

Table 1
 Toxic Substances Monitoring Program
 Preliminary Summary of 1997 Data

| | | | | | | | | | | | |
|-----------|----------------------------------|-----|---|----------|-------|---------|--------|---------|---------|-------|---------|
| 801.11.89 | Lower Newport Bay/Rhine Ch | CM | L | 07/11/97 | 1.080 | 0.0520 | 0.394 | 4.3800 | 0.0770 | NA | 0.0160 |
| 3.260 | 0.0020 22.20 | | | | | | | | | | |
| 801.11.96 | Peters Canyon Channel | PRS | W | 06/19/97 | 0.057 | 0.0480 | 0.029 | 0.4100 | 0.0100 | 0.015 | <0.0002 |
| 0.850 | 0.0010 23.70 | | | | | | | | | | |
| 801.11.96 | Peters Canyon Channel | PRS | W | 06/19/97 | 0.063 | 0.0470 | 0.034 | 0.4300 | 0.0150 | 0.012 | <0.0002 |
| 0.880 | 0.0010 23.30 | | | | | | | | | | |
| 801.11.99 | Upper Newport Bay/Newport Dunes | DT | F | 06/20/97 | 1.480 | <0.0001 | <0.001 | 0.1100 | <0.0001 | 0.028 | 0.0004 |
| 0.700 | 0.0010 3.83 | | | | | | | | | | |
| 801.11.99 | Upper Newport Bay/Newport Dunes | DT | L | 06/20/97 | 5.180 | 0.1850 | 0.677 | 22.1000 | 0.0090 | NA | 0.0290 |
| 2.540 | 0.0340 73.00 | | | | | | | | | | |
| 902.11.01 | Santa Margarita R/Stuart Mesa Rd | GAM | W | 06/24/97 | 0.058 | 0.0030 | 0.006 | 0.4700 | 0.0020 | 0.018 | <0.0002 |
| 0.160 | 0.0060 16.40 | | | | | | | | | | |
| 906.40.01 | Rose Cr/d/s Mission Bay Dr | GAM | W | 06/23/97 | 0.065 | 0.0020 | 0.023 | 0.5800 | 0.0560 | 0.012 | <0.0002 |
| 0.210 | 0.0030 16.90 | | | | | | | | | | |
| 906.40.01 | Rose Cr/d/s Mission Bay Dr | GAM | W | 06/23/97 | 0.057 | 0.0020 | 0.024 | 0.6400 | 0.0620 | 0.012 | <0.0002 |
| 0.220 | 0.0030 16.40 | | | | | | | | | | |
| 907.11.03 | San Diego R/u/s Taylor St | BG | F | 06/23/97 | 0.023 | <0.0001 | 0.004 | 0.1200 | <0.0001 | 0.015 | <0.0002 |
| 0.340 | <0.0003 2.69 | | | | | | | | | | |
| 907.11.03 | San Diego R/u/s Taylor St | BG | L | 06/23/97 | 0.221 | 0.0160 | 0.502 | 1.0800 | <0.0001 | NA | 0.0100 |
| 2.060 | 0.0010 16.30 | | | | | | | | | | |
| 909.12.03 | Sweetwater R/Interstate 805 | LMB | W | 06/22/97 | 0.012 | 0.0010 | 0.004 | 0.1800 | 0.0090 | 0.022 | <0.0002 |
| 0.130 | 0.0005 10.80 | | | | | | | | | | |
| 910.20.05 | Otay R/Apache Service Pond | BG | F | 06/22/97 | 0.031 | <0.0001 | <0.001 | 0.0700 | 0.0003 | 0.053 | <0.0002 |
| 0.360 | <0.0003 3.29 | | | | | | | | | | |
| 910.20.05 | Otay R/Apache Service Pond | BG | L | 06/22/97 | 0.237 | 0.0140 | 0.576 | 1.5600 | <0.0001 | NA | 0.0220 |
| 2.220 | 0.0010 20.90 | | | | | | | | | | |
| 911.11.04 | Tijuana R/Dairy Mart Rd | GAM | W | 06/22/97 | 0.052 | 0.0010 | 0.017 | 0.4100 | 0.0190 | 0.012 | <0.0002 |
| 0.330 | 0.0110 12.80 | | | | | | | | | | |

L = Liver. F = Filet. W = Whole Body. < = Below Indicated Detection Limit. NA = Not Analyzed.
 Species codes are listed in Table 3.

