

Appendix A

In this appendix, mg/kg means milligrams per kilogram, NA means not applicable, $\mu\text{g}/\text{m}^3$ means micrograms per cubic meter, and $\mu\text{g}/\text{L}$ means micrograms per liter.

Table I: Generic numerical direct-contact soil standards (residential land use category)

<u>Table I</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Inorganics/Metals					
Aluminum Phosphide	20859-73-8	63	NA	NA	63
Antimony (metallic)	7440-36-0	63	NA	NA	63
Antimony Trioxide	1309-64-4	400,000	NA	NA	400,000
Arsenic, Inorganic	7440-38-2	70	14	NA	14
Barium	7440-39-3	30,000	NA	NA	30,000
Beryllium and Compounds	7440-41-7	310	22,000	NA	310
Cadmium	7440-43-9	14	30,000	NA	14
Chlorine	7782-50-5	0.48	NA	2,800	0.48
Chromium (III)	16065-83-1	79,000	NA	NA	79,000
Chromium (VI)	18540-29-9	470	6	NA	6
Cobalt Compounds	7440-48-4	47	5,900	NA	47
Copper	7440-50-8	6,300	NA	NA	6,300
Disodium Phosphate	7558-79-4	160,000	NA	NA	160,000
Hydrogen Chloride	7647-01-0	1,000,000	NA	NA	1,000,000
Hydrogen Fluoride	7664-39-3	6,300	NA	NA	6,300
Hydrogen Sulfide	7783-06-4	72,000	NA	NA	72,000
Fluorine (Soluble Fluoride)	7782-41-4	9,400	NA	NA	9,400
Manganese Compounds	7439-96-5	3,600	NA	NA	3,600

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Chemical of Concern					
Mercury and Compounds	7439-97-6	27	NA	3.1	3.1
Nickel Soluble Salts	7440-02-0	2,800	210,000	NA	2,800
Phosphine	7803-51-2	47	NA	NA	47
Selenium	7782-49-2	780	NA	NA	780
Selenious Acid	7783-00-8	780	NA	NA	780
Silver	7440-22-4	780	NA	NA	780
Sodium Azide	26628-22-8	630	NA	NA	630
Sodium Fluoride	7681-49-4	7,800	NA	NA	7,800
Sodium Fluoroacetate	62-74-8	2.5	NA	NA	2.5
Sodium tripolyphosphate	7758-29-4	160,000	NA	NA	160,000
Sulfuric Acid	7664-93-9	250,000	NA	NA	250,000
Titanium Tetrachloride	7550-45-0	200,000	NA	NA	200,000
Trisodium Phosphate	7601-54-9	160,000	NA	NA	160,000
Vanadium Compounds	7440-62-2	780	NA	NA	780
Zinc and Compounds	7440-66-6	47,000	NA	NA	47,000
Zinc Phosphide	1314-84-7	47	NA	NA	47
Cyanides					
Calcium Cyanide	592-01-8	160	NA	NA	160
Copper Cyanide	544-92-3	780	NA	NA	780
Cyanide (CN-)	57-12-5	51	NA	950,000	51
Cyanogen	460-19-5	160	NA	NA	160
Cyanogen Bromide	506-68-3	14,000	NA	NA	14,000
Cyanogen Chloride	506-77-4	7,800	NA	NA	7,800
Hydrogen Cyanide	74-90-8	51	NA	1,000,000	51

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Chemical of Concern					
Potassium Cyanide	151-50-8	310	NA	NA	310
Potassium Silver Cyanide	506-61-6	780	NA	NA	780
Silver Cyanide	506-64-9	16,000	NA	NA	16,000
Sodium Cyanide	143-33-9	160	NA	NA	160
Zinc Cyanide	557-21-1	7,800	NA	NA	7,800
Lead Compounds					
Lead Acetate	301-04-2	NA	52	NA	52
Lead and Compounds*	7439-92-1	NA	NA	NA	200
Lead Phosphate	7446-27-7	NA	1,600	NA	1,600
Lead Subacetate	1335-32-6	NA	290	NA	290
Tetraethyl Lead	78-00-2	0.016	NA	2.4	0.016
Semi-Volatile Organic Compounds (SVOCs)					
Acenaphthene	83-32-9	7,200	NA	NA	7,200
Acetophenone	98-86-2	16,000	NA	2,500	2,500
Acetylaminofluorene, 2-	53-96-3	NA	2.9	NA	2.9
Acrylamide	79-06-1	250	4.9	NA	4.9
Alachlor	15972-60-8	1,300	190	NA	190
Aldicarb	116-06-3	130	NA	NA	130
Aldicarb Sulfone	1646-88-4	130	NA	NA	130
Aldrin	309-00-2	4.7	0.79	NA	0.79
Aminobiphenyl, 4-	92-67-1	NA	0.52	NA	0.52
Ammonium Sulfamate	7773-06-0	31,000	NA	NA	31,000
Aniline	62-53-3	880	1,900	NA	880
Anthracene	120-12-7	36,000	NA	NA	36,000

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Chemical of Concern					
Aroclor 1016	12674-11-2	8.2	130	NA	8.2
Aroclor 1221	11104-28-2	NA	3.9	NA	3.9
Aroclor 1232	11141-16-5	NA	3.7	NA	3.7
Aroclor 1242	53469-21-9	NA	4.6	NA	4.6
Aroclor 1248	12672-29-6	NA	4.6	NA	4.6
Aroclor 1254	11097-69-1	2.3	4.8	NA	2.3
Aroclor 1260	11096-82-5	NA	4.8	NA	4.8
Atrazine	1912-24-9	380	47	NA	47
Auramine	492-80-8	NA	12	NA	12
Benomyl	17804-35-2	6,300	NA	NA	6,300
Benzenethiol	108-98-5	160	NA	1,300	160
Benzidine	92-87-5	380	0.011	NA	0.011
Benz[a]anthracene	56-55-3	NA	23	NA	23
Benzo[a]pyrene	50-32-8	36	2.3	NA	2.3
Benzo[b]fluoranthene	205-99-2	NA	23	NA	23
Benzo[k]fluoranthene	207-08-9	NA	230	NA	230
Benzoic Acid	65-85-0	460,000	NA	NA	460,000
Biphenyl, 1,1'-	92-52-4	78,000	1,700	NA	1,700
Bis(2-chloroethoxy)methane	111-91-1	380	NA	NA	380
Bis(2-chloroethyl)ether	111-44-4	NA	5.3	5,000	5.3
Bis(chloromethyl)ether	542-88-1	NA	0.0021	4,200	0.0021
Bis(2-ethylhexyl)phthalate	117-81-7	160	780	NA	160
Butyl Benzyl Phthlate	85-68-7	25,000	5,700	NA	5,700
Cacodylic Acid	75-60-5	2,500	NA	NA	2,500

