

Appendix Vb. Means and coefficient of variation (CV) for bioassessment metrics from samples collected in September 1998 within the San Diego watershed, San Diego County, California.

Site:	Aliso Creek AC-PPD		Aliso Creek AC-CCR		Arroyo Trabuco Cr. ATC-AP		San Juan Creek SJC-74		Murrieta Creek MC-GS		Temecula Creek TC-I15		Santa Margarita R. SMR-WGR		Rainbow Creek RC-WGR	
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	21	7	27	10	20	15	11	20	20	43	22	21	34	19	23	18
Percent Dominant Taxon	46	41	33	19	36	52	60	23	58	52	43	61	20	20	28	10
Ephemeropteran Taxa	1	43	2	0	2	25	2	25	0	--	3	22	2	25	2	0
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--
Trichopteran Taxa	1	43	1	43	2	50	2	50	0	--	3	58	4	27	2	0
EPT Taxa	3	43	3	17	4	35	4	35	0	--	6	20	7	9	4	0
EPT Index (%)	43	58	35	26	23	7	86	11	0	--	59	38	38	77	16	89
Sensitive EPT Index	0	--	0	--	0	--	0	--	0	--	0	--	4	98	0	--
Percent Baetidae	40	61	33	34	10	48	62	18	0	--	9	33	3	73	7	61
Percent Hydropsychidae	0	--	0	--	12	37	17	55	0	--	42	66	10	93	8	144
Dipteran Taxa	8	18	10	11	5	20	3	22	8	54	7	23	11	55	5	57
Percent Dipteran	16	29	28	10	5	93	2	53	29	119	23	59	29	64	7	129
Non-Insect Taxa	6	9	6	17	5	29	3	17	9	22	5	54	10	22	11	11
Percent Non-Insect	36	51	32	31	60	14	12	78	70	51	12	50	25	47	76	32
Percent Chironomidae	6	0	19	0	3	7	1	38	11	0	12	2	5	81	4	5
Shannon Diversity	1.8	20	2.2	9	2.0	23	1.2	30	1.6	61	2.0	31	2.7	7	2.2	10
Tolerance Value	6.0	17	5.9	4	5.4	11	4.2	3	8.0	21	5.1	14	6.0	15	6.2	22
Percent Intolerant (0-2)	0	--	0	--	0	--	0	--	0	--	0	--	3	92	0	--
Percent Tolerant (8-10)	38	58	32	16	15	77	1	67	60	61	8	108	25	64	50	69
Percent Collectors	85	4	68	1	21	91	70	27	70	39	40	51	53	28	32	33
Percent Filterers	1	--	6	111	20	72	17	55	2	--	42	63	11	97	8	141
Percent Grazers	4	15	5	25	10	57	1	86	1	56	1	45	14	56	39	78
Percent Predators	11	23	22	32	48	33	12	77	27	85	16	51	22	62	20	68
Percent Shredders	0	--	0	--	1	--	0	--	0	--	0	87	1	115	0	4
Abundance (#/ sample)	1902	91	995	45	2109	119	6691	14	1167	51	6345	72	1704	88	1231	14

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Site:	Sandia Creek SC-SCR		Santa Margarita R. SMR-DP		Santa Margarita R. SMR-CP		San Luis Rey River SLRR-PG		San Luis Rey River SLRR-395		San Luis Rey River SLRR-MR		San Luis Rey River SLRR-FR		Keys Creek KC-LR	
	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	30	12	22	27	21	17	19	11	29	16	25	15	19	20	24	23
Percent Dominant Taxon	33	33	65	4	39	35	33	4	30	43	34	33	53	44	42	29
Ephemeropteran Taxa	3	17	3	22	3	22	3	22	2	0	3	22	2	0	2	35
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	1	0
Trichopteran Taxa	7	8	2	65	2	92	2	50	3	43	1	100	2	69	3	35
EPT Taxa	11	11	5	40	4	48	5	20	5	25	4	16	4	31	6	29
EPT Index (%)	69	17	78	3	49	4	56	12	43	22	42	19	21	63	65	39
Sensitive EPT Index	6	93	0	--	0	--	1	84	0	--	0	--	0	--	6	25
Percent Baetidae	21	53	10	36	45	8	34	8	23	63	40	24	19	71	20	52
Percent Hydropsychidae	31	42	65	4	1	108	21	44	0	--	1	149	0	--	39	49
Dipteran Taxa	6	51	5	33	9	29	6	29	10	26	7	16	5	53	10	35
Percent Dipteran	13	58	3	65	25	29	12	43	18	71	12	35	7	52	23	83
Non-Insect Taxa	5	12	5	43	4	13	6	10	7	14	8	25	9	19	4	27
Percent Non-Insect	6	23	13	14	24	24	29	34	34	25	38	41	72	24	8	79
Percent Chironomidae	5	109	1	16	19	0	10	5	6	4	9	2	4	0	13	11
Shannon Diversity	2.4	15	1.4	12	1.9	17	1.9	7	2.4	15	2.2	2	1.6	35	1.9	20
Tolerance Value	4.4	5	4.3	2	5.8	5	6.0	9	6.0	4	6.1	11	6.7	14	4.8	7
Percent Intolerant (0-2)	5	115	2	52	0	--	1	63	0	--	0	87	0	--	7	26
Percent Tolerant (8-10)	1	55	2	95	23	21	26	37	32	39	36	40	59	45	10	70
Percent Collectors	45	24	17	22	50	24	68	13	70	17	73	9	76	17	37	40
Percent Filterers	37	31	66	3	3	10	24	34	4	118	8	39	8	32	45	42
Percent Grazers	9	51	4	24	2	--	2	60	13	56	1	67	2	29	5	107
Percent Predators	7	23	13	33	8	29	6	29	11	78	13	90	14	85	7	17
Percent Shredders	2	49	0	87	37	44	0	--	1	62	6	119	0	--	6	13
Abundance (#/ sample)	3092	36	6322	90	331	77	733	35	2023	39	808	40	2679	67	1563	73

