	0.37	1.20	2.30	0.18	2.60	0.029	NA	NA	0.013	30.0
3.0	Crescent City/Control	RCM	04/10/97	110.0	NA	0.87	1.50	2.00	0.10	2.20	0.039	NA	NA	0.004	27.0
100.0	Mad River Slough	OYS	04/10/97	340.0	NA	0.55	0.84	30.00	0.06	12.00	0.041	NA	NA	0.180	99.0
101.4	Arcata Bay/Jolly Giant Slough	PAC	04/18/96	508.0	ND	0.03	2.38	21.60	0.43	51.20	0.057	1.61	ND	0.192	32.0
101.8	Humboldt Bay/Halberson Shoreline	GLY	04/17/96	147.0	2.0	0.05	0.61	1.10	0.11	51.40	0.003	0.64	0.11	0.023	13.0
101.8	Humboldt Bay/Halberson Shoreline	PAC	04/17/96	714.0	ND	0.03	2.44	17.10	2.96	48.20	0.019	2.27	ND	0.073	30.0
101.8	Humboldt Bay/Halberson Shoreline	RBM-s	04/17/96	612.0	1.2	0.33	1.98	1.50	0.35	8.10	0.031	1.48	0.19	0.017	37.0
102.6	Humboldt Bay/J Street	GLY	04/17/96	423.0	0.1	0.06	2.81	1.90	0.64	7.50	0.018	2.25	0.12	0.019	23.0
102.6	Humboldt Bay/J Street	PAC	04/17/96	361.0	0.7	0.06	1.81	24.10	0.47	24.00	0.051	1.23	ND	0.089	31.0
102.6	Humboldt Bay/J Street	RBM	04/17/96	263.0	1.3	0.72	4.94	0.70	0.19	3.80	0.027	3.60	0.22	0.004	35.0
102.6	Humboldt Bay/J Street	RBM-s	04/17/96	599.0	1.7	0.33	4.11	1.00	0.44	8.00	0.047	3.39	0.31	0.013	43.0
102.6	Humboldt Bay/J Street	TCM	04/10/97	280.0	NA	0.75	1.30	2.60	0.27	4.10	0.034	NA	NA	0.005	18.0
102.7	Humboldt Bay/H Street	GLY	04/17/96	54.0	10.1	0.30	2.32	13.40	1.86	3.40	0.018	1.95	0.05	0.165	58.0
102.7	Humboldt Bay/H Street	PAC	04/17/96	457.0	0.5	0.16	2.55	38.30	11.73	46.40	0.037	1.63	ND	0.048	57.0
102.7	Humboldt Bay/H Street	RBM-s	04/17/96	713.0	2.8	0.25	1.84	3.60	18.09	23.70	0.022	1.52	0.32	0.027	77.0
103.3	Humboldt Bay/E Street	TCM	04/10/97	350.0	NA	0.75	2.30	2.30	0.25	4.60	0.034	NA	NA	0.003	25.0
103.5	Humboldt Bay/Clark Slough	TCM	04/10/97	290.0	NA	0.68	1.20	2.60	0.23	4.90	0.028	NA	NA	0.014	24.0
202.0	Bodega Head	RCM	09/11/95	26.0	1.6	1.50	0.60	4.50	0.15	1.10	0.021	0.76	0.26	0.009	24.0
202.0	Bodega Head	RCM	08/29/96	28.0	1.6	1.40	0.40	0.94	0.14	1.00	0.025	0.39	0.38	0.005	22.0
203.0	Tomales Bay	RBM	04/14/97	310.0	NA	0.68	1.60	2.00	0.07	11.00	0.040	NA	NA	0.010	18.0
203.0	Tomales Bay	TCM	04/14/97	240.0	NA	0.60	1.10	1.40	0.20	30.00	0.036	NA	NA	0.015	29.0
203.1	Tomales Bay/Vincent Landing	TCM	04/14/97	48.0	NA	0.72	0.67	1.70	0.16	1.60	0.033	NA	NA	0.011	31.0
203.3	Tomales Bay/Walker Creek Mouth 1	TCM	04/14/97	210.0	NA	0.75	0.87	1.70	0.22	3.60	0.047	NA	NA	0.028	33.0
203.5	Tomales Bay/Walker Creek Mouth 2	TCM	04/14/97	180.0	NA	0.73	0.82	1.70	0.22	3.40	0.044	NA	NA	0.011	34.0
203.7	Tomales Bay/Walker Creek Mouth 3	TCM	04/14/97	210.0	NA	0.70	1.00	1.70	0.24	4.60	0.055	NA	NA	0.016	29.0
203.9	Tomales Bay/Nicks Cove	TCM	04/14/97	93.0	NA	0.80	0.81	2.00	0.22	2.00	0.036	NA	NA	0.011	31.0
205.0	Bodega Harbor/Spud Point Marina	TCM	03/21/97	210.0	NA	1.60	0.80	2.80	0.53	2.10	0.054	NA	NA	ND	50.0
205.1	Bodega Bay/Porto Bodega	RBM	03/21/97	150.0	NA	0.77	0.72	5.40	0.10	2.00	0.054	NA	NA	0.003	40.0
205.3	Bodega Bay/Mason's Marina	TCM	03/21/97	250.0	NA	0.89	1.10	2.50	0.37	2.50	0.048	NA	NA	0.004	38.0
205.5	Bodega Bay/Back Marsh	RBM	03/21/97	310.0	NA	0.75	1.10	2.00	0.14	2.70	0.049	NA	NA	0.004	33.0
210.1	Walker Creek/Mine Creek	TFC	01/17/97	NA	NA	NA	NA	NA	NA	NA	0.790	NA	NA	NA	NA
210.3	Walker Creek/mid stream	TFC	01/17/97	NA	NA	NA	NA	NA	NA	NA	0.220	NA	NA	NA	NA
211.1	Lagunitas Creek/Bridge 1	TFC	01/17/97	NA	NA	NA	NA	NA	NA	NA	0.087	NA	NA	NA	NA
211.3	Lagunitas Creek/Bridge 2	TFC	01/17/97	NA	NA	NA	NA	NA	NA	NA	0.082	NA	NA	NA	NA
280.0	Russian River/S Goat Rock	RCM	03/21/97	280.0	NA	1.50	1.90	1.70	0.15	4.40	0.039	NA	NA	0.015	32.0
329.0	Guadalupe Creek/Almaden Expressway	TFC	12/16/96	NA	NA	NA	NA	NA	NA	NA	0.090	NA	NA	NA	NA
329.2	Guadalupe Creek/Hicks Road	TFC	12/16/96	NA	NA	NA	NA	NA	NA	NA	0.110	NA	NA	NA	NA
329.4	Alamitos Creek/Almaden Road	TFC	12/16/96	NA	NA	NA	NA	NA	NA	NA	0.110	NA	NA	NA	NA