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Chemical of Concern					
Captan	133-06-2	16,000	4,700	NA	4,700
Carbaryl	63-25-2	13,000	NA	NA	13,000
Carbofuran	1563-66-2	630	NA	NA	630
Carbosulfan	55285-14-8	1,300	NA	NA	1,300
Chloramben	133-90-4	1,900	NA	NA	1,900
Chlordane	12789-03-6	69	34	NA	34
Chlordecone (Kepone)	143-50-0	38	1.1	NA	1.1
Chloro-2-methylaniline HCl, 4-	3165-93-3	NA	24	NA	24
Chloroacetic Acid	79-11-8	440	NA	NA	440
Chloroacetophenone, 2-	532-27-4	7,400	NA	NA	7,400
Chloroaniline, p-	106-47-8	63	54	NA	54
Chlorobenzilate	510-15-6	2,500	99	NA	99
Chloronaphthalene, Beta-	91-58-7	9,600	NA	NA	9,600
Chlorophenol, 2-	95-57-8	780	NA	27,000	780
Chlorpyrifos	2921-88-2	130	NA	NA	130
Chrysene	218-01-9	NA	2,300	NA	2,300
Cresol, m-	108-39-4	6,300	NA	NA	6,300
Cresol, o-	95-48-7	6,300	NA	NA	6,300
Cresol, p-	106-44-5	2,500	NA	NA	2,500
Cresol, p-chloro-m-	59-50-7	13,000	NA	NA	13,000
Cresols	1319-77-3	13,000	NA	NA	13,000
DDD	72-54-8	63	45	NA	45
DDE, p,p'-	72-55-9	78	40	NA	40
DDT	50-29-3	73	38	NA	38

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Chemical of Concern					
Diallate	2303-16-4	NA	180	NA	180
Diazinon	333-41-5	88	NA	NA	88
Dibenz[a,h]anthracene	53-70-3	NA	2.3	NA	2.3
Dibutyl Phthalate	84-74-2	13,000	NA	NA	13,000
Dicamba	1918-00-9	3,800	NA	NA	3,800
Dichlorobenzene, 1,2-	95-50-1	4,300	NA	380	380
Dichlorobenzene, 1,4-	106-46-7	7,300	65	NA	65
Dichlorobenzidine, 3,3'-	91-94-1	NA	23	NA	23
Dichlorophenol, 2,4-	120-83-2	380	NA	NA	380
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	1,400	NA	NA	1,400
Dichloropropionic acid, 2,2-	75-99-0	3,800	NA	NA	3,800
Dichlorvos	62-73-7	63	37	NA	37
Dieldrin	60-57-1	6.3	0.68	NA	0.68
Diethanolamine	111-42-2	250	NA	NA	250
Diethyl Phthalate	84-66-2	100,000	NA	NA	100,000
Diethylstilbestrol	56-53-1	NA	0.031	NA	0.031
Dimethoate	60-51-5	280	NA	NA	280
Dimethoxybenzidine, 3,3'-	119-90-4	NA	6.8	NA	6.8
Dimethylamino azobenzene [p-]	60-11-7	NA	2.4	NA	2.4
Dimethylbenz(a)anthracene, 7,12-	57-97-6	NA	0.0092	NA	0.0092
Dimethylbenzidine, 3,3'-	119-93-7	NA	0.99	NA	0.99
Dimethylphenol, 2,4-	105-67-9	2,500	NA	NA	2,500
Dinitrobenzene, 1,2-	528-29-0	13	NA	NA	13
Dinitrobenzene, 1,3-	99-65-0	13	NA	NA	13

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Chemical of Concern					
Dinitrobenzene, 1,4-	100-25-4	13	NA	NA	13
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	250	NA	NA	250
Dinitrophenol, 2,4-	51-28-5	250	NA	NA	250
Dinitrotoluene, 2,4-	121-14-2	250	35	NA	35
Dinitrotoluene, 2,6-	606-20-2	NA	7.3	NA	7.3
Dinitrotoluene Mixture, 2,4/2,6	25321-14-6	NA	16	NA	16
Dinoseb	88-85-7	130	NA	NA	130
Diphenylhydrazine, 1,2-	122-66-7	NA	14	NA	14
Diquat	2764-72-9	280	NA	NA	280
Disulfoton	298-04-4	5.1	NA	NA	5.1
Diuron	330-54-1	250	NA	NA	250
Endothall	145-73-3	2,500	NA	NA	2,500
Endosulfan	115-29-7	940	NA	NA	940
Endrin	72-20-8	38	NA	NA	38
Epichlorohydrin	106-89-8	47	620	11,000	47
Ethion	563-12-2	63	NA	NA	63
Ethylene Glycol	107-21-1	100,000	NA	NA	100,000
Ethylene Thiourea	96-45-7	10	240	NA	10
Fluoranthene	206-44-0	4,800	NA	NA	4,800
Fluorene	86-73-7	1,200	NA	NA	1,200
Furan	110-00-9	160	NA	6,200	160
Furfural	98-01-1	440	NA	10,000	440
Glyphosate	1071-83-6	13,000	NA	NA	13,000
Guthion	86-50-0	380	NA	NA	380

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Chemical of Concern					
Heptachlor	76-44-8	16	2.8	NA	2.8
Heptachlor Epoxide	1024-57-3	2	1.4	NA	1.4
Hexachlorobenzene	118-74-1	1.6	4.7	NA	1.6
Hexachlorobutadiene	87-68-3	160	29	17	17
Hexachlorocyclohexane, Alpha-	319-84-6	110	1.7	NA	1.7
Hexachlorocyclohexane, Beta-	319-85-7	NA	6	NA	6
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	43	11	NA	11
Hexachlorocyclohexane, Technical	608-73-1	NA	6	NA	6
Hexachlorocyclopentadiene	77-47-4	4.4	NA	16	4.4
Hexachloroethane	67-72-1	93	45	NA	45
Hexachlorophene	70-30-4	38	NA	NA	38
Hexamethylene Diisocyanate, 1,6-	822-06-0	7.9	NA	3,400	7.9
Hexamethylphosphoramide	680-31-9	51	NA	NA	51
Hexanedioic Acid	124-04-9	250,000	NA	NA	250,000
Hydroquinone	123-31-9	5,100	180	NA	180
Indeno[1,2,3-cd]pyrene	193-39-5	NA	23	NA	23
Isophorone	78-59-1	25,000	11,000	NA	11,000
Malathion	121-75-5	2,500	NA	NA	2,500
Maleic Anhydride	108-31-6	13,000	NA	NA	13,000
Maleic Hydrazide	123-33-1	63,000	NA	NA	63,000
Malononitrile	109-77-3	13	NA	NA	13
Methomyl	16752-77-5	3,200	NA	NA	3,200
Methoxychlor	72-43-5	630	NA	NA	630

