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11. Ocean Waters

- Beneficial Uses: REC 1, REC 2, NAV, MAR, COMM, WILD, RARE, SPWN, SHEL
- Hydrologic Unit: 801.11
- Total Water Body Size:
- Size Impaired: Unknown at this time
- Extent of Impairment: Unknown at this time

Emma Oil Platform

- Coastal Fish Contamination Data:
- Data Analyses:
 - Black Surfperch – 1/1 exceeded the MTRL Hg standard of 0.00037 ug/g
 - Black Surfperch – 0/1 exceeded the NAS Hg standard of 0.5 ug/g
 - Black Surfperch – 0/1 exceeded the FDA Hg standard of 1.0 ug/g
 - Kelp Bass - 1/1 exceeded the MTRL Hg standard of 0.00037 ug/g
 - Kelp Bass – 0/1 exceeded the NAS Hg standard of 0.5 ug/g
 - Kelp Bass - 0/1 exceeded the FDA Hg standard of 1.0 ug/g
 - Opaleye – 1/1 exceeded the MTRL Hg standard of 0.00037 ug/g
 - Opaleye – 0/1 exceeded the NAS Hg standard of 0.5 ug/g
 - Opaleye - 0/1 exceeded the FDA Hg standard of 1.0 ug/g
 - Black Surfperch – 0/1 exceeded the MTRL Endosulfan standard of 64.8 mg/kg
 - Black Surfperch – 0/1 exceeded the NAS Endosulfan standard of 0.1 ug/g
 - Kelp Bass - 0/1 exceeded the MTRL Endosulfan standard of 64.8 mg/kg
 - Kelp Bass – 0/1 exceeded the NAS Endosulfan standard of 0.1 ug/g
 - Opaleye - 0/1 exceeded the MTRL Endosulfan standard of 64.8 mg/kg
 - Opaleye – 0/1 exceeded the NAS Endosulfan standard of 0.1 ug/g
 - Black Surfperch – 0/2 exceeded the “MTRLs in Enclosed Bays” ddepp_w standard of 32.0 ug/kg
 - Kelp Bass - exceeded the “MTRLs in Enclosed Bays” ddepp_w standard of 32.0 ug/kg

Esther Oil Platform

- *Coastal Fish Contamination Data:*
- Data Analyses:
 - Kelp Bass – 1/1 exceeded the MTRLs in Ocean Waters diel_w standard of 0.2 ug/kg
 - Kelp Bass – 1/1 exceeded the MTRLs in Bays and Estuaries diel_w standard of 0.7 ug/kg
 - Kelp Bass – 0/1 exceeded the NAS diel_w standard of 0.1 ug/g
 - Kelp Bass – 0/1 exceeded the FDA diel_w standard of 0.3 ug/g
 - Black Surfperch – 1/1 exceeded the MTRL Hg standard of 0.00037 ug/g
 - Black Surfperch – 0/1 exceeded the NAS Hg standard of 0.5 ug/g
 - Black Surfperch – 0/1 exceeded the FDA Hg standard of 1.0 ug/g
 - Kelp Bass – 1/1 exceeded the MTRL Hg standard of 0.00037 ug/g
 - Kelp Bass – 0/1 exceeded the NAS Hg standard of 0.5 ug/g
 - Kelp Bass – 0/1 exceeded the FDA Hg standard of 1.0 ug/g
 - Black Surfperch – 1/1 exceeded the “MTRLs in Enclosed Bays” ddepp_w standard of 32.0 ug/kg
 - Kelp Bass – 1/1 exceeded the “MTRLs in Enclosed Bays” ddepp_w standard of 32.0 ug/kg
- Potential Sources: Unknown at this time
- Recommendation: More monitoring due to not enough data points available per parameter to reach a conclusion for impairment and insufficient data to back up results.
- TMDL Priority: None at this time
- TMDL Start Date: Not applicable at this time
- TMDL End Date: Not applicable at this time

