

Marine sediment - PAHs, PCBs and Pesticides

Art. ID	IAEA-459
Unit	50 g
Deliverydetails	No Dangerous Good /not restricted

Description

A marine sediment sample was collected in Han River estuary, South Korea. This sediment was freeze-dried, ground and sieved at 125 µm.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
2-Methylnaphthalene	2-Methylnaphthalene	[91-57-6]	15,5 ± 5	µg/kg		
1-Methylnaphthalene	1-Methylnaphthalene	[90-12-0]	9,2 ± 3,6	µg/kg		
Acenaphthylene	Acenaphthylene	[208-96-8]	3,2 ± 1,3	µg/kg		
Fluorene	Fluorene	[86-73-7]	4,7 ± 1,9	µg/kg		
Acenaphthene	Acenaphthene	[83-32-9]	1,78 ± 0,73	µg/kg		
Dibenzothiophene	Dibenzothiophene	[132-65-0]	9,4 ± 1,8	µg/kg		
Phenanthrene	Phenanthrene	[85-01-8]	33,9 ± 6	µg/kg		
Anthracene	Anthracene	[120-12-7]	6 ± 1	µg/kg		
Fluoranthene	Fluoranthene	[206-44-0]	37,3 ± 3	µg/kg		
Pyrene	Pyrene	[129-00-0]	46,3 ± 8,3	µg/kg		
Benz(a)anthracene	Benz(a)anthracene	[56-55-3]	19,3 ± 4,3	µg/kg		
Chrysene+triphenylene	Chrysene and Triphenylene	[n/a]	27,5 ± 8,5	µg/kg		
Benzo(b)fluoranthene	Benzo(b)fluoranthene	[205-99-2]	44,1 ± 9,3	µg/kg		
Benzo(b+j) fluoranthene	Benzo(b+j)fluoranthene	[n/a]	59 ± 15	µg/kg		
Benzo(k)fluoranthene	Benzo(k)fluoranthene	[207-08-9]	19 ± 5,3	µg/kg		
Benzo(e)pyrene	Benzo(e)pyrene	[192-97-2]	36 ± 12	µg/kg		
Benzo(a)pyrene	Benzo(a)pyrene	[50-32-8]	22,7 ± 4,3	µg/kg		
Indeno[1,2,3-c,d]pyrene	Indeno(1,2,3-cd)pyrene	[193-39-5]	36 ± 11	µg/kg		
Benzo(g,h,i)perylene	Benzo(g,h,i)perylene	[191-24-2]	36 ± 11	µg/kg		
PCB 28	2,4,4'-Trichlorobiphenyl (PCB 28)	[7012-37-5]	2,27 ± 0,56	µg/kg		
PCB 31	2,4',5-Trichlorobiphenyl (PCB 31)	[16606-02-3]	2,41 ± 0,6	µg/kg		
PCB 44	2,2',3,5'-Tetrachlorobiphenyl (PCB 44)	[41464-39-5]	1,72 ± 0,64	µg/kg		
PCB 49	2,2',4,5'-Tetrachlorobiphenyl (PCB 49)	[41464-40-8]	2,64 ± 0,4	µg/kg		
PCB 52	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	2,38 ± 0,67	µg/kg		

	phenyl (PCB 52)			
PCB 66	2,3',4,4'-Tetrachlorobi	[32598-10-0]	3,1 ± 0,81	µg/kg
	phenyl (PCB 66)			
PCB 87	2,2',3,4,5'-Pentachloro	[38380-02-8]	1,24 ± 0,17	µg/kg
	biphenyl (PCB 87)			
PCB 101	2,2',4,5,5'-Pentachloro	[37680-73-2]	3,78 ± 0,43	µg/kg
	biphenyl (PCB 101)			
PCB 105	2,3,3',4,4'-Pentachloro	[32598-14-4]	1,29 ± 0,31	µg/kg
	biphenyl (PCB 105)			
PCB 110	2,3,3',4',6-Pentachloro	[38380-03-9]	3,7 ± 0,68	µg/kg
	biphenyl (PCB 110)			
PCB 118	2,3',4,4',5-Pentachloro	[31508-00-6]	2,98 ± 0,39	µg/kg
	biphenyl (PCB 118)			
PCB 128	2,2',3,3',4,4'-Hexachlo	[38380-07-3]	0,62 ± 0,11	µg/kg
	robiphenyl (PCB 128)			
PCB 138	2,2',3,4,4',5'-Hexachlo	[35065-28-2]	3,25 ± 0,89	µg/kg
	robiphenyl (PCB 138)			
PCB 149	2,2',3,4',5',6-Hexachlo	[38380-04-0]	2,88 ± 0,51	µg/kg
	robiphenyl (PCB 149)			
PCB 151	2,2',3,5,5',6-Hexachlor	[52663-63-5]	0,66 ± 0,18	µg/kg
	obiphenyl (PCB 151)			
PCB 153	2,2',4,4',5,5'-Hexachlo	[35065-27-1]	3,75 ± 0,66	µg/kg
	robiphenyl (PCB 153)			
PCB 156	2,3,3',4,4',5-Hexachlor	[38380-08-4]	0,336 ± 0,063	µg/kg
	obiphenyl (PCB 156)			
PCB 170	2,2',3,3',4,4',5-Heptac	[35065-30-6]	1,02 ± 0,22	µg/kg
	hlorobiphenyl (PCB 170)			
PCB 180	2,2',3,4,4',5,5'-Heptac	[35065-29-3]	2,22 ± 0,34	µg/kg
	hlorobiphenyl (PCB 180)			
PCB 183	2,2',3,4,4',5',6-Heptac	[52663-69-1]	0,72 ± 0,27	µg/kg
	hlorobiphenyl (PCB 183)			
PCB 187	2,2',3,4',5,5',6-Heptac	[52663-68-0]	1,39 ± 0,2	µg/kg
	hlorobiphenyl (PCB 187)			
PCB 209	2,2',3,3',4,4',5,5',6,6	[2051-24-3]	0,199 ± 0,067	µg/kg
	'-Decachlorobiphenyl (P CB 209)			
pp' DDE	4,4'-DDE	[72-55-9]	3,6 ± 0,48	µg/kg
pp' DDD	4,4'-DDD	[72-54-8]	3 ± 0,93	µg/kg

pp' DDT	4,4'-DDT	[50-29-3]	1,32 ± 0,52	µg/kg
op DDE	2,4'-DDE	[3424-82-6]	0,47 ± 0,11	µg/kg
op DDD	2,4'-DDD	[53-19-0]	0,75 ± 0,27	µg/kg
op DDT	2,4'-DDT	[789-02-6]	0,35 ± 0,13	µg/kg
BDE 47	2,2',4,4'-Tetrabromodiphenyl ether (PBDE 47)	[5436-43-1]	0,177 ± 0,06	µg/kg
BDE 99	2,2',4,4',5-Pentabromodiphenyl ether (PBDE 99)	[60348-60-9]	0,24 ± 0,067	µg/kg
BDE 153	2,2',4,4',5,5'-Hexabromodiphenyl ether (PBDE 153)	[68631-49-2]	0,097 ± 0,022	µg/kg
BDE 183	2,2',3,4,4',5',6-Heptabromodiphenyl ether (PBDE 183)	[207122-16-5]	0,282 ± 0,065	µg/kg
BDE 209	Decabromodiphenyl ether (PBDE 209)	[1163-19-5]	10,8 ± 2,9	µg/kg