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Chemical of Concern					
Methyl Parathion	298-00-0	32	NA	NA	32
Methylaniline Hydrochloride, 2-	636-21-5	NA	83	NA	83
Methylcholanthrene, 3-	56-49-5	NA	0.11	NA	0.11
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	250	24	NA	24
Methylenebisbenzenamine, 4,4'-	101-77-9	1,000,000	6.8	NA	6.8
Methylenediphenyl Diisocyanate	101-68-8	4,900	NA	NA	4,900
Methylnaphthalene, 1-	90-12-0	0.46	NA	390	0.46
Methylnaphthalene, 2-	91-57-6	480	NA	NA	480
Methyl-N-nitro-N-nitrosoguanidine, N- Naled	70-25-7	NA	1.3	NA	1.3
	300-76-5	310	NA	NA	310
Naphthylamine, 2-	91-59-8	NA	6	NA	6
Nitroaniline, 4-	100-01-6	510	540	NA	510
Nitrobenzene	98-95-3	260	130	3,000	130
Nitroglycerin	55-63-0	13	640	NA	13
Nitropropane, 2-	79-46-9	690	NA	4,900	690
Nitrosodiethanolamine, N-	1116-54-7	NA	3.9	NA	3.9
Nitrosodiethylamine, N-	55-18-5	NA	0.016	NA	0.016
Nitrosodimethylamine, N-	62-75-9	1.3	0.043	240,000	0.043
Nitroso-di-N-butylamine, N-	924-16-3	NA	2.1	NA	2.1
Nitroso-di-N-propylamine, N-	621-64-7	NA	1.6	NA	1.6
Nitrosodiphenylamine, N-	86-30-6	NA	2,200	NA	2,200
Nitrosomorpholine [N-]	59-89-2	NA	1.6	NA	1.6
Nitroso-N-ethylurea, N-	759-73-9	NA	0.09	NA	0.09
Nitroso-N-methylurea, N-	684-93-5	NA	0.02	NA	0.02

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Nitrosopiperidine [N-]	100-75-4	NA	1.2	NA	1.2
Nitrosopyrrolidine, N-	930-55-2	NA	5.2	NA	5.2
Nitrotoluene, o-	88-72-2	140	63	1,500	63
Nitrotoluene, p-	99-99-0	510	680	NA	510
Octamethylpyrophosphoramidate	152-16-9	250	NA	NA	250
Octyl Phthalate, di-N-	117-84-0	1,300	NA	NA	1,300
Oxamyl	23135-22-0	3,200	NA	NA	3,200
Parathion	56-38-2	760	NA	NA	760
Pentachlorobenzene	608-93-5	130	NA	NA	130
Pentachloroethane	76-01-7	NA	150	460	150
Pentachloronitrobenzene	82-68-8	380	42	NA	42
Pentachlorophenol	87-86-5	490	20	NA	20
Phenacetin	62-44-2	NA	4,900	NA	4,900
Phenol	108-95-2	38,000	NA	NA	38,000
Phenylmercuric Acetate	62-38-4	10	NA	NA	10
Phorate	298-02-2	25	NA	NA	25
Phosphoric Acid	7664-38-2	160,000	NA	NA	160,000
Phthalic Anhydride	85-44-9	250,000	NA	NA	250,000
Picloram	1918-02-1	8,800	NA	NA	8,800
Polychlorinated Biphenyls, Total	1336-36-3	NA	4.6	NA	4.6
Pronamide	23950-58-5	9,500	NA	NA	9,500
Propargite	2312-35-8	5,100	57	NA	57
Propham	122-42-9	2,500	NA	NA	2,500
Propoxur (Baygon)	114-26-1	510	NA	NA	510

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Chemical of Concern					
Pyrene	129-00-0	3,600	NA	NA	3,600
Pyridine	110-86-1	160	NA	530,000	160
Quinoline	91-22-5	NA	3.6	NA	3.6
Safrole	94-59-7	NA	11	NA	11
Simazine	122-34-9	630	90	NA	90
Strychnine	57-24-9	38	NA	NA	38
TCDD, 2,3,7,8-	1746-01-6	0.0001	0.000096	NA	0.000096
Tetrachlorophenol, 2,3,4,6-	58-90-2	3,800	NA	NA	3,800
Tetraethyl Dithiopyrophosphate	3689-24-5	63	NA	NA	63
Tetrahydrofuran	109-99-9	43,000	NA	170,000	43,000
Thiofanox	39196-18-4	38	NA	NA	38
Thiophanate, Methyl	23564-05-8	20,000	900	NA	900
Thiram	137-26-8	1,900	NA	NA	1,900
Toluene-2,4-diisocyanate	584-84-9	0.67	130	NA	0.67
Toluene-2,6-diisocyanate	91-08-7	13	330	1,700	13
Toluidine, p-	106-49-0	NA	360	NA	360
Toxaphene	8001-35-2	11	9.9	NA	9.9
Triallate	2303-17-5	3,900	190	NA	190
Trichlorobenzene, 1,2,4-	120-82-1	140	480	400	140
Trichlorophenol, 2,4,5-	95-95-4	13,000	NA	NA	13,000
Trichlorophenol, 2,4,6-	88-06-2	130	990	NA	130
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	1,300	NA	NA	1,300
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	1,000	NA	NA	1,000
Trifluralin	1582-09-8	1,200	1,800	NA	1,200

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Chemical of Concern					
Trimethylbenzene, 1,2,3-	526-73-8	760	NA	290	290
Trimethylbenzene, 1,2,4-	95-63-6	690	NA	220	220
Trimethylbenzene, 1,3,5-	108-67-8	620	NA	180	180
Trinitrobenzene, 1,3,5-	99-35-4	1,100	NA	NA	1,100
Urethane	51-79-6	NA	2.4	NA	2.4
Warfarin	81-81-2	38	NA	NA	38
Volatile Organic Compounds (VOCs)					
Acetaldehyde	75-07-0	210	280	110,000	210
Acetone	67-64-1	140,000	NA	110,000	110,000
Acetonitrile	75-05-8	2,000	NA	130,000	2,000
Acrolein	107-02-8	0.36	NA	23,000	0.36
Acrylic Acid	79-10-7	50	NA	110,000	50
Acrylonitrile	107-13-1	32	6.1	11,000	6.1
Allyl Alcohol	107-18-6	140	NA	110,000	140
Allyl Chloride	107-05-1	4.1	18	1,400	4.1
Benzene	71-43-2	190	28	1,800	28
Benzotrichloride	98-07-7	NA	1.1	320	1.1
Benzyl Chloride	100-44-7	55	25	1,500	25
Bis(2-chloro-1-methylethyl) Ether	108-60-1	6,300	NA	1,000	1,000
Bromodichloromethane	75-27-4	310	7.3	930	7.3
Bromoform	75-25-2	3,100	460	910	460
Bromomethane	74-83-9	17	NA	3,600	17
Butadiene, 1,3-	106-99-0	4.5	1.9	670	1.9
Butanol, N-	71-36-3	16,000	NA	7,600	7,600

