

## **APPENDIX M**

### **Summary of 1993-95 Data Organic Chemicals in Mussels and Sediment (ppb, dry weight)**

## APPENDIX M

### State Mussel Watch Program

#### Summary of 1993-95 Data: Organic Chemicals in Mussels and Sediment (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date**	Aldrin	Chlor-ben-side	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal	Diaz-inon
10.0	Trinidad Head	RCM	10/14/93	ND	ND	ND	1.3	ND	ND	ND	ND	ND	1.3	ND	ND	ND
10.0	Trinidad Head	RCM	11/28/94	ND	NA	ND	1.1	ND	ND	ND	ND	ND	1.1	ND	ND	ND
100.0	Mad River Slough	TCM	02/24/94	ND	ND	ND	2.2	ND	1.3	ND	ND	5.3	8.8	ND	ND	ND
103.0	Eureka Channel	TCM	02/24/94	ND	ND	ND	2.1	ND	1.2	ND	ND	4.2	7.5	ND	ND	ND
202.0	Bodega Head	RCM	09/16/93	ND	ND	ND	2.0	ND	1.0	ND	ND	ND	3.0	ND	ND	ND
202.0	Bodega Head	RCM	09/19/94	ND	NA	ND	1.9	ND	ND	ND	ND	ND	1.9	ND	ND	ND
302.0	Point Pinole	TCM	02/02/82	ND	NA	ND	21.9	1.2	8.8	16.6	16.6	1.1	66.2	ND	ND	ND
308.0	San Francisco Bay/Hunter's Point	TCM	01/15/88	ND	NA	1.2	31.3	1.6	7.6	18.5	18.5	1.4	80.0	ND	ND	ND
309.0	San Mateo Bridge/8B	TCM	02/12/85	ND	NA	ND	23.7	1.3	8.1	10.6	10.6	1.6	55.9	ND	2.6	ND
313.0	San Francisco Bay/near Redwood Cr	TCM	02/12/85	ND	NA	1.2	29.9	2.2	10.5	21.4	21.4	1.2	87.7	ND	2.0	ND

  

Station Number	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMS	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dicofol drin	Diel-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Endo-	Total Endo-sulfan	Endrin	Ethion	alpha-HCH
10.0	ND	ND	ND	3.8	ND	ND	NA	ND	3.8	ND	ND	4.9	ND	ND	ND	ND	ND	ND	4.8
10.0	ND	ND	ND	3.2	ND	ND	NA	ND	3.2	ND	ND	3.0	ND	ND	ND	ND	ND	ND	3.9
100.0	ND	ND	ND	4.2	ND	ND	NA	ND	4.2	ND	ND	7.4	ND	ND	ND	ND	ND	ND	1.5
103.0	ND	ND	ND	6.5	ND	ND	NA	ND	6.5	ND	ND	3.7	ND	ND	ND	ND	ND	ND	1.6
202.0	ND	ND	ND	6.4	ND	ND	NA	ND	6.4	ND	ND	7.1	ND	ND	ND	ND	ND	ND	2.9
202.0	ND	ND	ND	5.0	ND	ND	NA	ND	5.0	ND	ND	6.7	ND	ND	ND	ND	ND	ND	1.4
302.0	12.4	54.5	ND	55.5	ND	10.0	NA	6.2	139.0	ND	ND	27.2	2.0	ND	ND	2.0	ND	ND	3.6
308.0	21.4	62.9	5.8	115.0	5.2	39.0	NA	11.6	261.0	ND	ND	55.7	2.0	ND	ND	2.0	ND	ND	1.9
309.0	18.9	66.9	ND	46.5	ND	6.3	NA	ND	139.0	ND	ND	133.0	1.6	ND	ND	1.6	ND	ND	3.6
313.0	17.0	58.8	ND	65.3	ND	8.7	NA	5.4	155.0	ND	ND	108.0	1.9	ND	ND	1.9	ND	ND	3.0

  