Sample ID	NewStation Number	NEWSTATION NAME	MISC STATION INFO	Data Reporting Year	SPECIES CODE	SPECIES NAME	SKIN PREP	NEW LAT	NEW LONG	COLLECTION DATE	Special Treatment	N (Number per sample)	>25%	Length (1) mm
99-0532-t	8020	Huntington Beach Pier		Year1	YC	Yellowfin Croaker	N	33 39.42	118 00.22	30-Mar-99		5.00		207
99-1467-t	8030	Huntington Beach		Year2	BRS	Barred Surfperch	N	33 39.86	118 01.34	20-Oct-99		10.00		133
99-1468-t	8030	Huntington Beach		Year2	SHS	Shiner Surfperch	S	33 39.86	118 01.34	20-Oct-99		10.00		109
99-0821-t	8040	Newport Beach		Year1	WSP	Walleye Surfperch	S	33 36.10	117 55.20	22-Jun-99		3.00		183
99-0948-t	8040	Newport Beach		Year1	BRS	Barred Surfperch	N	33 36.10	117 55.20	4-Aug-99		5.00		125
99-0949-t	8040	Newport Beach		Year1	CC	California Corbina	N	33 36.10	117 55.20	4-Aug-99		5.00		173
99-1994-t	8040	Newport Beach		Year2	BRS	Barred Surfperch	N	33 36.10	117 55.20	11-Nov-99		10.00		143
99-1995-t	8040	Newport Beach		Year2	SHS	Shiner Surfperch	S	33 36.10	117 55.20	11-Nov-99		10.00		110
99-1993-t	8040	Newport Beach		Year2	WC	White Croaker	N	33 36.10	117 55.20	11-Nov-99		5.00		172
99-0774-t	8050	Newport Pier		Year1	STR	Spotted Turbot	S	33 36.35	117 55.95	16-Jun-99		3.00		223
99-0950-t	8050	Newport Pier		Year1	BRS	Barred Surfperch	N	33 36.35	117 55.95	4-Aug-99		5.00		125
99-0951-t	8050	Newport Pier		Year1	CC	California Corbina	N	33 36.35	117 55.95	4-Aug-99		5.00		184
99-0952-t	8050	Newport Pier		Year1	YC	Yellowfin Croaker	N	33 36.35	117 55.95	4-Aug-99		3.00		150
99-1998-t	8050	Newport Beach Pier		Year2	BRS	Barred Surfperch	N	33 36.29	117 55.73	11-Nov-99		10.00		146
99-1996	8050	Newport Beach Pier		Year2	WC	White Croaker	N	33 36.29	117 55.73	11-Nov-99		5.00		169
99-0764-t	8060	Balboa Pier		Year1	WSP	Walleye Surfperch	S	33 36.05	117 54.07	9-Jun-99		5.00		160
99-0773-t	8060	Balboa Pier		Year1	DT	Diamond Turbot	S	33 36.05	117 54.07	15-Jun-99		5.00		261
00-0449-t	8060	Balboa Pier		Year2	BRS	Barred Surfperch	N	33 35.89	117 54.13	6-Apr-00		3.00	Y	179
00-0453-t	8060	Balboa Pier		Year2	DT	Diamond Turbot	S	33 35.89	117 54.13	6-Apr-00		4.00		246
99-0729-t	8070	Newport Jetty		Year1	SSF	Spotted Scorpionfish	N	33 35.52	117 52.83	19-May-99		5.00		135
99-0730-t	8070	Newport Jetty		Year1	STR	Spotted Turbot	S	33 35.52	117 52.83	19-May-99		5.00		190
99-1268-t	8070	Newport Jetty		Year2	BLS	Black Surfperch	N	33 35.84	117 52.82	14-Oct-99		5.00		120
99-1269-t	8070	Newport Jetty		Year2	SHS	Shiner Surfperch	S	33 35.84	117 52.82	14-Oct-99		10.00		97
99-1266-t	8070	Newport Jetty		Year2	STR	Spotted Turbot	S	33 35.84	117 52.82	14-Oct-99		5.00		183
99-0725-t	8080	Newport Bay/above PCH Br		Year1	DT	Diamond Turbot	S	33 37.26	117 53.84	19-May-99		5.00		200
99-0749-t	8080	Newport Bay/above PCH Br		Year1	SHS	Shiner Surfperch	N	33 37.26	117 53.84	27-May-99		5.00		126
99-1265-t	8080	Newport Bay/above PCH Br		Year2	SHS	Shiner Surfperch	S	33 36.48	117 54.04	13-Oct-99		10.00		101
99-1264-t	8080	Newport Bay/above PCH Br		Year2	STR	Spotted Turbot	S	33 36.48	117 54.04	13-Oct-99		5.00		206
99-1263-t	8080	Newport Bay/above PCH Br		Year2	YC	Yellowfin Croaker	N	33 36.48	117 54.04	13-Oct-99		4.00		252
99-1215-t	8100	Emma Oil Platform		Year2	BLS	Black Surfperch	N	33 39.75	118 02.71	5-Oct-99		4.00		267
99-1214-t	8100	Emma Oil Platform		Year2	KB	Kelp Bass	N	33 39.75	118 02.71	5-Oct-99		5.00		325
99-1217-t	8100	Emma Oil Platform		Year2	OPE	Opaleye	N	33 39.75	118 02.71	5-Oct-99		5.00		311
99-0765-t	8110	Anaheim Bay		Year1	DT	Diamond Turbot	S	33 43.90	118 04.22	8-Jun-99		5.00		235
99-1260-t	8110	Anaheim Bay		Year2	BLS	Black Surfperch	N	33 43.73	118 04.65	13-Oct-99		5.00		148
99-1262-t	8110	Anaheim Bay		Year2	SHS	Shiner Surfperch	S	33 43.73	118 04.65	13-Oct-99		10.00		106
99-1259-t	8110	Anaheim Bay		Year2	YC	Yellowfin Croaker	N	33 43.73	118 04.65	13-Oct-99		4.00		242
00-0672-t	8130	Esther Oil Platform		Year2	BLS	Black Surfperch	N	33 43.16	118 06.81	17-May-00		5.00		260
00-0673-t	8130	Esther Oil Platform		Year2	KB	Kelp Bass	N	33 43.16	118 06.81	17-May-00		5.00		312