<u>Table I</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Butylbenzene, n-	104-51-8	7,800	NA	110	110
Carbon Disulfide	75-15-0	1,900	NA	740	740
Carbon Tetrachloride	56-23-5	240	16	460	16
Carbonyl Sulfide	463-58-1	170	NA	5,900	170
Chlorobenzene	108-90-7	660	NA	760	660
Chloro-1,3-butadiene, 2-	126-99-8	55	0.25	790	0.25
Chloroform	67-66-3	470	7.9	2,500	7.9
Chloromethane	74-87-3	280	NA	1,300	280
Chloromethyl Methyl Ether	107-30-2	NA	0.5	9,300	0.5
Crotonaldehyde, trans-	123-73-9	160	7.3	17,000	7.3
Cumene	98-82-8	2,200	NA	270	270
Cyclohexane	110-82-7	16,000	NA	120	120
Cyclohexanone	108-94-1	70,000	NA	5,100	5,100
Dibromo-3-chloropropane, 1,2-	96-12-8	11	0.13	980	0.13
Dibromochloromethane	124-48-1	3,100	170	800	170
Dibromoethane, 1,2-	106-93-4	69	0.89	1,300	0.89
Dichloro-2-butene, 1,4-	764-41-0	NA	0.054	550	0.054
Dichlorodifluoromethane	75-71-8	31,000	NA	850	850
Dichloroethane, 1,1-	75-34-3	31,000	89	1,700	89
Dichloroethane, 1,2-	107-06-2	84	11	3,000	11
Dichloroethylene, 1,1-	75-35-4	19	NA	1,200	19
Dichloroethylene, 1,2-cis-	156-59-2	310	NA	2,400	310
Dichloroethylene, 1,2-trans-	156-60-5	3,100	NA	1,900	1,900
Dichloropropane, 1,2-	78-87-5	39	61	1,400	39

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Chemical of Concern					
Dichloropropane, 1,3-	142-28-9	3,100	NA	1,500	1,500
Dichloropropene, 1,3-	542-75-6	180	43	1,600	43
Dihydrosafrole	94-58-6	NA	210	NA	210
Dimethylaniline, N,N-	121-69-7	310	510	830	310
Dimethylformamide	68-12-2	6,100	NA	110,000	6,100
Dimethylhydrazine, 1,2-	540-73-8	NA	0.019	190,000	0.019
Dioxane, 1,4-	123-91-1	1,900	110	120,000	110
Epoxybutane, 1,2-	106-88-7	400	NA	15,000	400
Ethoxyethanol, 2-	110-80-5	6,000	NA	110,000	6,000
Ethyl Acetate	141-78-6	1,600	NA	11,000	1,600
Ethyl Acrylate	140-88-5	110	NA	2,500	110
Ethyl Chloride (Chloroethane)	75-00-3	14,000	NA	2,100	2,100
Ethyl Ether	60-29-7	31,000	NA	10,000	10,000
Ethyl Methacrylate	97-63-2	4,500	NA	1,100	1,100
Ethylbenzene	100-41-4	5,100	140	480	140
Ethylene Diamine	107-15-3	14,000	NA	190,000	14,000
Ethylene Oxide	75-21-8	480	0.051	120,000	0.051
Ethyleneimine	151-56-4	NA	0.063	150,000	0.063
Formaldehyde	50-00-0	1,900	260	42,000	260
Formic Acid	64-18-6	340	NA	110,000	340
Glycidaldehyde	765-34-4	49	NA	110,000	49
Hexane, N-	110-54-3	1,500	NA	140	140
Hydrazine	302-01-2	5.1	0.78	110,000	0.78
Isobutyl Alcohol	78-83-1	47,000	NA	10,000	10,000

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Chemical of Concern					
Methacrylonitrile	126-98-7	15	NA	4,600	15
Methanol	67-56-1	260,000	NA	110,000	110,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	48,000	NA	28,000	28,000
Methyl Hydrazine	60-34-4	160	NA	180,000	160
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	83,000	NA	3,400	3,400
Methyl Isocyanate	624-83-9	12	NA	10,000	12
Methyl Methacrylate	80-62-6	11,000	NA	2,400	2,400
Methyl tert-Butyl Ether (MTBE)	1634-04-4	39,000	1,100	8,900	1,100
Methylene Chloride	75-09-2	740	1,200	3,300	740
Naphthalene	91-20-3	320	45	NA	45
Nickel Carbonyl	13463-39-3	1,600	210,000	NA	1,600
Phosgene	75-44-5	0.77	NA	1,600	0.77
Propargyl Alcohol	107-19-7	310	NA	110,000	310
Propionaldehyde	123-38-6	190	NA	33,000	190
Propylene Oxide	75-56-9	810	45	78,000	45
Styrene	100-42-5	14,000	NA	870	870
Tetrachlorobenzene, 1,2,4,5-	95-94-3	4.7	NA	NA	4.7
Tetrachloroethane, 1,1,1,2-	630-20-6	4,700	49	680	49
Tetrachloroethane, 1,1,2,2-	79-34-5	3,100	15	1,900	15
Tetrachloroethylene	127-18-4	190	580	170	170
Toluene	108-88-3	10,000	NA	820	820
Trichloroethane, 1,1,1-	71-55-6	20,000	NA	640	640

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Chemical of Concern					
Trichloroethane, 1,1,2-	79-00-5	310	28	2,200	28
Trichloroethylene	79-01-6	10	24	690	10
Trichlorofluoromethane	75-69-4	4,100	NA	1,200	1,200
Triethylamine	121-44-8	290	NA	28,000	290
Vinyl Acetate	108-05-4	2,300	NA	2,700	2,300
Vinyl Bromide	593-60-2	11	6.4	2,500	6.4
Vinyl Chloride	75-01-4	160	1.3	3,900	1.3
Xylenes	1330-20-7	1,400	NA	260	260
* = See paragraph (C)(3)(a)(v) of rule 3745-300-08 of the Administrative Code.					

Table II: Generic numerical direct-contact soil standards (commercial land use with high frequency child exposure)

<u>Table II</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Inorganics/Metals					
Aluminum Phosphide	20859-73-8	180	NA	NA	180
Antimony (metallic)	7440-36-0	180	NA	NA	180
Antimony Trioxide	1309-64-4	1,000,000	NA	NA	1,000,000
Arsenic, Inorganic	7440-38-2	180	46	NA	46
Barium	7440-39-3	85,000	NA	NA	85,000

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Beryllium and Compounds	7440-41-7	870	97,000	NA	870
Cadmium	7440-43-9	37	130,000	NA	37
Chlorine	7782-50-5	1.6	NA	2,800	1.6
Chromium(III), Insoluble Salts	16065-83-1	250,000	NA	NA	250,000
Chromium(VI)	18540-29-9	1,300	19	NA	19
Cobalt Compounds	7440-48-4	130	26,000	NA	130
Copper	7440-50-8	18,000	NA	NA	18,000
Disodium Phosphate	7558-79-4	440,000	NA	NA	440,000
Hydrogen Chloride	7647-01-0	1,000,000	NA	NA	1,000,000
Hydrogen Fluoride	7664-39-3	18,000	NA	NA	18,000
Hydrogen Sulfide	7783-06-4	1,000,000	NA	NA	1,000,000
Fluorine (Soluble Fluoride)	7782-41-4	26,000	NA	NA	26,000
Manganese Compounds	7439-96-5	10,000	NA	NA	10,000
Mercury and Compounds	7439-97-6	92	NA	3.1	3.1
Nickel Soluble Salts	7440-02-0	8,000	900,000	NA	8,000
Phosphine	7803-51-2	130	NA	NA	130
Selenium	7782-49-2	2,200	NA	NA	2,200
Selenious Acid	7783-00-8	2,200	NA	NA	2,200
Silver	7440-22-4	2,200	NA	NA	2,200
Sodium Azide	26628-22-8	1,800	NA	NA	1,800
Sodium Fluoride	7681-49-4	22,000	NA	NA	22,000
Sodium Fluoroacetate	62-74-8	5.9	NA	NA	5.9
Sodium tripolyphosphate	7758-29-4	440,000	NA	NA	440,000

