

APPENDIX B: SWRCB TOXIC SUBSTANCES MONITORING PROGRAM

Table B-1: TSM DDT Data for Samples from the Imperial Valley by Fish Species

SPECIES	NUMBER OF SAMPLES	NUMBER OF ORGANISMS	NUMBER EXCEEDING NAS CRITERIA	NUMBER EXCEEDING FDA ACTION LEVEL	MAX (ppb, wet weight)	MEAN (ppb, wet weight)
Bairdiella	4	24	0	0	180	84
Carp	38	128	15	4	9153	1667
Channel Catfish	34	117	20	1	5300	1861
Largemouth Bass	2	6	0	0	170	104
Flathead Catfish	2	2	0	0	241	193
Mosquitofish	9	266	5	1	5106	1413
Orangemouth Corvina	10	42	0	0	276	127
Red Shiner	1	27	1	0	1127	1127
Sailfin Molly	7	198	1	0	2577	584
Sargo	2	10	0	0	152	151
Tilapia*	7	32	0	0	326	68
Yellow Bullhead	2	3	0	0	991	550
Total	118	855	42	6		

SOURCE: California State Water Resources Control Board Toxic Substances Monitoring Program, 1978-1995

* Tilapia refers to all species of tilapia in the Colorado River Basin Region that were analyzed in the Toxic Substances Monitoring Program.

Table B-2: TSM DDT Data for the Colorado River Basin Region by Surface Water

STATION LOCATION	NUMBER OF SAMPLES	NUMBER OF ORGANISMS	NUMBER EXCEEDING NAS CRITERIA	NUMBER EXCEEDING FDA ACTION LEVEL	MAX (ppb, wet weight)	MEAN (ppb, wet weight)	90th PERCENTILE (ppb, wet weight)
IMPERIAL VALLEY	116	848	41	6	9153	1251	3308
ALAMO RIVER (ALL STATIONS)	27	137	21	5	9153	2816	5468
ALAMO RIVER/INTERNATIONAL BOUNDARY	4	56	3	0	1371	955	1305
ALAMO RIVER/HOLTVILLE	1	3	0	0	515	515	
ALAMO RIVER/BRAWLEY	1	3	0	0	460	460	
ALAMO RIVER/CALIPATRIA	21	75	17	5	9153	3392	5517
NEW RIVER (ALL STATIONS)	34	176	12	0	3368	1090	2584
NEW RIVER/INTERNATIONAL BOUNDARY	8	85	1	0	1209	539	825
NEW RIVER/WESTMORLAND	26	91	11	0	3368	1259	2687
AG DRAINS (ALL)	30	399	9	1	5106	1087	3324
SALTON SEA	21	102	0	0	276	97	180
FIG LAKE	7	40	0	0	592	145	321
WIEST LAKE	1	4	0	0	38	38	
SALT CREEK SLOUGH	3	6	1	0	3319	1193	
COACHELLA VALLEY STORMWATER CHANNEL	7	84	2	0	2883	1224	2695
PALO VERDE OUTFALL DRAIN	9	45	1	0	1475	354	632
COLORADO RIVER (ALL STATIONS)	17	90	0	0	855	102	165
COLORADO RIVER/NEEDLES	3	12	0	0	77	38	
COLORADO RIVER/PICHACO	2	11	0	0	46	28	
COLORADO RIVER/UPSTREAM OF IMPERIAL DAM	3	21	0	0	27	15	
COLORADO RIVER/CIBOLA	6	34	0	0	175	96	
COLORADO RIVER/INTERNATIONAL BOUNDARY	3	12	0	0	855	313	

SOURCE: California State Water Resources Control Board Toxic Substances Monitoring Program, 1978-1995

Table B-3: TSM DDT Data for Samples from the Alamo River by Species

SPECIES	NUMBER OF SAMPLES	NUMBER OF ORGANISMS	NUMBER OF SAMPLES EXCEEDING NAS CRITERIA	NUMBER OF SAMPLES EXCEEDING FDA ACTION LEVEL	MAX (ppb, wet weight)	MEAN (ppb, wet weight)
Carp	12	40	11	4	9153	3833
Channel Catfish	12	43	8	1	5300	2280
Largemouth Bass	1	2	0	0	170	170
Mosquitofish	1	25	1	1	1371	1371
Red Shiner	1	27	1	1	1127	1127

