

Examining the correlation between quantifiable SVOCs and organic carbon content or particulate size in benthic sediments as a function of ocean stratum

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KEYWORDS: DDT, PAH, PCB, sediments, particle size, Santa Monica Bay

Supplemental Material Table S1. Sampling sites descriptions, number of days sediment samples were stored in refrigerator, and the fine grain percentage of the sediment.

Station Identity	Latitude (Dec Deg)	Longitude (Dec Deg)	GIS Depth (m)	Stratum	Region
9259	33.8324	-118.6488	-678.08	Lower Slope	Santa Monica Basin
9263	33.848	-118.5679	-83.27	Mid Shelf	Santa Monica Bay
9266	33.8604	-118.4481	-63.11	Mid Shelf	Santa Monica Bay
9267	33.8608	-118.5592	-77.72	Mid Shelf	Santa Monica Bay
9277	33.9186	-118.5634	-182.53	Canyon Bottom	Santa Monica Canyon
9281	33.921	-118.6501	-448.18	Canyon Bottom	Santa Monica Canyon
9285	33.9348	-118.5532	-100.27	Canyon Bottom	Santa Monica Canyon
9287	33.9355	-118.5921	-204.10	Outer Shelf	Santa Monica Bay
9292	33.9437	-118.5198	-49.84	Mid Shelf	Santa Monica Bay
9303	33.9625	-118.4762	-18.00	Inner Shelf	Santa Monica Bay
9305	33.9662	-118.8117	-564.27	Canyon Bottom	Dume Canyon
9316	33.9953	-118.6328	-65.55	2-Offshore	Santa Monica Bay
9319	33.9974	-118.4918	-9.76	Inner Shelf	Santa Monica Bay
9326	34.0051	-118.7666	-40.59	Mid Shelf	Santa Monica Bay
9331	34.0132	-118.6702	-45.21	Mid Shelf	Santa Monica Bay
9336	34.0195	-118.743	-23.96	Inner Shelf	Santa Monica Bay
9341	34.0232	-118.5928	-24.04	Inner Shelf	Santa Monica Bay

Dec Deg: Decimal degree; GIS: geographic information systems

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Supplemental Material Table S2. The list of pollution indicators used in this study along with their MDLs (method detection limits in (($\mu\text{g}/\text{kg}$ wet-weight)).

PAHs	MDL	PCB congeners	MDL ^b	DDTs	MDL ^b
Naphthalene	7	18, 28	0.26, 0.23	2,4'-DDT	0.61
2-Methylnaphthalene	10	37, 44	0.47, 0.20	4,4'-DDT	0.67
1-Methylnaphthalene	9	49, 52	0.22, 0.21	2,4'-DDE	0.61
Biphenyl	8	66, 70	0.38, 0.22	4,4'-DDE	0.57
2,6-Dimethylnaphthalene	6	74, 77	0.23, 0.53	2,4'-DDD	0.73
Acenaphthylene	5	81, 87	0.44, 0.38	4,4'-DDD	0.71
Acenaphthene	4	99, 101	0.21, 0.22	4,4'-DDMU	1.26
1,6,7-Trimethylnaphthalene	5	105, 110	0.45, 0.37		
Fluorene	5	114, 118	0.20, 0.19		
Phenanthrene	5	119, 123	0.38, 0.57		
Anthracene	5	126, 128	0.29, 0.24		
1-Methylphenanthrene	5	138, 149	0.20, 0.57		
Fluoranthene	6	151, 153	0.21, 0.37		
Pyrene	7	156, 157	0.34, 0.50		
Benzo[<i>a</i>]anthracene	8	158, 167	0.19, 0.22		
Chrysene	6	168, 169	0.45, 0.34		
Benzo[<i>b</i>]fluoranthene	7	170, 177	0.20, 0.25		
Benzo[<i>k</i>]fluoranthene	8	180, 183	0.26, 0.26		
Benzo[<i>e</i>]pyrene	7	187, 189	0.25, 0.24		
Benzo[<i>a</i>]pyrene	7	194, 200	0.27, 0.76		
Perylene	5	201, 206	0.24, 0.29		
Indeno[1,2,3- <i>cd</i>]pyrene	7				
Dibenz[<i>a,h</i>]anthracene	5				
Benzo[<i>ghi</i>]perylene	8				

^b MDLs were determined in fish tissue.