

Table A1. Threshold concentrations for chemical determinands.

Determinand	Site won material		Imported material		Topsoil	
	Maximum Soil Concentration	Maximum Soil Leachate Concentration	Maximum Soil Concentration	Maximum Soil Leachate Concentration	Maximum Soil Concentration	Maximum Soil Leachate Concentration
Arsenic	640 mg/kg	-	40 mg/kg	-	37 mg/kg	-
Cadmium	410 mg/kg	-	149 mg/kg	-	26 mg/kg	-
Chromium (total)	8,600 mg/kg	-	910 mg/kg	-	910 mg/kg	-
Chromium (VI)	49 mg/kg	-	21 mg/kg	-	21 mg/kg	-
Lead	2,330 mg/kg	-	310 mg/kg	-	200 mg/kg	-
Mercury	58 mg/kg	-	56 mg/kg	-	1.2 mg/kg	-
Selenium	12,000 mg/kg	-	430 mg/kg	-	250 mg/kg	-
Copper	68,000 mg/kg	-	7,100 mg/kg	-	2,400 mg/kg	-
Nickel	980 mg/kg	-	180 mg/kg	-	130 mg/kg	-
Zinc	730,000 mg/kg	-	40,000 mg/kg	-	3,700 mg/kg	-
TPH	See Table A2	-	See Table A2	-	See Table A2	-
Polycyclic Aromatic Hydrocarbons (USEPA 16)	See Table A3	-	See Table A3	-	See Table A3	-
Phenol Index	1,300 mg/kg	-	1,200 mg/kg	-	380 mg/kg	-
Free Cyanide	16,000 mg/kg	-	760 mg/kg	-	4.6 mg/kg	-
pH	5<pH<9	-	5<pH<9	-	5<pH<9	-
Asbestos	See Note 1	-	See Note 1	-	None detectable (Note 2)	-

Note: 1. Free fibres <0.1%. Cement-bound asbestos <0.1% of total material volume.
 2. No free fibres and no cement bound asbestos.

Table A2. Threshold concentrations for risk banded hydrocarbons and BTEX.

Determinand		Maximum Concentration for site won material	Maximum Concentration for imported material	Maximum Concentration for Topsoil
Aliphatic	EC > 5 - EC6	3,200 mg/kg	42 mg/kg	42 mg/kg
	EC > 6 - EC8	7,800 mg/kg	100 mg/kg	100 mg/kg
	EC8 - EC10	2,000 mg/kg	27 mg/kg	27 mg/kg
	EC10 - EC12	9,700 mg/kg	130 mg/kg	130 mg/kg
	EC12 - EC16	59,000 mg/kg	1,100 mg/kg	1,100 mg/kg
	EC16 - EC21	1,600,000 mg/kg	65,000 mg/kg	65,000 mg/kg
	EC21 - EC35	1,600,000 mg/kg	65,000 mg/kg	65,000 mg/kg
Aromatic	EC5 - EC7	26,000 mg/kg	370 mg/kg	70 mg/kg
	EC7 - EC8	56,000 mg/kg	860 mg/kg	130 mg/kg
	EC8 - EC10	3,500 mg/kg	47 mg/kg	34 mg/kg
	EC10 - EC12	16,000 mg/kg	250 mg/kg	74 mg/kg
	EC12 - EC16	36,000 mg/kg	1,800 mg/kg	140 mg/kg
	EC16 - EC21	28,000 mg/kg	1,900 mg/kg	260 mg/kg
	EC21 - EC35	28,000 mg/kg	1,900 mg/kg	1,100 mg/kg
Benzene		0.38 mg/kg	0.38 mg/kg	0.087 mg/kg
Ethylbenzene		83 mg/kg	83 mg/kg	47 mg/kg
Toluene		880 mg/kg	880 mg/kg	130 mg/kg
Xylene		79 mg/kg	79 mg/kg	56 mg/kg

Table A3. Threshold concentrations for Poly Aromatic Hydrocarbons (USEPA 16).

Determinand	Maximum Concentration for site won material	Maximum Concentration for imported material	Maximum Concentration for Topsoil
Naphthalene	190 mg/kg	2.3 mg/kg	2.3 mg/kg
Acenaphthylene	83,000 mg/kg	2,900 mg/kg	170 mg/kg
Acenaphthene	84,000 mg/kg	3,000 mg/kg	210 mg/kg
Fluorene	63,000 mg/kg	2,800 mg/kg	170 mg/kg
Phenanthrene	22,000 mg/kg	1,300 mg/kg	95 mg/kg
Anthracene	520,000 mg/kg	31,000 mg/kg	2,400 mg/kg
Fluoranthene	23,000 mg/kg	1,500 mg/kg	280 mg/kg
Pyrene	54,000 mg/kg	3,700 mg/kg	620 mg/kg
Benzo(a)anthracene	170 mg/kg	11 mg/kg	7.2 mg/kg
Chrysene	350 mg/kg	30 mg/kg	15 mg/kg
Benzo(b)fluoranthene	44 mg/kg	3.9 mg/kg	2.6 mg/kg
Benzo(k)fluoranthene	1,200 mg/kg	110 mg/kg	77 mg/kg
Benzo(a)pyrene	35 mg/kg	3.2 mg/kg	2.2 mg/kg
Indeno(123-cd)pyrene	500 mg/kg	45 mg/kg	27 mg/kg
Dibenzo(ah)anthracene	3.5 mg/kg	0.31 mg/kg	0.24 mg/kg
Benzo(ghi)perylene	3,900 mg/kg	360 mg/kg	320 mg/kg

Note: All laboratory contamination testing shall be carried out in a UKAS and MCerts accredited laboratory, in accordance with the standards and procedures defined by MCerts.