

SCECAP 2006 -- Tidal Creeks
Sediment characteristics, contaminants, and toxicity

Station	Characteristics			Contaminants					Toxicity			
	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals* 1	PAHs* 1	Pest* 1	PCBS* 1	Microtox® Assay		Seed Clam Assay	
									EC ₅₀ Percent	Toxic	Mean Growth	Toxic
RT06001	64.0	7.4	2.7	0.041	1				0.0	†	21.1	†
RT06002	10.7	0.2	3.5	0.011					0.8		43.7	
RT06003	96.2	3.8	2.2	0.039	1				0.7		22.5	
RT06006	14.0	1.3	3.3	0.011					0.2	†	45.2	
RT06007	6.4	0.1	0.6	0.004					3.0		33.3	
RT06008	10.1	0.4	1.0	0.009					0.6		46.2	
RT06010	35.5	0.9	5.3	0.015					0.1	†	32.1	
RT06012	4.8	0.2	1.3	0.012					0.7		47.2	
RT06013	15.2	0.4	3.9	0.007					0.4	†	27.6	
RT06014	2.9	0.1	0.5	0.002					16.5		32.8	
RT06018	13.4	0.5	1.1	0.007					1.5		43.3	
RT06019	8.6	0.5	0.8	0.006					5.4		23.6	
RT06020	12.5	0.3	2.2	0.009					0.6		25.0	
RT06021	1.7	0.1	0.5	0.002					15.2		23.7	
RT06024	43.2	1.9	2.0	0.021	1				0.2	†	36.6	
RT06026	7.8	0.4	1.7	0.006					1.8		27.7	
RT06027	11.9	0.4	1.0	0.009					0.8		27.8	
RT06028	12.9	0.4	2.3	0.011					0.7		31.6	
RT06029	30.1	0.9	2.4	0.014					0.2		43.0	
RT06031	14.6	0.5	1.7	0.009					0.2	†	29.6	
RT06032	5.0	0.2	1.1	0.006					0.3		35.3	
RT06033	4.6	0.2	5.1	0.006					1.0		5.7	†
RT06035	42.8	2.7	4.0	0.025	1				0.3		26.9	
RT06036	49.3	1.5	2.3	0.029	1				0.4		31.3	
RT06037	7.7	0.5	1.4	0.006					3.8		43.1	
Mean	21.0	1.0	2.2	0.013					2.2		32.2	

† = Toxic: Microtox, EC50 <0.5 if silt-clay < 20% , <0.2 if silt-clay > 20% (Ringwood et al., 1997, criterion #6); Seed Clam Assay, if mean clam growth is < 80% of mean clam control growth AND significantly different from mean clam control growth

█ Values exceed threshold representing moderate risk of benthic impacts (Hyland et al., 1999)

█ Values exceed threshold representing high risk of benthic impacts (Hyland et al., 1999)

* Number of analytes that exceed Effects Range Low (ER-L) guidelines (Long et al., 1995)