Sample ID	Length (2) mm	Length (3) mm	Length (4) mm	Length (5) mm	Length (6) mm	Length (7) mm	Length (8) mm	Length (9) mm	Length (10) mm	Length (11) mm	Length (12) mm	Length (13) mm	Length (14) mm	Length (15) mm	Length (16) mm	Length (17) mm	Length (18) mm	Length (19) mm	Length (20) mm	Weight (1) g
99-0532-t	208	209	258	267																99.21
99-1467-t	134	134	135	136	138	138	140	144	144											31.62
99-1468-t	111	112	113	113	116	117	118	119	121											12.41
99-0821-t	168	161																		108.39
99-0948-t	135	135	138	147																31.14
99-0949-t	187	188	189	190																38.02
99-1994-t	146	149	152	153	156	158	159	160	162											41.54
99-1995-t	115	116	116	117	117	118	119	119	121											13.85
99-1993-t	173	175	176	179																53.50
99-0774-t	217	215																		145.90
99-0950-t	128	130	133	135																28.92
99-0951-t	184	195	204	213																58.89
99-0952-t	155	147																		35.00
99-1998-t	147	147	148	148	149	152	152	153	153											45.67
99-1996	174	179	181	183																43.20
99-0764-t	164	165	167	205																64.31
99-0773-t	216	230	236	225																217.50
00-0449-t	170	264																		76.80
00-0453-t	242	234	222																	176.00
99-0729-t	140	155	165	175																45.48
99-0730-t	195	205	225	225																99.97
99-1268-t	127	129	130	139																23.00
99-1269-t	98	99	101	102	103	103	105	107	108											9.51
99-1266-t	194	202	227	230																65.10
99-0725-t	200	210	220	220																109.69
99-0749-t	133	135	137	148																24.84
99-1265-t	102	102	103	103	104	105	105	105	106											10.24
99-1264-t	208	209	210	234																99.60
99-1263-t	259	300	320																	149.00
99-1215-t	284	290	298																	439.00
99-1214-t	326	334	336	338																445.00
99-1217-t	331	334	341	380																557.00
99-0765-t	237	240	245	261																165.00
99-1260-t	154	156	157	162																65.50
99-1262-t	110	110	110	112	113	114	115	118	120											12.69
99-1259-t	295	299	300																	155.00
00-0672-t	262	270	286	290																378.00
00-0673-t	316	324	336	356																342.00

