Comparison of May 1999 Direct Contact Soil Cleanup Criteria, June 2008 and September 2017 Direct Contact Soil Remediation Standards, and May 2021 Soil Remediation Standards for the Ingestion-Dermal and Inhalation Exposure Pathways

Contaminant	CAS No.	5/12/1999 Residential Direct Contact Soil Cleanup Criterion (mg/kg)	6/2/2008 Residential Direct Contact Soil Remediation Standard (mg/kg)	9/18/2017 Residential Direct Contact Soil Remediation Standard (mg/kg)	5/17/2021 Residential Ingestion-Dermal Soil Remediation Standard (mg/kg)	5/17/2021 Residential Inhalation Soil Remediation Standard (mg/kg)	5/12/1999 Non-Residential Direct Contact Soil Cleanup Criterion (mg/kg)	6/2/2008 Non-Residential Direct Contact Soil Remediation Standard (mg/kg)	9/18/2017 Non-Residential Direct Contact Soil Remediation Standard (mg/kg)	5/17/2021 Non-Residential Ingestion-Dermal Soil Remediation Standard (mg/kg)	5/17/2021 Non-Residential Inhalation Soil Remediation Standard (mg/kg)
Acenaphthene	83-32-9	3,400	3,400	3,400	3,600	NA	10,000 (b)	37,000	37,000	50,000	NA
Acenaphthylene	208-96-8	NR	NA	NA	NR	NR	NR	300,000	300,000	NR	NR
Acetone (2-Propanone)	67-64-1	1,000(a)	70,000	70,000	70,000	NA	1,000(a)	NA	NA	NA	NA
Acetophenone	98-86-2	NR	2	2	7,800	NA	NR	5	5	130,000	NA
Acrolein	107-02-8	NR	0.5	0.5	NR	NR	NR	1	1	NR	NR
Acrylonitrile	107-13-1	1	0.9	0.9	NR	NR	5	3	3	NR	NR
Aldrin	309-00-2	0.04	0.04	0.04	0.041	NA	0.17	0.2	0.2	0.21	NA
Aluminum (total)	7429-90-5	NR	78,000	78,000	78,000	NA	NR	NA	NA	NA	NA
Anthracene	120-12-7	10,000(b)	17,000	17,000	18,000	NA	10,000(b)	30,000	30,000	250,000	NA
Antimony (total)	7440-36-0	14	31	31	31	NA	340	450	450	520	NA
Arsenic (total)	7440-38-2	20(c)	19(c)	19 (c)	19 (c)	19 (c)	20(c)	19(c)	19(c)	19 (c)	19 (c)
Atrazine	1912-24-9	NR	210	210	220	NA	NR	2,400	2,400	3,200	NA
Barium (total)	7440-39-3	700	16,000	16,000	16,000	870,000	47,000	59,000	59,000	260,000	NA
Benzaldehyde	100-52-7	NR	6,100	6,100	170	NA	NR	68,000	68,000	910	NA
Benzene	71-43-2	3	2	2	3.0	2.2	13	5	5	16	11
Benzidine	92-87-5	NR	0.7(d)	0.7(d)	NR	NR	NR	0.7(d)	0.7(d)	NR	NR
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.9	0.6	5	5.1	78,000 (k)	4	2	17	23	370,000 (k)
Benzo(a)pyrene	50-32-8	0.66(d)	0.2(d)	0.5	0.51	3,500 (k)	0.66(d)	0.2	2	2.3	16,000 (k)
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.9	0.6	5	5.1	78,000 (k)	4	2	17	23	370,000 (k)
Benzo(ghi)perylene	191-24-2	NR	380,000	380,000	NR	NR	NR	30,000	30,000	NR	NR
Benzo(k)fluoranthene	207-08-9	0.9	6	45	51	780,000 (4)	4	23	170	230	NA
Benzyl Alcohol	100-51-6	10,000(b)	NR	NR	NR	NR	10,000(b)	NR	NR	NR	NR
Beryllium	7440-41-7	2(c)	16	16	160	2,000	2(c)	140	140	2,600	9,300
1,1'-Biphenyl	92-52-4	NR	3,100	61	87	NA	NR	34,000	240	450	NA
Bis(2-chloroethoxy)methane	111-91-1	NR	NR	NR	190	NA	NR	NR	NR	2,700	NA
Bis(2-chloroethyl)ether	111-44-4	0.66(d)	0.4	0.4	0.63	NA	3	2	2	3.3	NA
Bis(2-ethylhexyl)phthalate	117-81-7	49	35	35	39	NA	210	140	140	180	NA
Bromodichloromethane (Dichlorobromomethane)	75-27-4	11	1	1	11	NA	46	3	3	59	NA
Bromoethene (Vinyl bromide)	593-60-2	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromoform	75-25-2	86	81	81	88	NA	370	280	280	460	NA
Bromomethane (Methyl bromide)	74-83-9	79	25	25	110	18	1,000(a)	59	59	1,800	82
1,3-Butadiene (Vinyl ethylene)	106-99-0	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	1,000(a)	3,100	3,100	47,000	NA	1,000(a)	44,000	44,000	780,000	NA
Butylbenzyl phthalate	85-68-7	1,100	1,200	1,200	290	NA	10,000(b)	14,000	14,000	1,300	NA
Cadmium	7440-43-9	39	78	78	71	2,600	100	78	78	1,100	12,000
Caprolactam	105-60-2	NR	31,000	31,000	32,000	290	NR	340,000	340,000	460,000	1,300
Carbazole	86-74-8	NR	24	24	NR	NR	NR	96	96	NR	NR
Carbon disulfide	75-15-0	NR	7,800	7,800	NA	NA	NR	110,000	110,000	NA	NA
Carbon tetrachloride	56-23-5	2	0.6	2	7.6	1.4	4	2	4	40	6.9
Chlordane (alpha and gamma forms summed)	57-74-9	NR	0.2	0.2	0.27	NA	NR	1	1	1.4	NA
4-Chloroaniline	106-47-8	230	NR	NR	NA	NA	4,200	NR	NR	13	NA
Chlorobenzene	108-90-7	37	510	510	510	NA	680	7,400	7,400	8,400	NA
Chloroethane (Ethyl chloride)	75-00-3	NR	220	220	NA	NA	NR	1,100	1,100	NA	NA
Chloroform	67-66-3	19	0.6	0.6	780	590	28	2	2	13,000	NA
4-Chloro-3-methyl phenol (p-Chloro-m-cresol)	59-50-7	10,000(b)	NR	NR	NR	NR	10,000(b)	NR	NR	NR	NR

