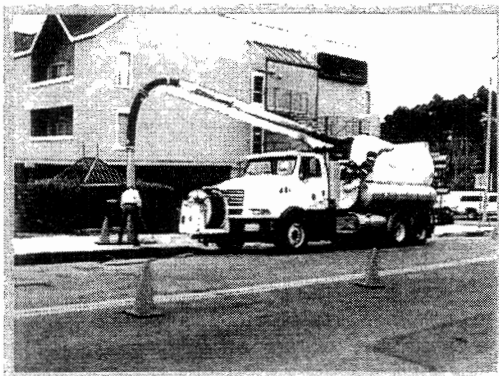
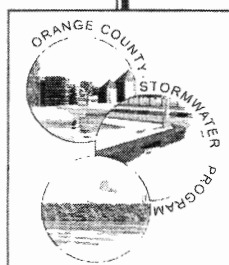


UNIFIED ANNUAL PROGRESS REPORT PROGRAM EFFECTIVENESS ASSESSMENT (San Diego Region)

2005-2006 Reporting Period



November 15, 2006



A COOPERATIVE PROJECT OF THE COUNTY OF
ORANGE, THE CITIES OF ORANGE COUNTY, AND
THE ORANGE COUNTY FLOOD CONTROL DISTRICT

Table C-11.29. Summary of CTR Exceedances Across All Program Elements

Watershed	Program	Weather	CTR Type	Station	Sampling Events	Cu	Ni	Zn
Aliso Creek	Bioassessment	Dry	FW	AC-CCR	2	0	0	0
Aliso Creek	Bioassessment	Dry	FW	ACJ01	2	0	0	0
Aliso Creek	Bioassessment	Dry	FW	AC-PPD	2	0	0	0
Aliso Creek	Bioassessment	Dry	FW	EC-MD	2	0	0	0
Aliso Creek	Bioassessment	Dry	FW	WC-WCT	1	0	0	0
Aliso Creek	AmbientCoastal	Dry	SW	ACM1	4	0	0	0
Aliso Creek	Mass Emissions	Storm	SW	ACJ01	10	2	0	0
Dana Point Coastal Streams	Bioassessment	Dry	FW	SC-MB	2	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	DAPTDC	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	DAPTEB	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	DAPTLB	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	DAPTLR	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	DAPTWB	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	NI-1	2	0	2	0
Dana Point Coastal Streams	AmbientCoastal	Dry	SW	SCM1	3	1	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	DAPTDC	3	1	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	DAPTEB	3	1	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	DAPTLB	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	DAPTLR	3	0	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	DAPTWB	3	2	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	NI-1	1	1	0	0
Dana Point Coastal Streams	AmbientCoastal	Storm	SW	SCM1	1	1	0	0
Laguna Coastal Streams	Bioassessment	Dry	FW	LC-133	2	0	0	0
Laguna Coastal Streams	AmbientCoastal	Dry	SW	LB-2	3	2	0	0
Laguna Coastal Streams	AmbientCoastal	Dry	SW	LB-3	3	0	0	0
Laguna Coastal Streams	AmbientCoastal	Dry	SW	LB-3u/c	1	0	0	0
Laguna Coastal Streams	AmbientCoastal	Dry	SW	LB-4	1	1	0	0
Laguna Coastal Streams	AmbientCoastal	Storm	SW	LB-2	1	1	0	0

Watershed	Program	Weather	CTR Type	Station	Sampling Events	Cu	Ni	Zn
Laguna Coastal Streams	AmbientCoastal	Storm	SW	LB2-DC	1	0	0	0
Laguna Coastal Streams	AmbientCoastal	Storm	SW	LB2-SDSZ	1	1	0	0
Laguna Coastal Streams	AmbientCoastal	Storm	SW	LB2-UC	1	0	0	0
Laguna Coastal Streams	AmbientCoastal	Storm	SW	LB-3	1	0	0	0
Laguna Coastal Streams	AmbientCoastal	Storm	SW	LB-4	1	1	0	0
Laguna Coastal Streams	Mass Emissions	Storm	SW	LCWI02	5	4	0	0
San Clemente Coastal Streams	Bioassessment	Dry	FW	SD-AP	2	0	0	0
San Clemente Coastal Streams	Mass Emissions	Storm	SW	PDCM01	9	9	8	0
San Clemente Coastal Streams	Mass Emissions	Storm	SW	SDCM02	7	6	0	0
San Juan Creek	Bioassessment	Dry	FW	REF-BC	2	0	0	0
San Juan Creek	Bioassessment	Dry	FW	REF-CS	2	0	0	0
San Juan Creek	Bioassessment	Dry	FW	REF-TCAS	2	0	0	0
San Juan Creek	Bioassessment	Dry	FW	SJC-74	2	0	0	0
San Juan Creek	Bioassessment	Dry	FW	SJC-CC	1	0	0	0
San Juan Creek	Bioassessment	Dry	FW	TC-AP	2	0	0	0
San Juan Creek	Bioassessment	Dry	FW	TC-DO	2	0	0	0
San Juan Creek	AmbientCoastal	Dry	SW	DSB1	4	4	1	1
San Juan Creek	AmbientCoastal	Dry	SW	DSB3	2	1	0	0
San Juan Creek	AmbientCoastal	Dry	SW	DSB5	2	1	1	1
San Juan Creek	AmbientCoastal	Dry	SW	DSB5j	1	0	0	0
San Juan Creek	AmbientCoastal	Dry	SW	SJC1	4	0	0	0
San Juan Creek	Mass Emissions	Storm	FW	TCOL02	9	0	0	0
San Juan Creek	AmbientCoastal	Storm	SW	DSB1	1	1	0	0
San Juan Creek	AmbientCoastal	Storm	SW	DSB3	1	1	0	0
San Juan Creek	AmbientCoastal	Storm	SW	DSB5	6	5	6	5
San Juan Creek	Mass Emissions	Storm	SW	SJNL01	9	1	0	0
San Mateo Creek	Bioassessment	Dry	FW	CC-CR	1	0	0	0

Table C-11.8
Aquatic Chemistry During Bioassessment Sampling - 2005-06 SDR

Location	Date	Type	Field Measurements				Turbidity NTU	Specific Conductance µS	pH	Nitrate as NO ₃	Ammonia as N	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃ mg/L
			EC	pH	TEMP	DO																								
			µS		C	mg/L																								
AC-CCR	12/13/05 12:15	DT	3321	7.79	11.08	13.39	1.05	3270	7.9	7.6	<0.1	0.7	0.73	0.2	<5	<1	<5	<5	<5	<5	1.5	<0.5	1.7	<0.5	28	<0.5	6.9	3.9	7.5	1210
AC-CCR	12/13/05 12:15	DF																			1	<0.5	1.5	<0.5	29	<0.5	6.8	3.9	7.4	
AC-CCR	6/29/06 13:10	DT	3067	8.02	24.67	12.77	1.52	3200	7.96	2.94	<0.1	0.44	0.64	0.14	5	2	<2	<1	<3	<3	0.87	<0.5	1.5	<0.5	24	<0.5	4.3			1350
AC-CCR	6/29/06 13:10	DF																			0.61	<0.5	1.2	<0.5	24	<0.5	4.1			
ACJ01	12/29/05 9:50	DT	3540	7.7	14.4	10.17	2.06	3670	7.87	7.7	0.5	0.9	0.76	0.19	<5	<1	<5	<5	<5	17.5	2.9	<0.5	2.2	<0.5	38	<0.5	11			1315
ACJ01	12/29/05 9:50	DF																			0.67	<0.5	1.4	<0.5	37	<0.5	7.9			
ACJ01	6/29/06 8:50	DT	3027	7.77	21.24	7.5	1.89	3180	7.71	4.87	0.23	0.88	0.82	0.17	9	1	<2	<1	<3	1170	2.4	<0.5	2.2	<0.5	32	<0.5	10			1090
ACJ01	6/29/06 8:50	DF																			0.84	<0.5	10	<0.5	29	<0.5	12			
AC-PPD	12/29/05 10:35	DT	2957	7.98	12.58	14.62	1.43	3050	8.08	6.1	0.3	0.6	0.46	0.1	<5	<1	<5	<5	<5	<5	<0.5	<0.5	2.1	<0.5	13	<0.5	3.7			1100
AC-PPD	12/29/05 10:35	DF																			<0.5	<0.5	1.8	<0.5	14	<0.5	4.2			
AC-PPD	6/29/06 7:50	DT	2638	7.83	21.37	7.47	1.54	2770	7.74	6.13	0.24	0.91	0.74	0.15	<5	<1	<2	<1	<3	<3	<0.5	<0.5	4	<0.5	14	<0.5	7.5			995
AC-PPD	6/29/06 7:50	DF																			<0.5	<0.5	2.9	<0.5	14	<0.5	7.1			
CC-CR	12/13/05 10:00	DT	1259	7.62	12.99	12.67	0.35	1160	7.61	<0.4	<0.1	0.2	<0.06	<0.02	<5	<1	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	3.9	<0.5	2.2	0.87	1.3	430
CC-CR	12/13/05 10:00	DF																			<0.5	<0.5	<0.5	<0.5	3.7	<0.5	2.3	0.85	1.3	
EC-MD	12/22/05 8:30	DT	2333	7.9	10.74	11.67	0.75	2400	7.95	3.8	0.2	0.9	0.62	0.17	<5	<1	<5	<5	<5	<5	0.68	<0.5	3.3	<0.5	12	<0.5	6	2.7	7.8	775
EC-MD	12/22/05 8:30	DF																			0.51	<0.5	2.2	<0.5	12	<0.5	6.2	2.8	7.3	
EC-MD	6/28/06 14:45	DT	1916	8.46	30.99	11.18	0.61	2000	8.49	<0.4	<0.1	0.39	0.31	0.08	<5	<1	<2	<1	<3	<3	<0.5	<0.5	2.4	<0.5	9.5	<0.5	3.6			585
EC-MD	6/28/06 14:45	DF																			<0.5	<0.5	2.4	<0.5	11	<0.5	5.3			
LC-133	12/29/05 11:30	DT	1941	7.93	14.15	10.98	0.64	2000	8.01	0.6	0.3	0.4	0.6	0.16	<5	<1	<5	<5	<5	<5	<0.5	<0.5	0.89	<0.5	8.7	<0.5	2.4			785
LC-133	12/29/05 11:30	DF																			<0.5	<0.5	0.85	<0.5	8.7	<0.5	3.4			
LC-133	6/29/06 14:12	DT	1833	7.78	21.99	9.31	1.48	1940	7.76	0.69	<0.1	0.44	0.89	0.19	5	2	<2	<1	<3	<3	<0.5	<0.5	0.74	<0.5	8.5	<0.5	3			900
LC-133	6/29/06 14:12	DF																			<0.5	<0.5	<0.5	<0.5	7.9	<0.5	3.1			
REF-BC	12/22/05 12:15	DT	939	7.77	15.97	10.05	0.19	894	8.04	<0.4	<0.1	<0.2	<0.06	<0.02	<5	<1	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	4	<0.5	<2	0.87	0.82	475
REF-BC	12/22/05 12:15	DF																			<0.5	<0.5	<0.5	<0.5	5.8	<0.5	<2	0.99	0.86	
REF-BC	6/30/06 10:00	DT	715	7.9	18.62	10.46	0.74	746	7.86	<0.4	<0.1	<0.4	0.08	<0.02	6	3	<2	<1	<3	<3	<0.5	<0.5	<0.5	<0.5	3.8	<0.5	<2			440
REF-BC	6/30/06 10:00	DF																			<0.5	<0.5	<0.5	<0.5	4.3	<0.5	<2			
REF-CS	12/14/05 11:45	DT	544	7.79	12.49	12.71	0.45	847	8.08	<0.4	<0.1	<0.2	<0.06	<0.02	<5	<1	<5	<5	<5	<5	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	<2	2.1	<0.5	190
REF-CS	12/14/05 11:45	DF																			<0.5	<0.5	<0.5	<0.5	1.5	<0.5	<2	2.1	<0.5	
REF-CS	6/28/06 11:45	DT	512	8.44	32.37	12.21	0.72	503	8.5	<0.4	<0.1	<0.4	0.06	<0.02	<5	<1	<2	<1	<3	<3	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<2			250
REF-CS	6/28/06 11:45	DF																			<0.5	<0.5	<0.5	<0.5	2	<0.5	<2			
REF-TCAS	12/22/05 10:40	DT	580	8.05	11.08	11	0.33	546	8.13	<0.4	<0.1	<0.2	<0.06	<0.02	<5	<1	<5	<5	<5	<5	<0.5	<0.5	0.65	<0.5	2.2	<0.5	<2	1.9	1.7	275
REF-TCAS	12/22/05 10:40	DF																			<0.5	<0.5	<0.5	<0.5	2.5	<0.5	<2	1.9	1.3	
REF-TCAS	6/30/06 9:00	DT	561	7.99	18.07	9.11	0.31	590	7.95	<0.4	<0.1	<0.2	<0.06	<0.02	<5	<1	<2	<1	<3	<3	<0.5	<0.5	0.6	<0.5	3.1	<0.5	<2			410
REF-TCAS	6/30/06 9:00	DF																			<0.5	<0.5	0.5	<0.5	3	<0.5	<2			