Table II	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Sulfuric Acid	7664-93-9	1,000,000	NA	NA	1,000,000
Titanium Tetrachloride	7550-45-0	670,000	NA	NA	670,000
Trisodium Phosphate	7601-54-9	440,000	NA	NA	440,000
Vanadium Compounds	7440-62-2	2,200	NA	NA	2,200
Zinc and Compounds	7440-66-6	130,000	NA	NA	130,000
Zinc Phosphide	1314-84-7	130	NA	NA	130
Cyanides					
Calcium Cyanide	592-01-8	440	NA	NA	440
Copper Cyanide	544-92-3	2,200	NA	NA	2,200
Cyanide (CN-)	57-12-5	150	NA	950,000	150
Cyanogen	460-19-5	440	NA	NA	440
Cyanogen Bromide	506-68-3	39,000	NA	NA	39,000
Cyanogen Chloride	506-77-4	22,000	NA	NA	22,000
Hydrogen Cyanide	74-90-8	150	NA	1,000,000	150
Potassium Cyanide	151-50-8	880	NA	NA	880
Potassium Silver Cyanide	506-61-6	2,200	NA	NA	2,200
Silver Cyanide	506-64-9	44,000	NA	NA	44,000
Sodium Cyanide	143-33-9	440	NA	NA	440
Zinc Cyanide	557-21-1	22,000	NA	NA	22,000
Lead Compounds					
Lead Acetate	301-04-2	NA	170	NA	170
Lead and Compounds*	7439-92-1	NA	NA	NA	200
Lead Phosphate	7446-27-7	NA	6,000	NA	6,000
Lead Subacetate	1335-32-6	NA	910	NA	910

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Chemical of Concern					
Tetraethyl Lead	78-00-2	0.044	NA	2.4	0.044
Semi-Volatile Organic Compounds (SVOCs)					
Acenaphthene	83-32-9	16,000	NA	NA	16,000
Acetophenone	98-86-2	44,000	NA	2,500	2,500
Acetylaminofluorene, 2-	53-96-3	NA	9.1	NA	9.1
Acrylamide	79-06-1	590	13	NA	13
Alachlor	15972-60-8	3,000	620	NA	620
Aldicarb	116-06-3	300	NA	NA	300
Aldicarb Sulfone	1646-88-4	300	NA	NA	300
Aldrin	309-00-2	13	3	NA	3
Aminobiphenyl, 4-	92-67-1	NA	1.7	NA	1.7
Ammonium Sulfamate	7773-06-0	88,000	NA	NA	88,000
Aniline	62-53-3	2,100	6,100	NA	2,100
Anthracene	120-12-7	81,000	NA	NA	81,000
Aroclor 1016	12674-11-2	18	430	NA	18
Aroclor 1221	11104-28-2	NA	15	NA	15
Aroclor 1232	11141-16-5	NA	14	NA	14
Aroclor 1242	53469-21-9	NA	15	NA	15
Aroclor 1248	12672-29-6	NA	15	NA	15
Aroclor 1254	11097-69-1	5.3	15	NA	5.3
Aroclor 1260	11096-82-5	NA	15	NA	15
Atrazine	1912-24-9	890	150	NA	150
Auramine	492-80-8	NA	39	NA	39
Benomyl	17804-35-2	15,000	NA	NA	15,000

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Benzenethiol	108-98-5	440	NA	1,300	440
Benzidine	92-87-5	890	0.028	NA	0.028
Benz[a]anthracene	56-55-3	NA	59	NA	59
Benzo[a]pyrene	50-32-8	81	5.9	NA	5.9
Benzo[b]fluoranthene	205-99-2	NA	59	NA	59
Benzo[k]fluoranthene	207-08-9	NA	590	NA	590
Benzoic Acid	65-85-0	1,000,000	NA	NA	1,000,000
Biphenyl, 1,1'-	92-52-4	220,000	6,400	NA	6,400
Bis(2-chloroethoxy)methane	111-91-1	890	NA	NA	890
Bis(2-chloroethyl)ether	111-44-4	NA	30	5,000	30
Bis(chloromethyl)ether	542-88-1	NA	0.0092	4,200	0.0092
Bis(2-ethylhexyl)phthalate	117-81-7	5,900	2,500	NA	2,500
Butyl Benzyl Phthlate	85-68-7	59,000	18,000	NA	18,000
Cacodylic Acid	75-60-5	5,900	NA	NA	5,900
Captan	133-06-2	39,000	15,000	NA	15,000
Carbaryl	63-25-2	30,000	NA	NA	30,000
Carbofuran	1563-66-2	1,500	NA	NA	1,500
Carbosulfan	55285-14-8	3,000	NA	NA	3,000
Chloramben	133-90-4	4,500	NA	NA	4,500
Chlordane	12789-03-6	180	120	NA	120
Chlordecone (Kepone)	143-50-0	89	3.5	NA	3.5
Chloro-2-methylaniline HCl, 4-	3165-93-3	NA	75	NA	75
Chloroacetic Acid	79-11-8	1,000	NA	NA	1,000
Chloroacetophenone, 2-	532-27-4	200,000	NA	NA	200,000

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Chloroaniline, p-	106-47-8	150	170	NA	150
Chlorobenzilate	510-15-6	5,900	320	NA	320
Chloronaphthalene, Beta-	91-58-7	22,000	NA	NA	22,000
Chlorophenol, 2-	95-57-8	2,200	NA	27,000	2,200
Chlorpyrifos	2921-88-2	300	NA	NA	300
Chrysene	218-01-9	NA	5,900	NA	5,900
Cresol, m-	108-39-4	15,000	NA	NA	15,000
Cresol, o-	95-48-7	15,000	NA	NA	15,000
Cresol, p-	106-44-5	5,900	NA	NA	5,900
Cresol, p-chloro-m-	59-50-7	30,000	NA	NA	30,000
Cresols	1319-77-3	30,000	NA	NA	30,000
DDD	72-54-8	150	140	NA	140
DDE, p,p'-	72-55-9	220	150	NA	150
DDT	50-29-3	190	130	NA	130
Diallate	2303-16-4	NA	570	NA	570
Diazinon	333-41-5	210	NA	NA	210
Dibenz[a,h]anthracene	53-70-3	NA	5.9	NA	5.9
Dibutyl Phthalate	84-74-2	30,000	NA	NA	30,000
Dicamba	1918-00-9	8,900	NA	NA	8,900
Dichlorobenzene, 1,2-	95-50-1	14,000	NA	380	380
Dichlorobenzene, 1,4-	106-46-7	22,000	290	NA	290
Dichlorobenzidine, 3,3'-	91-94-1	NA	76	NA	76
Dichlorophenol, 2,4-	120-83-2	890	NA	NA	890
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	3,500	NA	NA	3,500