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Chloromethane (Methyl chloride)	74-87-3	520	4	4	NA	270	1,000(a)	12	12	NA	1,200
2-Chloronaphthalene	91-58-7	NR	NR	NR	4,800	NA	NR	NR	NR	67,000	NA
2-Chlorophenol (o-Chlorophenol)	95-57-8	280	310	310	390	NA	5,200	2,200	2,200	6,500	NA
3-Chloropropene (Allyl chloride)	107-05-1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chrysene	218-01-9	9	62	450	510	NA	40	230	1,700	2,300	NA
Cobalt (total)	7440-48-4	NR	1,600	1,600	23	520	NR	590	590	390	2,500
Copper (total)	7440-50-8	600(e)	3,100	3,100	3,100	NA	600(e)	45,000	45,000	52,000	NA
Cyanide	57-12-5	1,100	1,600	47	47	NA	21,000	23,000	680	780	NA
Cyclohexane	110-82-7	NR	NR	NR	NA	NA	NR	NR	NR	NA	NA
4,4'-DDD (p,p'-TDE)	72-54-8	3	3	3	2.3	NA	12	13	13	11	NA
4,4'-DDE (p,p'-DDX)	72-55-9	2	2	2	2.0	NA	9	9	9	11	NA
4,4'-DDT	50-29-3	2	2	2	1.9	NA	9	8	8	9.5	NA
Dibenz(a,h)anthracene	53-70-3	0.66(d)	0.2(d)	0.5	0.51	7800 (k)	0.66(d)	0.2	2	2.3	37,000 (k)
Dibromochloromethane (Chlorodibromomethane)	124-48-1	110	3	3	8.3	NA	1,000 (a)	8	8	43	NA
1,2-Dibromo-3-chloropropane	96-12-8	NR	0.08	0.08	0.87	0.026	NR	0.2	0.2	4.5	0.12
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	NR	0.008	0.008	0.35	0.085	NR	0.04	0.04	1.8	0.41
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	5,100	5,300	5,300	6,700	NA	10,000 (b)	59,000	59,000	110,000	NA
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	5,100	5,300	5,300	6,700	NA	10,000 (b)	59,000	59,000	110,000	NA
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	570	5	5	780	NA	10,000 (b)	13	13	13,000	NA
3,3'-Dichlorobenzidine	91-94-1	2	1	1	1.2	NA	6	4	4	5.7	NA
Dichlorodifluoromethane (Freon 12)	75-71-8	NR	490	490	16,000	NA	NR	230,000	230,000	260,000	NA
1,1-Dichloroethane	75-34-3	570	8	8	120	NA	1,000 (a)	24	24	640	NA
1,2-Dichloroethane	107-06-2	6	0.9	0.9	5.8	71	24	3	3	30	320
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	8	11	11	11	52	150	150	150	180	240
1,2-Dichloroethene (cis) (c-1,2-Dichloroethylene)	156-59-2	79	230	230	780	NA	1,000 (a)	560	560	13,000	NA
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	1,000(a)	300	300	1,300	NA	1,000 (a)	720	720	22,000	NA
2,4-Dichlorophenol	120-83-2	170	180	180	190	NA	3,100	2,100	2,100	2,700	NA
1,2-Dichloropropane	78-87-5	10	2	2	19	5.7	43	5	5	98	27
1,3-Dichloropropene (total)	542-75-6	4	2	2	7.0	4.8	5.0	7	7	36	23
Dieldrin	60-57-1	0.042	0.04	0.04	0.034	NA	0.18	0.2	0.2	0.16	NA
Diethylphthalate	84-66-2	10,000(b)	49,000	49,000	51,000	NA	10,000 (b)	550,000	550,000	730,000	NA
Dimethyl phthalate	131-11-3	10,000(b)	NR	NR	NR	NR	10,000 (b)	NR	NR	NR	NR
2,4-Dimethylphenol	105-67-9	1,100	1,200	1,200	1,300	NA	10,000 (b)	14,000	14,000	18,000	NA
Di-n-butyl phthalate	84-74-2	5,700	6,100	6,100	6,300	NA	10,000 (b)	68,000	68,000	91,000	NA
4,6-Dinitro-2-methylphenol) (4,6-Dinitro-o-cresol)	534-52-1	NR	6	6	NR	NR	NR	68	68	NR	NR
2,4-Dinitrophenol	51-28-5	110	120	120	130	NA	2,100	1,400	1,400	1,800	NA
2,4-Dinitrotoluene	121-14-2	NR	0.7	0.7	NR	NR	NR	3	3	NR	NR
2,6-Dinitrotoluene	606-20-2	NR	0.7	0.7	NR	NR	NR	3	3	NR	NR
2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	25321-14-6	1	0.7	0.7	0.80	NA	4	3	3	3.8	NA
Di-n-octyl phthalate	117-84-0	1,100	2,400	2,400	630	NA	10,000 (b)	27,000	27,000	9,100	NA
1,4-Dioxane	123-91-1	NR	NR	NR	7.0	45	NR	NR	NR	36	210
1,2-Diphenylhydrazine	122-66-7	NR	0.7	0.7	NR	NR	NR	2	2	NR	NR
Endosulfan I and Endosulfan II (alpha and beta) (summed)	115-29-7	340	470	470	470	NA	6,200	6,800	6,800	7,800	NA
Endosulfan Sulfate	1031-07-8	NR	470	470	NR	NR	NR	6,800	6,800	NR	NR
Endrin	72-20-8	17	23	23	19	NA	310	340	340	270	NA
Ethylbenzene	100-41-4	1,000(a)	7,800	7,800	7,800	10	1,000 (a)	110,000	110,000	130,000	48
Extractable Petroleum Hydrocarbons (No. 2 Fuel Oil and Diesel)	various	NR	NR	NR	5,300(h)	NA	NR	NR	NR	75000(h)	NA
Extractable Petroleum Hydrocarbons (Other)	various	NR	NR	NR	Sample-specific(i)	NA	NR	NR	NR	Sample-specific(i)	NA
Fluoranthene	206-44-0	2,300	2,300	2,300	2,400	NA	10,000 (b)	24,000	24,000	33,000	NA
Fluorene	86-73-7	2,300	2,300	2,300	2,400	NA	10,000 (b)	24,000	24,000	33,000	NA
alpha-HCH (alpha-BHC)	319-84-6	NR	0.1	0.1	0.086	NA	NR	0.5	0.5	0.41	NA
beta-HCH (beta-BHC)	319-85-7	NR	0.4	0.4	0.30	NA	NR	2	2	1.4	NA