\* RCM = Resident California Mussel

TCM = Transplanted California Mussel

RBM = Resident Bay Mussel (s = small size)

TFC = Transplanted Freshwater Clam

OYS = Oyster (*Crassostrea gigas*)

PAC = Shore Crab (*Pachygrapsus crassipes*)

GLY = Sand Worm (*Glycera* spp.)

NA = Not Analyzed

ND = Not Detected

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Station Number	Station Name	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese	Mercury	Nickel	Selenium	Silver	Zinc
400.6	Santa Cruz/Natural Bridges	RCM	06/09/97	150.0	NA	0.77	0.53	2.60	0.13	1.80	0.015	NA	NA	0.021	27.0
400.7	Santa Cruz Harbor/Inner	TCM	03/25/96	240.0	NA	1.80	12.00	9.70	0.62	3.30	0.063	NA	NA	0.012	71.0
401.0	Santa Cruz Harbor	TCM	03/25/96	170.0	NA	1.20	2.20	7.50	0.51	1.90	0.055	NA	NA	0.010	54.0
403.0	Elkhorn Slough/Highway 1 Bridge	TCM	03/12/97	270.0	NA	1.70	1.50	2.60	0.33	2.70	0.046	1.50	NA	0.009	34.0
404.0	Sandholdt Bridge	TCM	02/16/96	220.0	NA	1.40	0.90	1.60	0.33	12.00	0.050	NA	NA	0.002	43.0
404.0	Sandholdt Bridge	TCM	03/04/97	330.0	0.8	1.10	1.20	2.30	0.42	3.60	0.046	1.10	0.29	0.005	34.0
414.0	Pacific Grove	RCM	03/07/96	82.0	NA	1.20	0.91	1.00	0.24	1.40	0.038	NA	NA	0.026	32.0
414.0	Pacific Grove	RCM	04/25/97	28.0	1.5	0.98	0.36	2.30	0.25	0.85	0.018	0.55	0.08	0.011	29.0
420.3	Monterey Harbor/C G Jetty/Inner	TCM	02/13/96	NA	NA	NA	NA	NA	6.90	NA	NA	NA	NA	NA	NA
420.4	Monterey Harbor/C G Jetty/Inner 2	TCM	02/13/96	NA	NA	NA	NA	NA	2.00	NA	NA	NA	NA	NA	NA
420.5	Monterey Harbor/C G Jetty/Inner 3	TCM	02/13/96	NA	NA	NA	NA	NA	1.80	NA	NA	NA	NA	NA	NA
421.0	Monterey Harbor/Slag Pile	TCM	02/13/96	NA	NA	NA	NA	NA	10.00	NA	NA	NA	NA	NA	NA
601.0	LA Harbor/National Steel	TCM	01/18/96	120.0	NA	1.40	1.70	3.30	0.91	3.30	0.037	NA	NA	0.012	46.0
601.0	LA Harbor/National Steel	TCM	01/28/97	120.0	1.2	0.75	0.39	2.70	0.97	3.10	0.029	NA	NA	0.008	51.0
616.0	LA Harbor/Consolidated Slip	TCM	01/18/96	75.0	NA	1.50	2.70	3.70	1.10	3.10	0.032	NA	NA	0.016	44.0
616.0	LA Harbor/Consolidated Slip	TCM	01/28/97	90.0	1.1	0.80	0.60	2.10	1.00	2.60	0.023	NA	NA	0.007	43.0
648.0	Malibu	RBM	01/17/96	170.0	NA	0.46	1.60	1.10	0.09	3.60	0.011	NA	NA	0.016	17.0
648.0	Malibu	RCM	11/25/96	140.0	NA	0.33	0.37	1.60	0.11	2.90	0.009	NA	NA	0.023	22.0
650.0	Santa Monica	RBM	01/17/96	190.0	NA	0.17	0.87	1.10	0.22	3.00	0.015	NA	NA	0.081	19.0
