

SCECAP 2003 -- Tidal Creeks
Sediment characteristics, contaminants, and toxicity

Station	Characteristics			Contaminants					Toxicity			
	Percent Silt/Clay	TOC % of Total	TAN (mg/l)	ERMQ	Metals*	PAHs*	Pest*	PCBs*	Microtox® Assay		Seed Clam Assay	
									EC ₅₀ Percent	Toxic	Mean Growth	Toxic
RT032031	91.9	4.2		0.031	1				0.4		29.8	
RT032032	8.4	0.2	1.1	0.004					3.7		23.9	
RT032033	51.4	1.895	6.7	0.026	1				0.2		44.6	
RT032035	23.2	0.8	2.0	0.012					0.3		46.8	
RT032039	44.5	1.1	3.0	0.031	1				0.2	†	50.0	
RT032040	23.4	0.9	3.5	0.014					0.1	†	32.6	
RT032041	3.1	0.1	0.1	0.004					7.0		49.6	
RT032043	34.0	1.1	3.6	0.017					0.1	†	52.1	
RT032045	8.8	0.2	1.0	0.006					2.7		46.9	
RT032046	3.7	0.2	1.8	0.012					14.9		15.1	†
RT032048	10.3	0.6	3.1	0.005					0.2	†	9.6	†
RT032050	45.9	1.5	1.9	0.030	1				0.1	†	54.9	
RT032052	12.7	0.5	4.7	0.008					0.2	†	2.5	†
RT032055	20.3	0.7	2.5	0.011					0.3		35.7	
RT032056	59.4	2.2	1.6	0.030	1				0.2	†	46.1	
RT032057	46.2	1.6	10.5	0.024					0.1	†	23.7	
RT032060	15.9	0.4	2.9	0.014					0.5	†	39.1	
RT032172	53.4	1.8	11.0	0.024	1				0.0	†	40.7	
RT032173	23.9	0.5	6.0	0.015					0.1	†	30.0	
RT032174	97.8	5.5	25.3	0.042	2				0.0	†	26.1	
RT032176	31.9	1.1	18.3	0.014					0.3		32.4	†
RT032177	47.3	1.5	2.1	0.021	1				0.1	†	45.3	
RT032178	13.1	0.5	7.6	0.009					0.2	†	31.6	
RT032179	21.7	0.9	1.9	0.013					0.1	†	47.1	
RT032180	10.4	0.2	2.7	0.007					0.9		33.6	
RT032181	6.7	0.1	0.7	0.004					2.8		38.2	
RT032186	28.5	1.4	2.0	0.026					0.1	†	45.9	
RT032187	30.3	0.8	2.7	0.018	1				0.3		35.1	
RT032188	90.2	3.4	4.3	0.036	2				0.5		48.6	
RT032190	70.8	3.0	2.9	0.033	1				0.1	†	39.2	
Mean	34.3	1.3	4.7	0.018					1.2		36.6	

† = 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)