Station Number	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxo-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	Phenol	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene	Tri-butyl-tin
10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	11.0	ND	11.0	ND	ND	ND	ND
100.0	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
103.0	ND	ND	0.8	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
202.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
202.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	28.8	ND	28.8	ND	ND	ND	ND
302.0	ND	ND	2.0	ND	1.5	ND	ND	ND	ND	ND	NA	58.5	195.0	28.3	282.0	NA	ND	ND	NA
308.0	ND	ND	2.0	ND	1.3	ND	ND	ND	ND	3.9	NA	52.4	2281.0	640.0	2970.0	NA	ND	ND	NA
309.0	ND	ND	6.0	ND	2.7	ND	ND	ND	ND	2.5	NA	ND	207.0	59.6	267.0	NA	ND	ND	NA
313.0	ND	ND	6.0	ND	3.1	ND	ND	ND	ND	4.0	NA	62.7	287.0	60.0	410.0	NA	ND	ND	NA

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

SED = Sediment  
 NA = Not Analyzed  
 ND = Not Detected  
 \*\* Samples with a collection date prior to 1993 are archive samples.

## APPENDIX M (continued)

### State Mussel Watch Program

Summary of 1993-95 Data: Organic Chemicals in Mussels and Sediment (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date**	Aldrin	Chlorobenzene	alpha-Chlorodene	cis-Chlorodene	gamma-Chlorodene	trans-Chlorodene	cis-Nonachlor	trans-Nonachlor	Oxy-chlorodene	Total Chlorodene	Chlorpyrifos	Dacthal	Diazinon
313.0	San Francisco Bay/near Redwood Cr	TCM	01/15/88	ND	NA	1.5	31.6	2.3	8.6	23.2	23.2	1.6	92.0	ND	3.7	ND
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/18/82	ND	NA	1.8	44.6	2.3	18.3	29.1	29.1	3.3	129.0	ND	4.6	ND
321.0	Dumbarton Bridge/Channel Marker 14	TCM	02/12/85	ND	NA	1.0	29.5	1.5	9.3	19.7	19.7	1.9	82.7	ND	2.7	ND
321.0	Dumbarton Bridge/Channel Marker 14	TCM	01/15/88	ND	NA	ND	23.7	ND	6.9	12.3	12.3	1.4	56.6	ND	2.6	ND
404.0	Sandholdt Bridge	TCM	03/07/94	ND	ND	ND	31.0	ND	28.0	16.0	24.0	1.7	100.7	29.0	230.0	ND
404.0	Sandholdt Bridge	TCM	02/22/95	ND	NA	1.4	30.8	1.2	15.4	35.9	35.9	1.3	122.0	17.4	137.0	ND
414.0	Pacific Grove	RCM	04/14/94	ND	ND	ND	2.4	ND	1.9	ND	1.2	ND	5.5	ND	ND	ND
414.0	Pacific Grove	RCM	04/19/95	ND	NA	ND	2.8	ND	ND	2.2	2.2	ND	7.3	ND	ND	ND
420.0	Monterey Harbor/Coast Guard Jetty	TCM	05/26/94	ND	ND	ND	3.3	ND	2.0	ND	ND	ND	5.3	ND	ND	ND
507.3	Mugu Lagoon/Calleguas Creek	TCM	02/08/94	ND	ND	3.2	72.0	1.9	56.0	32.0	51.0	3.2	219.3	80.0	480.0	ND

  

