

SCECAP 2008 -- 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
RT08067	3.3	0.1	0.9	0.005					4.1		47.3	
RT08068	13.4	0.3	2.5	0.028					1.4		11.9	
RT08069	2.8	0.1	2.2	0.005					0.5	†	15.8	
RT08073	47.7	1.6	2.1	0.019	1				0.2		46.3	
RT08076	6.7	0.2	0.7	0.009					1.1		8.6	
RT08078	22.5	0.7	1.8	0.013					0.2		46.0	
RT08079	37.7	2.6	2.2	0.022					0.1	†	9.4	
RT08080	7.8	0.3	2.2	0.007					0.6		16.8	
RT08081	27.8	2.2	2.8	0.020	1				0.2	†	6.7	
RT08082	26.3	0.3	3.4	0.014					1.5		50.8	
RT08083	14.5	0.6	1.4	0.009					1.0		30.5	†
RT08084	47.0	1.1	3.0	0.025	1				0.1	†	10.7	
RT08085	56.5	4.4	4.7	0.028					0.1	†	31.6	†
RT08086	25.8	0.6	2.0	0.014					1.0		46.2	
RT08088	10.6	0.8	1.6	0.011					0.3	†	4.4	
Mean	23.4	1.1	2.2	0.015					0.8		25.5	

† = 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)