

TABLE B1. METHOD D TWO - SOIL CLEANUP LEVELS TABLE (See notes for additional requirements)

CAS Number ⁴	Hazardous Substance	Carcinogenic (ofnc) ¹³	Arctic Zone ¹			Under 40 inch Zone ²			Over 40 inch Zone ³			Migration to Groundwater ⁷ (mg/kg)
			Direct Contact ⁸ (mg/kg)	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact ⁸ (mg/kg)	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact ⁸ (mg/kg)	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact ⁸ (mg/kg)	Outdoor Inhalation ⁶ (mg/kg)		
ORGANICS												
355-72-782	2-Amino-4,6-dinitrotoluene	nc	26		30		16					0.029
194-06-510	4-Amino-2,6-dinitrotoluene	nc	26		19		16					0.029
82-32-9	Asenaphthene ¹⁴	nc	2800		2800		2300					180
208-96-8	Asenaphthylene ¹⁴	nc	2800		2800		2300					180
67-64-1	Acetone	nc	120000	102000	91900	68600	74700	61100				88
309-00-2	Aldrin	c	0.40		0.20		0.24					0.070
120-12-7	Anthracene ¹⁴	nc	27800		20600		16800					2000
7143-2	Benzene ¹⁴	c	200	17	190	11	120	8.5				0.025
5655-3	Benzo(a)anthracene ¹⁴	c	6.6		4.9		4.6					3.6
206-99-2	Benzo(b)fluoranthene ¹⁴	c	6.6		4.9		4.6					12
207-08-9	Benzo(k)fluoranthene ¹⁴	c	66		49		40					120
65-85-0	Benzoic acid	nc	428000		917000		269000					410
191-24-2	Benzo(g,h,i)perylene ¹⁴	nc	1900		1400		1100					26700
50-32-8	Benzo(a)pyrene ¹⁴	c	0.66		0.49		0.40					2.1
111-44-4	Bis(2-chloroethyl)ether	c	10	4.9	7.5	3.3	6.2	2.5				0.0022
117-81-7	Bis(2-ethylhexyl)phthalate	c	900		220		180					13
75-27-4	Bromo chloromethane	c	180	18	190	10	110	7.5				0.044
75-28-2	Bromoform	c	1400	420 ¹²	1100	420	860	220				0.24
71-36-3	Butanol	nc	8800		6500		5300					9.8
104-51-8	n-Butylbenzene	nc	1400	42 ¹²	1000	42 ¹²	890	42 ¹²				15
126-98-8	sec-Butylbenzene	nc	1400	41 ¹²	1000	41 ¹²	890	41 ¹²				12
98-06-6	tert-Butylbenzene	nc	1400	70 ¹²	1000	70 ¹²	890	70 ¹²				12
85-68-7	Butyl benzyl phthalate	c	2600		2900		2400					920

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			Direct Contact (mg/kg) ⁵	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact (mg/kg) ⁵	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact (mg/kg) ⁵	Outdoor Inhalation ⁶ (mg/kg)	
86-74-8	Carbazole	c	390		290		290		6.5
78-18-0	Carbon disulfide	nc	6500	250 ¹²	4800	250 ¹²	2800	250 ¹²	12
56-23-5	Carbon tetrachloride	c	86	4.5	64	3.1	52	2.3	0.023
87-74-9	Chlordane	c	26		19		15		2.3
106-47-8	p-Chloroaniline	c	130		90		80		0.037
106-90-7	Chlorobenzene	nc	2700	200 ¹²	2000	200 ¹²	1700	200 ¹²	0.63
124-48-1	Chlorodibromomethane	c	130	21	99	14	81	11	0.022
75-00-3	Dibromochloromethane ⁶	c	3900	34	2900	23	2300	17	5.80
67-66-3	Chloroform	c	1400	4.7	1000	3.2	890	2.4	0.46
91-58-7	2-Chloronaphthalene	nc	6300		4700		3800		1.20
98-57-8	2-Chlorophenol	nc	680	3800	510	2500	410	1900	1.5
218-01-9	Chrysene ¹⁴	c	660		490		400		360
72-54-8	Dichlorodiphenyldichloroethane (DDD)	c	41		30		25		7.2
72-55-9	Dichlorodiphenyldichloroethylene (DDE)	c	29		21		18		5.1
50-29-3	Dichlorodiphenyltrichloroethane (DDT)	c	29		21		18		7.3
53-70-3	Di-benzo(a,h)anthracene ¹⁴	c	0.68		0.46		0.40		4.0
122-64-9	Di-benzofuran	nc	270		200		170		11
84-74-3	Di-n-butyl phthalate	nc	10700		7900		6600		80
117-84-0	Di-n-octyl phthalate	nc	4200		3100		2600		3800
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	nc	1200		890		710		0.21
95-50-1	1,2-Dichlorobenzene	nc	12300	45 ¹²	9100	45 ¹²	7600	45 ¹²	5.1