Table C-11.8
Aquatic Chemistry During Bioassessment Sampling - 2005-06 SDR

Location	Date	Type	Field Measurements				Turbidity NTU	Specific Conductance µS	pH	Nitrate as NO ₃	Ammonia as N	TKN	Total Phosphate as PO ₄ mg/L	ortho phosphate as P mg/L	TSS	VSS	Diazinon	Chlorpyrifos ng/L	Dimethoate ng/L	Malathion ng/L	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃ mg/L
			EC µS	pH	TEMP C	DO mg/L																								
SC-MB	12/13/05 11:15	DT	4147	7.61	12.06	12.69	2.18	4080	7.89	13.2	<0.1	0.8	1.14	0.33	<5	<1	28	<5	<5	31.3	1	0.89	4.5	<0.5	19	<0.5	12	1.7	11	1425
SC-MB	12/13/05 11:15	DF																			<0.5	0.8	3.1	<0.5	19	<0.5	8.7	1.7	9.1	
SC-MB	6/29/06 12:00	DT	3380	7.76	21.27	8.91	4.12	3530	7.74	10.6	0.39	1.56	1.88	0.53	6	2	286	<1	<3	43.2	0.74	0.71	8.9	<0.5	19	<0.5	20			1005
SC-MB	6/29/06 12:00	DF																			<0.5	<0.5	5.5	<0.5	19	<0.5	16			
SD-AP	12/13/05 8:50	DT	5798	7.12	8.5	12.25	1.03	5620	7.94	23.6	<0.1	1	0.79	0.26	<5	<1	<5	<5	<5	<5	3.3	0.55	3.1	<0.5	80	<0.5	9.4	3.4	36	1795
SD-AP	12/13/05 8:50	DF																			1.2	<0.5	3.2	<0.5	75	<0.5	7.6	3.2	35	
SD-AP	6/28/06 7:30	DT	4616	7.68	18.68	8.08	1.65	4850	7.73	19.4	<0.1	1.49	1.35	0.38	<5	1	<2	<1	<3	<3	4	0.5	4.6	<0.5	64	<0.5	14			1370
SD-AP	6/28/06 7:30	DF																			2.2	<0.5	3.9	<0.5	65	<0.5	14			
SJC-74	12/14/05 10:30	DT	1331	7.85	12.78	11.07	0.39	1320	7.62	3.4	<0.1	0.4	0.17	0.04	<5	<1	<5	<5	<5	<5	<0.5	<0.5	0.58	<0.5	4.4	<0.5	<2	2.3	1.2	460
SJC-74	12/14/05 10:30	DF																			<0.5	<0.5	0.54	<0.5	4.2	<0.5	2	2.2	1.2	
SJC-74	6/28/06 11:00	DT	1326	7.33	22.31	9.17	0.55	1540	7.54	<0.4	<0.1	<0.4	0.2	0.03	7	3	<2	<1	<3	<3	<0.5	<0.5	0.64	<0.5	6.3	<0.5	3.4			490
SJC-74	6/28/06 11:00	DF																			<0.5	<0.5	0.5	<0.5	6.4	<0.5	2.8			
SJC-CC	12/14/05 9:45	DT	1911	8.08	10.34	13.46	0.37	1900	8	0.8	<0.1	0.3	0.1	0.03	<5	<1	<5	<5	<5	<5	<0.5	<0.5	1	<0.5	9.5	<0.5	3.5	1.9	7.1	650
SJC-CC	12/14/05 9:45	DF																			<0.5	<0.5	0.91	<0.5	9.7	<0.5	3.5	1.9	6.4	
TC-AP	12/29/05 8:25	DT	1260	7.61	13.01	10.48	0.87	1310	8.02	<0.4	0.3	0.2	0.14	<0.02	<5	<1	<5	<5	<5	<5	<0.5	<0.5	0.68	<0.5	5.3	<0.5	2.1			490
TC-AP	12/29/05 8:25	DF																			<0.5	<0.5	0.53	<0.5	4.8	<0.5	<2			
TC-AP	6/28/06 14:00	DT	1118	8.24	22.17	14.51	0.89	1180	8.09	<0.4	<0.1	<0.4	0.29	0.07	7	3	<2	<1	<3	<3	<0.5	<0.5	<0.5	<0.5	5.2	<0.5	2			550
TC-AP	6/28/06 14:00	DF																			<0.5	<0.5	<0.5	<0.5	5.3	<0.5	2.3			
TC-DO	12/14/05 8:45	DT	2271	8.15	8.19	16.12	1.6	2260	8.11	0.5	<0.1	0.5	<0.06	<0.02	6	1	<5	<5	<5	<5	<0.5	<0.5	3.2	<0.5	8.7	<0.5	2.3	2.9	3.9	975
TC-DO	12/14/05 8:45	DF																			<0.5	<0.5	1.3	<0.5	9.8	<0.5	2.3	2.9	3.8	
TC-DO	6/28/06 10:00	DT	2169	8.2	26.24	9.96	6.49	2270	7.95	<0.4	<0.1	0.28	0.11	<0.02	14	3	43.7	<1	<3	<3	<0.5	<0.5	2	<0.5	11	<0.5	3.2			714
TC-DO	6/28/06 10:00	DF																			<0.5	<0.5	1.5	<0.5	11	<0.5	2.6			
WC-WCT	6/29/06 10:30	DT	1443	8.15	19.27	11.09	4.05	1510	8.01	7.52	<0.1	0.71	1.18	0.29	14	3	<2	<1	<3	<3	0.53	1.1	3.4	<0.5	12	<0.5	6.7			550
WC-WCT	6/29/06 10:30	DF																			<0.5	<0.5	2.2	<0.5	11	<0.5	5.4			

Table C-11.10
Mass Loads from Sampled Storms : 2005-06 SDR

Station	Period	Volume Sampled	Type	Nitrate As NO ₃	NH ₃ as N	TKN	Total Phos. as PO ₄	Ortho Phos. as P	TSS	VSS	Cd	Cr	Cu	Pb	Ni	Ag	Zn
		ac-ft		lbs			tons		lbs								
ACJ01	Dec 31, 2005-Jan 4, 2006	1556	Total	17398	2136	7560	6144	1440	393.2	94.53	11.78	22.23	61.27	13.25	113.23	1.06	214.46
			Dissolved								2.03	1.06	15.22	1.06	82.33	1.06	43.53
	Mar 10-14, 2006	380	Total	1426	94	253	352	63	3.56	1.19	2.43	2.08	11.29	2.71	25.06	0.26	45.96
			Dissolved								0.76	0.31	4.42	0.26	21.05	0.26	11.32
LCWI02	Dec 31, 2005-Jan 4, 2006	80	Total	942	54	278	291	110	8.27	0.93	0.05	0.9	2.23	0.81	1.55	0.05	6.2
			Dissolved								0.05	0.05	1.16	0.05	1.16	0.05	1.73
PDCM01	Dec 31, 2005-Jan 4, 2006	67	Total	1479	35	140	109	26	1.92	0.39	2.03	2.15	3.06	0.49	16.21	0.05	14.15
			Dissolved								1.88	1.11	2.37	0.28	16.04	0.05	11.03
	Mar 10-14, 2006	39	Total	211	4	23	13	1	0.45	0.12	1.1	0.49	2.01	0.2	10.04	0.03	10.15
			Dissolved								0.94	0.09	1.24	0.03	9.15	0.03	5.49
SDCM02	Dec 31, 2005-Jan 4, 2006	252	Total	4129	280	985	1026	315	37.98	5.85	2.86	5.31	8.26	1.32	24.17	0.17	33.61
			Dissolved								0.94	0.97	3.93	0.17	20.18	0.17	10.34
	Mar 10-14, 2006	140	Total	495	18	69	60	11	1.61	0.30	1.09	2.02	4.19	0.64	11.25	0.1	19.13
			Dissolved								0.46	0.46	1.84	0.1	9.01	0.1	4.75
SJNL01	Dec 31, 2005-Jan 4, 2006	300	Total	5919	375	2370	1570	417	436.2	58.43	2.26	25.05	24.72	6.08	26.97	0.2	83.95
			Dissolved								0.2	0.2	2.69	0.2	5.37	0.2	3.25
	Mar 10-14, 2006	121	Total	352	18	71	50	7	0.56	0.27	0.08	0.29	1.85	0.16	2.67	0.08	2.88
			Dissolved								0.08	0.08	1.49	0.08	2.4	0.08	1.23
TCOL02	Dec 31, 2005-Jan 5, 2006	990	Total	12777	1177	5880	5253	791	1023.2	109.10	7.96	42.6	65.94	16.56	59.68	0.67	220.3
			Dissolved								0.67	0.67	7.79	0.67	20.02	0.67	9.05
	Mar 10-14, 2006	230	Total	804	48	118	169	22	9.80	1.22	0.73	3.01	7.13	1.84	8.4	0.16	21.42
			Dissolved								0.16	0.49	2.28	0.16	5.96	0.16	2.57

Table C-11.11
Flow-Weighted Event Mean Concentrations from Sampled Storms : 2005-06 SDR

Station	Period	Volume	Type	Nitrate	NH ₃	TKN	Total	Ortho	TSS	VSS	Cd	Cr	Cu	Pb	Ni	Ag	Zn	Hardness
		Sampled		As NO ₃	as N		Phos.	Phos.										as PO ₄
		ac-ft		mg/L						µg/L								mg/L
ACJ01	Dec 31, 2005-Jan 4, 2006	1556	Total	4.11	0.51	1.79	1.45	0.34	185.96	44.70	2.79	5.26	14.49	3.13	26.77	0.25	50.71	611
			Dissolved									0.48	0.25	3.60	0.25	19.47	0.25	10.29
	Mar 10-14, 2006	380	Total	1.38	0.09	0.24	0.34	0.06	6.90	2.31	2.35	2.01	10.93	2.62	24.26	0.25	44.50	1196
			Dissolved									0.74	0.30	4.28	0.25	20.38	0.25	10.96
LCWI02	Dec 31, 2005-Jan 4, 2006	80	Total	4.33	0.25	1.28	1.34	0.51	76.03	8.52	0.23	4.14	10.26	3.73	7.13	0.23	28.51	274
			Dissolved									0.23	0.23	5.33	0.23	5.33	0.23	7.96
PDCM01	Dec 31, 2005-Jan 4, 2006	67	Total	8.12	0.19	0.77	0.60	0.14	21.09	4.33	11.15	11.81	16.80	2.69	89.01	0.27	77.70	1319
			Dissolved									10.32	6.10	13.01	1.54	88.08	0.27	60.57
	Mar 10-14, 2006	39	Total	1.99	0.04	0.22	0.12	0.01	8.45	2.31	10.38	4.62	18.96	1.89	94.72	0.28	95.75	1756
			Dissolved									8.87	0.85	11.70	0.28	86.32	0.28	51.79
SDCM02	Dec 31, 2005-Jan 4, 2006	252	Total	6.03	0.41	1.44	1.50	0.46	110.89	17.07	4.18	7.75	12.06	1.93	35.29	0.25	49.07	429
			Dissolved									1.37	1.42	5.74	0.25	29.46	0.25	15.10
	Mar 10-14, 2006	140	Total	1.30	0.05	0.18	0.16	0.03	8.47	1.59	2.86	5.31	11.01	1.68	29.56	0.26	50.27	1600
			Dissolved									1.21	1.21	4.84	0.26	23.68	0.26	12.48
SJNL01	Dec 31, 2005-Jan 4, 2006	300	Total	7.26	0.46	2.91	1.93	0.51	1069.97	143.31	2.77	30.72	30.32	7.46	33.08	0.25	102.96	327
			Dissolved									0.25	0.25	3.30	0.25	6.59	0.25	3.99
	Mar 10-14, 2006	121	Total	1.07	0.05	0.22	0.15	0.02	3.40	1.64	0.24	0.88	5.63	0.49	8.12	0.24	8.76	880
			Dissolved									0.24	0.24	4.53	0.24	7.30	0.24	3.74
TCOL02	Dec 31, 2005-Jan 5, 2006	990	Total	4.75	0.44	2.19	1.95	0.29	760.52	81.09	2.96	15.83	24.51	6.15	22.18	0.25	81.87	258
			Dissolved									0.25	0.25	2.90	0.25	7.44	0.25	3.36
	Mar 10-14, 2006	230	Total	1.29	0.08	0.19	0.27	0.04	31.34	3.89	1.17	4.81	11.41	2.94	13.44	0.26	34.26	618
			Dissolved									0.26	0.78	3.65	0.26	9.53	0.26	4.11