Station Number	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMS	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dicofol drin	Diel-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Endo-	Total Endo-sulfan	Endrin	Ethion	alpha-HCH
313.0	8.1	23.9	1.6	59.6	ND	4.3	NA	ND	97.0	ND	ND	42.9	3.1	ND	ND	3.1	ND	ND	1.3
321.0	12.9	45.6	ND	73.7	ND	8.9	NA	7.2	148.0	ND	ND	78.9	4.9	ND	ND	4.9	ND	ND	8.0
321.0	14.8	54.7	ND	61.3	ND	6.3	NA	6.9	144.0	ND	ND	115.0	2.4	ND	ND	2.4	ND	ND	3.3
321.0	5.3	20.3	ND	47.6	ND	4.8	NA	ND	78.0	ND	ND	59.8	2.6	ND	ND	2.6	ND	ND	1.8
404.0	130.0	520.0	43.0	1900.0	200.0	890.0	NA	62.0	3745.0	ND	ND	210.0	9.0	25.0	99.0	133.0	26.0	ND	1.4
404.0	99.7	398.0	42.2	1661.0	203.0	684.0	NA	54.7	3140.0	ND	ND	297.0	6.7	22.3	82.1	111.0	22.1	ND	ND
414.0	ND	ND	ND	24.0	ND	5.0	NA	ND	29.0	ND	ND	5.9	ND	ND	ND	ND	ND	ND	1.3
414.0	ND	ND	ND	28.5	ND	10.0	NA	ND	38.0	ND	ND	12.2	ND	ND	ND	ND	ND	ND	1.2
420.0	ND	ND	ND	22.0	ND	ND	NA	ND	22.0	ND	ND	5.1	ND	ND	ND	ND	ND	ND	4.8
507.3	95.0	420.0	50.0	2500.0	240.0	930.0	NA	49.0	4284.0	ND	ND	36.0	ND	ND	ND	ND	8.3	ND	1.3

  

Station Number	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Heptachlor	Heptachlor-epoxide	Hexachlorobenzene	Methoxy-chlor	Ethyl-parathion	Methyl-parathion	Oxa-diazon	Phenol	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene	Tri-butyl-tin
313.0	ND	ND	18.0	ND	2.5	ND	ND	ND	ND	13.5	NA	ND	242.0	27.8	270.0	NA	ND	ND	NA
321.0	ND	ND	14.0	ND	5.1	ND	ND	ND	ND	5.7	NA	58.1	414.0	51.3	523.0	NA	ND	ND	NA
321.0	ND	ND	7.0	ND	3.0	ND	ND	ND	ND	2.5	NA	ND	239.0	59.2	298.0	NA	ND	ND	NA
321.0	ND	ND	5.0	ND	2.0	ND	ND	ND	ND	7.3	NA	ND	215.0	52.6	268.0	NA	ND	ND	NA
404.0	ND	ND	1.7	ND	2.3	ND	ND	ND	ND	ND	NA	ND	180.0	ND	180.0	ND	ND	850.0	NA
404.0	ND	ND	1.0	ND	3.8	ND	ND	ND	ND	7.3	NA	ND	261.0	18.2	279.0	ND	ND	868.0	NA
414.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
414.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	10.2	ND	10.2	ND	ND	ND	NA
420.0	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
507.3	ND	ND	1.5	ND	7.2	ND	ND	ND	ND	ND	NA	ND	89.0	40.0	129.0	ND	ND	3600.0	NA

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M-3

**APPENDIX M (continued)**

State Mussel Watch Program

Summary of 1993-95 Data: Organic Chemicals in Mussels and Sediment (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	Chlor-ben-side	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal	Diaz-inon
601.0	LA Harbor/National Steel	SED	11/09/93	ND	ND	ND	3.1	ND	4.8	2.0	4.0	ND	13.9	ND	ND	ND
601.0	LA Harbor/National Steel	TCM	02/08/94	ND	ND	ND	23.0	ND	22.0	10.0	18.0	ND	73.0	ND	ND	ND
601.0	LA Harbor/National Steel	TCM	01/31/95	ND	NA	1.3	18.5	ND	10.3	13.3	13.3	1.7	58.4	ND	ND	ND
602.0	LA Harbor/West Basin	TCM	02/08/94	ND	ND	ND	23.0	ND	18.0	9.6	16.0	ND	66.6	ND	ND	ND
605.0	LA Harbor/Cabrillo Pier	SED	11/09/93	ND	ND	ND	ND	ND	ND	ND	2.6	ND	2.6	ND	ND	ND
605.0	LA Harbor/Cabrillo Pier	TCM	02/08/94	ND	ND	ND	11.0	ND	9.4	4.2	8.2	ND	32.8	ND	ND	ND
605.0	LA Harbor/Cabrillo Pier	TCM	01/31/95	ND	NA	1.1	18.0	1.0	6.9	13.1	13.1	1.0	54.2	ND	ND	ND
616.0	LA Harbor/Consolidated Slip	SED	11/09/93	1.4	ND	3.6	24.0	2.2	29.0	10.0	21.0	1.7	92.9	18.0	2.1	ND
616.0	LA Harbor/Consolidated Slip	TCM	02/08/94	ND	ND	2.9	33.0	1.7	30.0	16.0	31.0	ND	114.6	14.0	ND	ND
616.0	LA Harbor/Consolidated Slip	TCM	01/31/95	ND	NA	2.2	26.2	1.8	14.6	18.9	18.9	1.4	84.1	6.2	ND	ND