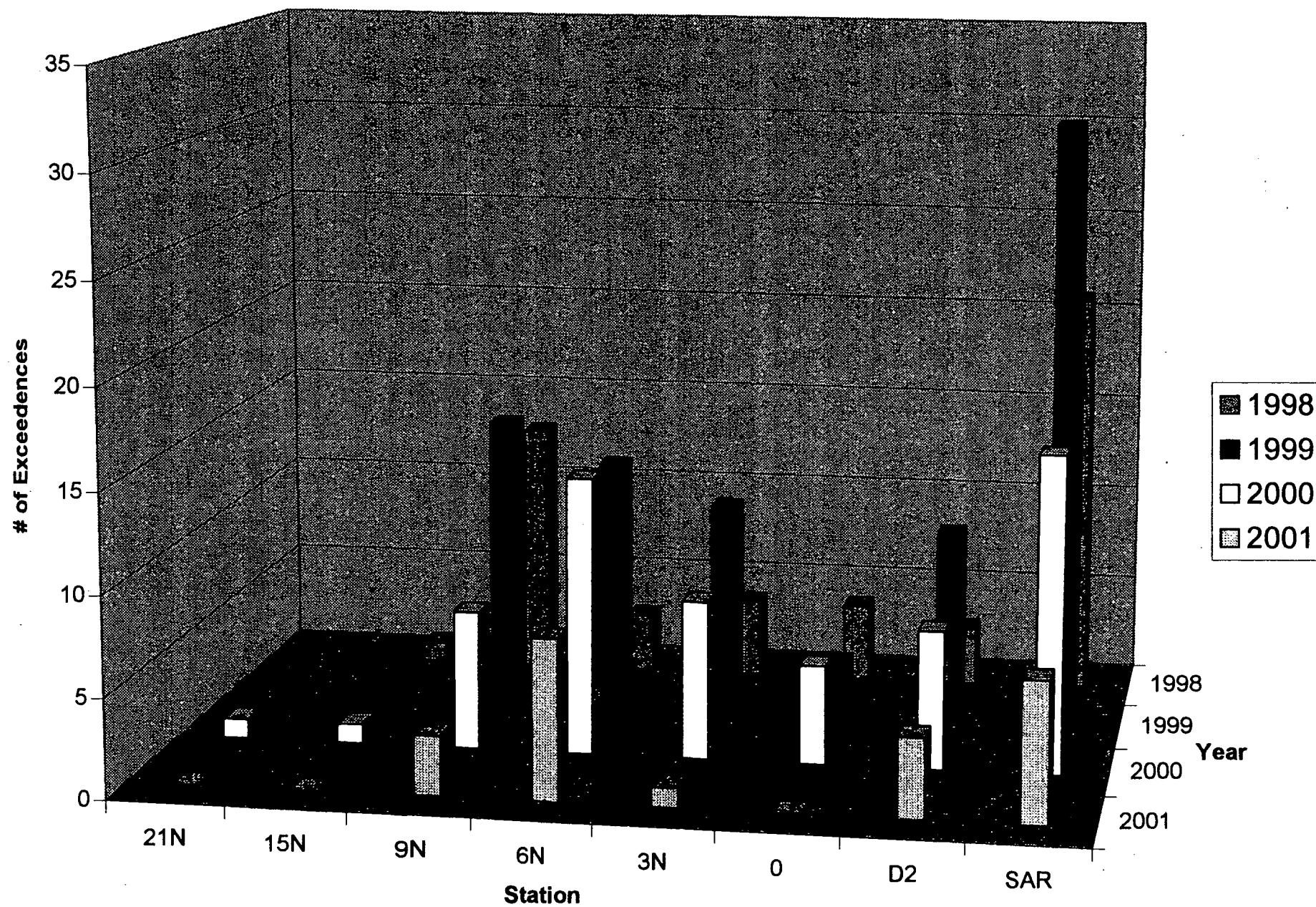
Sample ID	Weight (2) g	Weight (3) g	Weight (4) g	Weight (5) g	Weight (6) g	Weight (7) g	Weight (8) g	Weight (9) g	Weight (10) g	Weight (11) g	Weight (12) g	Weight (13) g	Weight (14) g	Weight (15) g	Weight (16) g	Weight (17) g	Weight (18) g	Weight (19) g	Weight (20) g	Total Weight g	Ag_w µg/g
99-0532-t	104.35	106.32	163.33	197.86																	NA
99-1467-t	33.21	33.85	37.13	37.65	38.57	39.47	42.31	42.84	50.77												NA
99-1468-t	12.51	13.99	15.03	15.35	17.04	17.58	17.70	19.56	21.56												NA
99-0821-t	74.24	68.62																			NA
99-0948-t	34.68	37.20	39.30	45.60																	NA
99-0949-t	48.81	49.18	51.33	57.97																	NA
99-1994-t	45.52	47.42	49.88	51.49	51.96	54.99	55.77	55.83	60.45												NA
99-1995-t	14.11	14.50	14.94	15.09	15.52	16.03	18.13	20.06	20.28												NA
99-1993-t	54.30	57.90	58.00	63.00																	NA
99-0774-t	126.00	124.00																			NA
99-0950-t	30.68	33.90	34.82	38.06																	NA
99-0951-t	59.92	60.45	70.45	83.41																	NA
99-0952-t	45.95	29.00																			NA
99-1998-t	46.40	46.56	47.03	47.80	48.70	50.01	53.20	54.97	55.66												NA
99-1996	50.20	52.70	56.60	60.90																	NA
99-0764-t	68.49	68.52	68.69	136.99																	NA
99-0773-t	165.26	157.22	146.88	156.54																	NA
00-0449-t	53.40	303.00																			NA
00-0453-t	170.00	166.00	122.00																		NA
99-0729-t	49.69	68.89	77.36	85.08																	NA
99-0730-t	103.72	135.35	142.00	174.18																	NA
99-1268-t	31.20	33.30	36.40	44.10																	NA
99-1269-t	10.59	10.73	11.16	11.90	12.06	13.57	13.73	14.05	14.23												NA
99-1266-t	84.10	119.00	143.00	143.00																	NA
99-0725-t	123.80	124.82	125.99	139.26																	NA
99-0749-t	35.85	35.98	36.83	47.85																	NA
99-1265-t	11.20	11.45	11.49	11.77	11.77	11.94	12.18	12.33	12.39	15.56	16.06	16.10									NA
99-1264-t	105.00	118.00	139.00	149.00																	NA
99-1263-t	183.00	261.00	337.00																		NA
99-1215-t	508.00	511.00	599.00																		NA
99-1214-t	497.00	507.00	507.00	574.00																	NA
99-1217-t	574.00	627.00	771.00	1020.00																	NA
99-0765-t	187.86	190.02	196.06	233.71																	NA
99-1260-t	70.20	73.20	77.80	79.70																	NA
99-1262-t	14.00	14.24	14.45	15.20	15.30	18.13	21.97	22.34	23.60												NA
99-1259-t	314.00	340.00	413.00																		NA
00-0672-t	406.00	415.00	517.00	569.00																	NA
00-0673-t	386.00	497.00	542.00	729.00																	NA