Table C-11.12
Aquatic Chemistry at Mass Emission Monitoring Sites . 2005-06 SDR

Site	Begin	End	Samples		Field Measurements				Turbidity	Specific Conductance	pH	Ammonia as N	Nitrate as NO ₃	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃
			Type	#	EC	pH	TEMP	DO																								
					µS		C	mg/L	NTU	µS					mg/L																	
ACJ01	12/31/05 15:36	12/31/05 16:36	ST	6					140	2270	7.65	0.7	6.7	5.1	2.64	0.14	642	156	< 5	< 5	< 5	360	39	14	52	9.4	130	< 0.5	280			634
ACJ01	12/31/05 15:36	12/31/05 16:36	SF	6																			0.54	< 0.5	2.6	< 0.5	47	< 0.5	11			
ACJ01	12/31/05 18:36	1/1/06 10:36	ST	9					22.4	1800	7.72	0.4	4	2.3	1.96	0.18	378	94	35.5	< 5	< 5	127	3.9	2.9	19	4.1	27	< 0.5	72			486
ACJ01	12/31/05 18:36	1/1/06 10:36	SF	9																			< 0.5	< 0.5	2.7	< 0.5	18	< 0.5	11			
ACJ01	1/1/06 11:57		SVC		2342	7.42	14.17	3.01																								
ACJ01	1/1/06 12:36	1/1/06 22:26	ST	6					11.8	2330	8.05	0.3	4.3	1.2	0.91	0.2	20	6	< 5	< 5	< 5	69.7	2	1.1	5.9	0.76	29	< 0.5	18			920
ACJ01	1/1/06 12:36	1/1/06 22:26	SF	6																			0.9	< 0.5	3.6	< 0.5	29	< 0.5	10			
ACJ01	1/2/06 0:36	1/3/06 10:36	ST	18					55	1420	7.76	0.6	4.1	1.6	1.25	0.22	103	23	< 5	< 5	< 5	60.2	2.2	7.1	13	2.9	26	< 0.5	43			650
ACJ01	1/2/06 0:36	1/3/06 10:36	SF	18																			0.52	< 0.5	4	< 0.5	19	< 0.5	10			
ACJ01	1/3/06 10:41		SVC		1959	7.76	13.41	11.09																								
ACJ01	1/3/06 12:36	1/4/06 16:36	ST	15					10.7	2550	8.11	0.2	4.8	1	0.89	0.2	17	4	19.1	< 5	< 5	< 5	1.9	1.1	7.1	0.95	30	< 0.5	18			790
ACJ01	1/3/06 12:36	1/4/06 16:36	SF	15																			1.2	< 0.5	4.6	< 0.5	28	< 0.5	9.5			
ACJ01	1/5/06 10:56		SVC		2905	7.79	12.24	10.37																								
ACJ01	3/10/06 16:49	3/10/06 17:49	ST	6					5.65	3390	8.17	0.3	6	0.7	0.76	0.11	18	5	< 5	< 5	< 5	< 5	3.5	0.92	6.8	< 0.5	50	< 0.5	19			1755
ACJ01	3/10/06 16:49	3/10/06 17:49	SF	6																			2.3	< 0.5	4.6	< 0.5	47	< 0.5	10			
ACJ01	3/10/06 19:49	3/11/06 17:49	ST	12															< 5	< 5	< 5	64	2.9	2.8	14	4	24	< 0.5	62			1270
ACJ01	3/10/06 19:49	3/11/06 17:49	SF	12																			0.64	< 0.5	3.9	< 0.5	18	< 0.5	12			
ACJ01	3/11/06 19:49	3/12/06 5:49	ST	6					16.6	1340	7.68	0.2	3	0.6	0.74	0.13	32	10					1.6	1.5	9.7	1.6	18	< 0.5	33			1652
ACJ01	3/11/06 19:49	3/12/06 5:49	SF	6																			0.65	0.58	6.1	< 0.5	18	< 0.5	12			
ACJ01	3/12/06 7:20		SVC		1811	7.84	10.21	11.28																								
ACJ01	3/12/06 7:49	3/13/06 23:49	ST	21					4.25	2150	7.98	0.2	3.2	0.5	0.88	0.15	7	3	< 2	< 1	< 3	19.5	1.5	0.58	4.8	< 0.5	27	< 0.5	13			670
ACJ01	3/12/06 7:49	3/13/06 23:49	SF	21																			0.89	< 0.5	3.7	< 0.5	25	< 0.5	7.8			
ACJ01	3/14/06 1:49	3/14/06 17:49	ST	9					2.07	2820	8.15	0.3	3.9	0.8	0.68	0.16	< 5	< 1	< 2	< 1	< 3	28.3	1.8	0.59	5.2	< 0.5	33	< 0.5	13			935
ACJ01	3/14/06 1:49	3/14/06 17:49	SF	9																			1.3	< 0.5	5	< 0.5	33	< 0.5	8.5			
ACJ01	3/14/06 8:48		SVC		2691	7.58	11.06	9.04																								
ACJ01	3/16/06 10:20		SVC		3260	7.82	12.91	13.68																								
DSB5	2/27/06 16:15		SVC		4071	7.23	16.49	8.28																								
DSB5	2/27/06 16:15	2/27/06 17:15	ST	6					64	3240	6.87	1.7	18.8	5.3	1.99	0.14	22	6	49.5	< 5	< 5	111	39	4.3	52	5.5	200	0.57	310	2.9	5.9	789
DSB5	2/27/06 16:15	2/27/06 17:15	SF	6																			33	1.4	32	< 0.5	190	< 0.5	200	1.9	6.3	
DSB5	2/27/06 19:15	2/28/06 17:15	ST	12					16.9	2040	7.18	0.5	10.2	1.3	0.76	0.19	22	6	219	< 5	< 5	68.6	19	1.7	14	2.2	96	< 0.5	110	2.1	3.6	516
DSB5	2/27/06 19:15	2/28/06 17:15	SF	12																			16	0.82	9.2	< 0.5	91	< 0.5	89	1.7	3.1	
DSB5	2/28/06 19:15	3/3/06 9:15	ST	30					2.26	8090	7.37	0.8	27	1.6	0.43	0.03	13	7	11.9	< 5	< 5	< 5	81	0.62	6.4	< 0.5	500	< 0.5	270	1.5	19	1800
DSB5	2/28/06 19:15	3/3/06 9:15	SF	30																			59	0.5	7.9	< 0.5	480	< 0.5	230	1.4	17	
DSB5	3/1/06 10:42		SVC		7664	7.1	16.68	8.22																								
DSB5	3/3/06 9:15		SVC		8732	6.87	15.56	13.73																								
DSB5	3/3/06 11:15	3/3/06 21:15	ST	6															< 5	< 5	< 5	111	31	1.9	20	3.9	150	< 0.5	180	1.8	5.3	630
DSB5	3/3/06 11:15	3/3/06 21:15	SF	6																			20	0.59	5.8	< 0.5	150	< 0.5	120	1.2	5.2	
DSB5	3/3/06 23:15	3/4/06 21:15	ST	12					7.47	7550	7.38	0.7	25.6	2.2	0.52	< 0.02	22	10	< 5	< 5	< 5	< 5	72	0.68	8.9	0.79	450	< 0.5	260	1.4	17	1920
DSB5	3/3/06 23:15	3/4/06 21:15	SF	12																			33	< 0.5	4.4	< 0.5	440	< 0.5	210	1	16	
LCWI02	12/31/05 13:07	12/31/05 14:07	ST	6					3.04	2010	8.31	0.5	2.7	0.8	0.58	0.1	35	10	< 5	< 5	< 5	< 5	< 0.5	1.7	9.1	3.2	8.8	< 0.5	24			472

ST - Stormwater, total metals SF - Stormwater, dissolved metals
SVC - Autosampler service time

