

Current limits applied by the ERA for contamination analyses are as per Italian Decreto 152 of 3rd April 2006

Italian Decreto: ID 152 of 2006. Part 4, Attachment 5, Table 1

Land Samples			
	Parameter	Residential & Green site limits (mg/kg DW)	Commercial & Industrial Limit (mg/kg DW)
Metals	Antimony	10	30
	Arsenic	20	50
	Berillium	2	10
	Cadmium	2	15
	Cobalt	20	250
	Chromium Total	150	800
	Chromate VI	2	15
	Mercury	1	5
	Nickel	120	500
	Lead	100	1000
	Copper	120	600
	Selenium	3	15
	Tin	1	350
	Thallium	1	10
	Vanadium	90	250
	Zinc	150	1500
	Cyanides (free)	1	100
	Fluorides	100	2000
	BTEX	Benzene	0.1
Ethylbenzene		0.5	50
Styrene		0.5	50
Toluene		0.5	50
Xylene		0.5	50
Sum TEX+S		1	100
PAHs	Benzo(a)anthracene	0.5	10
	Benzo(a)pyrene	0.1	10
	Benzo(b)fluoranthene	0.5	10
	Benzo(k)fluoranthene	0.5	10
	Benzo(g,h,i)perylene	0.1	10
	Chrysene	5	10
	Dibenzo(a,e)pyrene	0.1	10
	Dibenzo(a,l)pyrene	0.1	10
	Dibenzo(a,i)pyrene	0.1	10
	Dibenzo(a,h)pyrene	0.1	10
	Dibenzo(a,h)anthracene	0.1	10
	Indenopyrene	0.1	5
	Pyrene	5	50
	Sum PAHs	10	100
Chlorinated Carcinogenic Aliphatic Compounds	Chloromethane	0.1	5
	Dichloromethane	0.1	5
	Trichloromethane	0.1	5
	Polyvinyl Chloride	0.01	0.1
	1,2-Dichloroethane	0.2	5
	1,1-Dichloroethene	0.1	1
	Trichloroethene	1	10
	Tetrachloroethene (PCE)	0.5	20
Chlorinated Non-Carcinogenic Aliphatic Compounds	1,1-Dichloroethane	0.5	30
	1,2-Dichloroethene	0.3	15

Italian Decreto: ID 152 of 2006. Part 4, Att. 5, Table 2

Groundwater Samples		
	Parameter	Limit Value (µg/L)
Metals	Aluminium	200
	Antimony	5
	Silver	10
	Arsenic	10
	Berillium	4
	Cadmium	5
	Cobalt	50
	Chromium Total	50
	Chromate VI	5
	Iron	200
	Mercury	1
	Nickel	20
	Plead	10
	Copper	1000
	Selenium	10
	Manganese	50
	Thallium	2
	Zinc	3000
	Inorganics	Boron
Cyanides (free)		50
Fluorides		1500
Nitrites		500
Sulphates (mg/L)		250
BTEX	Benzene	1
	Ethylbenzene	50
	Styrene	25
	Toluene	15
	para-Xylene	10
PAHs	Benzo(a)anthracene	0.1
	Benzo(a)pyrene	0.01
	Benzo(b)fluoranthene	0.1
	Benzo(k)fluoranthene	0.05
	Benzo(g,h,i)perylene	0.01
	Chrysene	5
	Dibenzo(a,h)anthracene	0.01
	Indeno(1,2,3,-c,d)perylene	0.1
	Pyrene	50
	Sum Fluoranthene	0.1
Chlorinated Carcinogenic Aliphatic Compounds	Chloromethane	1.5
	Trichloromethane	0.15
	Polyvinyl Chloride	0.5
	1,2-Dichloroethane	3
	1,1-Dichloroethene	0.05
	Trichloroethene	1.5
	Tetrachloroethene	1.1
	Hexachlorobutadiene	0.15
	Sum Halogenated	10
Chlorinated Non-Carcinogenic Aliphatic Compounds	1,1-Dichloroethane	810