Sample ID	As_w µg/g	Cd_w µg/g	Cr_w µg/g	Cu_w µg/g	Hg_w µg/g	Ni_w µg/g	Pb_w µg/g	Se_w µg/g	Zn_w µg/g	% Moisture MLML	ANALYSES	PWATF	PLIPF	aldrn_w ng/g	ccdan_w ng/g	tcddan_w ng/g
99-0532-t	0.3860	-0.0010	NA	NA	0.0826	NA	NA	0.3110	NA	78.54	M	79.30	0.50	-1.00	-2.00	-2.00
99-1467-t	0.9033	-0.0020	NA	NA	0.0315	NA	NA	0.2846	NA	78.25	MO	78.80	0.66	-1.00	-2.00	-2.00
99-1468-t	0.7873	0.0062	NA	NA	-0.0150	NA	NA	0.3671	NA	74.99	MO	75.00	3.07	-1.00	-2.00	-2.00
99-0821-t	0.6180	0.0042	NA	NA	0.0984	NA	NA	0.4060	NA	74.97	M	76.60	3.48	-1.00	-2.00	-2.00
99-0948-t	0.8110	-0.0010	NA	NA	0.0400	NA	NA	0.4970	NA	77.29	M	78.50	1.34	-1.00	-2.00	-2.00
99-0949-t	0.4490	-0.0010	NA	NA	0.0316	NA	NA	0.3500	NA	78.39	M	79.60	0.60	-1.00	-2.00	-2.00
99-1994-t	0.6011	-0.0020	NA	NA	0.0317	NA	NA	0.3333	NA	77.53	MO	77.50	1.33	-1.00	-2.00	-2.00
99-1995-t	1.1298	0.0072	NA	NA	-0.0150	NA	NA	0.4035	NA	74.48	MO	75.30	4.18	-1.00	2.35	-2.00
99-1993-t	0.7783	-0.0020	NA	NA	0.0223	NA	NA	0.3110	NA	77.65	MO	78.30	1.16	-1.00	-2.00	-2.00
99-0774-t	2.6900	0.0040	NA	NA	0.0420	NA	NA	0.3230	NA	78.47	M	76.60	0.29	-1.00	-2.00	-2.00
99-0950-t	1.0600	-0.0010	NA	NA	0.0388	NA	NA	0.4570	NA	77.05	M	78.10	1.86	-1.00	-2.00	-2.00
99-0951-t	0.4110	-0.0010	NA	NA	0.0247	NA	NA	0.2750	NA	78.48	M	79.60	0.64	-1.00	-2.00	-2.00
99-0952-t	0.5290	0.0045	NA	NA	0.0565	NA	NA	0.2940	NA	80.12	M	80.10	0.45	-1.00	-2.00	-2.00
99-1998-t	0.5771	-0.0020	NA	NA	0.0298	NA	NA	0.2763	NA	77.28	MO	77.70	1.06	-1.00	-2.00	-2.00
99-1996	0.6680	-0.0020	NA	NA	0.0316	NA	NA	0.3314	NA	77.11	MO	77.90	1.67	-1.00	-2.00	-2.00
99-0764-t	0.5870	-0.0010	NA	NA	0.1280	NA	NA	0.2880	NA	78.00	M	77.70	2.75	-1.00	-2.00	-2.00
99-0773-t	4.0000	-0.0010	NA	NA	0.0817	NA	NA	0.3750	NA	77.56	M	78.90	0.31	-1.00	-2.00	-2.00
00-0449-t	0.9109	0.0038	NA	NA	0.0483	NA	NA	0.3744	NA	78.53	MO	79.10	0.75	-1.00	-2.00	-2.00
00-0453-t	3.0943	0.0020	NA	NA	0.0646	NA	NA	0.5890	NA	80.72	MO	80.40	0.36	-1.00	-2.00	-2.00
99-0729-t	0.2020	-0.0010	NA	NA	0.0449	NA	NA	0.1060	NA	79.21	MO	81.40	0.21	-1.00	-2.00	-2.00
99-0730-t	3.1200	-0.0010	NA	NA	0.0383	NA	NA	0.2570	NA	78.75	M	78.50	0.46	-1.00	-2.00	-2.00
99-1268-t	0.7736	-0.0020	NA	NA	0.0223	NA	NA	0.3312	NA	78.81	MO	79.70	0.85	-1.00	-2.00	-2.00
99-1269-t	0.9065	0.0053	NA	NA	-0.0150	NA	NA	0.3442	NA	76.92	MO	77.40	2.37	-1.00	-2.00	-2.00
99-1266-t	3.6733	-0.0020	NA	NA	0.0459	NA	NA	0.3189	NA	76.08	MO	77.30	0.73	-1.00	-2.00	-2.00
99-0725-t	1.8800	-0.0010	NA	NA	-0.0150	NA	NA	0.9310	NA	78.45	M	79.60	0.33	-1.00	-2.00	-2.00
99-0749-t	0.6720	-0.0010	NA	NA	-0.0150	NA	NA	0.2500	NA	81.88	M	78.40	0.86	-1.00	2.08	-2.00
99-1265-t	0.9693	0.0079	NA	NA	0.0420	NA	NA	0.4953	NA	73.45	MO	73.30	3.17	-1.00	4.37	-2.00
99-1264-t	1.7747	-0.0020	NA	NA	-0.0150	NA	NA	0.8655	NA	77.06	MO	76.80	0.55	-1.00	-2.00	-2.00
99-1263-t	0.5851	-0.0020	NA	NA	0.1040	NA	NA	0.4394	NA	77.69	MO	77.70	0.57	-1.00	-2.00	-2.00
99-1215-t	1.3151	-0.0020	NA	NA	0.0545	NA	NA	0.2566	NA	73.78	MO	75.10	3.82	-1.00	-2.00	-2.00
99-1214-t	0.7769	-0.0020	NA	NA	0.0941	NA	NA	0.3487	NA	76.47	MO	77.70	1.14	-1.00	-2.00	-2.00
99-1217-t	2.1609	-0.0020	NA	NA	0.0874	NA	NA	0.4087	NA	76.31	MO	77.40	0.75	-1.00	-2.00	-2.00
99-0765-t	3.0900	-0.0010	NA	NA	0.0561	NA	NA	0.3020	NA	78.42	M	78.50	0.26	-1.00	-2.00	-2.00
99-1260-t	0.3229	-0.0020	NA	NA	-0.0150	NA	NA	0.2483	NA	77.20	MO	77.70	0.91	-1.00	-2.00	-2.00
99-1262-t	1.0856	-0.0020	NA	NA	-0.0150	NA	NA	0.3142	NA	74.65	MO	75.40	4.36	-1.00	5.74	3.20
99-1259-t	0.8110	-0.0020	NA	NA	0.1074	NA	NA	0.2997	NA	77.10	MO	77.30	0.70	-1.00	-2.00	-2.00
00-0672-t	0.5954	-0.0020	NA	NA	0.0831	NA	NA	0.1948	NA	77.23	MO	77.20	1.25	-1.00	-2.00	-2.00
00-0673-t	0.6009	-0.0020	NA	NA	0.1019	NA	NA	0.3217	NA	76.62	MO	76.30	1.28	-1.00	-2.00	-2.00