650.0	Santa Monica	RCM	11/25/96	170.0	NA	0.09	0.70	1.90	0.55	3.10	0.012	NA	NA	0.410	26.0
662.0	Royal Palms	RCM	01/18/96	63.0	NA	0.56	2.10	1.30	0.29	1.90	0.024	NA	NA	0.310	29.0
662.0	Royal Palms	RCM	11/25/96	58.0	NA	0.34	0.99	1.20	0.31	1.90	0.025	NA	NA	0.270	29.0
664.0	Cabrillo Beach	RCM	01/18/96	82.0	NA	0.51	2.00	1.40	0.30	2.10	0.026	NA	NA	0.720	27.0
708.0	Anaheim Bay/Navy Marsh	TCM	01/27/97	300.0	1.5	0.69	1.70	1.90	0.82	4.50	0.018	1.40	0.28	0.008	37.0
713.0	Huntington Harbour/Edinger Street	TCM	01/17/96	110.0	1.1	1.40	0.89	1.40	0.52	2.50	0.031	1.10	0.24	0.009	41.0
713.0	Huntington Harbour/Edinger Street	TCM	01/27/97	170.0	1.3	0.93	0.55	2.10	0.89	3.90	0.036	0.57	0.25	0.007	49.0
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/17/96	100.0	1.4	1.80	1.00	2.60	1.30	4.10	0.036	1.30	0.27	0.010	76.0
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/27/97	180.0	1.3	0.74	0.65	2.90	1.50	5.30	0.025	0.63	0.29	0.008	62.0
723.4	Newport Bay/Turning Basin	TCM	01/17/96	81.0	1.2	1.50	1.00	3.00	0.58	2.80	0.038	1.00	0.20	0.006	50.0
724.0	Newport Bay/Highway 1 Bridge	TCM	01/17/96	180.0	1.4	1.30	0.95	2.60	0.44	3.00	0.120	0.92	0.29	0.006	53.0
725.0	Newport Bay/Crows Nest	TCM	01/17/96	86.0	1.2	1.40	2.20	13.00	0.97	3.80	0.076	2.20	0.20	0.008	84.0
725.0	Newport Bay/Crows Nest	TCM	01/27/97	110.0	1.2	0.82	0.31	9.70	0.63	3.30	0.051	0.25	0.27	0.003	64.0
726.4	Newport Bay/Rhine Channel/End	TCM	01/17/96	52.0	1.3	1.60	1.60	15.00	0.81	7.30	0.078	1.80	0.24	0.007	100.0
726.4	Newport Bay/Rhine Channel/End	TCM	01/27/97	81.0	1.3	1.20	2.00	15.00	0.73	6.00	0.057	1.80	0.19	ND	77.0
726.6	Newport Bay/Mariners Drive	TCM	01/27/97	89.0	1.1	1.10	0.73	0.79	0.29	3.30	0.024	0.86	0.22	0.001	35.0
740.0	Dana Point Harbor/Boat Yard	TCM	01/27/97	220.0	1.3	0.76	0.87	8.90	0.44	1.90	0.030	0.75	ND	ND	51.0
750.0	Oceanside	RCM	09/30/96	260.0	0.9	0.23	0.89	2.30	0.12	3.30	0.009	0.65	0.36	0.009	22.0
882.2	24Th St Maritime Terminal/North	TCM	01/18/96	220.0	NA	1.40	1.10	9.10	0.69	8.80	0.047	NA	NA	0.052	85.0
882.7	San Diego Bay/Sampson Street Pier	TCM	01/18/96	89.0	NA	1.20	1.90	7.60	0.58	2.40	0.048	NA	NA	0.036	60.0
883.1	San Diego Bay/Chollas Creek	TCM	01/28/97	130.0	1.2	1.10	0.91	3.60	1.20	2.50	0.035	0.71	0.22	0.017	54.0

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