Sampling Date before cut-off

Table 2
1997

| Toxaphene Station Group Number A | alpha- Chemical HCH | beta- HCH | delta- HCH | gamma- HCH (Lindane) | Total HCH | Hepta- chlor | Hepta- chlor- epoxide | Hexa- chloro- benzene | Methoxy- chlor | Oxa- diazon | Ethyl Para- thion | Methyl Para- thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB |
|--|---------------------------|--------------|---------------|----------------------------|--------------|-----------------|-----------------------------|-----------------------------|-------------------|----------------|-------------------------|--------------------------|-------------|-------------|-------------|--------------|
| 728.00.92 <100.0 | <2.0 ND | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 801.11.05 495.0 | <2.0 509.4 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 8.7 | <10.0 | <10.0 | <50.0 | 89.7 | <50.0 | 89.7 |
| 801.11.07 121.0 | <2.0 132.0 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 76.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 801.11.09 <100.0 | <2.0 ND | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 100.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 801.11.89 <100.0 | <2.0 ND | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | <50.0 | 272.0 | 74.9 | 346.9 |
| 801.11.96 405.0 | <2.0 440.9 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 42.0 | <10.0 | <10.0 | <50.0 | 57.5 | <50.0 | 57.5 |
| 801.11.96 447.0 | <2.0 498.9 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 48.0 | <10.0 | <10.0 | <50.0 | 67.6 | <50.0 | 67.6 |
| 801.11.99 <100.0 | <2.0 ND | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 902.11.01 <100.0 | <2.0 ND | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 906.40.01 <100.0 | <2.0 22.3 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 68.0 | <10.0 | <10.0 | <50.0 | 74.2 | <50.0 | 74.2 |

NA Means that the sample was not analyzed for the chemical.

ND Means that the chemical was not detected.

< Means that the chemical was not detected above the indicated limit of detection.

F = Filet.

W = Whole Body.

Species codes are listed in Table 3.

TABLE 2
Toxic Substances Monitoring Program
Preliminary Summary of 1997 Data: Organic Chemicals in Fish (ppb, wet weight)

| Total Station Chlor- Number dane | Chlor- pyrifos | Dacthal Station Name | Species Code | Tissue Type | Sample Date | Aldrin | alpha-Chlor- dene | cis-Chlor- dane | gamma-Chlor- dene | trans-Chlor- dane | cis-Nona- chlor | trans-Nona- chlor | Oxy-chlor- dane |
|----------------------------------|----------------|-----------------------------|--------------|-------------|-------------|--------|-------------------|-----------------|-------------------|-------------------|-----------------|-------------------|-----------------|
| 906.40.01 | 16.2 | Rose Cr/d/s Mission Bay Dr | GAM | W | 06/23/97 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 11.0 | 5.2 |
| 907.11.03 | ND | San Diego R/u/s Taylor St | BG | F | 06/23/97 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 909.12.03 | 52.6 | Sweetwater R/Interstate 805 | LMB | W | 06/22/97 | <5.0 | <5.0 | 5.8 | <5.0 | <5.0 | 10.0 | 31.0 | 5.8 |
| 910.20.05 | ND | Otay R/Apache Service Pond | BG | F | 06/22/97 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 911.11.04 | ND | Tijuana R/Dairy Mart Rd | GAM | W | 06/22/97 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |

| Total Station Endo- Number sulfan | Diendrin | o,p' Ethion | p,p' DDD | o,p' DDE | p,p' DDE | o,p' DDT | p,p' DDT | p,p' DDMU | p,p' DDMS | Total DDT | Dicofol | Diazinon | Endo- sulfan I | Endo- sulfan II | Endo- sulfan Sulfate | |
|-----------------------------------|----------|-------------|----------|----------|----------|----------|----------|-----------|-----------|-----------|---------|----------|----------------|-----------------|----------------------|-------|
| 906.40.01 | ND | 5.8 | <10.0 | <10.0 | <10.0 | 8.6 | <10.0 | <10.0 | <15.0 | NA | 8.6 | NA | <50.0 | <5.0 | <70.0 | <85.0 |
| 907.11.03 | ND | <5.0 | <10.0 | <10.0 | <10.0 | <5.0 | <10.0 | <10.0 | <15.0 | NA | ND | NA | <50.0 | <5.0 | NA | NA |
| 909.12.03 | ND | <5.0 | <10.0 | <10.0 | <10.0 | 39.0 | <10.0 | <10.0 | <15.0 | NA | 39.0 | NA | <50.0 | <5.0 | NA | NA |
| 910.20.05 | ND | <5.0 | <10.0 | <10.0 | <10.0 | 50.0 | <10.0 | <10.0 | <15.0 | NA | 50.0 | NA | <50.0 | <5.0 | NA | NA |
| 911.11.04 | ND | <5.0 | <10.0 | 14.0 | <10.0 | 40.0 | <10.0 | <10.0 | <15.0 | NA | 54.0 | NA | <50.0 | <5.0 | <70.0 | <85.0 |