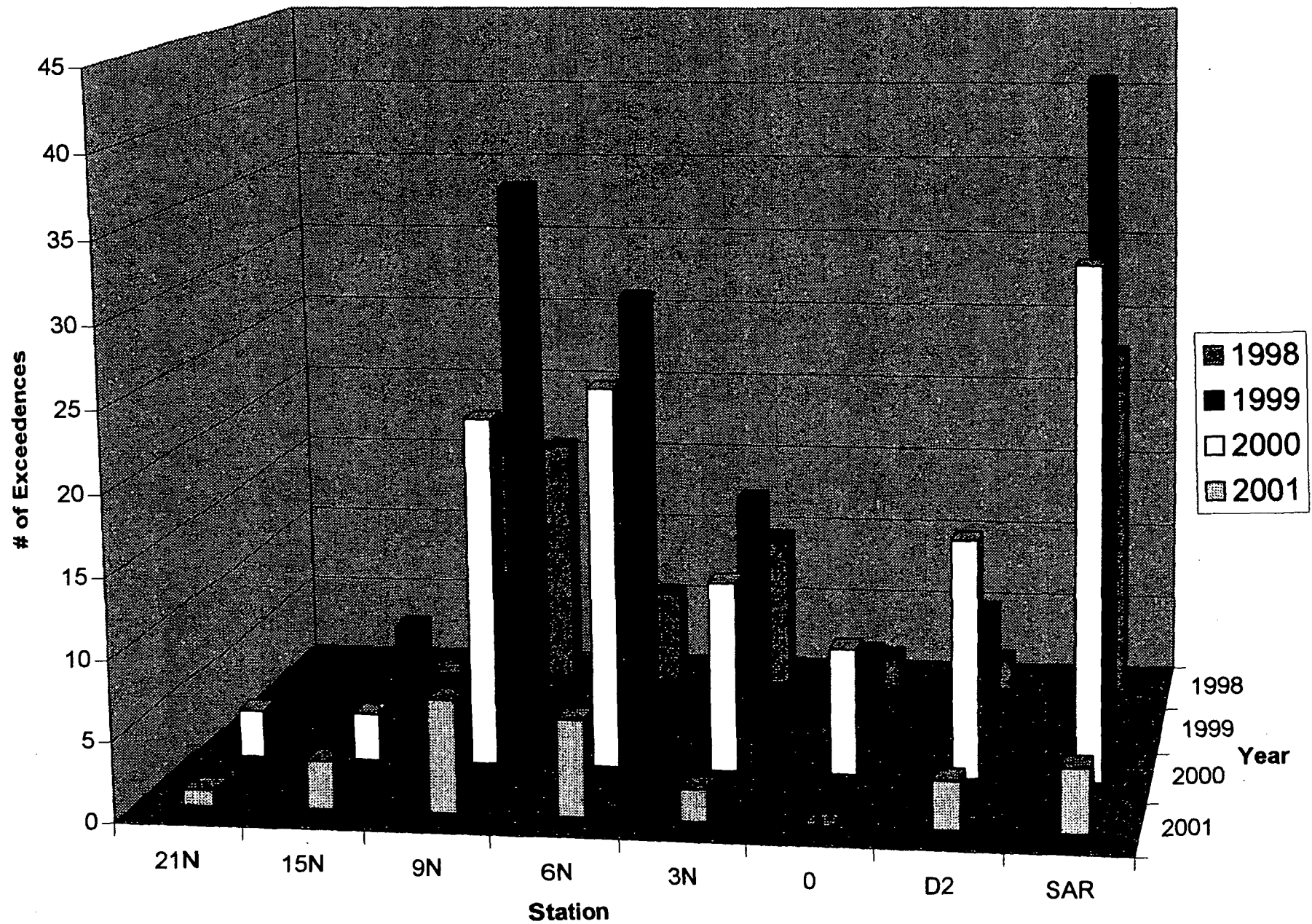
Sample ID	acden_w ng/g	gcden_w ng/g	clpyr_w ng/g	dacth_w ng/g	dddop_w ng/g	ddppp_w ng/g	ddeop_w ng/g	ddepp_w ng/g	ddmupp_w ng/g	ddtop_w ng/g	ddtpp_w ng/g	diazn_w ng/g	dield_w ng/g	endo1_w ng/g	endo2_w ng/g	endos_w ng/g	endrn_w ng/g	ethion_w ng/g	hcha_w ng/g	hchb_w ng/g	hchd_w ng/g	hchg_w ng/g	hep_w ng/g	hepox_w ng/g	hcb_w ng/g	
99-0532-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	87.10	4.43	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1467-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	15.80	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1468-t	-1.00	-1.00	-2.00	-2.00	-2.00	4.42	-2.00	117.00	7.41	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0821-t	-1.00	-1.00	-2.00	-2.00	-2.00	3.13	-2.00	92.30	8.96	-3.00	-5.00	-20.00	2.71	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0948-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	38.70	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0949-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	18.50	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1994-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	27.10	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1995-t	-1.00	-1.00	-2.00	-2.00	-2.00	11.50	2.11	172.00	9.32	-3.00	-5.00	-20.00	2.85	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1993-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	40.20	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0774-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	9.79	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0950-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	47.70	3.72	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0951-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	16.60	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0952-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	25.20	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1998-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	18.40	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1996	-1.00	-1.00	-2.00	-2.00	-2.00	2.36	3.02	84.30	5.64	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0764-t	-1.00	-1.00	-2.00	-2.00	-2.00	3.21	-2.00	105.00	9.14	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0773-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	3.93	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
00-0449-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	34.50	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
00-0453-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	22.30	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0729-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	8.76	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0730-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	12.60	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1268-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	27.50	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1269-t	-1.00	-1.00	-2.00	-2.00	-2.00	7.38	-2.00	113.00	5.21	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1266-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	25.40	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0725-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	17.60	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0749-t	-1.00	-1.00	-2.00	-2.00	-2.00	12.60	-2.00	177.00	7.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1265-t	-1.00	-1.00	-2.00	-2.00	-2.00	2.98	20.70	239.00	9.33	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1264-t	-1.00	-1.00	-2.00	-2.00	-2.00	3.76	-2.00	49.30	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1263-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	46.50	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1215-t	-1.00	-1.00	-2.00	-2.00	-2.00	5.22	2.21	175.00	11.90	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1214-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	49.10	4.21	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1217-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-0765-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	13.50	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	-5.00	-20.00	-2.00	-10.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1260-t	-1.00	-1.00	-2.00	-2.00	-2.00	2.70	-2.00	22.90	-3.00	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
99-1262-t	-1.00	-1.00	-2.00	-2.00	-2.00	5.54	20.20	3.83	229.00	14.50	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30
99-1259-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	67.40	3.25	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
00-0672-t	-1.00	-1.00	-2.00	-2.00	-2.00	3.51	-2.00	125.00	9.35	-3.00	-5.00	-20.00	2.70	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	
00-0673-t	-1.00	-1.00	-2.00	-2.00	-2.00	-2.00	-2.00	92.40	8.10	-3.00	-5.00	-20.00	-2.00	-2.00	NA	NA	-2.00	-6.00	-1.00	-2.00	NA	-1.00	-2.00	-1.00	-0.30	