e - estimated

Table C-11.12
Aquatic Chemistry at Mass Emission Monitoring Sites : 2005-06 SDR

Site	Begin	End	Samples		Field Measurements				Turbidity	Specific Conductance	pH	Ammonia as N	Nitrate as NO ₃	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃
			Type	#	EC	pH	TEMP	DO																								
					µS		C	mg/L	NTU	µS					mg/L																	mg/L
LCWI02	12/31/05 13:07	12/31/05 14:07	SF	6																			< 0.5	< 0.5	5.3	< 0.5	8.5	< 0.5	7.7			
LCWI02	12/31/05 16:07	1/1/06 10:07	ST	10					20.4	1070	7.88	0.4	5.9	1.7	1.67	0.37	88	22	< 5	< 5	< 5	18.3	< 0.5	4.8	12	3.9	8.2	< 0.5	35			250
LCWI02	12/31/05 16:07	1/1/06 10:07	SF	10																			< 0.5	< 0.5	6	< 0.5	5.6	< 0.5	9.7			
LCWI02	1/1/06 11:00		SVC		1288	8.3	14.57	13.32																								
LCWI02	1/1/06 12:07	1/2/06 4:06	ST	9																			< 0.5	0.67	8.4	0.59	6.2	< 0.5	12			840
LCWI02	1/1/06 12:07	1/2/06 4:06	SF	9					4.36	1260	8.22	0.7	4.1	0.7	0.82	0.24	5	3	< 5	< 5	< 5	35.8	< 0.5	< 0.5	6.4	< 0.5	7	< 0.5	9.9			
LCWI02	1/2/06 6:07	1/3/06 10:07	ST	15					52	733	7.94	0.2	3.9	1.2	1.3	0.31	80	3	< 5	< 5	< 5	< 5	< 0.5	4.3	10	4.1	6.7	< 0.5	28			240
LCWI02	1/2/06 6:07	1/3/06 10:07	SF	15																			< 0.5	< 0.5	5.1	< 0.5	5	< 0.5	7.3			
LCWI02	1/3/06 11:20		SVC		1192	8.2	13.02	18.16																								
LCWI02	1/3/06 12:07	1/4/06 16:07	ST	15					2.34	1590	8.37	< 0.1	2.8	0.5	0.66	0.19	< 5	< 1	< 5	< 5	< 5	47.3	< 0.5	< 0.5	3.6	< 0.5	6.4	< 0.5	4.9			420
LCWI02	1/3/06 12:07	1/4/06 16:07	SF	15																			< 0.5	< 0.5	3.4	< 0.5	6.4	< 0.5	3.9			
LCWI02	1/5/06 10:52		SVC		1720	8.0	12.42	14.57																								
PDCM01	12/31/05 6:28	12/31/05 7:28	ST	6					60	10300	8.01	0.5	17.5	1.2	0.95	0.13	44	14	e 7.6	< 5	< 5	55.7	31	2.5	12	1.3	210	< 0.5	120			1284
PDCM01	12/31/05 6:28	12/31/05 7:28	SF	6																			16	0.61	6.5	< 0.5	230	< 0.5	57			
PDCM01	12/31/05 9:28	1/1/06 9:28	ST	13					6.53	6430	7.98	0.4	16.9	1.6	1.25	0.3	43	9	26.4	< 5	< 5	153	14	1.7	10	1.2	100	< 0.5	55			1620
PDCM01	12/31/05 9:28	1/1/06 9:28	SF	13																			12	0.71	7.5	< 0.5	100	< 0.5	38			
PDCM01	1/1/06 9:28		SVC		6927	7.81	14.89	11.81																								
PDCM01	1/1/06 11:28	1/1/06 15:28	ST	3								0.7	20.3	1.4	0.7				< 5	< 5	< 5	< 5										2795
PDCM01	1/1/06 11:28	1/1/06 15:28	SF	3																			16	0.67	6.3	< 0.5	150	< 0.5	18			
PDCM01	1/1/06 17:28	1/3/06 7:28	ST	20																			8.5	21	23	4.1	78	< 0.5	98			1020
PDCM01	1/1/06 17:28	1/3/06 7:28	SF	20					312	3470	7.78	0.7	11.8	1.5	1.86	0.3	685	73	13.9	< 5	< 5	91.7	8.7	11	18	2.7	76	< 0.5	81			
PDCM01	1/3/06 9:05		SVC		5582	7.74	13.88	11.53																								
PDCM01	1/3/06 9:28	1/4/06 7:28	ST	12					26.9	7070	7.97	0.2	15.8	1.5	0.88	0.14	89	11	< 5	< 5	< 5	< 5	14	4.7	10	0.91	120	< 0.5	59			2015
PDCM01	1/3/06 9:28	1/4/06 7:28	SF	12																			13	0.72	6.3	< 0.5	100	< 0.5	32			
PDCM01	1/5/06 9:40		SVC		8031	7.84	14.07	11.98																								
PDCM01	3/10/06 11:40	3/10/06 12:40	ST	6					70.4	3900	7.06	0.7	8.8	2.5	2.02	< 0.02	263	69	< 5	< 5	< 5	603	19	7.8	40	9	120	< 0.5	270			1580
PDCM01	3/10/06 11:40	3/10/06 12:40	SF	6																			9.5	1	12	< 0.5	98	< 0.5	71			
PDCM01	3/10/06 14:40	3/11/06 12:40	ST	12															32.2	< 5	< 5	268	9.7	5.4	21	2	88	< 0.5	98			1740
PDCM01	3/10/06 14:40	3/11/06 12:40	SF	12																			8.1	0.94	13	< 0.5	80	< 0.5	51			
PDCM01	3/11/06 13:56		SVC		2567	7.48	13.08	13.1																								
PDCM01	3/11/06 14:40	3/12/06 8:40	ST	10					9.56	4010	7.9	0.3	7.6	0.9	0.47	0.08	18	5					7	0.92	7	< 0.5	71	< 0.5	79			1230
PDCM01	3/11/06 14:40	3/12/06 8:40	SF	10																			6.8	0.54	6.2	< 0.5	68	< 0.5	69			
PDCM01	3/12/06 9:45		SVC		5230	8.04	11.86	13.7																								
PDCM01	3/12/06 10:40	3/14/06 8:40	ST	24					3.2	6750	8.07	0.1	11.1	0.9	0.38	0.07	9	3	< 2	< 1	< 3	296	14	0.9	6.9	< 0.5	140	< 0.5	59			2100
PDCM01	3/12/06 10:40	3/14/06 8:40	SF	24																			14	0.7	6.1	< 0.5	130	< 0.5	51			
PDCM01	3/14/06 10:40		SVC		8932	8.3	13.67	17.8																								
SDCM02	12/31/05 14:37	12/31/05 15:37	ST	6					150	1370	7.46	0.8	6.3	5.2	2.32	0.12	504	142	172	< 5	< 5	475	11	22	46	17	110	< 0.5	330			296
SDCM02	12/31/05 14:37	12/31/05 15:37	SF	6																			< 0.5	0.67	5.2	< 0.5	22	< 0.5	21			
SDCM02	12/31/05 17:37	1/1/06 9:37	ST	9					34	1820	7.74	0.3	6.3	1.5	1.49	0.31	76	15	< 5	< 5	< 5	68.2	4.6	3.7	11	1.5	38	< 0.5	49			416
SDCM02	12/31/05 17:37	1/1/06 9:37	SF	9																			1.3	1.3	5.1	< 0.5	31	< 0.5	18			

ST - Stormwater, total metals SF - Stormwater, dissolved metals
SVC - Autosampler service time

e - estimated

Table C-11.12
Aquatic Chemistry at Mass Emission Monitoring Sites : 2005-06 SDR

Site	Begin	End	Samples		Field Measurements				Turbidity	Specific Conductance	pH	Ammonia as N	Nitrate as NO ₃	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃
			Type	#	EC	pH	TEMP	DO																								
					µS		C	mg/L	NTU	µS					mg/L																	
SDCM02	1/1/06 11:37	1/3/06 7:37	ST	23					95.2	1200	7.82	0.5	5.7	1.4	1.52	0.29	140	19	< 5	< 5	< 5	77.7	3.9	11	13	2.3	33	< 0.5	50			430
SDCM02	1/1/06 11:37	1/3/06 7:37	SF	23																			1.4	1.5	6.2	< 0.5	28	< 0.5	13			
SDCM02	1/1/06 14:37		SVC		2066	7.72	14.15	12.37																								
SDCM02	1/3/06 8:41		SVC		1766	8.18	12.54	12.53																								
SDCM02	1/3/06 9:37	1/4/06 19:37	ST	18					13.6	2860	8.14	0.1	10.7	1.2	1.08	0.24	20	4	< 5	< 5	< 5	< 5	2.9	1.9	7.6	0.55	45	< 0.5	19			765
SDCM02	1/3/06 9:37	1/4/06 19:37	SF	18																			2.2	1.6	6.7	< 0.5	42	< 0.5	13			
SDCM02	1/5/06 9:14		SVC		4362	7.83	12.63	15.03																								
SDCM02	3/10/06 15:13	3/11/06 13:13	ST	12															< 5	< 5	< 5	71	2.9	8.2	12	2	26	< 0.5	58			1684
SDCM02	3/10/06 15:13	3/11/06 13:13	SF	12																			1	1.2	4.6	< 0.5	19	< 0.5	13			
SDCM02	3/11/06 15:13	3/12/06 15:13	ST	13					30.5	2040	8.05	0.2	6	0.7	0.91	0.17	58	10					2.1	3	8.6	0.98	36	< 0.5	30			1652
SDCM02	3/11/06 15:13	3/12/06 15:13	SF	13																			1.4	1.2	5.5	< 0.5	33	< 0.5	13			
SDCM02	3/12/06 9:15		SVC		2460	8.47	10.77	18.83																								
SDCM02	3/12/06 17:13	3/14/06 9:13	ST	24					3.72	3210	8.63	0.2	5.2	0.9	0.41	0.08	10	3	< 2	< 1	< 3	< 3	3.4	1.5	6.5	< 0.5	48	< 0.5	17			880
SDCM02	3/12/06 17:13	3/14/06 9:13	SF	24																			2.5	1.2	5.8	< 0.5	47	< 0.5	7.9			
SDCM02	3/14/06 12:14		SVC		4936	8.83	15.7	19.96																								
SJNL01	12/31/05 14:56	12/31/05 15:56	ST	6					18.2	1280	7.81	0.5	2.6	2.4	1.28	0.05	159	51	20	< 5	< 5	28.4	0.63	1.3	9.4	1.3	8.8	< 0.5	24			320
SJNL01	12/31/05 14:56	12/31/05 15:56	SF	6																			< 0.5	< 0.5	3.4	< 0.5	8.1	< 0.5	6.9			
SJNL01	12/31/05 17:56	1/1/06 9:56	ST	9					15.7	1340	7.83	0.3	6.3	1.2	0.95	0.1	47	15	< 5	< 5	< 5	< 5	< 0.5	0.51	5	0.52	5.6	< 0.5	8.8			354
SJNL01	12/31/05 17:56	1/1/06 9:56	SF	9																			< 0.5	< 0.5	2.9	< 0.5	6.9	< 0.5	5.4			
SJNL01	1/1/06 11:58	1/2/06 9:58	ST	12					1.99	1060	8.12	0.6	3.3	0.6	0.32	0.07	5	3	< 5	< 5	< 5	< 5	< 0.5	< 0.5	3.1	< 0.5	5.4	< 0.5	6			
SJNL01	1/1/06 11:58	1/2/06 9:58	SF	12																			< 0.5	< 0.5	3	< 0.5	7	< 0.5	5.8			
SJNL01	1/1/06 14:56		SVC		1249	7.35	13.39	3.24																								
SJNL01	1/2/06 11:58	1/3/06 3:58	ST	9					1080	905	7.63	0.6	9.3	4.6	2.97	0.41	1910	253	< 5	< 5	< 5	< 5	4.8	55	51	13	55	< 0.5	180			375
SJNL01	1/2/06 11:58	1/3/06 3:58	SF	9																			< 0.5	< 0.5	3.2	< 0.5	6.8	< 0.5	3.2			
SJNL01	1/3/06 5:58	1/4/06 15:58	ST	18					8.99	1390	8.1	< 0.1	4.6	0.6	0.58	0.14	15	2	< 5	< 5	< 5	< 5	< 0.5	0.57	5.1	0.78	6	< 0.5	5.8			390
SJNL01	1/3/06 5:58	1/4/06 15:58	SF	18																			< 0.5	< 0.5	4.1	< 0.5	5.4	< 0.5	4			
SJNL01	1/3/06 9:29		SVC		1158	8.04	12.58	11.39																								
SJNL01	1/5/06 9:11		SVC		1383	7.97	13.27	10.13																								
SJNL01	3/10/06 23:34	3/11/06 0:34	ST	6					6.22	1260	8.01	0.2	1.1	0.3	0.38	< 0.02	19	5	< 5	< 5	< 5	< 5	< 0.5	0.68	5.7	0.81	7.1	< 0.5	17			1647
SJNL01	3/10/06 23:34	3/11/06 0:34	SF	6																			< 0.5	< 0.5	3.4	< 0.5	7.2	< 0.5	7			
SJNL01	3/11/06 2:34	3/12/06 0:34	ST	12															19.8	< 5	< 5	15.8	< 0.5	1.9	8.3	0.88	8.3	< 0.5	15			1648
SJNL01	3/11/06 2:34	3/12/06 0:34	SF	12																			< 0.5	< 0.5	6.2	< 0.5	6.8	< 0.5	4.6			
SJNL01	3/12/06 2:34	3/14/06 8:34	ST	28					1.91	1330	8	0.1	2	0.4	0.28	0.04	6	3	< 2	< 1	< 3	< 3	< 0.5	< 0.5	4	< 0.5	8.1	< 0.5	4.8			385
SJNL01	3/12/06 2:34	3/14/06 8:34	SF	28																			< 0.5	< 0.5	3.5	< 0.5	7.9	< 0.5	3.1			
SJNL01	3/12/06 10:16		SVC		1269	8.11	11.85	11.91																								
SJNL01	3/14/06 9:57		SVC		1371	7.73	13.04	9.83																								
SJNL01	3/14/06 10:34	3/14/06 20:34	ST	6																			< 0.5	< 0.5	3.7	< 0.5	7.7	< 0.5	4.4			430
SJNL01	3/14/06 10:34	3/14/06 20:34	SF	6					0.85	1370	8.06	0.2	1.3	0.3	0.2	0.02	< 5	< 1	< 2	< 1	< 3	< 3	< 0.5	< 0.5	3.6	< 0.5	5.7	< 0.5	3.5			
SJNL01	3/16/06 9:40		SVC		1384	7.85	13.81	13.08																								
TCOL02	12/31/05 16:15	12/31/05 17:15	ST	6					320	1640	7.69	1.2	3.7	4.9	2.5	0.05	2350	348	84.3	< 5	< 5	104	8.8	35	65	21	58	< 0.5	260			456

