

Handout 4

Table 3.5. Screening Levels for Sediment

	Freshwater		Marine	
	Previous µg/kg dry wt	Revised mg/kg dry wt	Previous µg/kg dry wt	Revised mg/kg dry wt
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	89	0.089	500	0.500
Acenaphthylene	130	0.128	640	0.640
Anthracene	845	0.845	1,100	1.1
Benz(a)anthracene	1,050	1.05	1,600	1.6
Benzo(a)pyrene	1,450	1.45	1,600	1.6
Chrysene	1,290	1.29	2,800	2.8
Dibenz(a,h)anthracene	140	0.140	260	0.260
Fluoranthene	2,230	2.23	5,100	5.1
Fluorene	536	0.536	540	0.540
2- Methyl naphthalene	-	-	670	0.670
Naphthalene	561	0.561	2,100	2.1
Phenanthrene	1,170	1.52	1,500	1.5
Pyrene	1,520	1.52	2,600	2.6
Low Molecular Weight PAHs	-	-	3,160	3.16
High Molecular Weight PAHs	-	-	9,600	9.6
Total PAH	22,800	22.8	44,790	44.79
Chlorinated Pesticides/PCBs/Benzenes				
Aldrin	80	0.08	-	-
Aroclor 1254	340	0.34	-	-
Aroclor 1016	530	0.53	-	-
Aroclor 1260	240	0.24	-	-
Aroclor 1248	1,500	1.50	-	-
alpha-BHC	100	0.1	-	-
beta-BHC	210	0.21	-	-
gamma-BHC (Lindane)	4.99	0.00499	0.99	0.00099
BHC	120	0.12	-	-
Chlordane (Total)	17.6	0.0176	4.79	0.00479
Dieldrin	61.8	0.0618	4.30	0.00430
Endrin	207	0.207	-	-
HCB (Hexachlorobenzene)	240	0.24	-	-
Heptachlor epoxide	16	0.016	-	-
Mirex	1,300	1.3	-	-
Sum DDE	31.3	0.0313	374	0.374
Sum DDD	28	0.028	7.81	0.00781
Sum DDT	62.9	0.0629	4.77	0.00477
Total DDT	572	0.572	461	0.0461
Total PCBs	676	0.676	180	0.180
Other Pesticides				
Toxaphene	32	0.032	-	-
Bis(2-ethyl-hexyl)phthalate	-	-	2,647	2.647
Di-n-butyl phthalate	43	0.043	-	-

	Freshwater		Marine	
	Previous	Revised	Previous	Revised
	$\mu\text{g/kg dry wt}$	mg/kg dry wt	$\mu\text{g/kg dry wt}$	mg/kg dry wt
Volatiles				
Acetone	367,990	360.18	1,003,360	1003.36
Acrylonitrile	1,360	1.36	1,040	1.04
Benzene	45,010	45.01	45,010	45.01
N-butylbenzene	6,570	6.57	-	-
Propyl benzene	4,350	4.35	-	-
Sec-butylbenzene	5,280	5.28	-	-
Tert-butylbenzene	7,260	7.26	-	-
Bromodichloromethane	14,740	14.74	-	-
2-butanone	154,260	154.26	-	-
Carbon disulfide	780	0.78	-	-
Carbon tetrachloride	37330	37.33	37,330	37.33
Chlorobenzene	19,870	19.87	19,870	19.87
Chlorodibromomethane	940	0.94	-	-
Chloroform (trichloromethane)	5,630	5.63	25.8	25.8
Chloromethane	10,680	106.8	52,430	52.43
Cumen	53,950	53.95	-	-
p-Cymene	5,980	5.98	-	-
1,2-dichlorobenzene	4,950	4.950	4,440	4.44
1,3-dichlorobenzene	350	0.35	1,950	1.95
1,4-dichlorobenzene	4,650	4.65	4,210	4.21
Dichlorodifluoromethane	22,090	22.09	-	-
1,1-dichloroethane	13,890	13.89	-	-
1,2-dichloroethane	28,690	28.69	25,800	25.80
1,1-dichloroethene	11,220	11.22	92,470	92.47
1,2-dichloroethene (trans)	71,840	71.84	-	-
1,2-dichloropropane	13,170	13.17	-	-
1,3-dichloropropene	1,370	1.37	260	0.26
Ethylbenzene	17,180	17.18	3,930	3.93
Hexachlorobutadiene	550	0.55	12.76	12.76
Hexachloroethane	13,770	13.77	13,770	13.77
Hexane, n-	12,770	12.77	-	-
2-hexanone	28,200	28.20	-	-
4-methyl-2-pentanone (MIBK)	116,590	116.59	272,060	272.06
Methyl bromide	460	0.46	2,490	2.49
Methyl methacrylate	56.98	56.98	-	-
Methylene chloride	46.52	46.52	22,910	22.91
Nitrobenzene	161.06	161.06	161.06	161.06
1-Pentanol	N/A	N/A	-	-
2-Propanol ⁰	443.99	443.99	-	-
Styrene	61,420	61.420	22,310	22.31
1,1,2,2-tetrachloroethane	3,800	3.80	3,690	3.69

	Freshwater		Marine	
	Previous	Revised	Previous	Revised
Tetrachloroethene	10,050	10.05	18,590	18.59
Toluene	17,290	17.29	5,660	5.66
	µg/kg dry wt	mg/kg dry wt	µg/kg dry wt	mg/kg dry wt
Bromoform	1,310	1.31	10,670	10.67
1,2,4-trichlorobenzene	5,310	5.31	2,320	2.32
1,1,1-trichloroethane	24,800	24.80	15,830	15.83
1,1,2-trichloroethane	5,880	5,880	1,800	1.80
Trichloroethene	5,070	5.07	8,820	8.82
Trichlorofluoromethane	10,120	10.12	-	-
1,1,2-trichlorotrifluoroethane	16,700	16.70	-	-
1,2,4-trimethylbenzene	4,580	4.58	12,950	12.95
1,3,5-trimethylbenzene	4,590	4.59	-	-
Vinyl acetate	366,290	366.29	-	-
Vinyl chloride	11,780	11.78	-	-
m-Xylene	2,080	2.08	-	-
Xylenes	12,010	12.01	7,470	7.47