	1,1,1-Trichloroethane	0.5	50
	1,2-Dichloropropane	0.5	5
	1,1,2-Trichloroethane	0.5	15
	1,2,3-Trichloropropane	1	10
	1,1,2,2-Tetrachloroethane	0.5	10
Halogenated Carcinogenic Aliphatic Compounds	Tribromomethane	0.5	10
	1,2-Dibromoethane	0.01	0.1
	Dibromochloromethane	0.5	10
	Bromodichloromethane	0.5	10
Nitrobenzenes	Nitrobenzene	0.5	30
	1,2-Dinitrobenzene	0.1	25
	1,3-Dinitrobenzene	0.1	25
	Chloronitrobenzene	0.1	10
Chlorobenzenes non-carcinogenic	Monochlorobenzene	0.5	50
carcinogenic	1,2-dichlorobenzene	1	50
	1,4-dichlorobenzene	0.1	10
	1,2,4-Trichlorobenzene	1	50
	1,2,4,5-Tetrachlorobenzene	1	25
	Pentachlorobenzene	0.1	50
	Hexachlorobenzene	0.05	5
non-Chlorinated Phenols	o/m/p-Methylphenol	0.1	25
	Phenol	1	60
Chlorinated Phenols	2-Chlorophenol	0.5	25
	2,4-Dichlorophenol	0.5	50
	2,4,6-Trichlorophenol	0.01	5
	Pentachlorophenol	0.01	5
Aromatic Amines	Aniline	0.05	5
	o-Anisidine	0.1	10
	m,p-Anisidine	0.1	10
	Diphenylamine	0.1	10
	p-Toluidine	0.1	5
	Sum Aromatic Amines	0.5	25
Pesticides	Alaclor	0.01	1
	Aldrin	0.01	0.1
	Atrazine	0.01	1
	α-Hexachlorohexane	0.01	0.1
	β-Hexachlorohexane	0.01	0.5
<i>Lindano</i>	γ-Hexachlorohexane	0.01	0.5
<i>Chlordan</i>	Chlordane	0.01	0.1
	DDD, DDT, DDE	0.01	0.1
	Dieldrin	0.01	0.1
	Endrin	0.01	2
		0.00001	0.0001
Dioxins & Furans	Sum PCDD, PCDF (WHO TEQ)	(10ng/kg) (0.01ng/g)	(100ng/kg) (0.1ng/g)
		0.06	
PCBs	Sum PCBs	(60ng/g)	5
Hydrocarbons	C ≤ 12	10	250
	C > 12	50	750
Others	Asbestos	1000	1000
	Phthalic acid esters	10	60

	1,2-Dichloroethene	60
	1,2-Dichloropropane	0.15
	1,1,2-Trichloroethane	0.2
	1,2,3-Trichloropropane	0.001
	1,1,2,2-Tetrachloroethane	0.05
Halogenated Carcinogenic Aliphatic Compounds	Tribromomethane	0.3
	1,2-Dibromoethane	0.001
	Dibromochloromethane	0.13
	Bromodichloromethane	0.17
Nitrobenzenes	Nitrobenzene	3.5
	1,2-Dinitrobenzene	15
	1,3-Dinitrobenzene	3.7
	Chloronitrobenzene	0.5
Chlorobenzenes non-carcinogenic	Monochlorobenzene	40
carcinogenic	1,2-dichlorobenzene	270
	1,4-dichlorobenzene	0.5
	1,2,4-Trichlorobenzene	190
	1,2,4,5-Tetrachlorobenzene	1.8
	Pentachlorobenzene	5
	Hexachlorobenzene	0.01
Phenols & Chlorophenols	2-Chlorophenol	180
	2,4-Dichlorophenol	110
	2,4,6-Trichlorophenol	5
	Pentachlorophenol	0.5
Aromatic Amines	Aniline	10
	Diphenylamine	910
	p-Toluidine	0.35
Pesticides	Alaclor	0.1
	Aldrin	0.03
	Atrazine	0.3
	α-Hexachlorohexane	0.1
	β-Hexachlorohexane	0.1
<i>Lindano</i>	γ-Hexachlorohexane	0.1
<i>Chlordan</i>	Chlordane	0.1
	DDD, DDT, DDE	0.1
	Dieldrin	0.03
	Endrin	0.1
	Sum Pesticides	0.5
		0.000004
Dioxins & Furans	Sum PCDD, PCDF (WHO TEQ)	(4ng/kg) (0.004ng/g)
PCBs	Sum PCBs	0.01
Hydrocarbons	Total Hydrocarbon	350
Others	Asbestos (fibres > 5µm)	/
	para-Phthalic acid	37000
	Acrylamide	0.1