ST - Stormwater, total metals SF - Stormwater, dissolved metals
SVC - Autosampler service time

e - estimated

Table C-11.12
Aquatic Chemistry at Mass Emission Monitoring Sites : 2005-06 SDR

Site	Begin	End	Samples		Field Measurements				Turbidity	Specific Conductance	pH	Ammonia as N	Nitrate as NO ₃	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion											Hardness as CaCO ₃
			Type	#	EC	pH	TEMP	DO																									
			µS		C	mg/L	NTU	µS																									
TCOL02	12/31/05 16:15	12/31/05 17:15	SF	6																			< 0.5	< 0.5	1.9	< 0.5	13	< 0.5	5.9				
TCOL02	12/31/05 19:15	1/1/06 9:15	ST	8							0.3	4	2.1	2.57					< 5	< 5	< 5	110	5.8	27	43	10	38	< 0.5	150			210	
TCOL02	12/31/05 19:15	1/1/06 9:15	SF	8																			< 0.5	< 0.5	2.9	< 0.5	8.4	< 0.5	5.8				
TCOL02	1/1/06 16:15		SVC		934	7.48	14.27	3.48																									
TCOL02	1/2/06 11:47	1/3/06 9:47	ST	12					424	655	7.76	0.5	5.1	2.3	1.88	0.21	1060	110	16.5	< 5	< 5	49.7	2.1	13	19	5	17	< 0.5	61			250	
TCOL02	1/2/06 11:47	1/3/06 9:47	SF	12																			< 0.5	< 0.5	2.8	< 0.5	6.8	< 0.5	2.2				
TCOL02	1/3/06 9:53		SVC		921	8	13.47	11.87																									
TCOL02	1/3/06 11:47	1/5/06 21:47	ST	18					13.3	1400	8.17	0.1	4.2	0.7	0.52	0.14	20	4	< 5	< 5	< 5	14.7	< 0.5	1.3	5.6	0.61	10	< 0.5	10			425	
TCOL02	1/3/06 11:47	1/5/06 21:47	SF	18																			< 0.5	< 0.5	4	< 0.5	8.8	< 0.5	5.6				
TCOL02	1/5/06 9:46		SVC		1836	8.12	13.56	11.55																									
TCOL02	3/10/06 19:47	3/10/06 20:47	ST	6					88	2220	8.06	0.1	2.5	0.7	1.56	0.03	384	41	< 5	< 5	< 5	96.2	1.8	8.4	21	6.4	24	< 0.5	87			1305	
TCOL02	3/10/06 19:47	3/10/06 20:47	SF	6																			< 0.5	0.53	3.7	< 0.5	17	< 0.5	5.6				
TCOL02	3/10/06 22:47	3/11/06 20:47	ST	12															21.3	< 5	< 5	96.8	1.8	8	17	5	17	< 0.5	54			690	
TCOL02	3/10/06 22:47	3/11/06 20:47	SF	12																			< 0.5	< 0.5	4	< 0.5	9.8	< 0.5	4.6				
TCOL02	3/11/06 22:47	3/12/06 14:47	ST	9					18.7	844	7.76	0.1	3	0.4	0.71	0.08	92	11					0.8	2.1	6.7	1.3	8.8	< 0.5	19			575	
TCOL02	3/11/06 22:47	3/12/06 14:47	SF	9																			< 0.5	2.6	3.3	< 0.5	7.5	< 0.5	4				
TCOL02	3/12/06 9:52		SVC		860	8.38	11.74	10.81																									
TCOL02	3/12/06 16:47	3/14/06 2:47	ST	21					7.59	1230	8.11	0.2	2.4	0.3	0.34	0.06	16	3	14.8	< 1	< 3	32.4	< 0.5	1.1	4.5	< 0.5	10	< 0.5	7.4			435	
TCOL02	3/12/06 16:47	3/14/06 2:47	SF	21																			< 0.5	< 0.5	3.3	< 0.5	10	< 0.5	3.4				
TCOL02	3/14/06 4:47	3/14/06 20:47	ST	9					1.27	1690	8.3	0.2	1.3	0.4	0.21	0.06	< 5	< 1	< 2	< 1	< 3	< 3	< 0.5	< 0.5	3.4	< 0.5	9.8	< 0.5	3.4			590	
TCOL02	3/14/06 4:47	3/14/06 20:47	SF	9																			< 0.5	< 0.5	3.1	< 0.5	11	< 0.5	2.4				
TCOL02	3/14/06 9:24		SVC		1591	7.99	12.86	10.09																									
TCOL02	3/16/06 9:00		SVC		1947	7.96	13.67	19.69																									

ST - Stormwater, total metals SF - Stormwater, dissolved metals
SVC - Autosampler service time

e - estimated

Table C-11.13. Summary of Exceedances of CTR Criteria at Mass Loading Stations for Sampled Storms 2005 – 2006

Station	Channel	Sample Size		Saltwater				
		Acute	Chronic	Acute			Chronic	
				Cu	Ni	Cd	Cu	Ni
ACJ01	Aliso Creek in Aliso/Wood Canyon Park	10	2	2			2	2
LCWI02	Laguna Canyon Channel at Woodland	5	1	4			1	
PDCM01	Prima Desheca at Calle Grande Vista	9	2	9	8	2	2	2
SDCM02	Segunda Desheca at El Camino Real	7	2	6			2	2
SJNL01	San Juan Creek at La Novia	9	2	1			2	
TCOL02	Trabuco Creek at Del Obispo	9	2					
Totals		49	11	22	8	2	9	6

No exceedances of the CTR criteria for dissolved metals in freshwater were observed

Table C-11.19. Conditions at Drains of Highest Concern¹

	Exceedances (proportion)				Regression (p value)				Flow & Mouth	Watershed Description
	All Data		Flows to Ocean		All Data		Flows to Ocean			
Drain	Year	AB411	Year	AB411	Year	AB411	Year	AB411		
PEARL	.04	.03	.08	.06	1 E .0005 F .0001 T	1 E .0001 F .0001 T	1 E .0018 F .0001 T	1 E .0001 F .0001 T	Flows only in wet weather; very low flow Drains to sand below outlet Outlet can be inundated by high tides Diverted during dry season	Residential area
Aliso Crk ACM1	.05	.06	.06	.07	.0001 All	.0001 A	.0001 A	.0625 E .0034 F .0001 T	Flows ~90% of time; 2 nd highest flow Occasionally barricaded by berm	Partly rural, wilderness park
Salt Crk SCM1	.14	.17	.07	.04	.0001 All	.001 E .0001 F .0001 T	.0001 A	.0001 E .0001 F .0001 T	Flows ~90% of time; 3 rd highest flow Large stagnant scour pond always present on beach, with many birds Flows from pond to surfzone Ozone treatment plant just upstera of scour pond	Underground last 3 – 400 yds Aboveground through golf course and residential area
San Juan Crk SJC1	.25	.13	.47	.28	.0001 E .0055 F .0021 T	.0679 E .0319 F .0008 T	.0001 E .0001 F .001 T	.0421 E .0017 F .0217 T	Flows about 75% of time; highest flow Occasionally barricaded by berm in summer Stagnant lagoon that drains to surfzone under sand	Residential area Bird refuge at bottom with 1 – 2000 birds Large wildernees area upstream of San Juan Capistrano
Poche Bch POCHE	.14	.15	.14	.15	.0124 E .0001 F .0001 T	.0006 E .0038 F .0084 T	.0026 E .0001 F .0009 T	.0001 E .0004 F .0132 T	Flows ~80% of time; 4 th highest flow Large stagnant scour pond that regularly flows to surfzone	Entirely residential

¹ Flow ranks are relative and refer only to this group of five drains. E, F, and T in the Regression column refer, respectively, to Enterococcus, fecal coliforms, and total coliforms.

Table C-11.20
Aquatic Chemistry at Ambient Coastal Receiving Water Stations: 2005-06 SDR

Location	Date	Type	Field Measurements				Turbidity NTU	Specific Conductance µS	pH	Nitrate as NO ₃	Ammonia as N	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃ mg/L
			EC µS	pH	TEMP C	DO mg/L																								
ACM1	9/16/05 11:30	DT	7653	7.66	20.22	11.88	2.31	6440	8.0	2.8	0.1	0.8	0.71	0.17	8	4	< 10	< 10	< 10	< 10	0.95	< 0.5	1.9	< 0.5	27	< 0.5	6.3			1140
ACM1	9/16/05 11:30	DF																			0.57	< 0.5	1.4	< 0.5	19	< 0.5	6.3			
ACM1	12/2/05 11:45	DT	5549	7.72	15.45	12.4	1.83	6670	8.0	5.5	1.8	2.6	1.33	0.38	< 5	< 1	< 5	< 5	< 5	< 5	2	< 0.5	2.1	< 0.5	27	< 0.5	5.9			1350
ACM1	12/2/05 11:45	DF																			1.5	< 0.5	1.5	< 0.5	23	< 0.5	7.8			
ACM1	1/14/06 12:05	DT					1.35	6800	8.0	4.7	< 0.1	0.6	0.6	0.16	< 5	< 1	< 5	17.7	< 5	< 5	1.3	< 0.5	1.8	< 0.5	32	< 0.5	6			
ACM1	1/14/06 12:05	DF																			1.1	< 0.5	1.2	< 0.5	28	< 0.5	4			
DAPTDC	9/20/05 13:56	DT	52420	8.65	18.42	7.05	1.39	54700	8.0	< 0.4	< 0.1	< 0.2	0.17	< 0.02	18	8	< 10	< 10	< 10	< 10	0.039	0.66	2.86	0.172	0.42	< 0.005	5.29	1.26	0.024	
DAPTDC	9/20/05 13:56	DF																			0.088	0.25	3.44	0.049	0.635	< 0.005	16.5	1.33	0.02	
DAPTDC	3/10/06 10:56	ST	50429	7.91	13.15	8.42	1.87	52900	7.8	0.8	< 0.1	0.4	0.17	0.05	< 5	< 1	< 2	< 1	< 3	< 3	0.068	0.57	6.81	0.133	0.371	< 0.02	16.7	1.4	0.019	
DAPTDC	3/10/06 10:56	SF																			0.064	0.28	5.08	0.027	0.296	< 0.02	17.1	1.39	0.015	
DAPTDC	3/13/06 11:40	ST	53213	7.91	13.39	9.22	1.04	52700	7.8	1.1	0.1	0.4	0.18	0.05	< 5	< 1	< 2	< 1	< 3	< 3	0.05	0.455	4.34	0.086	0.343	< 0.02	12.2	1.35	e 0.015	
DAPTDC	3/13/06 11:40	SF																			0.088	0.235	3.8	0.031	0.306	< 0.02	8.94	1.23	0.033	
DAPTDC	3/15/06 10:35	ST	54363	7.86	13.08	9.43											< 2	< 1	< 3	< 3	0.073	0.305	5.42	0.073	0.395	< 0.02	9.83	1.27	0.019	
DAPTDC	3/15/06 10:35	SF																			0.069	0.225	4.51	0.02	0.388	< 0.02	9.74	1.26	< 10	
DAPTDC	6/15/06 11:55	DT	58724	8	19.51	9.3	1.56	52200	7.9	< 0.4	0.11	0.2	1.12	0.02	< 5	1	< 2	< 1	< 3	< 3	0.053	0.46	5.498	0.08	0.384	< 0.02	7.665	0.989	e 0.012	
DAPTDC	6/15/06 11:55	DF																			0.042	0.32	3.822	0.013	0.351	< 0.02	8.405	1.081	e 0.01	
DAPTEB	9/20/05 11:22	DT	52590	8.57	19.92	6.33	1.33	54500	7.9	< 0.4	0.1	< 0.2	0.24	0.03	< 5	< 1	< 10	< 10	< 10	< 10	0.094	0.96	7.59	0.338	0.773	< 0.005	17.1	1.15	0.028	
DAPTEB	9/20/05 11:22	DF																			0.066	0.24	2.17	0.02	0.511	< 0.005	13.8	0.984	0.022	
DAPTEB	3/10/06 9:30	ST	44660	7.88	13.05	8.47	7.5	45200	7.7	1.3	< 0.1	0.7	0.48	0.08	16	6	< 2	< 1	< 3	< 3	0.147	0.66	7.1	0.227	0.82	< 0.02	29.2	1.36	0.013	
DAPTEB	3/10/06 9:30	SF																			0.148	0.33	3.5	0.043	0.878	< 0.02	24.5	1.22	0.03	
DAPTEB	3/13/06 12:15	ST	52467	7.9	13.25	9.43	1.45	51600	7.8	1.3	< 0.1	0.4	0.24	0.05	< 5	< 1	< 2	< 1	< 3	< 3	0.212	0.675	8.67	0.216	1.1	< 0.02	20.4	1.37	0.044	
DAPTEB	3/13/06 12:15	SF																			0.158	0.245	3	0.019	1.01	< 0.02	18.5	1.23	e 0.014	
DAPTEB	3/15/06 9:35	ST	53518	7.86	12.74	8.53											< 2	< 1	< 3	< 3	0.105	0.365	8.21	0.112	0.576	< 0.02	15.1	1.31	< 10	
DAPTEB	3/15/06 9:35	SF																			0.136	0.245	5.8	0.03	0.569	< 0.02	15.8	1.23	< 10	
DAPTEB	6/15/06 10:05	DT	55797	8.35	18.51	9.11	1.15	51800	7.9	< 0.4	< 0.1	< 0.4	0.13	0.03	< 5	1	< 2	< 1	< 3	< 3	0.153	1.03	12.506	0.518	0.874	< 0.02	15.025	1.319	0.018	
DAPTEB	6/15/06 10:05	DF																			0.079	0.3	1.943	e 0.009	0.523	< 0.02	9.215	1.069	e 0.01	
DAPTLB	9/20/05 9:20	DT	52520	8.73	19.16	6.09	1.76	54800	8.0	< 0.4	0.1	0.3	0.15	0.02	11	4	< 10	< 10	< 10	< 10	0.084	1.27	6.95	0.473	1.81	< 0.005	10.1	1.09	0.023	
DAPTLB	9/20/05 9:20	DF																			0.079	0.23	2.66	0.069	1.27	< 0.005	7.58	0.89	0.02	
DAPTLB	3/10/06 8:42	ST	50398	7.76	12.31	7.61	0.89	53600	7.7	0.9	0.2	0.5	0.18	0.05	< 5	< 1	< 2	< 1	< 3	< 3	0.067	0.43	4.87	0.113	0.394	< 0.02	14	1.4	0.018	
DAPTLB	3/10/06 8:42	SF																			0.07	0.26	3.61	0.04	0.334	< 0.02	11.7	1.29	0.031	
DAPTLB	3/13/06 9:28	ST	51343	7.72	12.33	8.55	1.09	53000	7.8	1.1	< 0.1	0.4	0.17	0.04	< 5	< 1	< 2	< 1	< 3	< 3	0.076	0.425	5.99	0.349	0.405	< 0.02	10.5	1.3	0.024	
DAPTLB	3/13/06 9:28	SF																			0.065	0.235	2.71	0.074	0.257	< 0.02	8.13	1.24	< 10	
DAPTLB	3/15/06 8:50	ST	52156	7.82	12.34	9.11											< 2	< 1	< 3	< 3	0.106	0.285	4.16	0.105	0.558	< 0.02	8.2	1.24	0.018	
DAPTLB	3/15/06 8:50	SF																			0.089	0.225	2.98	0.025	0.474	< 0.02	8.12	1.2	< 10	
DAPTLB	6/15/06 8:10	DT	51765	8.04	16.7	6.06	1.84	52200	7.8	< 0.4	0.15	0.28	0.15	0.03	< 5	2	< 2	< 1	< 3	< 3	0.072	0.85	8.067	0.429	0.614	< 0.02	10.885	1.267	e 0.011	
DAPTLB	6/15/06 8:10	DF																			0.062	0.27	3.36	0.035	0.365	< 0.02	8.415	1.097	< 0.01	