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Heptachlor	76-44-8	0.15	0.1	0.1	0.15	NA	0.65	0.7	0.7	0.81	NA
Heptachlor epoxide	1024-57-3	NR	0.07	0.07	0.076	NA	NR	0.3	0.3	0.40	NA
Hexachlorobenzene	118-74-1	0.66(d)	0.3	0.3	0.43	NA	2	1	1	2.3	NA
Hexachloro-1,3-butadiene	87-68-3	1	6	6	8.9	NA	21	25	25	47	NA
Hexachlorocyclopentadiene	77-47-4	400	45	45	470	2.7	7,300	110	110	7,800	NA
Hexachloroethane	67-72-1	6	35	12	17	NA	100	140	48	91	NA
n-Hexane	110-54-3	NR	NR	NR	NA	NA	NR	NR	NR	NA	NA
2-Hexanone	591-78-6	NR	NR	NR	390	1,000	NR	NR	NR	6,500	NA
Indeno(1,2,3-cd)pyrene	193-39-5	0.9	0.6	5	5.1	78,000 (k)	4	2	17	23	370,000 (k)
Isophorone	78-59-1	1,100	510	510	570	NA	10,000 (b)	2,000	2,000	2,700	NA
Isopropylbenzene	98-82-8	NR	NR	NR	7,800	NA	NR	NR	NR	130,000	NA
Lead (total)	7439-92-1	400(f)	400(f)	400(f)	400(f)	NA	600 (g)	800(j)	800(j)	800(j)	NA
Lindane (gamma-HCH)(gamma-BHC)	58-89-9	0.52	0.4	0.4	0.57	NA	2.2	2	2	2.8	NA
Manganese (total)	7439-96-5	NR	11,000	11,000	1,900	87,000	NR	5,900	5,900	31,000	400,000
Mercury (total) (elemental for indoor air)	7439-97-6	14	23	23	23	520,000 (k)	270	65	65	390	NA
Methoxychlor	72-43-5	280	390	390	320	NA	5,200	5,700	5,700	4,600	NA
Methyl acetate	79-20-9	NR	78,000	78,000	78,000	NA	NR	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	75-09-2	49	34	46	50	1,400	210	97	230	260	NA
2-Methylnaphthalene	91-57-6	NR	230	230	240	NA	NR	2,400	2,400	3,300	NA
4-Methyl-2-pentanone (MIBK)	108-10-1	1,000(a)	NR	NR	NA	NA	1,000 (a)	NR	NR	NA	NA
2-Methylphenol (o-cresol)	95-48-7	2,800	310	310	320	NA	10,000 (b)	3,400	3,400	4,600	NA
4-Methylphenol (p-cresol)	106-44-5	2,800	31	31	630	NA	10,000 (b)	340	340	9,100	NA
Methyl tert-butyl ether (MTBE)	1634-04-4	NR	110	110	780	140	NR	320	320	13,000	650
Naphthalene	91-20-3	230	6	6	2,500	5.7	4,200	17	17	34,000	27
Nickel (total)	7440-02-0	250	1,600	1,600	1,600	20,000	2,400	23,000	23,000	26,000	93,000
2-Nitroaniline	88-74-4	NR	39	39	NR	NR	NR	23,000	23,000	NR	NR
4-Nitroaniline	100-01-6	NR	NR	NR	27	NA	NR	NR	NR	130	NA
Nitrobenzene	98-95-3	28	31	5	160	7.5	520	340	14	2,600	36
N-Nitrosodimethylamine	62-75-9	NR	0.7(d)	0.7(d)	NR	NR	NR	0.7(B)	0.7 (B)	NR	NR
