

TABLE 1
 \ State Mussel Watch Program
 Summary of 1997-98 Data: Trace Elements in Mussels and Clams
 (ppm, wet weight)

Station Silver Number Selenium	Station Name Zinc	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese Mercury	Nickel	
3.0 NA	Crescent City/Control 0.004 21.8	RCM	04/29/98	57.4	NA	0.72	1.14	1.00	0.13	1.86	0.080	1.25
10.0 NA	Trinidad Head 0.003 21.6	RCM	04/29/98	102.4	NA	0.61	0.79	1.07	0.16	2.42	0.077	0.64
202.0 NA	Bodega Head 0.008 18.2	RCM	10/15/97	67.8	NA	1.26	1.39	1.04	0.12	1.40	0.042	1.16
203.0 NA	Tomales Bay 0.003 11.8	RCM	04/07/98	277.0	NA	0.41	1.02	1.10	0.09	12.53	0.040	1.21
203.0 NA	Tomales Bay NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.031	NA
203.1 NA	Tomales Bay/Vincent Landing NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.047	NA
203.3 NA	Tomales Bay/Walker Creek Mouth 1 NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.034	NA
203.4 NA	Tomales Bay/Walker Creek Mouth 4 NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.030	NA
203.5 NA	Tomales Bay/Walker Creek Mouth 2 NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.037	NA
203.8 NA	Tomales Bay/Marshall 0.006 24.9	TCM	04/07/98	265.9	NA	0.81	1.19	1.59	0.21	9.47	0.043	1.53
203.9 NA	Tomales Bay/Nicks Cove NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.043	NA
210.5 NA	Walker Creek/USGS Stream Gauge NA NA	TFC	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.167	NA
210.7 NA	Walker Creek/u/s HWY 1 NA NA	TFC	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.076	NA
220.0 NA	Napa River/Tubbs Lane 0.009 15.5	TFC	05/21/98	38.8	NA	0.07	1.44	4.20	0.03	3.46	0.052	0.90
220.1 NA	Napa River/Larkmead Lane 0.013 14.6	TFC	05/21/98	37.0	NA	0.06	1.88	5.04	0.03	3.12	0.077	0.55
220.3 NA	Napa River/Pope Street 0.014 20.3	TFC	05/21/98	113.0	NA	0.07	1.43	4.46	0.06	6.28	0.060	0.85
220.5 NA	Napa River/Yountville Cross Road 0.011 18.0	TFC	05/21/98	24.6	NA	0.08	1.18	4.93	0.02	3.53	0.056	0.59
224.0 NA	Sonoma Creek/Aqua Caliente Road 0.005 15.2	TFC	05/21/98	63.3	NA	0.07	1.34	4.37	0.03	4.05	0.054	0.89
224.1 NA	Sonoma Creek/Petaluma Road 0.008 16.4	TFC	05/21/98	48.3	NA	0.08	1.55	4.20	0.03	3.77	0.053	1.02
224.3 NA	Sonoma Creek/Watmaugh Road 0.008 14.3	TFC	05/21/98	57.1	NA	0.07	2.33	6.34	0.05	3.70	0.077	0.65
329.1 NA	Arroyo Calero/Harry Road NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.052	NA
329.2 NA	Guadalupe Creek/Hicks Road NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.082	NA
329.3 NA	Alamitos Creek/Bubblingwell Place NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.117	NA
329.4 NA	Alamitos Creek/Almaden Road NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.152	NA
329.5 NA	Guadalupe River/Capitol Expressway NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.105	NA