ST - Stormwater, total metals; SF - Stormwater dissolved metals
DT - Dry weather, total metals; DF - Dry weather, dissolved metals

e - estimated
Bold - exceeds acute CTR criterion for saltwater

Table C-11.20
Aquatic Chemistry at Ambient Coastal Receiving Water Stations: 2005-06 SDR

Location	Date	Type	FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO ₃	Ammonia as N	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃
			EC μS	pH	TEMP C	DO mg/L																								
DAPTLR	9/20/05 10:25	DT	52430	8.72	18.9	6.43	1.9	54700	8.0	< 0.4	< 0.1	0.2	0.2	< 0.02	8	5	< 10	< 10	< 10	< 10	0.045	1.57	3.84	0.318	0.612	< 0.005	5.74	1.09	0.024	
DAPTLR	9/20/05 10:25	DF																			0.147	0.39	1.14	0.037	0.478	< 0.005	4.77	0.943	e 0.01	
DAPTLR	3/10/06 9:05	ST	50731	7.83	12.37	7.52	1.17	54000	7.8	0.9	< 0.1	0.4	0.17	0.05	< 5	< 1	< 2	< 1	< 3	< 3	0.064	0.42	3.23	0.122	0.361	< 0.02	11.3	1.36	0.015	
DAPTLR	3/10/06 9:05	SF																			0.064	0.3	2.3	0.034	0.63	< 0.02	9.84	1.26	0.011	
DAPTLR	3/13/06 10:05	ST	52261	7.83	12.23	8.94	0.97	53000	7.8	1.2	< 0.1	0.3	0.18	0.04	< 5	< 1	< 2	< 1	< 3	< 3	0.072	0.465	2.82	0.126	0.363	< 0.02	8.15	1.28	0.016	
DAPTLR	3/13/06 10:05	SF																			0.068	0.655	1.94	0.035	0.309	< 0.02	6.45	1.27	0.022	
DAPTLR	3/15/06 9:10	ST	53010	7.85	12.26	8.73											< 2	< 1	< 3	< 3	0.087	0.365	3.26	0.097	0.424	< 0.02	6.54	1.3	< 10	
DAPTLR	3/15/06 9:10	SF																			0.103	0.255	2.43	0.051	0.443	< 0.02	5.94	1.28	< 10	
DAPTLR	6/15/06 9:00	DT	54321	8.07	16.76	7.21	1.34	52200	7.8	< 0.4	< 0.1	< 0.4	0.11	0.03	11	5	< 2	< 1	< 3	< 3	0.344	1.87	8.85	0.656	0.926	< 0.02	11.135	1.398	e 0.015	
DAPTLR	6/15/06 9:00	DF																			0.243	0.28	1.543	0.014	0.285	< 0.02	5.466	1.138	< 0.01	
DAPTWB	9/20/05 12:33	DT	52580	8.63	19.78	6.18	1.25	54600	7.9	< 0.4	< 0.1	0.2	0.21	0.03	5	2	< 10	< 10	< 10	< 10	0.131	4.42	32.3	2.2	1.74	< 0.005	42.6	2.18	0.034	
DAPTWB	9/20/05 12:33	DF																			0.088	0.25	3.44	0.05	0.635	< 0.005	16.5	1.33	0.02	
DAPTWB	3/10/06 10:26	ST	46785	7.89	13.09	8.51	4.1	48400	7.8	0.9	0.6	0.3	0.28	0.07	7	3	< 2	< 1	< 3	< 3	0.073	0.71	6.98	0.27	0.467	< 0.02	18.3	1.34	0.025	
DAPTWB	3/10/06 10:26	SF																			0.07	0.31	4.26	0.043	0.634	< 0.02	14.8	1.24	0.025	
DAPTWB	3/13/06 11:15	ST	52568	7.91	12.85	9.64	1.24	52400	7.8	1	< 0.1	0.4	0.29	0.04	< 5	< 1	< 2	< 1	< 3	< 3	0.118	0.875	8.78	0.347	0.429	< 0.02	19.1	1.44	0.025	
DAPTWB	3/13/06 11:15	SF																			0.071	0.255	5.39	0.045	0.315	< 0.02	13.8	1.25	0.024	
DAPTWB	3/15/06 10:10	ST	53971	7.86	13.59	8.7											< 2	< 1	< 3	< 3	0.087	0.475	8.5	0.178	0.475	< 0.02	12.1	1.29	< 10	
DAPTWB	3/15/06 10:10	SF																			0.086	0.205	6.01	0.022	0.426	< 0.02	13	1.24	< 10	
DAPTWB	6/15/06 10:53	DT	57191	8.14	18.96	8.77	1.5	52200	7.9	< 0.4	0.13	0.25	0.13	0.02	< 5	2	< 2	< 1	< 3	< 3	0.055	0.65	7.544	0.23	0.416	< 0.02	9.425	1.196	< 0.01	
DAPTWB	6/15/06 10:53	DF																			0.05	0.3	4.201	0.023	0.275	< 0.02	9.165	1.05	0.02	
DSB1	9/16/05 9:10	DT	7823	7.65	19.36	10.05	12.7	8210	8.1	7.2	0.4	1.8	1.2	0.07	17	9	< 10	< 10	< 10	< 10	0.62	0.78	8.9	< 0.5	51	< 0.5	36		2300	
DSB1	9/16/05 9:10	DF																			0.55	< 0.5	5.6	< 0.5	44	< 0.5	20			
DSB1	12/2/05 9:30	DT	7294	7.29	15.53	9.05	20.5	7240	7.9	9.7	0.9	2.2	1.8	0.06	56	12	< 5	< 5	< 5	< 5	1	0.87	14	1.9	72	< 0.5	110		1750	
DSB1	12/2/05 9:30	DF																			0.5	< 0.5	5.2	< 0.5	63	< 0.5	41			
DSB1	1/14/06 11:30	DT	7343	7.96	13.89	11.5	13.2	10200	7.9	16.1	< 0.1	1.4	0.59	0.05	12	10	17.4	< 5	< 5	< 5	1.3	1.1	7.6	0.7	89	< 0.5	62		1420	
DSB1	1/14/06 11:30	DF																			1	0.54	7	< 0.5	78	< 0.5	39			
DSB1	3/28/06 6:00	ST	2110	8.98	14.01	10.44	23	2690	7.7	5.8	0.2	1.2	1.08	0.11	24	7	< 2	< 1	< 3	267	< 0.5	0.58	14	< 0.5	20	< 0.5	35		450	
DSB1	3/28/06 6:00	SF																			< 0.5	0.58	14	< 0.5	20	< 0.5	35			
DSB3	9/16/05 8:50	DT	19470	7.53	20.85	10.06	2.01	23100	8.0	37.9	0.3	1.5	0.37	0.03	15	2	< 10	< 10	< 10	< 10	2.6	1.9	11	1.2	50	< 0.5	37		4600	
DSB3	9/16/05 8:50	DF																			1.3	1.2	4.3	< 0.5	38	< 0.5	13			
DSB3	1/14/06 11:00	DT	9897	7.74	16.23	11.25	2.41	18800	8.0	42.2	< 0.1	0.9	0.34	0.03	26	7	< 5	< 5	< 5	< 5	3.6	2.3	10	1.7	53	< 0.5	31		4015	
DSB3	1/14/06 11:00	DF																			2.3	1.2	7.6	< 0.5	37	< 0.5	6.3			
DSB3	3/28/06 5:08	ST	12602	8.1	16.2	8.2	4.5	14400	7.5	49.9	0.2	2.7	0.51	0.08	17	6	< 2	< 1	< 3	< 3	16	1.3	26	0.92	150	< 0.5	150	2.2	13	2915
DSB3	3/28/06 5:08	SF																			2.3	0.94	20	< 0.5	41	< 0.5	75	2.6	27	

ST - Stormwater, total metals; SF - Stormwater dissolved metals
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e - estimated
Bold - exceeds acute CTR criterion for saltwater

Table C-11.20
Aquatic Chemistry at Ambient Coastal Receiving Water Stations: 2005-06 SDR