N-Nitrosodi-n-propylamine	621-64-7	0.66(d)	0.2(d)	0.2(d)	0.17(d)	NA	0.66 (d)	0.3	0.3	0.36	NA
N-Nitrosodiphenylamine	86-30-6	140	99	99	110	NA	600	390	390	520	NA
2,2'-oxybis(1-chloropropane)	108-60-1	2,300	23	23	3,100	NA	10,000(b)	67	67	52,000	NA
Pentachlorophenol	87-86-5	6	3	0.9	1.0	NA	24	10	3	4.4	NA
Phenanthrene	85-01-8	NR	NA	NA	NR	NR	NR	300,000	300,000	NR	NR
Phenol	108-95-2	10,000(b)	18,000	18,000	19,000	39,000	10,000 (b)	210,000	210,000	270,000	NA
Polychlorinated biphenyls (PCBs)	1336-36-3	0.49	0.2	0.2	0.25	NA	2	1	1	1.1	NA
Pyrene	129-00-0	1,700	1,700	1,700	1,800	NA	10,000 (b)	18,000	18,000	25,000	NA
Selenium (total)	7782-49-2	63	390	390	390	NA	3,100	5,700	5,700	6,500	NA
Silver (total)	7440-22-4	110	390	390	390	NA	4,100	5,700	5,700	6,500	NA
Styrene	100-42-5	23	90	90	16,000	NA	97	260	260	260,000	NA
Tertiary butyl alcohol (TBA)	75-65-0	NR	1,400	1,400	1,400	NA	NR	11,000	11,000	23,000	NA
1,2,4,5-Tetrachlorobenzene	95-94-3	NR	NR	NR	23	NA	NR	NR	NR	390	NA
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	NR	NR	NR	0.000051(l)	NA	NR	NR	NR	0.00081(l)	NA
1,1,1,2-Tetrachloroethane	630-20-6	170	NR	NR	NR	NR	310	NR	NR	NR	NR
1,1,2,2-Tetrachloroethane	79-34-5	34	1	1	3.5	NA	70	3	3	18	NA
Tetrachloroethene (PCE) (Tetrachloroethylene)	127-18-4	4	2	43	330	47	6	5	1,500	1,700	NA
2,3,4,6-Tetrachlorophenol	58-90-2	NR	NR	NR	1,900	NA	NR	NR	NR	27,000	NA
Thallium	7440-28-0	2(d)	5	NR	NR	NR	2(d)	79	NR	NR	NR
Toluene	108-88-3	1,000(a)	6,300	6,300	6,300	NA	1,000(a)	91,000	91,000	100,000	NA
Toxaphene	8001-35-2	0.1	0.6	0.6	0.49	NA	0.2	3	3	2.3	NA
1,2,4-Trichlorobenzene	120-82-1	68	73	73	780	94	1,200	820	820	13,000	NA
1,1,1-Trichloroethane	71-55-6	210	290	160,000	160,000	NA	1,000(a)	4,200	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	22	2	2	12	NA	420	6	6	64	NA
Trichloroethene (TCE) (Trichloroethylene)	79-01-6	23	7	3	15	3	54	20	10	79	14
Trichlorofluoromethane (Freon 11)	75-69-4	NR	23,000	23,000	23,000	NA	NR	340,000	340,000	390,000	NA
2,4,5-Trichlorophenol	95-95-4	5,600	6,100	6,100	6,300	NA	10,000 (b)	68,000	68,000	91,000	NA
2,4,6-Trichlorophenol	88-06-2	62	19	19	49	NA	270	74	74	230	NA