  

Station Number	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMS	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dicofol drin	Diel-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Endo-	Total Endo-sulfan	Endrin	Ethion	alpha-HCH
601.0	8.5	26.0	6.2	71.0	ND	63.0	NA	ND	175.0	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND
601.0	24.0	83.0	42.0	390.0	ND	20.0	NA	27.0	586.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
601.0	16.8	69.9	28.6	283.0	5.3	31.0	NA	16.2	451.0	ND	ND	10.4	ND	ND	ND	ND	ND	ND	ND
602.0	21.0	85.0	60.0	480.0	4.6	25.0	NA	25.0	700.6	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND
605.0	7.6	17.0	34.0	210.0	ND	4.5	NA	23.0	296.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
605.0	15.0	48.0	110.0	980.0	ND	12.0	NA	77.0	1242.0	ND	ND	3.1	ND	ND	ND	ND	ND	ND	1.1
605.0	12.8	44.8	69.6	557.0	7.7	29.4	NA	46.8	768.0	ND	ND	12.7	ND	ND	ND	ND	ND	ND	ND
616.0	30.0	130.0	11.0	220.0	12.0	79.0	NA	12.0	494.0	ND	ND	13.0	ND	ND	ND	ND	9.4	ND	ND
616.0	30.0	130.0	37.0	410.0	6.0	36.0	NA	29.0	678.0	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND
616.0	20.7	71.4	18.1	229.0	17.5	62.4	NA	11.0	430.0	ND	ND	13.1	ND	ND	ND	ND	ND	ND	ND

  

Station Number	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	Phenol	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene	Tri-butyl-tin
601.0	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	NA	73.0	96.0	180.0	349.0	ND	ND	170.0	350.0
601.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	72.0	520.0	ND	592.0	ND	ND	ND	8200.0
601.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	NA	50.8	481.0	35.7	568.0	ND	ND	124.0	NA
602.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	840.0	ND	840.0	ND	ND	ND	NA
605.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	56.0	ND	56.0	ND	ND	ND	NA
605.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	250.0	ND	250.0	ND	ND	ND	NA
605.0	ND	ND	ND	ND	1.1	ND	ND	ND	ND	5.1	NA	53.2	267.0	ND	320.0	ND	ND	101.0	NA
616.0	ND	ND	ND	ND	7.3	1.0	ND	ND	ND	12.0	NA	130.0	174.0	390.0	694.0	ND	ND	580.0	290.0
616.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4	NA	97.0	500.0	ND	597.0	ND	ND	ND	3900.0
616.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	NA	75.4	337.0	30.2	443.0	ND	ND	320.0	2.6