Location	Date	Type	FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO ₃	Ammonia as N	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃	
			EC	pH	TEMP	DO																									
			µS		C	mg/L																									
					NTU	µS						mg/L																		mg/L	
DSB5	11/9/05 11:10	DT	8263	8.5	18.24	4.67	4.08	8740	7.2	17.5	0.3	1.5	0.43	< 0.02	19	8	< 5	< 5	< 5	6000	46	1.3	4.6	0.58	580	< 0.5	190	1.9	14	2100	
DSB5	11/9/05 11:10	DF																			15	0.84	2.2	< 0.5	580	< 0.5	130	1.8	16		
DSB5	2/27/06 16:15	ST	4071	7.23	16.49	8.28																								1220	
DSB5	3/1/06 10:42	ST	7664	7.1	16.68	8.22																								860	
DSB5	3/3/06 9:15	ST	8732	6.87	15.56	13.73																								3450	
DSB5	3/5/06 11:15	ST																												630	
DSB5	3/28/06 5:38	ST	4803	8.52	16.68	8.02	11.1	4950	7.2	21.5	1.5	2.9	0.92	0.04	17	7	< 2	< 1	< 3	< 3	55	1.6	21	0.96	290	< 0.5	230	1.6	11	1120	
DSB5	3/28/06 5:38	SF																			52	1.2	16	< 0.5	280	< 0.5	180	1	11		
DSB5j	11/9/05 11:40	DT	51876	8.45	17.54	6.08	4.72	54000	8.0	< 0.4	< 0.1	< 0.2	0.12	< 0.02	22	14	< 5	< 5	< 5	< 5	0.119	0.79	0.9	0.253	0.672	< 0.005	4.01	1.81	0.021	4600	
DSB5j	11/9/05 11:40	DF																			0.107	0.24	0.423	0.05	0.654	< 0.005	2.27	1.52	0.02		
LB-2	9/16/05 13:15	DT	3396	7.74	21.11	10.84	4.78	3630	7.9	4	0.2	1	1	0.27	< 5	< 1	< 10	< 10	< 10	< 10	< 0.5	1.6	9.1	1.2	6.7	< 0.5	14			695	
LB-2	9/16/05 13:15	DF																			< 0.5	1.2	4	< 0.5	4.7	< 0.5	8.3				
LB-2	12/2/05 12:20	DT	3566	7.49	18.93	10.16	1.23	3610	7.9	7.5	2	3.6	1.35	0.38	< 5	< 1	< 5	41	< 5	42	< 0.5	1.6	12	< 0.5	7.7	< 0.5	11			890	
LB-2	12/2/05 12:20	DF																			< 0.5	1.4	8.3	< 0.5	6.3	< 0.5	8.5				
LB-2	1/14/06 14:10	DT	3425	8.11	17.25	9.69	1.67	3550	6.7	13.5	0.5	1.4	1.4	0.46	< 5	< 1	< 5	13.1	< 5	< 5	< 0.5	3.6	12	0.52	6.4	< 0.5	14			755	
LB-2	1/14/06 14:10	DF																			< 0.5	3.7	9.1	< 0.5	6	< 0.5	10				
LB-2	3/28/06 8:10	ST	2560	8.82	16.48	9.33	2.15	2330	7.8	4.8	< 0.1	0.8	1	0.25	4	3	54.8	< 1	< 3	< 3	< 0.5	1.1	22	0.51	4.7	< 0.5	23	2.3	3.3	470	
LB-2	3/28/06 8:10	SF																			< 0.5	1	18	< 0.5	4.3	< 0.5	21	2.5	3.8		
LB2-DC	3/10/06 4:28	ST	51618	7.18	11.24	10.18											< 5	< 5	< 5	< 5	0.049	0.395	0.219	0.067	0.325	< 0.005	2.86	1.52	< 10		
LB2-DC	3/10/06 4:28	SF																			0.056	0.265	0.225	0.03	0.528	< 0.005	2.86	1.28	e 0.014		
LB2-SDSZ	3/10/06 4:36	ST	49428	7.42	11.27	10.19											13.3	< 5	< 5	< 5	0.091	0.505	0.966	0.324	0.432	< 0.005	5.77	1.37	0.02		
LB2-SDSZ	3/10/06 4:36	SF																			0.054	0.385	0.641	0.057	0.438	< 0.01	4.66	1.39	0.01		
LB2-UC	3/10/06 5:18	ST	51715	7.46	11.12	10.16											< 5	< 5	< 5	< 5	0.05	0.535	0.364	0.212	0.417	< 0.005	12.8	1.42	e 0.013		
LB2-UC	3/10/06 5:18	SF																			0.045	0.265	0.636	0.044	0.286	< 0.005	3.1	1.4	e 0.012		
LB-3	11/9/05 1:00	DT	2048	8.73	17.69	11.04	0.45	2070	8.6	1.9	0.1	0.4	0.3	0.07	< 5	< 1	< 5	< 5	< 5	< 5	< 0.5	< 0.5	1.9	< 0.5	6.9	< 0.5	2.7	4.4	1.1	510	
LB-3	11/9/05 1:00	DF																			< 0.5	< 0.5	1.8	< 0.5	6.6	< 0.5	2.5	4.5	1.1		
LB-3	1/14/06 13:24	DT	8184	8.23	13.56	10.82	0.72	10600	8.3	1.4	< 0.1	0.4	0.38	0.1	< 5	< 1	< 5	< 5	< 5	< 5	< 0.5	< 0.5	1.5	< 0.5	10	< 0.5	11			2720	
LB-3	1/14/06 13:24	DF																			< 0.5	< 0.5	4.5	< 0.5	7.5	< 0.5	10				
LB-3	3/28/06 8:41	ST	33278	8.4	13.76	8.98	2.01	29600	8.0	0.5	< 0.1	0.3	0.36	0.07	5	1	< 2	< 1	< 3	< 3	< 0.5	< 0.5	3	< 0.5	12	< 0.5	6.9			3030	
LB-3	3/28/06 8:41	SF																			< 0.5	< 0.5	0.386	0.076	0.306	< 0.005	2.18	1.59	e 0.012	5300	
LB-3u/c	11/9/05 1:15	DT	52330	8.55	17.76	5.9	1.1	54400	8.0	< 0.4	< 0.1	< 0.2	0.12	< 0.02	< 5	3	< 5	< 5	< 5	< 5	0.032	0.26	0.319	0.022	0.248	< 0.005	1.94	1.48	e 0.015		
LB-3u/c	11/9/05 1:15	DF																													
LB-4	12/2/05 12:55	DT	3771	7.44	16.82	8.52	7.88	3830	7.5	4.1	0.5	1.9	2.18	0.34	13	10	< 5	< 5	< 5	741	< 0.5	1.2	19	4	12	< 0.5	56			1090	
LB-4	12/2/05 12:55	DF																			< 0.5	0.79	7.8	1.9	11	< 0.5	44				
LB-4	3/28/06 9:28	ST	1325	8.15	15.33	10.72	5.98	1180	7.4	5.9	< 0.1	1.3	1.17	0.09	9	7	< 2	< 1	< 3	< 3	< 0.5	1.8	26	1.5	5	< 0.5	72	2.5	4.3	310	
LB-4	3/28/06 9:28	SF																			< 0.5	1.1	22	0.62	5	< 0.5	63	1.9	4.1		

ST - Stormwater, total metals; SF - Stormwater dissolved metals
DT - Dry weather, total metals; DF - Dry weather, dissolved metals

e - estimated
Bold - exceeds acute CTR criterion for saltwater

Table C-11.20
Aquatic Chemistry at Ambient Coastal Receiving Water Stations: 2005-06 SDR

Location	Date	Type	FieldMeasurements				Turbidity	Specific Conductance	pH	Nitrate as NO ₃	Ammonia as N	TKN	Total Phosphate as PO ₄	ortho phosphate as P	TSS	VSS	Diazinon	Chlorpyrifos	Dimethoate	Malathion	Cd	Cr	Cu	Pb	Ni	Ag	Zn	As	Se	Hardness as CaCO ₃
			EC µS	pH	TEMP C	DO mg/L																								
NI-1	9/16/05 10:10	DT	6629	7.79	21.09	10.94	2.37	7040	8.0	1	0.3	1.3	0.43	0.03	9	5	< 10	< 10	< 10	< 10	17	0.6	4.7	< 0.5	130	< 0.5	42			2665
NI-1	9/16/05 10:10	DF																			13	< 0.5	3.1	< 0.5	130	< 0.5	40			
NI-1	12/2/05 10:15	DT	6743	7.42	18.06	10.39	2.16	6800	7.9	1.3	0.7	1.1	0.49	0.06	< 5	< 1	< 5	< 5	< 5	13.7	19	0.57	6.1	< 0.5	140	< 0.5	50			2430
NI-1	12/2/05 10:15	DF																			16	< 0.5	3.7	< 0.5	140	< 0.5	38			
NI-1	3/28/06 6:40	ST	3661	8.6	15.82	8.79	10.4	4500	7.7	2.8	< 0.1	1.1	0.63	0.11	10	3	< 2	< 1	< 3	7980	8.5	0.79	13	< 0.5	69	< 0.5	44			1110
NI-1	3/28/06 6:40	SF																			1.7	1.1	5.5	< 0.5	23	< 0.5	17			1195
SCM1	9/16/05 10:45	DT	3968	7.76	19.46	12.35	5.51	4140	8.0	11.4	0.3	1.4	1.77	0.44	12	9	< 10	< 10	< 10	< 10	< 0.5	< 0.5	2.8	< 0.5	20	< 0.5	9.2			
SCM1	9/16/05 10:45	DF																			1.9	0.52	7.5	< 0.5	29	< 0.5	13			1900
SCM1	12/2/05 11:25	DT	13234	7.58	16.32	18.54	1.98	11200	7.8	13.6	0.6	0.8	0.92	0.26	12	3	11	< 5	< 5	41.5	1.5	< 0.5	5.3	< 0.5	26	< 0.5	7.3			
SCM1	12/2/05 11:25	DF																												
SCM1	3/28/06 7:30	ST	2771	8.63	14.73	9.79	4.7	3450	7.7	6.2	< 0.1	1	0.93	0.18	6	2	< 2	< 1	< 3	212										835
SCM1	3/28/06 7:30	SF																			0.82	0.83	7.5	< 0.5	17	< 0.5	22			
SJC1	9/16/05 8:15	DT	2646	7.4	21.18	14.24	0.46	2810	8.1	< 0.4	< 0.1	0.3	< 0.06	< 0.02	9	3	< 10	< 10	< 10	< 10	< 0.5	< 0.5	1.2	< 0.5	5.7	< 0.5	2.1			900
SJC1	9/16/05 8:15	DF																			< 0.5	< 0.5	1.1	< 0.5	5.7	< 0.5	3.9			
SJC1	12/2/05 9:05	DT	3070	7.73	15.65	15.85	0.58	3050	8.2	3.9	0.5	0.5	0.19	< 0.02	< 5	< 1	< 5	< 5	< 5	< 5	< 0.5	< 0.5	2.5	< 0.5	13	< 0.5	3.2			1140
SJC1	12/2/05 9:05	DF																			< 0.5	< 0.5	1.8	< 0.5	11	< 0.5	3.1			
SJC1	1/14/06 10:30	DT	2110	8.23	15.16	16.14	0.41	2290	8.4	1.5	< 0.1	0.4	0.13	0.03	< 5	< 1	< 5	< 5	< 5	< 5	< 0.5	< 0.5	1.6	< 0.5	9.2	< 0.5	< 2			1085
SJC1	1/14/06 10:30	DF																			< 0.5	< 0.5	2.1	< 0.5	10	< 0.5	< 2			

Special Studies - surfzone monitoring

ST - Stormwater, total metals; SF - Stormwater dissolved metals
DT - Dry weather, total metals, DF- Dry weather, dissolved metals

e - estimated
Bold - exceeds acute CTR criterion for saltwater

Table C-11.21. Summary of the Number of Acute CTR Exceedances at the Ambient Coastal Monitoring Stations

Station	Channel	Sample Size	Saltwater					
			Acute	Acute				
				Cd	Cu	Pb	Ni	Zn
ACM1	Aliso Creek Mouth	3						
DAPTDC	Dana Point Harbor Dana Cove	5		1				
DAPTEB	Dana Point Harbor East Basin	5		1				
DAPTLB	Dana Point Harbor boat launch	5						
DAPTLR	Dana Point Harbor at launch ramp area near bait dock	5						
DAPTWB	Dana Point Harbor West Basin	5		2				
DSB1	Doheny State Beach	4		4		1		
DSB3	Doheny State Beach Drain 3	3		2				
DSB5	Doheny State Beach Drain 5	2	1	1		2	2	
DSB5j	Doheny State Beach Drain 5 jetty surfzone	1						
LB-2	Laguna Beach Marine Life Refuge Drain 2	4		3				
LB2-DC	Downcoast of interface	1						
LB2-SDSZ	Heisler Park Stormdrain-surfzone interface (point Zero)	1						
LB2-UC	Upcoast of interface	1						
LB-3	Laguna Beach Marine Life Refuge Drain 3 (LCWI02)	3						
LB-3u/c	Laguna Beach Marine Life Refuge Drain 3 (LCWI02) upcoast surfzone	1						
LB-4	Laguna Beach Marine Life Refuge Drain 4	2		2				
NI-1	Niguel Marine Life Refuge	3		1		2		
SCM1	Salt Creek Mouth	3		2				
SJC1	San Juan Creek Mouth	3						
Totals		60	2	20		5	2	

Table C-11.22
Aqueous Toxicity at Ambient Coastal Receiving Waters Sites: 2005-06 SDR