336.0	J. Fitzgerald	RCM	04/08/98	129.6	NA	0.92	1.34	0.93	0.20	1.77	0.034	0.88
NA	0.093 19.7											
401.7	Pajaro River/Thurwacker Bridge	TFC	09/04/98	13.0	NA	0.11	0.72	12.11	0.02	3.13	0.034	0.21
NA	0.043 11.2											
402.6	Corralitos Creek/u/s Pajaro River	TFC	09/04/98	6.8	NA	0.08	0.58	6.75	0.02	2.26	0.021	0.09
NA	0.017 9.8											
402.7	Pescadero Creek/u/s Pajaro River	TFC	09/04/98	32.4	NA	0.09	0.42	6.84	0.02	8.68	0.018	0.21
NA	0.018 9.5											
402.9	Pajaro River/Chittenden	TFC	09/04/98	61.5	NA	0.06	0.56	7.09	0.03	9.38	0.017	0.63
NA	0.016 9.6											
403.1	San Benito River/u/s Pajaro River	TFC	09/04/98	288.5	NA	0.45	4.22	36.50	0.15	18.28	0.068	2.37
NA	0.100 27.8											
403.3	Pajaro River/Betabel Road	TFC	09/04/98	13.4	NA	0.07	0.47	11.43	0.02	4.28	0.025	0.30
NA	0.026 12.3											
403.4	Llagas Creek/Bloomfield Bridge	TFC	09/04/98	98.8	NA	0.08	0.62	5.93	0.04	28.69	0.015	0.63
NA	0.016 8.5											
403.8	Pacheco Creek/u/s Pajaro River	TFC	09/04/98	151.8	NA	0.08	0.93	10.24	0.11	4.99	0.039	0.65
NA	0.025 13.9											
403.9	Tequisquita Slough/u/s Pajaro R	TFC	09/04/98	102.4	NA	0.08	0.65	7.26	0.05	4.33	0.020	0.47
NA	0.021 11.8											
404.0	Sandholdt Bridge	RCM	08/31/98	42.1	1.1	0.17	0.86	1.31	0.09	4.96	0.010	0.88
NA	0.005 23.9											
414.0	Pacific Grove	RCM	07/16/98	7.3	NA	1.42	0.38	0.61	0.46	0.45	0.026	0.37
NA	0.018 30.6											
424.7	Clear Creek	TFC	09/04/98	2.8	NA	0.09	0.66	7.71	0.01	2.80	0.022	0.16
NA	0.021 10.0											
424.9	San Benito River/Hernandez Road	TFC	09/04/98	49.3	NA	0.08	0.78	8.91	0.03	12.42	0.065	1.01
NA	0.024 11.6											
450.0	Point Conception	RCM	11/04/97	22.5	NA	0.68	0.96	0.88	0.19	0.51	0.030	0.70
NA	0.317 24.4											

* RCM = Resident California Mussel
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Summary of 1997-98 Data: Trace Elements in Mussels and Clams
(ppm, wet weight)

Station Number	Station Name	Zinc	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese Mercury	Nickel	
601.0	LA Harbor/National Steel		TCM	03/24/98	58.5	1.6	1.32	0.72	1.79	0.88	4.15	0.084	0.34
0.08	0.008	41.8											
616.0	LA Harbor/Consolidated Slip		TCM	03/24/98	90.8	0.8	1.25	1.20	2.81	1.38	6.24	0.050	0.63
0.27	0.014	46.7											
617.9	Cabrillo Beach/Ocean Side		RCM	03/24/98	138.6	NA	0.31	0.88	1.62	0.41	3.66	0.028	0.59
NA	0.586	30.7											
618.0	LA Harbor/Angels Gate		RBM	11/04/97	90.9	1.5	0.10	0.44	1.09	0.14	2.45	0.010	0.23
NA	0.003	15.6											
648.0	Malibu		RCM	11/03/97	67.5	1.5	0.31	0.41	0.79	0.10	2.17	0.012	0.27
NA	0.015	15.6											
650.0	Santa Monica		RCM	11/03/97	77.3	NA	0.14	0.78	2.03	0.51	3.14	0.027	0.46
NA	0.454	22.7											
662.0	Royal Palms		RCM	03/24/98	55.1	NA	0.32	5.70	1.15	0.31	2.95	0.034	3.51
NA	0.547	22.5											
708.0	Anaheim Bay/Navy Marsh		TCM	03/24/98	131.4	1.5	0.28	1.83	1.79	0.40	3.41	0.025	0.88
0.29	0.500	31.1											
713.0	Huntington Harbour/Edinger Street		TCM	03/24/98	135.6	1.4	1.04	0.68	3.31	0.94	5.35	0.030	0.32
0.29	0.010	59.3											
715.0	Huntington Harbour/Warner Ave Brdg		TCM	03/24/98	46.1	1.4	0.75	0.71	1.68	0.96	5.35	0.026	0.43
0.30	0.010	47.6											
722.0	Newport Bay/Police Docks		RBM	03/24/98	211.7	1.1	1.14	0.66	2.04	0.61	6.40	0.034	0.34
0.27	0.007	56.2											
723.4	Newport Bay/Turning Basin		RBM	03/24/98	95.7	0.8	0.61	2.22	4.64	0.39	13.00	0.027	1.39
0.22	0.005	36.9											
724.0	Newport Bay/Highway 1 Bridge		TCM	03/24/98	150.0	1.4	0.87	1.40	2.16	0.50	6.75	0.031	0.79
0.31	0.005	40.0											
725.0	Newport Bay/Crows Nest		TCM	03/24/98	15.4	1.6	0.12	0.08	1.83	0.08	0.98	0.009	0.04
0.31	0.001	8.8											
726.4	Newport Bay/Rhine Channel/End		TCM	03/24/98	57.5	1.4	0.79	0.54	11.30	0.45	6.59	0.044	0.19
NA	0.007	60.0											
726.6	Newport Bay/Mariners Drive		TCM	03/24/98	69.0	1.7	0.84	0.46	1.47	0.46	5.42	0.027	0.31
0.25	0.005	33.4											
750.0	Oceanside		RCM	11/03/97	98.3	0.8	0.14	0.84	0.87	0.08	2.87	0.012	0.38
0.30	0.005	14.2											
883.3	San Diego Bay/Chollas Creek/End		TCM	03/25/98	46.2	1.4	0.68	0.67	2.60	1.23	5.41	0.032	0.30
0.26	0.015	59.8											
885.3	San Diego Bay/7th Street Ch/Mid		TCM	03/25/98	71.4	1.4	0.71	0.51	4.03	1.89	6.73	0.030	0.19
NA	0.030	67.2											
887.0	San Diego Bay/Evans Street		TCM	03/25/98	84.8	1.5	1.00	0.56	3.53	1.36	6.63	0.049	0.20
0.31	0.028	61.4											
893.0	San Diego Bay/Laurel Street		TCM	03/25/98	53.6	1.3	0.77	0.80	1.86	1.13	2.65	0.043	0.31
0.29	0.013	43.8											
894.1	SD Bay/Harbor Is/E Basin/Storm Dr2		TCM	03/25/98	107.3	1.4	0.72	0.70	6.89	1.26	5.45	0.058	0.18
0.55	0.032	75.3											
898.5	SD Bay/N Island/Aircraft Platform		TCM	03/25/98	85.2	1.7	0.69	0.59	2.49	1.05	4.64	0.039	0.23
NA	0.020	52.9											
899.2	San Diego Bay/Shelter Island		TCM	03/25/98	139.7	1.4	0.71	1.12	2.45	0.78	2.85	0.032	0.56
0.35	0.012	46.5											

