

The Wave London: Waste Acceptance / Compliance Criteria				
Determinand	Inert WAC (mg/kg)	POS _{park} ¹ (mg/kg)	Commercial ¹ (mg/kg) (>1mbfgl) ²	Source
Asbestos	-	< 0.001%	< 0.001%	
Organic Matter	3%	-	-	Inert WAC
Cyanide		24	21000	
Sulphate	1000			Inert WAC
Metals and Metalloids				
Arsenic	0.5	170	640	LQM / CIEH (2015) S4UL ³
Barium	20	-	22000	CL:AIRE (2010) ⁴
Beryllium	-	63	12	LQM / CIEH (2015) S4UL ³
Boron	-	46000	240000	LQM / CIEH (2015) S4UL ³
Cadmium	0.04	560	190	LQM / CIEH (2015) S4UL ³
Chromium (III)	0.5	33000	8600	LQM / CIEH (2015) S4UL ³
Chromium (VI)	-	220	33	LQM / CIEH (2015) S4UL ³
Copper	2	44000	68000	LQM / CIEH (2015) S4UL ³
Lead	0.5	1300	2300	Defra (2014) C4SL ⁵
Mercury - Elemental	0.01	30	58	LQM / CIEH (2015) S4UL ³
Mercury - Inorganic	-	240	1100	LQM / CIEH (2015) S4UL ³
Mercury - Methyl	-	68	320	LQM / CIEH (2015) S4UL ³
Nickel	0.4	800	980	LQM / CIEH (2015) S4UL ³
Selenium	0.1	1800	12000	LQM / CIEH (2015) S4UL ³
Vanadium	-	5000	9000	LQM / CIEH (2015) S4UL ³
Zinc	4	170000	730000	LQM / CIEH (2015) S4UL ³
Phenol				
Phenol	1	440 ^{dir} (7600)	440 ^{dir} (26000)	LQM / CIEH (2015) S4UL ³
Polyaromatic Hydrocarbons (USEPA 16)				
Naphthalene	-	1200 (76.4) ^{sol}	190 (76.4) ^{sol}	LQM / CIEH (2015) S4UL ³
Acenaphthylene	-	29000	83000 (86.1) ^{sol}	LQM / CIEH (2015) S4UL ³
Acenaphthene	-	29000	84000 (57.0) ^{sol}	LQM / CIEH (2015) S4UL ³
Fluorene	-	20000	63000 (30.9) ^{sol}	LQM / CIEH (2015) S4UL ³

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Phenanthrene	-	6200	22000	LQM / CIEH (2015) S4UL ³
Anthracene	-	150000	520000	LQM / CIEH (2015) S4UL ³
Fluoranthene	-	6300	23000	LQM / CIEH (2015) S4UL ³
Pyrene	-	1500	54000	LQM / CIEH (2015) S4UL ³
Benzo(a)anthracene	-	49	170	LQM / CIEH (2015) S4UL ³
Chrysene	-	93	350	LQM / CIEH (2015) S4UL ³
Benzo(b)fluoranthene	-	13	44	LQM / CIEH (2015) S4UL ³
Benzo(k)fluoranthene	-	370	1200	LQM / CIEH (2015) S4UL ³
Benzo(a)pyrene	-	11	35	LQM / CIEH (2015) S4UL ³
Indeno(1,2,3-cd)pyrene	-	150	500	LQM / CIEH (2015) S4UL ³
Di-benzo(a,h)anthracene	-	1.1	3.5	LQM / CIEH (2015) S4UL ³
Benzo(ghi)perylene	-	1400	3900	LQM / CIEH (2015) S4UL ³
Coal Tar (BaP surrogate marker)	-	4.4	15	LQM / CIEH (2015) S4UL ³
Total PAH	100	-	-	Inert WAC
Mineral Oil	500			Inert WAC
Total Petroleum Hydrocarbons (LQM Banding)				
Aliphatic EC5 - EC6	-	95000 (304) ^{sol}	3200 (304) ^{sol}	LQM / CIEH (2015) S4UL ³
Aliphatic >EC6 - EC8	-	150000 (144) ^{sol}	7800 (144) ^{sol}	LQM / CIEH (2015) S4UL ³
Aliphatic >EC8 - EC10	-	14000 (78) ^{sol}	2000 (78) ^{sol}	LQM / CIEH (2015) S4UL ³
Aliphatic >EC10 - EC12	-	21000 (48) ^{sol}	9700 (48) ^{sol}	LQM / CIEH (2015) S4UL ³
Aliphatic >EC12 - EC16	-	25000 (24) ^{sol}	59000 (24) ^{sol}	LQM / CIEH (2015) S4UL ³
Aliphatic >EC16 - EC35	-	450000	1600000	LQM / CIEH (2015) S4UL ³
Aliphatic >EC35 - EC44	-	450000	1600000	LQM / CIEH (2015) S4UL ³
Aromatic >EC5 - EC7	-	76000 (1220) ^{sol}	26000 (1220) ^{sol}	LQM / CIEH (2015) S4UL ³
Aromatic >EC7 - EC8	-	87000 (869) ^{vap}	56000 (869) ^{vap}	LQM / CIEH (2015) S4UL ³
Aromatic >EC8 - EC10	-	7200 (613) ^{vap}	3500 (613) ^{vap}	LQM / CIEH (2015) S4UL ³
Aromatic >EC10 - EC12	-	9200 (364) ^{vap}	16000 (364) ^{sol}	LQM / CIEH (2015) S4UL ³
Aromatic >EC12 - EC16	-	10000	36000 (169) ^{sol}	LQM / CIEH (2015) S4UL ³

