



Site	Kingsgate School, Liddell Road, London NW6 2EW	Job Number	J14212
Client	London Borough of Camden	Sheet	01/01
Engineer			

Proposed End Use Residential with plant uptake

Soil pH 7

Soil Organic Matter content % 1.0

Contaminant	Screening Value mg/kg	Data Source	Contaminant	Screening Value mg/kg	Data Source
Metals			Anions		
Arsenic	37	C4SL	Soluble Sulphate	500 mg/l	Structures
Cadmium	26	C4SL	Sulphide	50	Structures
Chromium (III)	3000	LQM/CIEH	Chloride	400	Structures
Chromium (VI)	21	C4SL	Others		
Copper	2,330	LQM/CIEH	Organic Carbon (%)	6	Methanogenic potential
Lead	200	C4SL	Total Cyanide	140	WRAS
Elemental Mercury	1	SGV	Total Mono Phenols	184	SGV
Inorganic Mercury	170	SGV	PAH		
Nickel	97	LQM/CIEH	Naphthalene	2.20	C4SL exp & LQM/CIEH
Selenium	350	SGV	Acenaphthylene	170	LQM/CIEH
Zinc	3,750	LQM/CIEH	Acenaphthene	210	LQM/CIEH
Hydrocarbons			Fluorene	160	LQM/CIEH
Benzene	0.2	C4SL	Phenanthrene	92	LQM/CIEH
Toluene	120	SGV	Anthracene	2,300	LQM/CIEH
Ethyl Benzene	65	SGV	Fluoranthene	260	LQM/CIEH
Xylene	42	SGV	Pyrene	560	LQM/CIEH
Aliphatic C5-C6	30	LQM/CIEH	Benzo(a) Anthracene	4.3	C4SL exp & LQM/CIEH
Aliphatic C6-C8	73	LQM/CIEH	Chrysene	8	C4SL exp & LQM/CIEH
Aliphatic C8-C10	19	LQM/CIEH	Benzo(b) Fluoranthene	7.7	C4SL exp & LQM/CIEH
Aliphatic C10-C12	93	LQM/CIEH	Benzo(k) Fluoranthene	12.1	C4SL exp & LQM/CIEH
Aliphatic C12-C16	740	LQM/CIEH	Benzo(a) pyrene	4.35	C4SL
Aliphatic C16-C35	45,000	LQM/CIEH	Indeno(1 2 3 cd) Pyrene	4.4	C4SL exp & LQM/CIEH
Aromatic C6-C7	See Benzene	LQM/CIEH	Dibenzo(a h) Anthracene	1.10	C4SL exp & LQM/CIEH
Aromatic C7-C8	See Toluene	LQM/CIEH	Benzo (g h i) Perylene	65	C4SL exp & LQM/CIEH
Aromatic C8-C10	27	LQM/CIEH	Screening value for PAH	62.1	B(a)P / 0.15
Aromatic C10-C12	69	LQM/CIEH	Chlorinated Solvents		
Aromatic C12-C16	140	LQM/CIEH	1,1,1 trichloroethane (TCA)	11.7	LQM/CIEH
Aromatic C16-C21	250	LQM/CIEH	tetrachloroethane (PCA)	0.56	LQM/CIEH
Aromatic C21-C35	890	LQM/CIEH	tetrachloroethene (PCE)	1.01	LQM/CIEH
PRO (C ₅ -C ₁₀)	269	Calc	trichloroethene (TCE)	0.134	LQM/CIEH
DRO (C ₁₂ -C ₂₈)	46,130	Calc	1,2-dichloroethane (DCA)	0.0054	LQM/CIEH
Lube Oil (C ₂₈ -C ₄₄)	45,890	Calc	vinyl chloride (Chloroethene)	0.000953	LQM/CIEH
TPH	1000	Trigger for speciated testing	tetrachloromethane (Carbon tetra)	0.018	LQM/CIEH
			trichloromethane (Chloroform)	0.888	LQM/CIEH

Notes

Concentrations measured below the above values may be considered to represent 'uncontaminated conditions' which pose 'LOW' risk to human health. Concentrations measured in excess of these values indicate a potential risk which require further, site specific risk assessment.

SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009

LQM/CIEH - Generic Assessment Criteria for Human Health Risk Assessment 2nd edition (2009) derived using CLEA 1.04 model 2009

C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk

C4SL exp & LQM/CIEH calculated using C4SL revisions to exposure assessment but LQM/CIEH health criteria values

Calc - sum of nearest available carbon range specified including BTEX for PRO fraction

B(a)P / 0.15 - GEA experience indicates that Benzo(a) pyrene (one of the most common and most carcinogenic of the PAHs) rarely exceeds 15% of the total PAH concentration, hence this Total PAH threshold is regarded as being conservative