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel

SED = Sediment

NA = Not Analyzed  
 ND = Not Detected

TCM = Transplanted California Mussel

M-4

### APPENDIX M (continued)

#### State Mussel Watch Program

Summary of 1993-95 Data: Organic Chemicals in Mussels and Sediment (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	Chlorben- side	alpha- Chlor- dene	cis- Chlor- dane	gamma- Chlor- dene	trans- Chlor- dane	cis- Nona- chlor	trans- Nona- chlor	Oxy- chlor- dane	Total Chlor- dane	Chlor- pyrifos	Dacthal	Diaz- inon
618.0	LA Harbor/Angels Gate	RCM	02/08/94	ND	ND	ND	ND	1.0	ND	ND	11.0	1.4	13.4	ND	ND	ND
618.0	LA Harbor/Angels Gate	RCM	01/31/95	ND	NA	1.6	30.3	2.4	10.5	31.2	31.2	1.7	109.0	4.2	ND	ND
648.0	Malibu	RBM	02/07/94	ND	ND	1.3	25.0	2.8	22.0	9.1	27.0	ND	87.2	9.1	ND	ND
648.0	Malibu	RBM	01/31/95	ND	NA	ND	18.3	ND	6.1	18.6	18.6	1.0	62.6	ND	2.2	ND
650.0	Santa Monica	RCM	02/07/94	ND	ND	ND	11.0	ND	9.7	4.5	10.0	1.2	36.4	ND	ND	ND
650.0	Santa Monica	RCM	01/31/95	ND	NA	1.2	30.6	ND	9.3	26.6	26.6	1.4	95.7	ND	3.5	ND
662.0	Royal Palms	RCM	02/08/94	ND	ND	ND	2.8	ND	2.8	1.0	2.8	ND	9.4	ND	ND	ND
662.0	Royal Palms	RCM	01/31/95	ND	NA	ND	9.1	ND	2.3	9.2	9.2	ND	29.9	ND	ND	ND
664.0	Cabrillo Beach	RCM	11/11/94	ND	NA	ND	8.0	ND	3.2	10.7	10.7	1.2	33.8	ND	ND	ND
681.0	Catalina Island/West	RCM	03/30/94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

  

Station Number	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMS	p,p' DDMU	Total DDT	Di- Chloro- Benzophenone	Dicofol drin	Diel- sulfan I	Endo- sulfan II	Endo- sulfan sulfate	Endo-	Total Endo- sulfan	Endrin	Ethion	alpha- HCH
618.0	ND	ND	160.0	1300.0	ND	5.6	NA	100.0	1565.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
618.0	21.7	67.6	83.6	641.0	18.7	81.4	NA	56.1	970.0	ND	ND	10.2	ND	ND	ND	ND	ND	ND	ND
648.0	13.0	35.0	40.0	310.0	22.0	18.0	NA	42.0	480.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7
648.0	6.9	18.6	21.2	179.0	4.9	21.5	NA	20.8	273.0	ND	ND	6.8	ND	ND	ND	ND	ND	ND	ND
650.0	8.0	24.0	31.0	270.0	ND	11.0	NA	35.0	379.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2
650.0	7.8	20.6	18.9	154.0	ND	20.4	NA	20.6	242.0	ND	ND	14.3	ND	ND	ND	ND	ND	ND	1.4
662.0	11.0	37.0	59.0	590.0	ND	13.0	NA	61.0	771.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
662.0	11.8	41.3	61.5	581.0	ND	13.5	NA	58.9	768.0	ND	ND	8.5	ND	ND	ND	ND	ND	ND	ND
664.0	10.0	35.4	57.4	516.0	ND	13.1	NA	51.2	683.0	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND
681.0	ND	ND	ND	16.0	ND	ND	NA	ND	16.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

  

Station Number	beta- HCH	delta- HCH	gamma- HCH (Lindane)	Hepta- chlor	Hepta- chlor- epoxide	Hexa- chloro- benzene	Meth- oxy- chlor	Ethyl- para- thion	Methyl- para- thion	Oxa- diazon	Phenol	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra- difon	Toxa- phene	Tri- butyl- tin
618.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	75.0	370.0	ND	445.0	ND	ND	ND	NA
618.0	ND	ND	ND	ND	1.6	ND	ND	ND	ND	8.6	NA	84.3	417.0	14.0	515.0	ND	ND	274.0	NA
648.0	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	NA	ND	160.0	ND	160.0	ND	ND	ND	NA
648.0	ND	ND	ND	ND	1.3	ND	ND	ND	ND	16.1	NA	ND	71.4	ND	71.4	ND	ND	ND	NA
650.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	NA	ND	66.0	ND	66.0	ND	ND	ND	NA
650.0	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	NA	ND	97.4	ND	97.4	ND	ND	ND	NA
662.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	62.0	ND	62.0	ND	ND	ND	NA
662.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	96.0	ND	96.0	ND	ND	ND	NA
664.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	93.9	ND	93.9	ND	ND	ND	NA
681.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA

