

Quality control material - River sediment RS-01-2 (metals, PCB, OCP, dioxines)

Art. ID AP-METRANAL-14
Unit 60 g
Deliverydetails No Dangerous Good /not restricted

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Dry mass at 105 °C	Silver (Ag)	[7440-22-4]	2 ± 0,12	mg/kg	Aqua regia extractable content according to ISO 11 466 (1995)	
Dry mass at 105 °C	Arsenic (As)	[7440-38-2]	27,6 ± 1,5	mg/kg	Aqua regia extractable content according to ISO 11 466 (1995)	
Dry mass at 105 °C	Barium (Ba)	[7440-39-3]	221 ± 26	mg/kg	Aqua regia extractable content according to ISO 11 466 (1995)	
Dry mass at 105 °C	Beryllium (Be)	[7440-41-7]	0,63 ± 0,05	mg/kg	Aqua regia extractable content according to ISO 11 466 (1995)	
Dry mass at 105 °C	Calcium (Ca)	[7440-70-2]	6325 ± 430	mg/kg	Aqua regia extractable content according to ISO 11 466 (1995)	
Dry mass at 105 °C	Cadmium (Cd)	[7440-43-9]	1,49 ± 0,08	mg/kg	Aqua regia	

					extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Cobalt (Co)	[7440-48-4]	6 ± 0,42	mg/kg	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Chromium (Cr)	[7440-47-3]	36,6 ± 1,5	mg/kg	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Copper (Cu)	[7440-50-8]	127 ± 4	mg/kg	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Mercury (Hg)	[7439-97-6]	8,67 ± 0,26	mg/kg	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Manganese (Mn)	[7439-96-5]	400 ± 32	mg/kg	Aqua regia extractable content according to ISO 11466 (1995)
Dry mass at 105 °C	Molybdenum (Mo)	[7439-98-7]	2,3 ± 0,28	mg/kg	Aqua regia extractable content

					according to ISO 11 466 (1995)
Dry mass at 105 °C	Nickel (Ni)	[7440-02-0]	24,9 ± 0,7	mg/kg	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Lead (Pb)	[7439-92-1]	93,2 ± 2,8	mg/kg	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Antimony (Sb)	[7440-36-0]	5,31 ± 0,55	mg/kg	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Selenium (Se)	[7782-49-2]	0,94 ± 0,1	mg/kg	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Tin (Sn)	[7440-31-5]	5,3 ± 0,26	mg/kg	Aqua regia extractab le content according to ISO 11 466 (1995)
Dry mass at 105 °C	Vanadium (V)	[7440-62-2]	21,3 ± 1,9	mg/kg	Aqua regia extractab le content according to ISO 11

					466 (1995)
Dry mass at 105 °C	Zinc (Zn)	[7440-66-6]	600 ± 21	mg/kg	Aqua regia extractable content according to ISO 11 466 (1995)
Dry mass at 40 °C	2,4,4'-Trichlorobiphenyl (PCB 28)	[7012-37-5]	94 ± 12,5	µg/kg	
Dry mass at 40 °C	2,4,5-Trichlorobiphenyl (PCB 31)	[16606-02-3]	45,1 ± 4,6	µg/kg	
Dry mass at 40 °C	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	[35693-99-3]	73,6 ± 6,8	µg/kg	
Dry mass at 40 °C	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	12,2 ± 0,9	µg/kg	
Dry mass at 40 °C	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	[37680-73-2]	115 ± 12	µg/kg	
Dry mass at 40 °C	2,3,3',4',6-Pentachlorobiphenyl (PCB 110)	[38380-03-9]	94,9 ± 14,2	µg/kg	
Dry mass at 40 °C	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	[31508-00-6]	50,4 ± 5,6	µg/kg	
Dry mass at 40 °C	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	[35065-28-2]	338 ± 44	µg/kg	
Dry mass at 40 °C	2,2',3,4',5',6-Hexachlorobiphenyl (PCB 149)	[38380-04-0]	244 ± 40	µg/kg	
Dry mass at 40 °C	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	[35065-27-1]	375 ± 75	µg/kg	
Dry mass at 40 °C	2,3,3',4',5,6-Hexachlorobiphenyl (PCB 163)	[74472-44-9]	90,4 ± 14,3	µg/kg	
Dry mass at 40 °C	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	157 ± 18	µg/kg	
Dry mass at 40 °C	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	344 ± 38	µg/kg	
Dry mass at 40 °C	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)	[52663-68-0]	158 ± 23	µg/kg	
Dry mass at 40 °C	2,2',3,3',4,4',5,5'-Octachlorobiphenyl (PCB 194)	[35694-08-7]	59 ± 5,2	µg/kg	