Sample ID	mtthox_w ng/g	mirex ng/g	CNona_W ng/g	TNona_W ng/g	oxadzn_w ng/g	ocdan_w ng/g	epara_w ng/g	mpara_w ng/g	tetra_w ng/g	toxap_w ng/g	pcb1248_w ng/g	pcb1254_w ng/g	pcb1260_w ng/g	
99-0532-t	-10.00	-3.00	-2.00	2.84	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	63.00	-10.00	
99-1467-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	12.00	-10.00	
99-1468-t	-5.00	-3.00	-2.00	3.05	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	75.00	10.00	
99-0821-t	-10.00	-3.00	-2.00	1.84	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	53.30	-10.00	
99-0948-t	-10.00	-3.00	-2.00	1.05	-6.00	2.76	-8.00	-6.00	-4.00	-50.00	-50.00	28.30	-10.00	
99-0949-t	-10.00	-3.00	-2.00	-1.00	-6.00	1.72	-8.00	-6.00	-4.00	-50.00	-50.00	19.00	-10.00	
99-1994-t	5.92	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	86.00	11.00	
99-1995-t	-5.00	-3.00	-2.00	2.81	5.64	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	21.00	-10.00
99-1993-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	-10.00	-10.00	
99-0774-t	-10.00	-3.00	-2.00	-1.00	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	31.00	-10.00	
99-0950-t	-10.00	-3.00	-2.00	2.25	-6.00	6.19	-8.00	-6.00	-4.00	-50.00	-50.00	-10.00	-10.00	
99-0951-t	-10.00	-3.00	-2.00	1.70	-6.00	5.54	-8.00	-6.00	-4.00	-50.00	-50.00	16.00	-10.00	
99-0952-t	-10.00	-3.00	-2.00	1.49	-6.00	1.21	-8.00	-6.00	-4.00	-50.00	-50.00	14.30	-10.00	
99-1998-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	82.00	-10.00	
99-1996	-5.00	-3.00	-2.00	1.42	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	45.00	-10.00	
99-0764-t	-10.00	-3.00	-2.00	2.06	1.56	-1.00	14.60	-6.00	-4.00	-50.00	-50.00	-10.00	-10.00	
99-0773-t	-10.00	-3.00	-2.00	-1.00	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	23.00	-10.00	
00-0449-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	-10.00	-10.00	
00-0453-t	-5.00	-3.00	-2.00	1.48	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	-10.00	-10.00	
99-0729-t	-10.00	-3.00	-2.00	-1.00	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	-10.00	-10.00	
99-0730-t	-10.00	-3.00	-2.00	-1.00	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	14.00	-10.00	
99-1268-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	39.00	-10.00	
99-1269-t	-5.00	-3.00	-2.00	3.48	-3.00	-1.00	-2.00	5.03	-2.00	-20.00	-50.00	14.00	-10.00	
99-1266-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	-10.00	-10.00	
99-0725-t	-10.00	-3.00	-2.00	-1.00	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	48.00	-10.00	
99-0749-t	-10.00	-3.00	-2.00	5.33	-6.00	-1.00	-8.00	-6.00	-4.00	-20.00	-50.00	80.00	14.00	
99-1265-t	-5.00	-3.00	-2.00	3.37	8.20	-3.00	1.11	-2.00	-4.00	-2.00	-20.00	-50.00	11.00	-10.00
99-1264-t	-5.00	-3.00	-2.00	1.34	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	30.00	-10.00	
99-1263-t	-5.00	-3.00	-2.00	1.34	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	77.00	140.00	15.00
99-1215-t	-5.00	-3.00	-2.00	2.53	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	34.00	-10.00	
99-1214-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	17.00	-10.00	
99-1217-t	-5.00	-3.00	-2.00	-1.00	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	-10.00	-10.00	
99-0765-t	-10.00	-3.00	-2.00	-1.00	-6.00	-1.00	-8.00	-6.00	-4.00	-50.00	-50.00	28.00	-10.00	
99-1260-t	-5.00	-3.00	-2.00	1.49	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	160.00	18.00	
99-1262-t	-5.00	-3.00	-2.00	5.89	10.20	-3.00	1.20	-2.00	11.00	-2.00	-20.00	-50.00	49.00	-10.00
99-1259-t	-5.00	-3.00	-2.00	2.37	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	105.00	-10.00	
00-0672-t	-5.00	-3.00	-2.00	2.30	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	52.00	-10.00	
00-0673-t	-5.00	-3.00	-2.00	1.74	-3.00	-1.00	-2.00	-4.00	-2.00	-20.00	-50.00	-10.00	-10.00	