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\* RCM = Resident California Mussel      SED = Sediment      NA = Not Analyzed  
 RBM = Resident Bay Mussel              ND = Not Detected  
 TCM = Transplanted California Mussel

## APPENDIX M (continued)

### State Mussel Watch Program

Summary of 1993-95 Data: Organic Chemicals in Mussels and Sediment (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	Chlor-ben-side	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal	Diaz-inon
713.0	Huntington Harbour/Edinger Street	TCM	02/07/94	ND	ND	1.8	22.0	ND	20.0	11.0	20.0	1.0	75.8	11.0	19.0	ND
713.0	Huntington Harbour/Edinger Street	TCM	01/30/95	ND	NA	1.6	27.0	1.0	12.8	28.6	28.6	2.6	102.0	6.8	ND	ND
715.0	Huntington Harbour/Warner Ave Brdg	TCM	02/07/94	ND	ND	2.4	39.0	ND	35.0	23.0	36.0	1.8	137.2	11.0	3.0	ND
715.0	Huntington Harbour/Warner Ave Brdg	TCM	01/30/95	ND	NA	3.0	36.0	1.9	19.0	38.9	38.9	3.5	141.0	8.8	ND	ND
723.4	Newport Bay/Turning Basin	TCM	01/30/95	ND	NA	ND	19.6	ND	10.2	16.0	16.0	3.3	65.1	7.2	3.4	ND
724.0	Newport Bay/Highway 1 Bridge	TCM	02/07/94	ND	ND	1.6	31.0	ND	26.0	16.0	30.0	3.4	108.0	15.0	ND	ND
724.0	Newport Bay/Highway 1 Bridge	TCM	01/30/95	ND	NA	1.6	36.7	1.1	18.7	34.4	34.4	2.9	130.0	22.0	9.3	ND
725.0	Newport Bay/Crows Nest	TCM	02/07/94	ND	ND	ND	23.0	ND	18.0	17.0	20.0	5.2	83.2	5.8	ND	ND
725.0	Newport Bay/Crows Nest	TCM	01/30/95	ND	NA	1.3	30.0	ND	19.5	20.9	20.9	1.4	94.0	4.4	4.0	ND
726.4	Newport Bay/Rhine Channel/End	TCM	02/07/94	ND	ND	ND	25.0	ND	17.0	17.0	20.0	1.9	80.9	20.0	ND	ND

Station Number	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMS	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dicofol drin	Diel-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion	alpha-HCH
713.0	11.0	34.0	12.0	220.0	ND	15.0	NA	15.0	307.0	ND	ND	13.0	ND	ND	ND	ND	ND	ND
713.0	13.1	34.9	12.6	321.0	23.1	79.9	NA	10.9	496.0	ND	ND	20.7	ND	ND	ND	ND	ND	ND
715.0	14.0	47.0	12.0	330.0	ND	14.0	NA	16.0	433.0	ND	ND	14.0	ND	ND	ND	ND	ND	ND
715.0	14.1	43.0	12.8	400.0	16.9	56.5	NA	12.5	556.0	ND	ND	22.2	ND	ND	ND	ND	ND	ND
723.4	5.2	21.2	4.1	180.0	9.9	42.8	NA	ND	263.0	ND	ND	18.1	ND	ND	ND	ND	ND	ND
724.0	19.0	92.0	12.0	600.0	ND	17.0	NA	19.0	759.0	ND	ND	17.0	ND	ND	ND	ND	ND	ND
724.0	14.3	72.1	12.2	573.0	41.4	184.0	NA	12.9	910.0	ND	ND	14.7	1.1	ND	ND	1.1	ND	ND
725.0	12.0	54.0	9.4	430.0	16.0	11.0	NA	16.0	548.4	ND	ND	15.0	ND	ND	ND	ND	ND	ND
725.0	14.1	51.0	8.6	409.0	10.0	43.3	NA	9.9	546.0	ND	ND	30.7	ND	ND	ND	ND	ND	ND
726.4	10.0	49.0	7.5	340.0	13.0	11.0	NA	12.0	442.5	ND	ND	25.0	ND	ND	ND	ND	ND	ND