SOURCE: California State Water Resources Control Board Toxic Substances Monitoring Program, 1978-1995

Table B-4: TSM Toxaphene Data for Samples from the Imperial Valley by Fish Species

SPECIES	NUMBER OF SAMPLES	NUMBER OF ORGANISMS	NUMBER EXCEEDING NAS CRITERIA	MAX (ppb, wet weight)	MEAN (ppb, wet weight)
Bairdiella	4	24	0	ND	ND
Carp	38	128	17	1800	251
Channel Catfish	34	119	26	3400	647
Largemouth Bass	1	2	0	ND	ND
Flathead Catfish	2	2	0	ND	ND
Mosquitofish	9	266	4	2800	407
Orangemouth Corvina	10	42	0	ND	ND
Red Shiner	1	27	1	260	260
Sailfin Molly	7	163	2	2000	321
Sargo	2	10	0	ND	ND
Tilapia*	50	548	0	ND	ND
Yellow Bullhead	2	3	1	120	60

SOURCE: California State Water Resources Control Board Toxic Substances Monitoring Program, 1978-1995

* Tilapia refers to all species of tilapia in the Colorado River Basin Region which were analyzed in the Toxic Substances Monitoring Program.

ND = Not detected

Table B-5: TSM Toxaphene Data for the Colorado River Basin Region by Surface Water

STATION LOCATION	NUMBER OF SAMPLES	NUMBER OF ORGANISMS	NUMBER EXCEEDING NAS CRITERIA	NUMBER EXCEEDING FDA ACTION LEVEL	MAX (ppb, wet weight)	MEAN (ppb, wet weight)	90th PERCENT -ILE
IMPERIAL VALLEY	117	853	51	0	3400	323	940
ALAMO RIVER (ALL STATIONS)	27	137	20	0	2200	571	1588
ALAMO RIVER/INTERNATIONAL BOUNDARY	4	56	3	0	300	198	288
ALAMO RIVER/HOLTVILLE	1	3	0	0	0	0	
ALAMO RIVER/BRAWLEY	1	3	0	0	0	0	
ALAMO RIVER/CALIPATRIA	21	75	17	0	2200	697	1870
NEW RIVER (ALL STATIONS)	35	181	17	0	3400	333	810
NEW RIVER/INTERNATIONAL BOUNDARY	8	85	0	0	0	0	0
NEW RIVER/WESTMORLAND	27	96	17	0	3400	431	858
AG DRAINS (ALL)	27	393	14	0	2800	399	1128
SALTON SEA	21	102	0	0	0	0	0
FIG LAKE	7	40	0	0	0	0	
WIEST LAKE	1	4	0	0	0	0	
SALT CREEK SLOUGH	3	6	0	0	0	0	
COACHELLA VALLEY STORMWATER CHANNEL	7	84	3	0	440	133	368
PALO VERDE OUTFALL DRAIN	9	45	2	0	1200	148	344
COLORADO RIVER (ALL STATIONS)	17	90	0	0	0	0	
COLORADO RIVER/NEEDLES	3	12	0	0	0	0	
COLORADO RIVER/PICHACO	2	11	0	0	0	0	
COLORADO RIVER/UPSTREAM OF IMPERIAL DAM	3	21	0	0	0	0	
COLORADO RIVER/CIBOLA	6	34	0	0	0	0	
COLORADO RIVER/INTERNATIONAL BOUNDARY	3	12	0	0	0	0	

SOURCE: California State Water Resources Control Board Toxic Substances Monitoring Program, 1978-1995

Table B-6: TSM Toxaphene Data for Samples from the Alamo River by Species

SPECIES	NUMBER OF SAMPLES	NUMBER OF ORGANISMS	NUMBER OF SAMPLES EXCEEDING NAS CRITERIA	MAX (ppb, wet weight)	MEAN (ppb, wet weight)
Carp	12	40	10	1100	447
Channel Catfish	12	43	8	2200	798
Largemouth Bass	1	2	0	ND	ND
Mosquitofish	1	25	1	230	230
Red Shiner	1	27	1	260	260

SOURCE: California State Water Resources Control Board Toxic Substances Monitoring Program, 1978-1995
 ND = Not Detected