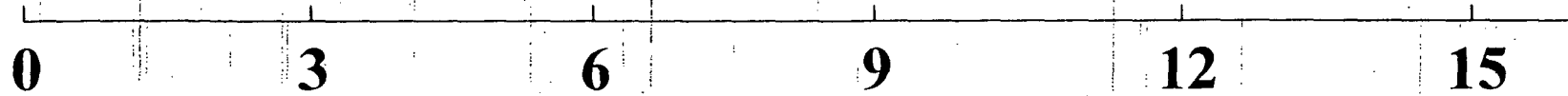
Fecal Coliform Exceedences (>400) by Year



Enterococci Exceedences (>104) by Year



Thousands of feet north of SAR



TC (Total coliform)		OK	
FC (Fecal coliform)		V	
Ent (Enterococcus)		V	
Posting			(+/- 500')

**Scenario 1:
Box 17**

TC	OK	OK	
FC	V	V	
Ent	V	V	
Posting	2N	7N	(1000' buffer at endpoints)

**Scenario 2:
Box 22 (2), 24**

TC		OK		OK
FC		V		OK
Ent		V		V
Posting	(-1000' from 6N)	5N	Box 22(1)	12.5N (+500' from 12N)

**Scenario 3:
Box 22(1), 24**

TC	OK	OK	
FC	V	OK	
Ent	V	V	
Posting	 (+/- 500')	 (+/- 150')	

**Scenario 4:
Box 23**

Blank= no violations; OK=no single sample standard violation; V=violation of single sample standard