Station Number	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-ox-y-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	Phenol	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene	Tri-butyl-tin
713.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	100.0	ND	100.0	ND	ND	ND	960.0
713.0	ND	ND	ND	ND	1.3	ND	ND	ND	ND	6.9	NA	ND	121.0	ND	121.0	ND	ND	118.0	NA
715.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.0	NA	ND	140.0	ND	140.0	ND	ND	ND	1100.0
715.0	ND	ND	ND	ND	1.6	ND	ND	ND	ND	5.6	NA	50.6	185.0	19.3	255.0	ND	ND	163.0	NA
723.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.7	NA	ND	90.1	ND	90.1	ND	ND	163.0	NA
724.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	120.0	ND	120.0	ND	ND	ND	3400.0
724.0	ND	ND	ND	ND	1.4	ND	ND	ND	ND	30.8	NA	ND	129.0	ND	129.0	ND	ND	331.0	NA
725.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	150.0	630.0	ND	780.0	ND	ND	ND	7100.0
725.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.3	NA	101.0	534.0	23.0	658.0	ND	ND	161.0	NA
726.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	NA	130.0	630.0	ND	760.0	ND	ND	ND	7700.0

\* RCM = Resident California Mussel  
 RBM = Resident Bay Mussel  
 TCM = Transplanted California Mussel  
 SED = Sediment  
 NA = Not Analyzed  
 ND = Not Detected

### APPENDIX M (continued)

#### State Mussel Watch Program

Summary of 1993-95 Data: Organic Chemicals in Mussels and Sediment (ppb, dry weight)

Station Number	Station Name	Sample Type*	Sample Date	Aldrin	Chlor-ben-side	alpha-Chlor-dene	cis-Chlor-dane	gamma-Chlor-dene	trans-Chlor-dane	cis-Nona-chlor	trans-Nona-chlor	Oxy-chlor-dane	Total Chlor-dane	Chlor-pyrifos	Dacthal	Diaz-inon
726.4	Newport Bay/Rhine Channel/End	TCM	01/30/95	ND	NA	1.1	26.5	1.5	16.5	22.2	22.2	2.5	92.5	6.8	6.1	ND
750.0	Oceanside	RCM	01/30/95	ND	NA	ND	8.3	ND	4.8	8.7	8.7	1.1	31.6	ND	3.3	ND
868.5	Mission Bay/Landfill 1	TCM	01/30/95	ND	NA	ND	14.5	ND	5.9	14.0	14.0	ND	48.4	ND	ND	ND
868.6	Mission Bay/Landfill 2	TCM	01/30/95	ND	NA	ND	17.6	ND	6.9	16.3	16.3	ND	57.2	ND	ND	ND
882.0	24th St Maritime Terminal/South	TCM	01/31/95	ND	NA	ND	12.8	ND	6.5	8.2	8.2	1.7	37.3	ND	ND	ND
883.4	San Diego Bay/Continental Maritime	TCM	02/08/94	ND	ND	ND	10.0	ND	7.7	6.6	9.0	ND	33.3	ND	ND	ND
883.5	San Diego Bay/Tuna Docks	TCM	02/08/94	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	02/08/94	ND	ND	1.6	19.0	ND	19.0	7.4	18.0	ND	65.0	ND	ND	ND
894.0	SD Bay/Harbor Is/E Basin/Storm Dr	TCM	01/31/95	ND	NA	2.1	24.7	2.2	8.4	14.4	14.4	5.3	71.5	ND	ND	ND
899.0	San Diego Bay/Shelter Is/Fshg Pier	TCM	01/31/95	ND	NA	ND	7.0	ND	2.7	5.2	5.2	3.1	23.3	ND	ND	ND