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CAS Number ^a	Hazardous Substance	Carcinogenic (efnc) ¹⁰	Arctic Zone ¹		Under 40 inch Zone ²		Over 40 inch Zone ³		Migration to Groundwater ⁷ (mg/kg)
			Direct Contact (mg/kg) ⁸	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact (mg/kg) ⁸	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact (mg/kg) ⁸	Outdoor Inhalation ⁶ (mg/kg)	
541-73-1	1,3-Dichlorobenzene	nc	12300	69 ¹²	9100	69 ¹³	7500	69 ¹²	28
106-46-7	1,4-Dichlorobenzene	c	470	44	350	30	280	22	0.64
9194-1	2,2-Dichlorobenzidine	c	15		11		9.2		0.19
78-71-8	Dichlorodifluoromethane	nc	27400	570	20300	280	16900	280	1.40
75-34-3	1,1-Dichloroethane	c	27400	900 ¹³	20300	900 ¹³	16900	900 ¹³	25
107-06-2	1,2-Dichloroethane	c	120	7.1	91	4.8	75	3.6	0.016
75-28-4	1,1-Dichloroethylene	c	19	1.3	14	0.85	11	0.62	0.030
186-89-2	cis-1,2-Dichloroethylene	nc	1400	190	1000	120	830	95	0.24
156-60-5	trans-1,2-Dichloroethylene	nc	2700	240	2000	160	1700	120	0.37
120-82-2	2,4-Dichlorophenol	nc	910		230		190		1.3
78-87-5	1,2-Dichloropropane	c	163	7.5	123	5.3	100	4.0	0.018
842-76-6	1,2-Dichloropropene	c	110	40	82	27	68	20	0.028
603-71-1	Dieldrin	c	0.48		0.32		0.26		0.0076
84-66-2	Diethyl phthalate	nc	84000		61900		50900		130
106-67-9	2,4-Dimethylphenol	nc	1800		1300		1100		8.8
131-11-3	Dimethyl phthalate	nc	>10 ⁶		773000		633000		1100
528-29-0	1,2-Dinitrobenzene	nc	11		7.8		6.4		0.020
99-65-0	1,2-Dinitrobenzene	nc	10		7.1		5.8		0.020
100-25-4	1,4-Dinitrobenzene	nc	8.8		6.5		5.2		0.020
51-28-5	2,4-Dinitrophenol	nc	210		160		130		0.54
121-14-2	2,4-Dinitrotoluene	nc	12		8.8		7.2		0.0058
606-20-2	2,6-Dinitrotoluene	c	12		8.9		7.2		0.0094
122-91-1	1,4-Dioxane	c	700		540		440		0.21
1746-01-6	2,3,7,8-TCDD (Dioxin) ¹⁴	c	0.000063		0.000047		0.000038		0.000058

