

Tier 1 Generic Assessment Criteria

	Residential With Produce	Residential Without Produce	Allotments	Commercial (office)	Commercial (warehouse)
Arsenic	32.40	35.00	43.00	635.00	635.00
Cadmium	5.17	17.70	1.05	230.00	230.00
Mercury, elemental	1.02	1.02	316.00	109.00	83.40
Mercury, inorganic	169.00	238.00	80.30	3640.00	3640.00
Mercury, methyl	11.40	14.10	7.97	407.00	409.00
Selenium	350.00	595.00	121.00	13000.00	13000.00
Phenol	415.00	519.00	282.00	37600.00	38000.00
Toluene	611.00	2710.00	118.00	189000.00	166000.00
Lead	210.00	210.00	84.00	2300.00	2300.00
Nickel	130.00	130*	180.00	980.00	980.00
Total Cyanide	34.00	34.00			
Benzo(a)pyrene	3.00	3.20	3.50	36.00	14.40
Dibenzo(a,h)anthracene	0.30	0.32	0.43	3.60	13.00
Acenaphthene	1100.00	6000.00	200.00	100000.00	103000.00
Acenaphthylene	920.00	6000.00	160.00	100000.00	103000.00
Anthracene	11000.00	37000.00	2200.00	540000.00	542000.00
Benzo(a)anthracene	13.00	15.00	13.00	180.00	97.50
Benzo(b)fluoranthene	3.70	4.00	3.90	45.00	103.00
Benzo(g,h,i)perylene	350.00	360.00	640.00	4000.00	661.00
Benzo(k)fluoranthene	100.00	110.00	130.00	1200.00	144.00
Chrysene	27.00	32.00	19.00	350.00	143.00
Fluoranthene	890.00	1600.00	290.00	23000.00	22700.00
Fluorene	860.00	4500.00	160.00	71000.00	70700.00
Indeno(1,2,3-c,d)pyrene	41.00	46.00	39.00	510.00	61.70
Phenanthrene	440.00	1500.00	90.00	23000.00	22600.00
Pyrene	2000.00	3800.00	620.00	54000.00	54500.00
Napthalene	13.00	13.00	24.00	1100.00	875.00
Chromium VI	3.38	4.12	2.11	34.20	34.20
Chromium III	627.00	627.00	15300.00	8840.00	8840.00
Copper	2330.00	6200*	524.00	71700.00	71700.00
Vanadium	79.00	226.00	17.90	5590.00	5590.00
Zinc	3750.00	40400*	618.00	665000.00	665000.00

Note:

All figures are in mg/kg

Values calculated using CLEA v1.071

Soil type chosen is sandy loam, pH 7

All organic determinands calculated using 6% SOM

PAH = S4UL (except warehouse model - CLEAv1.071)

* Phytotoxic assessment based on pH range of <6.0 to >7.0

Copper = 100 - 200mg/kg

Nickel = 60 - 110mg/kg

Zinc = 200 - 300mg/kg



Generic Assessment Criteria

Contaminants	Land Use Scenario				
	Residential With Produce	Residential Without Produce	Allotments	Commercial (office)	Commercial (warehouse)
Benzene	0.33	1.00	0.07	94.70	80.30
Ethylbenzene	354.00	843.00	91.20	65700.00	55600.00
Phenol	415.00	519.00	282.00	37600.00	38000.00
Toluene	611.00	2710.00	118.00	189000.00	166000.00
Xylene, o-	246.00	321.00	159.00	34600.00	27600.00
Xylene, m-	240.00	302.00	175.00	32700.00	26100.00
Xylene, p-	228.00	288.00	164.00	31400.00	25100.00
Aliphatic C5 - C6	113.00	113.00	3910.00	12800.00	10800.00
Aliphatic C6 - C8	48.10	48.20	13300.00	5470.00	4620.00
Aliphatic C8 - C10	108.00	109.00	1710.00	11900.00	10200.00
Aliphatic C10 - C12	537.00	538.00	7280.00	49300.00	43700.00
Aliphatic C12 - C16	3030.00	3040.00	13400.00	90500.00	89600.00
Aliphatic C16 - C35	88400.00	89100.00	281000.00	1910000.00	1910000.00
Aliphatic C35 - C44	88400.00	89100.00	281000.00	1910000.00	1910000.00
Aromatic C5 - C7	275.00	978.00	57.30	89900.00	76800.00
Aromatic C7 - C8	611.00	2710.00	118.00	189000.00	166000.00
Aromatic C8 - C10	151.00	189.00	50.50	17800.00	15700.00
Aromatic C10 - C12	346.00	866.00	73.80	34500.00	33800.00
Aromatic C12 - C16	593.00	1710.00	134.00	37800.00	37800.00
Aromatic C16 - C21	770.00	1340.00	260.00	28600.00	28600.00
Aromatic C21 - C35	1230.00	1340.00	1550.00	28600.00	28600.00
Aromatic C35 - C44	1230.00	1340.00	1550.00	28600.00	28600.00
Combined Ali & Aro C44 - C70	1300.00	1340.00	2950.00	28600.00	28600.00

Note:

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Values calculated using CLEA v1.071

Soil type chosen is sandy loam, pH 7

All organic determinands calculated using 6% SOM