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Dichloropropionic acid, 2,2-	75-99-0	8,900	NA	NA	8,900
Dichlorvos	62-73-7	150	120	NA	120
Dieldrin	60-57-1	15	2.2	NA	2.2
Diethanolamine	111-42-2	590	NA	NA	590
Diethyl Phthalate	84-66-2	240,000	NA	NA	240,000
Diethylstilbestrol	56-53-1	NA	0.1	NA	0.1
Dimethoate	60-51-5	650	NA	NA	650
Dimethoxybenzidine, 3,3'-	119-90-4	NA	22	NA	22
Dimethylamino azobenzene [p-]	60-11-7	NA	7.5	NA	7.5
Dimethylbenz(a)anthracene, 7,12-	57-97-6	NA	0.024	NA	0.024
Dimethylbenzidine, 3,3'-	119-93-7	NA	3.2	NA	3.2
Dimethylphenol, 2,4-	105-67-9	5,900	NA	NA	5,900
Dinitrobenzene, 1,2-	528-29-0	30	NA	NA	30
Dinitrobenzene, 1,3-	99-65-0	30	NA	NA	30
Dinitrobenzene, 1,4-	100-25-4	30	NA	NA	30
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	590	NA	NA	590
Dinitrophenol, 2,4-	51-28-5	590	NA	NA	590
Dinitrotoluene, 2,4-	121-14-2	590	110	NA	110
Dinitrotoluene, 2,6-	606-20-2	NA	23	NA	23
Dinitrotoluene Mixture, 2,4/2,6	25321-14-6	NA	51	NA	51
Dinoseb	88-85-7	300	NA	NA	300
Diphenylhydrazine, 1,2-	122-66-7	NA	43	NA	43
Diquat	2764-72-9	650	NA	NA	650
Disulfoton	298-04-4	12	NA	NA	12

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Diuron	330-54-1	590	NA	NA	590
Endothall	145-73-3	5,900	NA	NA	5,900
Endosulfan	115-29-7	2,600	NA	NA	2,600
Endrin	72-20-8	89	NA	NA	89
Epichlorohydrin	106-89-8	160	3,500	11,000	160
Ethion	563-12-2	150	NA	NA	150
Ethylene Glycol	107-21-1	240,000	NA	NA	240,000
Ethylene Thiourea	96-45-7	24	770	NA	24
Fluoranthene	206-44-0	11,000	NA	NA	11,000
Fluorene	86-73-7	11,000	NA	NA	11,000
Furan	110-00-9	440	NA	6,200	440
Furfural	98-01-1	1,200	NA	10,000	1,200
Glyphosate	1071-83-6	30,000	NA	NA	30,000
Guthion	86-50-0	890	NA	NA	890
Heptachlor	76-44-8	44	11	NA	11
Heptachlor Epoxide	1024-57-3	5.7	5.5	NA	5.5
Hexachlorobenzene	118-74-1	4.4	26	NA	4.4
Hexachlorobutadiene	87-68-3	440	140	17	17
Hexachlorocyclohexane, Alpha-	319-84-6	270	5.5	NA	5.5
Hexachlorocyclohexane, Beta-	319-85-7	NA	19	NA	19
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	110	39	NA	39
Hexachlorocyclohexane, Technical	608-73-1	NA	19	NA	19
Hexachlorocyclopentadiene	77-47-4	15	NA	16	15

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Chemical of Concern					
Hexachloroethane	67-72-1	270	210	NA	210
Hexachlorophene	70-30-4	89	NA	NA	89
Hexamethylene Diisocyanate, 1,6-	822-06-0	26	NA	3,400	26
Hexamethylphosphoramide	680-31-9	120	NA	NA	120
Hexanedioic Acid	124-04-9	590,000	NA	NA	590,000
Hydroquinone	123-31-9	12,000	580	NA	580
Indeno[1,2,3-cd]pyrene	193-39-5	NA	59	NA	59
Isophorone	78-59-1	59,000	36,000	NA	36,000
Malathion	121-75-5	5,900	NA	NA	5,900
Maleic Anhydride	108-31-6	30,000	NA	NA	30,000
Maleic Hydrazide	123-33-1	150,000	NA	NA	150,000
Malononitrile	109-77-3	30	NA	NA	30
Methomyl	16752-77-5	7,400	NA	NA	7,400
Methoxychlor	72-43-5	1,500	NA	NA	1,500
Methyl Parathion	298-00-0	74	NA	NA	74
Methylaniline Hydrochloride, 2-	636-21-5	NA	270	NA	270
Methylcholanthrene, 3-	56-49-5	NA	0.3	NA	0.3
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	590	65	NA	65
Methylenebisbenzenamine, 4,4'-	101-77-9	1,000,000	22	NA	22
Methylenediphenyl Diisocyanate	101-68-8	1,000,000	NA	NA	1,000,000
Methylnaphthalene, 1-	90-12-0	1.5	NA	390	1.5
Methylnaphthalene, 2-	91-57-6	1,100	NA	NA	1,100
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	NA	4.2	NA	4.2
Naled	300-76-5	880	NA	NA	880

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Naphthylamine, 2-	91-59-8	NA	19	NA	19
Nitroaniline, 4-	100-01-6	1,200	1,700	NA	1,200
Nitrobenzene	98-95-3	760	560	3,000	560
Nitroglycerin	55-63-0	30	2,000	NA	30
Nitropropane, 2-	79-46-9	2,300	NA	4,900	2,300
Nitrosodiethanolamine, N-	1116-54-7	NA	12	NA	12
Nitrosodiethylamine, N-	55-18-5	NA	0.043	NA	0.043
Nitrosodimethylamine, N-	62-75-9	3.5	0.16	240,000	0.16
Nitroso-di-N-butylamine, N-	924-16-3	NA	8.9	NA	8.9
Nitroso-di-N-propylamine, N-	621-64-7	NA	5	NA	5
Nitrosodiphenylamine, N-	86-30-6	NA	7,100	NA	7,100
Nitrosomorpholine [N-]	59-89-2	NA	5.2	NA	5.2
Nitroso-N-ethylurea, N-	759-73-9	NA	0.24	NA	0.24
Nitroso-N-methylurea, N-	684-93-5	NA	0.054	NA	0.054
Nitrosopiperidine [N-]	100-75-4	NA	3.7	NA	3.7
Nitrosopyrrolidine, N-	930-55-2	NA	17	NA	17
Nitrotoluene, o-	88-72-2	390	230	1,500	230
Nitrotoluene, p-	99-99-0	1,200	2,200	NA	1,200
Octamethylpyrophosphoramidate	152-16-9	590	NA	NA	590
Octyl Phthalate, di-N-	117-84-0	3,000	NA	NA	3,000
Oxamyl	23135-22-0	7,400	NA	NA	7,400
Parathion	56-38-2	1,800	NA	NA	1,800
Pentachlorobenzene	608-93-5	350	NA	NA	350
Pentachloroethane	76-01-7	NA	570	460	460