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Aromatic >EC16 - EC21	-	7600	28000	LQM / CIEH (2015) S4UL ³
Aromatic >EC21 - EC35	-	7800	28000	LQM / CIEH (2015) S4UL ³
Aromatic >EC35 - EC44	-	7800	28000	LQM / CIEH (2015) S4UL ³
Ali + Aro >EC44 - EC70	-	7800	28000	LQM / CIEH (2015) S4UL ³
BTEX + MTBE				
BTEX	6	90	27	LQM / CIEH (2015) S4UL ³
MTBE (Methyl <i>tert</i> -butyl ether)	-	-	7900	CL:AIRE (2010) ⁴
VOC				
Vinyl Chloride (Chloroethene)	-	4.8	0.059	LQM / CIEH (2015) S4UL ³
Chloromethane	-	-	1	CL:AIRE (2010) ⁴
Chloroethane	-	-	960	CL:AIRE (2010) ⁴
1,1-Dichloroethene	-	-	26	CL:AIRE (2010) ⁴
trans-1,2-Dichloroethene	-	-	22	CL:AIRE (2010) ⁴
1,1-Dichloroethane	-	-	280	CL:AIRE (2010) ⁴
cis-1,2-Dichloroethene	-	-	14	CL:AIRE (2010) ⁴
trans-1,2-Dichloroethene	-	-	22	CL:AIRE (2010) ⁴
Chloroform (trichloromethane / TCM)	-	2600	99	LQM / CIEH (2015) S4UL ³
1,1,1-Trichloroethane (1,1,1-TCA)	-	57000 (1425) ^{vap}	660	LQM / CIEH (2015) S4UL ³
1,2-Dichloroethane (1,2-DCA)	-	21	2.9	LQM / CIEH (2015) S4UL ³
1,2-Dichloropropane	-	-	0.67	CL:AIRE (2010) ⁴
Trichloroethene (TCE)	-	70	3.3	LQM / CIEH (2015) S4UL ³
Bromodichloromethane	-	-	1.2	CL:AIRE (2010) ⁴
1,1,2-Trichloroethane	-	-	2.1	CL:AIRE (2010) ⁴
Tetrachloroethene (PCE)	-	810 (424) ^{sol}	94	LQM / CIEH (2015) S4UL ³
Chlorobenzene	-	1300 (675) ^{sol}	19	LQM / CIEH (2015) S4UL ³
1,1,1,2-Tetrachloroethane (1,1,1,2-PCA)	-	1500	56	LQM / CIEH (2015) S4UL ³
Bromoform	-	-	3300 (626) ^{sat}	CL:AIRE (2010) ⁴
Isopropylbenzene	-	-	760	CL:AIRE (2010) ⁴

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1,1,2,2-Tetrachloroethane (1,1,2,2-PCA)	-	1800	1400 (390) ^{sat}	LQM / CIEH (2015) S4UL ³
n-Propylbenzene	-	-	270	CL:AIRE (2010) ⁴
Bromobenzene	-	-	4100 (402) ^{sat}	CL:AIRE (2010) ⁴
1,2,4-Trimethylbenzene	-	-	97	CL:AIRE (2010) ⁴
1,3-Dichlorobenzene	-	390	42	LQM / CIEH (2015) S4UL ³
1,4-Dichlorobenzene	-	36000 (224) ^{vap}	30	LQM / CIEH (2015) S4UL ³
1,2-Dichlorobenzene	-	24000 (571) ^{sol}	4400 (224) ^{vap}	LQM / CIEH (2015) S4UL ³
Dichloromethane	-	-	2000 (571) ^{sol}	CL:AIRE (2010) ⁴
<p>Notes:</p> <p>^{sol} GAC exceed the solubility saturation limit which is presented in brackets; consideration of the CSM may be required</p> <p>^{vap} GAC exceed the vapour saturation limit which is presented in brackets; consideration of the CSM may be required</p> <p>^{sat} GAC exceed a soil saturation limit (not specified) which is presented in brackets; consideration of the CSM may be required</p> <p>^{dir} GAC is based on tolerable direct contact concentration; long term health protection value presented in brackets</p> <p>¹ POS_{park} = Public open space in an amenity setting</p> <p>² mbfgl = metres below finished ground level</p> <p>³Nathanial, C.P. <i>et al.</i> (2015), The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Note that the LQM / CIEM S4ULs update and replace the former LQM / CIEH GAC on the basis of new toxicological and refined modelling data. The S4ULs also cover the Environment Agency SGV substances with the inclusion of updated toxicological and modelling data.</p> <p>⁴CL:AIRE, 'Soil Generic Assessment Criteria for Human Health Risk Assessment', 2010.</p> <p>⁵Defra (2014), 'SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination - Policy Document Companion Document', Defra, December 2014; CL:AIRE Report 'SP1010 - Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, Rev 2, September 2014; Defra erratum note, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination - SP1010, Erratum (December 2014).</p> <p>⁶Nathanial, C.P. <i>et al.</i> (2015), The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Nickel update (August 2015).</p>				