Contaminant	CAS No.	5/12/1999 Residential Direct Contact Soil Cleanup Criterion (mg/kg)	6/2/2008 Residential Direct Contact Soil Remediation Standard (mg/kg)	9/18/2017 Residential Direct Contact Soil Remediation Standard (mg/kg)	5/17/2021 Residential Ingestion-Dermal Soil Remediation Standard (mg/kg)	5/17/2021 Residential Inhalation Soil Remediation Standard (mg/kg)	5/12/1999 Non-Residential Direct Contact Soil Cleanup Criterion (mg/kg)	6/2/2008 Non-Residential Direct Contact Soil Remediation Standard (mg/kg)	9/18/2017 Non-Residential Direct Contact Soil Remediation Standard (mg/kg)	5/17/2021 Non-Residential Ingestion-Dermal Soil Remediation Standard (mg/kg)	5/17/2021 Non-Residential Inhalation Soil Remediation Standard (mg/kg)
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	NR	NR	NR	NA	NA	NR	NR	NR	NA	NA
1,2,4-Trimethylbenzene	95-63-6	NR	NR	NR	780	NA	NR	NR	NR	13,000	NA
Vanadium (total)	7440-62-2	370	78	78	390	170,000	7,100	1,100	1,100	6,500	800,000
Vinyl chloride	75-01-4	2	0.7	0.7	0.97	1.4	7	2	2	5.0	6.4
Xylenes (total)	1330-20-7	410	12,000	12,000	12,000	NA	1,000(a)	170,000	170,000	190,000	NA
Zinc (total)	7440-66-6	1,500(e)	23,000	23,000	23,000	NA	1,500(e)	110,000	110,000	390,000	NA