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Site:	Loma Alta Creek		Loma Alta Creek		Buena Vista Cr.		Buena Vista Cr.		Agua Hedionda Cr.		Agua Hedionda Cr.		San Marcos Cr.		San Marcos Cr.		San M
	LAC-CB	CV	LAC-ECR	CV	BVR-ED	CV	BVR-SVW	CV	AHC-SA	CV	AHC-ECR	CV	SMC-SP	CV	SMC-M	CV	
Taxa Richness	19	26	21	34	24	25	17	13	8	27	28	10	22	5	28	13	21
Percent Dominant Taxa	44	17	65	30	33	25	50	26	69	9	40	28	45	36	31	17	44
Ephemeropteran Taxa	1	87	1	100	2	0	1	0	0	--	2	25	3	0	2	0	2
Plecopteran Taxa	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Trichopteran Taxa	1	87	1	43	1	0	0	--	0	--	2	50	1	0	1	87	2
EPT Taxa	2	87	2	65	3	0	1	0	0	--	4	35	4	0	3	35	3
EPT Index (%)	7	88	1	25	48	55	4	58	0	--	33	65	20	24	42	21	47
Sensitive EPT Index	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Percent Baetidae	1	132	0	87	47	57	4	58	0	--	27	73	18	24	41	19	45
Percent Hydropsychidae	0	--	0	--	0	--	0	--	0	--	0	87	0	--	0	87	2
Dipteran Taxa	9	29	9	51	11	33	8	33	2	65	9	7	4	35	12	17	7
Percent Dipteran	23	17	13	42	20	22	5	27	3	68	7	28	11	75	17	42	12
Non-Insect Taxa	7	29	8	20	8	28	7	8	5	22	11	9	11	16	11	10	9
Percent Non-Insect	69	9	83	8	30	75	90	3	97	2	58	33	66	17	41	36	33
Percent Chironomidae	18	0	11	0	7	0	2	0	2	0	1	0	11	0	4	0	6
Shannon Diversity	2.0	20	1.4	49	2.2	18	1.6	11	1.0	24	2.2	7	2.0	19	2.4	5	2.0
Tolerance Value	7.5	3	7.7	2	6.0	18	7.2	10	8.6	2	5.8	7	6.6	8	5.6	16	5.3
Percent Intolerant (0-2)	0	--	0	--	0	--	0	--	0	--	0	--	0	--	1	107	0
Percent Tolerant (8-10)	67	6	80	10	29	85	74	22	73	5	41	41	57	25	29	59	21
Percent Collectors	51	36	82	12	79	10	78	13	71	8	73	4	88	6	69	15	64
Percent Filterers	7	57	0	--	1	101	2	96	0	--	6	22	0	1	17	80	7
Percent Grazers	32	57	6	66	10	90	2	138	9	71	6	24	5	26	5	70	1
Percent Predators	10	34	12	55	10	22	17	82	20	27	15	17	8	64	7	4	27
Percent Shredders	0	--	0	--	0	--	0	--	0	--	0	--	0	--	1	149	1
Abundance (#/ sample)	2200	78	968	47	598	87	2005	41	1657	160	1571	59	2161	62	851	114	3492