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TABLE 2
State Mussel Watch Program
Summary of 1997-98 Data: Trace Elements in Mussels, Clams, and Sediment
(ppm, dry weight)

Station Silver Number Selenium	Station Name Zinc	Sample Type*	Sample Date	Aluminum	Arsenic	Cadmium	Chromium	Copper	Lead	Manganese Mercury	Nickel	
3.0 NA	Crescent City/Control 0.027 147.0	RCM	04/29/98	388.0	NA	4.84	7.69	6.7	0.86	12.6	0.541	8.4
10.0 NA	Trinidad Head 0.020 136.0	RCM	04/29/98	644.0	NA	3.86	4.97	6.8	1.03	15.2	0.483	4.0
202.0 NA	Bodega Head 0.047 105.0	RCM	10/15/97	392.0	NA	7.28	8.04	6.0	0.68	8.1	0.242	6.7
203.0 NA	Tomales Bay 0.021 74.0	RCM	04/07/98	1742.0	NA	2.60	6.43	6.9	0.58	78.8	0.251	7.6
203.0 NA	Tomales Bay NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.170	NA
203.1 NA	Tomales Bay/Vincent Landing NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.287	NA
203.3 NA	Tomales Bay/Walker Creek Mouth 1 NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.209	NA
203.4 NA	Tomales Bay/Walker Creek Mouth 4 NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.208	NA
203.5 NA	Tomales Bay/Walker Creek Mouth 2 NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.302	NA
203.8 NA	Tomales Bay/Marshall 0.038 149.0	TCM	04/07/98	1592.0	NA	4.85	7.14	9.5	1.25	56.7	0.257	9.1
203.9 NA	Tomales Bay/Nicks Cove NA NA	TCM	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.235	NA
210.5 NA	Walker Creek/USGS Stream Gauge NA NA	TFC	04/07/98	NA	NA	NA	NA	NA	NA	NA	1.357	NA
210.7 NA	Walker Creek/u/s HWY 1 NA NA	TFC	04/07/98	NA	NA	NA	NA	NA	NA	NA	0.719	NA
220.0 NA	Napa River/Tubbs Lane 0.092 155.0	TFC	05/21/98	388.0	NA	0.74	14.41	42.0	0.26	34.6	0.522	9.1
220.1 NA	Napa River/Larkmead Lane 0.132 147.0	TFC	05/21/98	374.0	NA	0.60	18.94	50.9	0.29	31.5	0.778	5.6
220.3 NA	Napa River/Pope Street 0.117 175.0	TFC	05/21/98	974.0	NA	0.63	12.34	38.4	0.53	54.1	0.521	7.3
220.5 NA	Napa River/Yountville Cross Road 0.086 145.0	TFC	05/21/98	198.0	NA	0.63	9.48	39.8	0.19	28.5	0.454	4.8
224.0 NA	Sonoma Creek/Aqua Caliente Road 0.060 165.0	TFC	05/21/98	688.0	NA	0.77	14.61	47.5	0.30	44.0	0.581	9.7
224.1 NA	Sonoma Creek/Petaluma Road 0.083 166.0	TFC	05/21/98	488.0	NA	0.76	15.63	42.5	0.35	38.1	0.534	10.3
224.3 NA	Sonoma Creek/Watmaugh Road 0.085 149.0	TFC	05/21/98	595.0	NA	0.75	24.31	66.1	0.51	38.5	0.802	6.8
329.1 NA	Arroyo Calero/Harry Road NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.613	NA
329.2 NA	Guadalupe Creek/Hicks Road NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.749	NA
329.3 NA	Alamitos Creek/Bubblingwell Place NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	1.183	NA
329.4 NA	Alamitos Creek/Almaden Road NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	1.289	NA
329.5 NA	Guadalupe River/Capitol Expressway NA NA	TFC	05/21/98	NA	NA	NA	NA	NA	NA	NA	0.798	NA