Station	Site Name	Date	Type	10-day Amphipod Survival Test % Surv	Chronic Sea Urchin Fertilization				Chronic Sea Urchin Development			Chronic Mysidopsis Bahía Survival and Growth								
												Survival					Growth			
					Fert in 100%	NOEC	TUc	96 hr IC50	NOEC	TUc	96 hr IC50	Surv in 100%	NOEC	TUc	96hr IC50	TUa	Grwth in 100%	NOEC	TUc	96hr IC50
	STANDARD TOXICANT				CuCl ₂				CuCl ₂			SDS								
LB-1	Laguna Beach MLR @ Divers Cove																			
LB-2	Laguna Beach MLR @ rockpiles	9/16/05	DW		0.40	50.00	2.00	95.42	100.00	1.00	>100.00	0.00	<6.25	16.00	4.76	21.01	0.00	<6.25	>16.00	6.33
		1/14/06	DW		46.00	<6.25	>16.00	93.91	25.00	4.00	>100.00	82.50	100.00	1.00	>100.00	0.73	100.00	100.00	1.00	>100.00
		3/28/06	ST		23.00	12.50	8.00	80.43	100.00	1.00	>100.00	0.00	6.25	16.00	16.37	6.11	0.00	25.00	4.00	22.15
LB-3	Laguna Beach MLR @ main beach	11/9/05	DW		96.50	50.00	2.00	>100.00	100.00	1.00	>100.00	87.50	100.00	1.00	>100.00	0.65	100.00	100.00	1.00	>100.00
		1/14/06	DW		73.25	6.25	16.00	>100.00	12.50	8.00	>100.00	75.00	100.00	1.00	>100.00	0.82	100.00	100.00	1.00	>100.00
		3/28/06	ST		65.00	25.00	4.00	>100.00	100.00	1.00	>100.00	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00
LB-3u/c	Laguna Beach MLR @ main beach Surf Zone upcoast near tidepools	11/9/05	DW		100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	82.50	100.00	1.00	>100.00	0.73	96.92	100.00	1.00	>100.00
LB-4	Laguna Beach MLR @ s. main beach	3/28/06	ST		0.00	12.50	8.00	18.45	12.50	8.00	18.57	0.00	<6.25	>16.00	5.47	18.28	0.00	6.25	16.00	6.55
AB-1	Aliso Beach MLR @ Treasure Island																			
ACM-1	Aliso Creek Channel mouth	9/16/05	DW		51.75	25.00	2.00	>100.00	100.00	1.00	>100.00	87.50	100.00	1.00	>100.00	0.65	100.00	100.00	1.00	>100.00
		1/14/06	DW		83.50	50.00	2.00	>100.00	25.00	4.00	>100.00	87.50	100.00	1.00	>100.00	0.65	100.00	100.00	1.00	>100.00
SCM-1	Salt Creek Channel mouth	9/16/05	DW		50.75	6.25	16.00	>100.00	50.00	2.00	>100.00	0.00	50.00	2.00	63.54	1.57	0.00	50.00	2.00	71.16
		3/28/06	ST		59.00	50.00	2.00	>100.00	50.00	2.00	98.01	0.00	50.00	2.00	71.32	1.40	0.00	50.00	2.00	74.76
NI-1	Niguel Marine Refuge	9/16/05	DW		2.75	6.25	16.00	6.45	100.00	1.00	>100.00	62.50	100.00	1.00	>100.00	0.93	100.00	100.00	1.00	>100.00
		3/28/06	ST		51.25	25.00	4.00	>100.00	50.00	2.00	89.49	0.00	25.00	4.00	67.24	1.49	0.00	50.00	2.00	66.96
SJC-1	San Juan Creek mouth	9/16/05	DW		27.75	12.50	8.00	71.70	50.00	2.00	>100.00	67.50	100.00	1.00	>100.00	0.89	80.80	100.00	1.00	>100.00
		1/14/06	DW		85.25	25.00	4.00	>100.00	25.00	4.00	>100.00	65.00	100.00	1.00	>100.00	0.91	24.76	<6.25	>16.00	30.69
DSB-5	N. Beach Creek @ Doheny St. Park	11/9/05	DW		93.75	100.00	1.00	>100.00	50.00	2.00	98.35	0.00	25.00	4.00	62.96	1.59	0.00	50.00	2.00	75.00
		12/1/05	DW		24.00	50.00	2.00	82.90	50.00	2.00	90.00	0.00	25.00	4.00	37.50	2.67	0.00	25.00	4.00	38.98
		2/27/06	ST		0.00	25.00	4.00	69.00	1.56	64.10	68.51	45.00	50.00	2.00	98.61	1.01	100.00	100.00	1.00	>100.00
		3/1/06	ST		94.75	100.00	1.00	>100.00	100.00	1.00	>100.00	47.50	50.00	2.00	>100.00	1.01	100.00	100.00	1.00	>100.00
		3/28/06	ST		12.50	6.25	16.00	75.93	50.00	2.00	72.69	25.00	50.00	2.00	78.97	1.27	58.16	50.00	2.00	92.67
DSB-5j	N. Beach Creek @ Doheny St. Park Surf zone next to jetty	11/9/05	DW		100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	90.00	100.00	1.00	>100.00	0.59	100.00	100.00	1.00	>100.00
DSB-4	Doheny St. Beach Marine Refuge West End																			
DSB-3	Doheny St. Beach Marine Refuge ~75 yds west of pedestrian bridge	9/16/05	DW		0.00	6.25	16.00	13.75	50.00	2.00	74.65	35.00	50.00	2.00	85.42	1.17	67.54	50.00	2.00	>100.00
		1/14/06	DW		42.00	12.50	8.00	89.67	6.25	16.00	>100.00	82.50	100.00	1.00	>100.00	0.73	100.00	100.00	1.00	>100.00
		3/28/06	ST		78.75	50.00	2.00	>100.00	6.25	16.00	>100.00	90.00	100.00	1.00	>100.00	0.59	100.00	100.00	1.00	>100.00
DSB-2	Doheny St. Beach Marine Refuge near pedestrian bridge																			
DSB-1	Doheny St. Beach Marine Refuge East End	9/16/05	DW		11.00	6.25	16.00	18.44	100.00	1.00	>100.00	77.50	100.00	1.00	>100.00	0.80	100.00	100.00	1.00	>100.00
		1/14/06	DW		19.00	<6.25	>16.00	36.14	25.00	4.00	91.41	92.50	100.00	1.00	>100.00	0.51	98.05	100.00	1.00	>100.00
		3/28/06	ST		42.50	50.00	2.00	93.91	12.50	8.00	83.46	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00

Table C-11.22
Aqueous Toxicity at Ambient Coastal Receiving Waters Sites: 2005-06 SDR

Station	Site Name	Date	Type	10-day Amphipod Survival Test % Surv	Chronic Sea Urchin Fertilization				Chronic Sea Urchin Development			Chronic Mysidopsis Bahía Survival and Growth								
					Fert in 100%	NOEC	TUc	96 hr IC50	NOEC	TUc	96 hr IC50	Survival				Growth				
												Surv in 100%	NOEC	TUc	96hr IC50	TUa	Grwth in 100%	NOEC	TUc	96hr IC50
	STANDARD TOXICANT				CuCl ₂				CuCl ₂			SDS								
DAPT-LB	Dana Point Harbor - Launch Ramp	9/20/05	DW	84.00	91.25	100.00	1.00	>100.00	6.25	16.00	>100.00	92.50	100.00	1.00	>100.00	0.51	100.00	100.00	1.00	>100.00
		3/10/06	ST		94.75	50.00	2.00	>100.00	100.00	1.00	>100.00	95.00	100.00	1.00	>100.00	0.41	29.09	<6.25	>16.00	4.31
		3/13/06	ST		100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	95.00	100.00	1.00	>100.00	0.41	100.00	100.00	1.00	>100.00
		3/15/06	ST		93.25	100.00	1.00	>100.00	100.00	1.00	>100.00	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00
		6/15/06	DW	91.00	100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	87.50	100	1.00	>100.00	0.65	100.00	100.00	1.00	>100.00
DAPT-LR	Dana Point Harbor - Boat Yard	9/20/05	DW	88.00	93.75	100.00	1.00	>100.00	50.00	2.00	>100.00	90.00	100.00	1.00	>100.00	0.59	100.00	100.00	1.00	>100.00
		3/10/06	ST		99.00	100.00	1.00	>100.00	100.00	1.00	>100.00	97.50	100.00	1.00	>100.00	0.23	25.72	<6.25	>16.00	5.60
		3/13/06	ST		100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00
		3/15/06	ST		93.25	100.00	1.00	>100.00	100.00	1.00	>100.00	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00
		6/15/06	DW	97.00	100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	90.00	100.00	1.00	>100.00	0.59	100.00	100.00	1.00	>100.00
DAPT-EB	Dana Point Harbor - East Basin	9/20/05	DW	25.00	92.75	100.00	1.00	>100.00	100.00	1.00	>100.00	90.00	100.00	1.00	>100.00	0.59	100.00	100.00	1.00	>100.00
		3/10/06	ST		96.25	100.00	1.00	>100.00	100.00	1.00	>100.00	92.50	100.00	1.00	>100.00	0.51	34.29	<6.25	>16.00	4.21
		3/13/06	ST		95.25	100.00	1.00	>100.00	100.00	1.00	>100.00	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00
		3/15/06	ST		97.75	100.00	1.00	>100.00	100.00	1.00	>100.00	87.50	100.00	1.00	>100.00	0.65	100.00	100.00	1.00	>100.00
		6/15/06	DW	56.00	100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	77.50	100.00	1.00	>100.00	0.80	100.00	100.00	1.00	>100.00
DAPT-WB	Dana Point Harbor - West Basin	9/20/05	DW	90.00	96.00	100.00	1.00	>100.00	6.25	16.00	>100.00	95.00	100.00	1.00	>100.00	0.41	100.00	100.00	1.00	>100.00
		3/10/06	ST		97.00	100.00	1.00	>100.00	100.00	1.00	>100.00	87.50	100.00	1.00	>100.00	0.65	20.43	<6.25	>16.00	4.11
		3/13/06	ST		99.00	100.00	1.00	>100.00	100.00	1.00	>100.00	100.00	100.00	1.00	>100.00	0.00	80.96	100.00	1.00	>100.00
		3/15/06	ST		97.50	100.00	1.00	>100.00	100.00	1.00	>100.00	95.00	100.00	1.00	>100.00	0.41	100.00	100.00	1.00	>100.00
		6/15/06	DW	93.00	100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	92.50	100.00	1.00	>100.00	0.51	100.00	100.00	1.00	>100.00
DAPT-DC	Dana Point Harbor - Dana Cove	9/20/05	DW	92.00	94.50	100.00	1.00	>100.00	<6.25	16.00	>100.00	97.50	100.00	1.00	>100.00	0.23	100.00	100.00	1.00	>100.00
		3/10/06	ST		97.50	100.00	1.00	>100.00	100.00	1.00	>100.00	95.00	100.00	1.00	>100.00	0.41	100.00	100.00	1.00	>100.00
		3/13/06	ST		100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	92.50	100.00	1.00	>100.00	0.51	100.00	100.00	1.00	>100.00
		3/15/06	ST		92.75	100.00	1.00	>100.00	100.00	1.00	>100.00	82.50	100.00	1.00	>100.00	0.73	100.00	100.00	1.00	>100.00
		6/15/06	DW	92.00	100.00	100.00	1.00	>100.00	100.00	1.00	>100.00	82.50	100.00	1.00	>100.00	0.73	100.00	100.00	1.00	>100.00

DW DRY WEATHER EVENT
ST STORMWATER EVENT

Table C-11.23. Pattern of Substantial (> 8 toxic units) Toxicity at Ambient Coastal Monitoring Stations

Station	Sep 16, 2005 Sep 20, 2005	Jan 14, 2006	Feb 27, 2006	Mar 10, 2006	Mar 28, 2006
LB-2	X	X			X
LB-3		X			
LB-4					X
SCM-1	X				
DAPT-LB	X			X	
DAPT-LR				X	
DAPT-EB				X	
DAPT-WB	X			X	
DAPT-DC	X				
SJC-1	X	X	X		X
DSB-5			X		X
DSB-3	X	X			X
DSB-1	X	X			X