

SCECAP 2005 -- 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
RT052093	76.5	3.8	2.5	0.029	1				0.1	†	-0.7	†
RT052094	60.0	2.4		0.028	1				0.1	†	7.2	
RT052095	34.9	1.3	1.9	0.015					0.2	†	10.1	
RT052096	15.9	0.5	1.5	0.007					0.9		7.3	†
RT052097	7.0	0.3	0.6	0.010					4.9		6.1	†
RT052098	94.1	5.7		0.065	2	3			0.0	†	4.9	
RT052099	87.5	4.3	4.6	0.043	2				0.1	†	11.7	†
RT052100	48.0	0.2		0.017					1.3		8.7	
RT052104	80.9	3.5	4.0	0.031	1				0.3		8.3	†
RT052105	11.0	0.3	1.4	0.008					0.9		6.6	†
RT052106	28.6	0.8	0.9	0.012					0.5		16.3	
RT052109	5.7	0.1	0.4	0.003					15.9		4.5	†
RT052110	3.3	0.1		0.002					16.6		1.8	
RT052112	39.7	1.4		0.032	1				1.0		10.7	
RT052113	75.4	3.3	1.9	0.028	1				0.1	†	11.3	†
RT052115	34.7	1.4	9.4	0.015					0.1	†	9.7	†
RT052116	33.4	1.3	9.0	0.016					0.1	†	5.0	
RT052118	4.3	0.1	0.8	0.004					2.1		5.2	
RT052119	6.9	0.2	0.3	0.008					7.6		5.8	†
RT052197	49.7	2.2	0.3	0.020					0.8		4.1	†
RT052198	2.6	0.0		0.003					4.4		1.5	
RT052200	18.5	0.6	1.2	0.011					0.7		16.4	
RT052201	78.8	2.5	4.0	0.031	1				0.0	†	6.8	†
RT052202	32.4	0.5	1.2	0.011					3.0		2.6	
RT052203	4.3	0.1	1.1	0.003					14.4		4.4	
Mean	37.4	1.5	2.5	0.018					3.1		7.0	

† = 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)