<u>Table II</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Pentachloronitrobenzene	82-68-8	890	130	NA	130
Pentachlorophenol	87-86-5	1,000	58	NA	58
Phenacetin	62-44-2	NA	16,000	NA	16,000
Phenol	108-95-2	89,000	NA	NA	89,000
Phenylmercuric Acetate	62-38-4	24	NA	NA	24
Phorate	298-02-2	59	NA	NA	59
Phosphoric Acid	7664-38-2	440,000	NA	NA	440,000
Phthalic Anhydride	85-44-9	590,000	NA	NA	590,000
Picloram	1918-02-1	21,000	NA	NA	21,000
Polychlorinated Biphenyls, Total	1336-36-3	NA	15	NA	15
Pronamide	23950-58-5	22,000	NA	NA	22,000
Propargite	2312-35-8	12,000	180	NA	180
Propham	122-42-9	5,900	NA	NA	5,900
Propoxur (Baygon)	114-26-1	1,200	NA	NA	1,200
Pyrene	129-00-0	8,100	NA	NA	8,100
Pyridine	110-86-1	440	NA	530,000	440
Quinoline	91-22-5	NA	12	NA	12
Safrole	94-59-7	NA	30	NA	30
Simazine	122-34-9	1,500	290	NA	290
Strychnine	57-24-9	89	NA	NA	89
TCDD, 2,3,7,8-	1746-01-6	0.00027	0.00034	NA	0.00027
Tetrachlorophenol, 2,3,4,6-	58-90-2	8,900	NA	NA	8,900
Tetraethyl Dithiopyrophosphate	3689-24-5	150	NA	NA	150
Tetrahydrofuran	109-99-9	140,000	NA	170,000	140,000

<u>Table II</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Thiofanox	39196-18-4	89	NA	NA	89
Thiophanate, Methyl	23564-05-8	48,000	2,900	NA	2,900
Thiram	137-26-8	4,500	NA	NA	4,500
Toluene-2,4-diisocyanate	584-84-9	2.2	710	NA	2.2
Toluene-2,6-diisocyanate	91-08-7	44	1,300	1,700	44
Toluidine, p-	106-49-0	NA	1,200	NA	1,200
Toxaphene	8001-35-2	27	32	NA	27
Triallate	2303-17-5	11,000	710	NA	710
Trichlorobenzene, 1,2,4-	120-82-1	470	1,800	400	400
Trichlorophenol, 2,4,5-	95-95-4	30,000	NA	NA	30,000
Trichlorophenol, 2,4,6-	88-06-2	300	3,200	NA	300
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	3,000	NA	NA	3,000
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	2,400	NA	NA	2,400
Trifluralin	1582-09-8	3,300	6,600	NA	3,300
Trimethylbenzene, 1,2,3-	526-73-8	2,300	NA	290	290
Trimethylbenzene, 1,2,4-	95-63-6	2,100	NA	220	220
Trimethylbenzene, 1,3,5-	108-67-8	1,900	NA	180	180
Trinitrobenzene, 1,3,5-	99-35-4	12,000	NA	NA	12,000
Urethane	51-79-6	NA	6.5	NA	6.5
Warfarin	81-81-2	89	NA	NA	89
Volatile Organic Compounds (VOCs)					
Acetaldehyde	75-07-0	690	1,200	110,000	690
Acetone	67-64-1	390,000	NA	110,000	110,000
Acetonitrile	75-05-8	6,800	NA	130,000	6,800

<u>Table II</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Acrolein	107-02-8	1.2	NA	23,000	1.2
Acrylic Acid	79-10-7	170	NA	110,000	170
Acrylonitrile	107-13-1	100	30	11,000	30
Allyl Alcohol	107-18-6	1,800	NA	110,000	1,800
Allyl Chloride	107-05-1	14	80	1,400	14
Benzene	71-43-2	610	130	1,800	130
Benzotrichloride	98-07-7	NA	3.9	320	3.9
Benzyl Chloride	100-44-7	180	130	1,500	130
Bis(2-chloro-1-methylethyl) Ether	108-60-1	18,000	NA	1,000	1,000
Bromodichloromethane	75-27-4	3,500	33	930	33
Bromoform	75-25-2	8,800	2,300	910	910
Bromomethane	74-83-9	56	NA	3,600	56
Butadiene, 1,3-	106-99-0	15	8.5	670	8.5
Butanol, N-	71-36-3	44,000	NA	7,600	7,600
Butylbenzene, n-	104-51-8	22,000	NA	110	110
Carbon Disulfide	75-15-0	6,200	NA	740	740
Carbon Tetrachloride	56-23-5	750	74	460	74
Carbonyl Sulfide	463-58-1	570	NA	5,900	570
Chlorobenzene	108-90-7	2,100	NA	760	760
Chloro-1,3-butadiene, 2-	126-99-8	190	1.1	790	1.1
Chloroform	67-66-3	1,500	35	2,500	35
Chloromethane	74-87-3	930	NA	1,300	930
Chloromethyl Methyl Ether	107-30-2	NA	2.3	9,300	2.3
Crotonaldehyde, trans-	123-73-9	440	27	17,000	27

<u>Table II</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Cumene	98-82-8	15,000	NA	270	270
Cyclohexane	110-82-7	55,000	NA	120	120
Cyclohexanone	108-94-1	230,000	NA	5,100	5,100
Dibromo-3-chloropropane, 1,2-	96-12-8	34	0.95	980	0.95
Dibromochloromethane	124-48-1	8,800	610	800	610
Dibromoethane, 1,2-	106-93-4	580	4.2	1,300	4.2
Dichloro-2-butene, 1,4-	764-41-0	NA	0.24	550	0.24
Dichlorodifluoromethane	75-71-8	88,000	NA	850	850
Dichloroethane, 1,1-	75-34-3	88,000	390	1,700	390
Dichloroethane, 1,2-	107-06-2	280	52	3,000	52
Dichloroethylene, 1,1-	75-35-4	1,900	NA	1,200	1,200
Dichloroethylene, 1,2-cis-	156-59-2	880	NA	2,400	880
Dichloroethylene, 1,2-trans-	156-60-5	8,800	NA	1,900	1,900
Dichloropropane, 1,2-	78-87-5	130	290	1,400	130
Dichloropropane, 1,3-	142-28-9	8,800	NA	1,500	1,500
Dichloropropene, 1,3-	542-75-6	600	230	1,600	230
Dihydrosafrole	94-58-6	NA	1,000	NA	1,000
Dimethylaniline, N,N-	121-69-7	880	1,900	830	830
Dimethylformamide	68-12-2	19,000	NA	110,000	19,000
Dimethylhydrazine, 1,2-	540-73-8	NA	0.086	190,000	0.086
Dioxane, 1,4-	123-91-1	5,800	480	120,000	480
Epoxybutane, 1,2-	106-88-7	1,300	NA	15,000	1,300
Ethoxyethanol, 2-	110-80-5	18,000	NA	110,000	18,000
Ethyl Acetate	141-78-6	5,200	NA	11,000	5,200