Dry mass at 40 °C	alpha-HCH	[319-84-6]	38,8 ± 4,8	µg/kg
Dry mass at 40 °C	beta-HCH	[319-85-7]	105 ± 21	µg/kg
Dry mass at 40 °C	gamma-HCH (Lindan)	[58-89-9]	25,3 ± 5	µg/kg
Dry mass at 40 °C	delta-HCH	[319-86-8]	29 ± 5,6	µg/kg
Dry mass at 40 °C	2,4'-DDE	[3424-82-6]	28,1 ± 4,8	µg/kg
Dry mass at 40 °C	4,4'-DDE	[72-55-9]	574 ± 61	µg/kg
Dry mass at 40 °C	2,4'-DDD	[53-19-0]	1190 ± 98	µg/kg
Dry mass at 40 °C	4,4'-DDD	[72-54-8]	2750 ± 235	µg/kg
Dry mass at 40 °C	2,4'-DDT	[789-02-6]	250 ± 63	µg/kg
Dry mass at 40 °C	4,4'-DDT	[50-29-3]	1620 ± 315	µg/kg
Dry mass at 40 °C	Hexachlorobenzene	[118-74-1]	140 ± 21	µg/kg
Dry mass at 40 °C	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	[32598-13-3]	6,9 ± 1,3	µg/kg
Dry mass at 40 °C	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	[70362-50-4]	0,33 ± 0,08	µg/kg
Dry mass at 40 °C	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	[57465-28-8]	0,32 ± 0,07	µg/kg
Dry mass at 40 °C	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	[32774-16-6]	0,035 ± 0,007	µg/kg
Dry mass at 40 °C	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	[32598-14-4]	10 ± 1,5	µg/kg
Dry mass at 40 °C	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	[74472-37-0]	0,5 ± 0,1	µg/kg
Dry mass at 40 °C	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	[31508-00-6]	42 ± 7	µg/kg
Dry mass at 40 °C	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	[65510-44-3]	<0,2	µg/kg
Dry mass at 40 °C	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	[38380-08-4]	24 ± 5	µg/kg
Dry mass at 40 °C	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	[69782-90-7]	1,5 ± 0,5	µg/kg
Dry mass at 40 °C	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	[52663-72-6]	10 ± 2	µg/kg
Dry mass at 40 °C	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)	[35065-30-6]	149 ± 18	µg/kg
Dry mass at 40 °C	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[35065-29-3]	330 ± 38	µg/kg
Dry mass at 40 °C	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 180)	[39635-31-9]	4,6 ± 0,9	µg/kg

hlorobiphenyl (PCB 189)				
Toxicity equivalent (EN -1948-3), Dry mass at 40 °C	Total I-TEQ		~75	µg/kg
Dry mass at 40 °C	2,3,7,8-Tetrachlorodibenzo-p-dioxin	[1746-01-6]	28 ± 5	ng/kg
Dry mass at 40 °C	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	[40321-76-4]	2,4 ± 0,5	ng/kg
Dry mass at 40 °C	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	[39227-28-6]	4 ± 0,7	ng/kg
Dry mass at 40 °C	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	[57653-85-7]	5,5 ± 1	ng/kg
Dry mass at 40 °C	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	[19408-74-3]	4,5 ± 1	ng/kg
Dry mass at 40 °C	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	[35822-46-9]	113 ± 20	ng/kg
Dry mass at 40 °C	Octachlorodibenzo-p-dioxin	[3268-87-9]	1170 ± 250	ng/kg
Dry mass at 40 °C	2,3,7,8-Tetrachlorodibenzofuran	[51207-31-9]	165 ± 40	ng/kg
Dry mass at 40 °C	1,2,3,7,8-Pentachlorodibenzofuran	[57117-41-6]	103 ± 20	ng/kg
Dry mass at 40 °C	2,3,4,7,8-Pentachlorodibenzofuran	[57117-31-4]	72 ± 10	ng/kg
Dry mass at 40 °C	1,2,3,4,7,8-Hexachlorodibenzofuran	[55684-94-1]	220 ± 45	ng/kg
Dry mass at 40 °C	1,2,3,6,7,8-Hexachlorodibenzofuran	[57117-44-9]	69 ± 10	ng/kg
Dry mass at 40 °C	1,2,3,7,8,9-Hexachlorodibenzofuran	[72918-21-9]	<20	ng/kg
Dry mass at 40 °C	2,3,4,6,7,8-Hexachlorodibenzofuran	[60851-34-5]	4,7 ± 0,8	ng/kg
Dry mass at 40 °C	1,2,3,4,6,7,8-Heptachlorodibenzofuran	[67562-39-4]	380 ± 80	ng/kg
Dry mass at 40 °C	1,2,3,4,7,8,9-Heptachlorodibenzofuran	[55673-89-7]	125 ± 30	ng/kg
Dry mass at 40 °C	Octachlorodibenzofuran	[39001-02-0]	1305 ± 280	ng/kg
Toxicity equivalent (EN -1948-3), Dry mass at 40 °C	Total I-TEQ		~129	ng/kg

-1948-3), Dry mass at 4

0 °C