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	Marcos Cr. Site: C-RSFR CV	San Marcos Cr. SMC-LCCC		Encinitas Creek EC-GVR		Escondido Creek EC-HRB		Escondido Creek EC-EF		Rattlesnake Creek RC-HP		Los Penasquitos Cr. LPC-CCR		Los Penasquitos Cr. LPC-BMR		Carro C Mean
		Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	
Taxa Richness	22	20	22	16	13	17	9	17	16	17	9	18	14	20	3	19
Percent Dominant Taxon	28	51	16	40	21	59	29	45	28	60	25	50	28	51	20	37
Ephemeropteran Taxa	35	1	0	2	0	1	0	2	25	1	43	2	50	2	0	2
Plecopteran Taxa	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Trichopteran Taxa	35	3	22	2	35	1	87	2	0	2	35	2	35	2	35	3
EPT Taxa	35	4	16	4	16	2	35	4	13	3	0	4	16	4	16	5
EPT Index (%)	26	17	121	44	17	2	83	67	31	65	27	52	66	41	47	55
Sensitive EPT Index	--	2	94	0	--	0	--	0	--	0	--	0	--	0	--	0
Percent Baetidae	28	2	88	40	15	2	84	25	46	60	25	29	132	46	52	40
Percent Hydropsychidae	31	1	--	0	--	0	--	39	45	0	--	23	76	3	44	1
Dipteran Taxa	57	6	44	6	33	7	29	6	40	7	9	6	41	5	20	5
Percent Dipteran	96	6	56	17	72	24	31	7	50	20	58	9	64	6	23	19
Non-Insect Taxa	7	9	24	6	10	7	14	6	20	6	33	6	9	8	0	5
Percent Non-Insect	19	75	24	39	48	73	12	26	84	14	65	31	87	41	51	17
Percent Chironomidae	0	2	147	2	0	21	0	1	0	10	0	8	0	3	0	17
Shannon Diversity	20	1.7	8	1.8	12	1.4	33	1.6	11	1.5	18	1.8	24	1.8	13	2.0
Tolerance Value	6	6.8	27	5.9	9	7.2	3	4.5	3	5.1	8	5.5	24	5.9	21	5.2
Percent Intolerant (0-2)	--	0	--	0	--	0	--	0	--	0	--	0	--	0	--	0
Percent Tolerant (8-10)	42	45	77	34	50	71	14	3	21	12	51	22	102	28	64	8
Percent Collectors	13	15	9	79	15	92	3	32	28	85	4	33	108	53	47	46
Percent Filterers	41	40	77	12	78	0	45	40	43	1	132	40	53	27	67	2
Percent Grazers	88	12	143	4	40	4	7	2	24	5	59	0	2	7	89	15
Percent Predators	22	33	42	4	5	4	70	25	87	9	48	25	54	13	19	37
Percent Shredders	135	0	--	0	44	0	--	0	--	0	--	1	119	1	--	0
Abundance (#/ sample)	96	1381	25	2501	139	6519	50	1917	57	3400	71	1548	73	1984	74	907

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	Il Canyon Cr.	San Diego River		San Diego River		San Diego River		Sweetwater River		Sweetwater River		Sweetwater River	
	Site: CC-805 CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV	Mean	CV
Taxa Richness	6	20	17	16	6	10	33	26	14	17	12	16	41
Percent Dominant Taxon	13	27	8	33	11	73	25	24	25	63	33	35	31
Ephemeropteran Taxa	0	1	0	2	0	0	--	3	0	2	69	1	0
Plecopteran Taxa	--	0	--	0	--	0	--	1	87	0	--	0	--
Trichopteran Taxa	0	1	87	2	25	2	69	4	16	1	87	0	--
EPT Taxa	0	2	35	4	13	2	69	7	8	2	65	1	43
EPT Index (%)	4	4	18	42	17	3	29	58	4	4	36	3	131
Sensitive EPT Index	--	0	--	0	--	0	--	7	127	1	148	0	--
Percent Baetidae	17	4	16	10	8	0	--	19	59	2	28	1	74
Percent Hydropsychidae	66	0	87	28	30	0	--	21	29	0	--	0	--
Dipteran Taxa	20	5	39	4	35	3	33	8	8	4	66	6	44
Percent Dipteran	12	6	55	7	54	80	20	24	30	3	20	32	55
Non-Insect Taxa	35	11	0	6	29	5	53	7	9	7	25	6	20
Percent Non-Insect	31	89	4	50	11	17	98	12	43	90	1	62	36
Percent Chironomidae	0	4	0	3	0	5	4	23	37	1	177	18	0
Shannon Diversity	1	2.2	7	1.9	12	1.0	54	2.5	3	1.4	29	1.8	21
Tolerance Value	1	6.4	20	5.4	19	6.0	6	5.0	6	6.1	34	4.4	13
Percent Intolerant (0-2)	--	0	--	0	--	0	--	6	120	0	--	0	--
Percent Tolerant (8-10)	32	49	37	13	131	9	125	9	44	37	93	3	17
Percent Collectors	15	49	19	12	17	11	78	41	13	48	74	35	13
Percent Filterers	19	19	19	42	23	78	16	33	26	0	--	13	65
Percent Grazers	45	0	--	8	83	3	15	7	80	1	--	2	--
Percent Predators	3	31	19	38	33	9	57	17	34	51	69	50	31
Percent Shredders	--	0	--	0	--	0	--	2	87	0	--	0	--
Abundance (#/ sample)	35	1860	55	3058	61	4617	57	5708	129	413	18	582	71