

Table D9. PAH concentrations for sediment contaminated from asphalt (Huuskonen et al. 1998)

Concentrations in ng/g dry wgt								
	Vehendi (ng/g)	Salu (ng/g)	Joesuu (ng/g)	Mustajogi (ng/g)	Baltic TPP (ng/g)	Riigikula 1 (ng/g)	Riigikula 2 (ng/g)	Hoytiainen 1 (ng/g)
% OC	14.1	4.4	2.1	3.8	4.3	23.1	3.7	0.3
Phenanthrene	15.3	53	0.5	9.5	15.1	29.2	38700	10
Anthracene	0.4			1.1	0.2	5.1		0.9
Fluoranthene	9.1	23.9	2.1	9.5	2	97	29600	13
Pyrene	31.5	150	4.9	6	19	460	174500	9.5
Benzo(a)anthracene	3.9	14.8	2.8	3.1	1.9	38.8	24400	
Chrysene	5	38.1	4.9	9.9	4.8	34.4	8360	
Benzo(e)pyrene+ B(b)fl	4.7	40.4	5.2	11.5	8.2	18	1690	54
Benzo(k) fluoranthene	1.6	9.5				11.3	372	
Benzo(a)pyrene	1.5	16.7	1.1	1.4	7.3	20.3	373	7.5
Benzo(ghi)perylene	7.4	49.1			10.3	30.2	405	23
Total Measured PAH (mg/kg)	0.0804	0.3955	0.0215	0.052	0.0688	0.7443	278.4	0.1179
Toxic Units								
	Vehendi TU	Salu TU	Joesuu TU	Mustajogi TU	Baltic TPP TU	Riigikula 1 TU	Riigikula 2 TU	Hoytiainen 1 TU
Phenanthrene	3.76E-06	4.17E-05	8.24E-07	8.65E-06	1.22E-05	4.38E-06	3.62E-02	1.15E-04
Anthracene	9.86E-08		0.00E+00	1.01E-06	1.62E-07	7.67E-07	0.00E+00	1.04E-05
Fluoranthene	1.84E-06	1.55E-05	2.86E-06	7.14E-06	1.33E-06	1.20E-05	2.29E-02	1.24E-04
Pyrene	6.43E-06	9.81E-05	6.71E-06	4.54E-06	1.27E-05	5.73E-05	1.36E-01	9.11E-05
Benzo(a)anthracene	6.59E-07	8.02E-06	3.18E-06	1.94E-06	1.05E-06	4.00E-06	1.57E-02	0.00E+00
Chrysene	8.42E-07	2.06E-05	5.54E-06	6.18E-06	2.65E-06	3.54E-06	5.36E-03	0.00E+00
Benzo(e)pyrene+ B(b)fl	6.66E-07	1.84E-05	4.95E-06	6.05E-06	3.81E-06	1.56E-06	9.13E-04	3.60E-04
Benzo(k) fluoranthene	2.28E-07	4.34E-06	0.00E+00	0.00E+00	0.00E+00	9.83E-07	2.02E-04	0.00E+00
Benzo(a)pyrene	2.14E-07	7.62E-06	1.05E-06	7.39E-07	3.41E-06	1.76E-06	2.02E-04	5.02E-05
Benzo(ghi)perylene	9.13E-07	1.94E-05	0.00E+00	0.00E+00	4.17E-06	2.28E-06	1.91E-04	1.33E-04
Sum TU 13PAH	0.00002	0.00023	0.00003	0.00004	0.00004	0.00009	0.21732	0.00088
Total TU PAH	0.00004	0.00064	0.00007	0.00010	0.00011	0.00024	0.59763	0.00243

Table D9. PAH concentrations for sediment contaminated from asphalt (Huuskonen et al. 1998) (Continued)

	Molecular Weight (g/mol)	log K_{ow}	<i>C. riparius</i> 10-d TLM Endpoint (μmol/goc)
Phenanthrene	178.23	4.584	162.1
Anthracene	178.23	4.546	161.4
Fluoranthene	202.26	5.191	173.1
Pyrene	202.26	5.126	171.9
Benzo(a)anthracene	228.29	5.744	183.8
Chrysene	228.29	5.782	184.5
Benzo(e)pyrene+ B(b)fl	252.31	6.447	198.3
Benzo(k) fluoranthene	252.31	6.4	197.3
Benzo(a)pyrene	252.31	6.409	197.5
Benzo(ghi)perylene	276.33	6.886	207.9

In this experiment- 100 mortality was observed for the Riigikula 2 sediment. All other sediments - no difference in mortality or growth