| Toxaphene Station Group Number A | alpha-Chemical HCH | beta-HCH | delta-HCH | gamma-HCH | Total HCH | Hepta-chlor | Hepta-chlor- epoxide | Hexa-chloro- benzene | Methoxy-chlor | Oxa-diazon | Ethyl Para- thion | Methyl Para- thion | PCB 1248 | PCB 1254 | PCB 1260 | Total PCB |
|----------------------------------|--------------------|----------|-----------|-----------|-----------|-------------|----------------------|----------------------|---------------|------------|-------------------|--------------------|----------|----------|----------|-----------|
| 906.40.01 | <2.0 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 67.0 | <10.0 | <10.0 | <50.0 | 83.3 | <50.0 | 83.3 |
| 907.11.03 | <2.0 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 909.12.03 | <2.0 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | 11.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 910.20.05 | <2.0 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | <50.0 | <50.0 | <50.0 | ND |
| 911.11.04 | <2.0 | <10.0 | <5.0 | <2.0 | ND | <5.0 | <5.0 | <2.0 | <15.0 | <5.0 | <10.0 | <10.0 | 55.1 | 61.7 | <50.0 | 116.8 |

TABLE 3
Toxic Substances Monitoring Program

1997 Freshwater Fish Code List *

| Species Code | Common Name | Species Name | Family Name |
|--------------|------------------------|----------------------------------|----------------|
| BG | Blue gill | <i>Lepomis macrochirus</i> | Centrarchidae |
| BK | Brook Trout | <i>Salvelinus fontinalis</i> | Salmonidae |
| BN | Brown Trout | <i>Salmo trutta</i> | Salmonidae |
| CCF | Channel Catfish | <i>Ictalurus punctatus</i> | Ictaluridae |
| CP | Carp | <i>Cyprinus carpio</i> | Cyprinidae |
| FHM | Fathead Minnow | <i>Pimephales promelas</i> | Cyprinidae |
| GAM | Mosquitofish | <i>Gambusia affinis</i> | Poeciliidae |
| LMB | Largemouth Bass | <i>Micropterus salmoides</i> | Centrarchidae |
| PRS | Red Shiner | <i>Cyprinella lutrensis</i> | Cyprinidae |
| RBT | Rainbow Trout | <i>Oncorhynchus mykiss</i> | Salmonidae |
| RCH | California Roach | <i>Hesperoleucus symmetricus</i> | Cyprinidae |
| SCP | Sculpin | <i>Cottus sp.</i> | Cottidae |
| SKR | Sucker | <i>Catostomus sp.</i> | Catostomidae |
| SMB | Smallmouth Bass | <i>Micropterus dolomieu</i> | Centrarchidae |
| STB | Threespine Stickleback | <i>Gasterosteus aculeatus</i> | Gasterosteidae |
| TL | Tilapia | <i>Tilapia sp.</i> | Cichlidae |

1997 Marine Fish Code List *

| Species Code | Common Name | Species Name | Family Name |
|--------------|------------------------|------------------------------|----------------|
| CM | Chub Mackerel | <i>Scomber japonicus</i> | Scombridae |
| DT | Diamond Turbot | <i>Hypsopsetta guttulata</i> | Pleuronectidae |
| GSS | Gray Smoothhound Shark | <i>Mustelus californicus</i> | Carcharhinidae |
| LJM | Longjaw Mudsucker | <i>Gillichthys mirabilis</i> | Gobiidae |
| ORC | Orangemouth Corvina | <i>Cynoscion xanthulus</i> | Sciaenidae |

* Common and scientific fish names were obtained from Robins, C.R., R.M. Bailey, C.E. Bond, J.R. Brooker, E.A. Lachner, R.N. Lea, and W.B. Scott. 1991. Common and Scientific Names of Fishes from the United States and Canada. American Fisheries Society Special Publication 20, Bethesda, Maryland.