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122-39-4	Diphenylamine	nc	2200		1600	1300						25
115-29-7	Endosulfan	nc	820		610	900						64
72-20-8	Endrin	nc	2.7		2.0	1.7						0.29
100-41-4	Ethylbenzene ¹⁴	c	18700	110 ¹²	10100	8900	110	110	8.1	8.1		6.9
106-99-4	Ethylene dibromide (1,2-Dibromoethane)	c	5.6	0.89	4.2	3.4	0.60	0.60	0.44	0.44		0.00016
107-21-1	Ethylene glycol	nc	178000		130000	106000						190
206-44-0	Fluoranthene ¹⁴	nc	2500		1900	1800						1400
86-73-7	Fluorene ¹⁴	nc	3200		2300	1900						230
76-44-8	Heptachlor	c	1.7		1.3	1.0						0.38
1024-87-3	Heptachlor epoxide	c	0.83		0.62	0.52						0.014
118-74-1	Hexachlorobenzene	c	4.2	2.2	3.2	2.6	1.5	1.5	1.1	1.1		0.047
87-68-3	Hexachloro-1,3-butadiene	c	18	3.8 ¹³	13	11	3.8 ¹³	3.8 ¹³	3.8 ¹³	3.8 ¹³		0.12
319-84-6	alpha-Hexachlorocyclohexane	c	1.6		1.2	1.0						0.0064
319-85-7	beta-Hexachlorocyclohexane	c	5.5		4.0	3.3						0.022
58-89-9	gamma-Hexachlorocyclohexane (Lindane)	c	7.6		5.6	4.6						0.0085
77-47-4	Hexachlorocyclopentadiene	nc	590	3.0	390	320	2.0	2.0	1.5	1.5		1.3
67-72-1	Hexachloroethane	c	88	280	68	53	170	170	120	120		0.21
121-82-4	Hexahydro-1,2,5-trinitro-1,2,3-triazine (RDX)	c	97		72	59						0.040
302-01-2	Hydrazine	c	2.2	1.5	1.7	1.4	0.96	0.96	0.72	0.72		0.00080
189-39-5	Indene(1,2,3-c,d)pyrene ¹⁴	c	6.6		4.9	4.0						41
78-59-1	Isothorone	c	7200		5300	4400						3.1

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98-82-8	Isopropylbenzene (Cumene)	nc	19700	62 ¹³	10100	62 ¹³	8900	62 ¹³	51		
72-43-5	Methoxychlor	nc	440		330		270		23		
74-83-9	Methyl bromide (Bromomethane)	nc	190	21	140	14	120	11	0.16		
74-87-3	Methyl chloride (Chloromethane)	c	860	27	640	26	520	15	0.21		
78-93-3	Methyl ethyl ketone (MEK)	nc	82100	22300 ¹²	60800	22300 ¹²	46800	22300 ¹²	59		
108-10-1	Methyl isobutyl ketone (MIBK)	nc	110000	2100 ¹²	8100	2100 ¹²	6600	2100 ¹²	8.1		
74-98-3	Methylone bromide	nc	14000	560	1000	370	890	280	1.1		
75-09-2	Methylone chloride	c	15000	240	1100	160	910	120	0.016		
22987-92-6	Mercury (Methyl)	nc	10		7.7		6.3		0.012		
90-12-0	1-Methylpiperazine	nc	380	1100	280	760	290	560	6.2		
91-57-6	2-Methylpiperazine	nc	380	1100	280	760	290	560	6.1		
95-48-7	2-Methylphenol (o-cresol)	c	4400		3200		2700		15		
108-39-4	3-Methylphenol (m-cresol)	c	4400		3200		2700		15		
106-44-5	4-Methylphenol (p-cresol)	c	480		350		290		1.5		
1694-04-4	Methyl tert-butyl ether (MTBE)	c	6200	440	4600	290	3800	220	1.3		
91-20-3	Naphthalene ¹⁴	nc	1900	42	1400	28	1100	21	20		
98-98-3	Nitrobenzene	nc	68	180	51	120	41	90	0.094		
55-63-0	Nitrolycerin	c	400		300		240		0.22		
595-88-7	Nitroguanidine	nc	8800		6800		5300		11		
62-78-9	n-Nitrosodimethylamine	c	0.22	0.28	0.16	0.19	0.12	0.14	0.000083		
86-30-6	n-Nitrosodiphenylamine	c	1000		750		610		15		
621-64-7	n-Nitroso-di-n-propylamine	c	0.71		0.52		0.43		0.0011		