336.0	J. Fitzgerald	RCM	04/08/98	900.0	NA	6.41	9.28	6.4	1.36	12.3	0.236	6.1
NA	0.649 137.0											
401.7	Pajaro River/Thurwacker Bridge	TFC	09/04/98	98.0	NA	0.82	5.42	91.1	0.13	23.5	0.256	1.6
NA	0.325 84.0											
402.6	Corralitos Creek/u/s Pajaro River	TFC	09/04/98	53.0	NA	0.59	4.50	52.3	0.14	17.5	0.160	0.7
NA	0.129 76.0											
402.7	Pescadero Creek/u/s Pajaro River	TFC	09/04/98	331.0	NA	0.92	4.31	69.8	0.22	88.6	0.179	2.1
NA	0.187 97.0											
402.9	Pajaro River/Chittenden	TFC	09/04/98	500.0	NA	0.50	4.59	57.6	0.26	76.3	0.136	5.1
NA	0.130 78.0											
403.1	San Benito River/u/s Pajaro River	TFC	09/04/98	1288.0	NA	2.00	18.82	163.0	0.65	81.6	0.305	10.6
NA	0.445 124.0											
403.3	Pajaro River/Betabel Road	TFC	09/04/98	76.0	NA	0.38	2.66	64.9	0.09	24.3	0.144	1.7
NA	0.149 70.0											
403.4	Llagas Creek/Bloomfield Bridge	TFC	09/04/98	1062.0	NA	0.85	6.62	63.7	0.43	308.5	0.167	6.8
NA	0.169 91.0											
403.8	Pacheco Creek/u/s Pajaro River	TFC	09/04/98	992.0	NA	0.53	6.09	66.9	0.71	32.6	0.257	4.3
NA	0.163 91.0											
403.9	Tequisquita Slough/u/s Pajaro R	TFC	09/04/98	839.0	NA	0.63	5.32	59.5	0.45	35.5	0.162	3.8
NA	0.175 97.0											
404.0	Sandholdt Bridge	RCM	08/31/98	218.0	5.9	0.86	4.47	6.8	0.47	25.7	0.050	4.6
NA	0.027 124.0											
414.0	Pacific Grove	RCM	07/16/98	58.0	NA	11.27	3.01	4.8	3.69	3.6	0.204	2.9
NA	0.144 243.0											
424.7	Clear Creek	TFC	09/04/98	25.0	NA	0.83	5.98	69.4	0.10	25.2	0.195	1.5
NA	0.190 90.0											
424.9	San Benito River/Hernandez Road	TFC	09/04/98	379.0	NA	0.60	5.98	68.6	0.20	95.5	0.501	7.8
NA	0.185 89.0											
450.0	Point Conception	RCM	11/04/97	154.0	NA	4.64	6.58	6.1	1.29	3.5	0.205	4.8
NA	2.172 167.0											

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