  

Station Number	o,p' DDD	p,p' DDD	o,p' DDE	p,p' DDE	o,p' DDT	p,p' DDT	p,p' DDMS	p,p' DDMU	Total DDT	Di-Chloro-Benzophenone	Dicofol drin	Diel-sulfan I	Endo-sulfan II	Endo-sulfan sulfate	Total Endo-sulfan	Endrin	Ethion	alpha-HCH
726.4	10.0	35.8	6.4	271.0	11.2	53.0	NA	5.5	393.0	ND	ND	18.3	ND	ND	ND	ND	ND	ND
750.0	8.6	18.3	6.1	134.0	9.7	29.9	NA	5.4	212.0	ND	ND	6.2	ND	ND	ND	ND	ND	1.7
868.5	ND	4.1	ND	34.0	ND	ND	NA	ND	38.0	ND	ND	14.0	ND	ND	ND	ND	ND	ND
868.6	ND	ND	ND	40.4	ND	8.8	NA	ND	49.0	ND	ND	16.6	ND	ND	ND	ND	ND	ND
882.0	ND	8.5	ND	49.2	ND	10.7	NA	ND	68.0	ND	ND	7.4	ND	ND	ND	ND	ND	ND
883.4	ND	9.1	ND	43.0	ND	9.2	NA	ND	61.3	ND	ND	2.8	ND	ND	ND	ND	ND	ND
883.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
894.0	32.0	100.0	ND	35.0	5.2	27.0	NA	15.0	214.2	ND	ND	2.8	ND	ND	ND	ND	ND	ND
894.0	47.1	135.0	ND	29.8	8.6	32.0	NA	22.6	275.0	ND	ND	6.0	ND	ND	ND	ND	ND	ND
899.0	ND	7.2	ND	54.4	ND	ND	NA	5.6	67.0	ND	ND	4.7	ND	ND	ND	ND	ND	ND

  

Station Number	beta-HCH	delta-HCH	gamma-HCH (Lindane)	Hepta-chlor	Hepta-chlor-epoxide	Hexa-chloro-benzene	Meth-oxy-chlor	Ethyl-para-thion	Methyl-para-thion	Oxa-diazon	Phenol	PCB 1248	PCB 1254	PCB 1260	Total PCB	PCT 5460	Tetra-difon	Toxa-phene	Tri-butyl-tin
726.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.1	NA	62.8	360.0	12.1	435.0	ND	ND	213.0	6.0
750.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	NA	ND	22.0	ND	22.0	ND	ND	134.0	NA
868.5	ND	ND	ND	ND	1.4	ND	ND	ND	ND	6.9	NA	ND	102.0	ND	102.0	ND	ND	ND	NA
868.6	ND	ND	ND	ND	1.7	ND	ND	ND	ND	6.2	NA	ND	112.0	ND	112.0	ND	ND	ND	NA
882.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	NA	ND	278.0	33.1	311.0	ND	ND	ND	NA
883.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	290.0	ND	290.0	ND	ND	ND	3000.0
883.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5300.0
894.0	ND	ND	1.3	1.4	ND	ND	ND	ND	ND	ND	NA	4600.0	2800.0	ND	7400.0	ND	ND	ND	1000.0
894.0	ND	ND	ND	1.9	1.3	ND	ND	ND	ND	2.0	NA	11173.0	6904.0	207.0	18300.0	ND	ND	ND	1.4
899.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	168.0	13.2	181.0	ND	ND	ND	0.8

\* RCM = Resident California Mussel  
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