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88-72-2	2-Nitrotoluene	c	35		26		21		0.025
99-08-1	3-Nitrotoluene	c	2000		1800		1200		4.9
99-99-0	4-Nitrotoluene	c	470		350		250		0.34
109-66-1	n-Propylbenzene	nc	1400	42 ¹²	1000	42 ¹²	800	42 ¹²	15
2691-41-0	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine(HMX)	nc	6200		4600		2700		49
87-86-5	Pentachlorophenol	c	52		38		32		0.047
85-01-8	Phenanthrene ¹⁴	nc	27800		20600		16800		3000
108-98-2	Phenol	nc	31200		23200		19000		68
132-69-69	Polychlorinated biphenyls (PCBs) ⁹	c	1		1		1		
129-00-0	Pyrene ¹⁴	nc	1900		1400		1100		1000
100-42-5	Styrene	nc	27400	200 ¹²	20900	200 ¹²	16800	200 ¹²	0.96
79-34-5	1,1,2,2-Tetrachloroethane	c	56	8.1	42	5.5	34	4.1	0.017
127-18-4	Tetrachloroethylene (PCE)	c	21	15	15	10	13	7.3	0.024
108-88-3	Toluene ¹⁴	nc	11000	220 ¹²	8100	220 ¹²	6900	220 ¹²	6.5
8001-35-2	Thaxophane	c	10		7.5		6.2		9.9
688-72-3	Tributyltin	nc	28		19		16		8500
120-82-1	1,2,4-Trichlorobenzene	nc	1400	41 ¹²	1000	41 ¹²	830	41 ¹²	0.86
71-55-6	1,1,1-Trichloroethane	nc	27400	360 ¹²	20300	360 ¹²	16900	360 ¹²	0.82
79-00-5	1,1,2-Tri chloroethane	c	200	17	150	11	120	8.6	0.018
79-01-6	Trichloroethylene (TCE)	c	28	0.85	21	0.57	17	0.42	0.020
95-95-4	2,4,5-Trichlorophenol	nc	8800		6900		5300		67
88-06-2	2,4,6-Trichlorophenol	c	620	6100	460	4100	380	3000	1.4

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			Direct Contact (mg/kg) ⁸	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact (mg/kg) ⁸	Outdoor Inhalation ⁶ (mg/kg)	Direct Contact (mg/kg) ⁸	Outdoor Inhalation ⁶ (mg/kg)	
7440-47-3	Chromium (Total)	nc	410		300		250		25
16065-83-1	Chromium +3	nc	206000		152000		124000		>10 ⁸
18540-39-9	Chromium +6	nc	410		300		250		25
7440-50-8	Copper	nc	5500		4100		3300		460
57-12-5	Cyanide ¹⁰	nc	2700		2000		1700		27
7439-92-1	Lead ¹¹	c	400		400		400		
7439-97-6	Mercury	nc	41	26	30	18	25	13	1.4
7440-02-0	Nickel	nc	2700		2000		1700		8.6
7790-98-9	Perchlorate	nc	96		71		58		0.067
7782-49-2	Selenium	nc	680		510		410		3.4
7440-22-4	Silver	nc	680		510		410		11.2
7440-28-0	Thallium	nc	11		8.1		6.6		1.9
7440-62-2	Vanadium	nc	980		710		580		3400
7723-14-0	White phosphorus	nc	2.7		2.0		1.7		0.036
7440-66-6	Zinc	nc	41100		30400		24900		4100