NOTE: All numeric values are rounded to two significant figures)

NA = Standard Not Available
NR = Chemical Not Regulated

(a) Health-based criterion exceeds the 1,000 mg/kg maximum for total volatile organic contaminants

(b) Health-based criterion exceeds the 10,000 mg/kg maximum for total organic contaminants

(c) Cleanup criterion/standard based on natural background

(d) Health-based criterion is lower than analytical limits; cleanup criterion/standard based on practical quantitation level/reporting limit

(e) criterion based on ecological (phytotoxicity) effects

(f) Standard based on the Integrated Exposure Uptake Biokinetic (IEUBK) model for lead in children

(g) Criterion derived from a model developed by the Society for Environmental Geochemistry and Health (SEGH)

(h) Special calculation for EPH – see N.J.A.C. 7:26D Appendix 2

(i) Sample-specific calculation using EPH calculator – see N.J.A.C. 7:26D Appendix 2

(j) Standard based on the Adult Lead Model (ALM)

(k) Exceeds soil saturation limit; however, health-based criterion based on particulate portion of the equation

(l) This standard is used for comparison to site soil data that have been converted to sample-specific TCDD-TEQ values through application of the Toxicity Equivalence Factor Methodology (USEPA 2010) and using the WHO 2005 Mammalian Toxic Equivalency Factors (TEFs)