<u>Table II</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Ethyl Acrylate	140-88-5	370	NA	2,500	370
Ethyl Chloride (Chloroethane)	75-00-3	46,000	NA	2,100	2,100
Ethyl Ether	60-29-7	88,000	NA	10,000	10,000
Ethyl Methacrylate	97-63-2	15,000	NA	1,100	1,100
Ethylbenzene	100-41-4	15,000	660	480	480
Ethylene Diamine	107-15-3	39,000	NA	190,000	39,000
Ethylene Oxide	75-21-8	1,600	0.39	120,000	0.39
Ethyleneimine	151-56-4	NA	0.33	150,000	0.33
Formaldehyde	50-00-0	6,200	1,400	42,000	1,400
Formic Acid	64-18-6	390,000	NA	110,000	110,000
Glycidaldehyde	765-34-4	140	NA	110,000	140
Hexane, N-	110-54-3	5,100	NA	140	140
Hydrazine	302-01-2	17	3.7	110,000	3.7
Isobutyl Alcohol	78-83-1	130,000	NA	10,000	10,000
Methacrylonitrile	126-98-7	43	NA	4,600	43
Methanol	67-56-1	750,000	NA	110,000	110,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	180,000	NA	28,000	28,000
Methyl Hydrazine	60-34-4	440	NA	180,000	440
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	280,000	NA	3,400	3,400
Methyl Isocyanate	624-83-9	39	NA	10,000	39
Methyl Methacrylate	80-62-6	37,000	NA	2,400	2,400
Methyl tert-Butyl Ether (MTBE)	1634-04-4	130,000	5,400	8,900	5,400
Methylene Chloride	75-09-2	2,100	4,300	3,300	2,100

<u>Table II</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct- Contact Soil Standard for a Single Chemical (mg/kg)
Naphthalene	91-20-3	1,000	220	NA	220
Nickel Carbonyl	13463-39-3	4,600	900,000	NA	4,600
Phosgene	75-44-5	2.6	NA	1,600	2.6
Propargyl Alcohol	107-19-7	880	NA	110,000	880
Propionaldehyde	123-38-6	630	NA	33,000	630
Propylene Oxide	75-56-9	2,700	200	78,000	200
Styrene	100-42-5	42,000	NA	870	870
Tetrachlorobenzene, 1,2,4,5-	95-94-3	13	NA	NA	13
Tetrachloroethane, 1,1,1,2-	630-20-6	13,000	230	680	230
Tetrachloroethane, 1,1,2,2-	79-34-5	8,800	71	1,900	71
Tetrachloroethylene	127-18-4	630	2,700	170	170
Toluene	108-88-3	30,000	NA	820	820
Trichloroethane, 1,1,1-	71-55-6	67,000	NA	640	640
Trichloroethane, 1,1,2-	79-00-5	1,800	130	2,200	130
Trichloroethylene	79-01-6	33	160	690	33
Trichlorofluoromethane	75-69-4	130,000	NA	1,200	1,200
Triethylamine	121-44-8	970	NA	28,000	970
Vinyl Acetate	108-05-4	7,600	NA	2,700	2,700
Vinyl Bromide	593-60-2	36	28	2,500	28
Vinyl Chloride	75-01-4	510	2.3	3,900	2.3
Xylenes	1330-20-7	4,800	NA	260	260
* = See paragraph (C)(3)(a)(v) of rule 3745-300-08 of the Administrative Code.					

Table III: Generic numerical direct-contact soil standards (commercial or industrial land use category)

Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Inorganics/Metals					
Aluminum Phosphide	20859-73-8	1,900	NA	NA	1,900
Antimony (metallic)	7440-36-0	1,900	NA	NA	1,900
Antimony Trioxide	1309-64-4	1,000,000	NA	NA	1,000,000
Arsenic, Inorganic	7440-38-2	1,600	100	NA	100
Barium	7440-39-3	760,000	NA	NA	760,000
Beryllium and Compounds	7440-41-7	8,800	97,000	NA	8,800
Cadmium	7440-43-9	350	130,000	NA	350
Chlorine	7782-50-5	2	NA	2,800	2
Chromium (III)	16065-83-1	470,000	NA	NA	470,000
Chromium (VI)	18540-29-9	14,000	240	NA	240
Cobalt Compounds	7440-48-4	1,400	26,000	NA	1,400
Copper	7440-50-8	190,000	NA	NA	190,000
Disodium Phosphate	7558-79-4	1,000,000	NA	NA	1,000,000
Hydrogen Chloride	7647-01-0	1,000,000	NA	NA	1,000,000
Hydrogen Fluoride	7664-39-3	190,000	NA	NA	190,000
Hydrogen Sulfide	7783-06-4	1,000,000	NA	NA	1,000,000
Fluorine (Soluble Fluoride)	7782-41-4	280,000	NA	NA	280,000
Manganese Compounds	7439-96-5	88,000	NA	NA	88,000
Mercury and Compounds	7439-97-6	110	NA	3.1	3.1

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Nickel Soluble Salts	7440-02-0	52,000	900,000	NA	52,000
Phosphine	7803-51-2	1,400	NA	NA	1,400
Selenium	7782-49-2	23,000	NA	NA	23,000
Selenious Acid	7783-00-8	23,000	NA	NA	23,000
Silver	7440-22-4	23,000	NA	NA	23,000
Sodium Azide	26628-22-8	19,000	NA	NA	19,000
Sodium Fluoride	7681-49-4	230,000	NA	NA	230,000
Sodium Fluoroacetate	62-74-8	51	NA	NA	51
Sodium tripolyphosphate	7758-29-4	1,000,000	NA	NA	1,000,000
Sulfuric Acid	7664-93-9	1,000,000	NA	NA	1,000,000
Titanium Tetrachloride	7550-45-0	830,000	NA	NA	830,000
Trisodium Phosphate	7601-54-9	1,000,000	NA	NA	1,000,000
Vanadium Compounds	7440-62-2	23,000	NA	NA	23,000
Zinc and Compounds	7440-66-6	1,000,000	NA	NA	1,000,000
Zinc Phosphide	1314-84-7	1,400	NA	NA	1,400
Cyanides					
Calcium Cyanide	592-01-8	4,700	NA	NA	4,700
Copper Cyanide	544-92-3	23,000	NA	NA	23,000
Cyanide (CN-)	57-12-5	400	NA	950,000	400
Cyanogen	460-19-5	4,700	NA	NA	4,700
Cyanogen Bromide	506-68-3	420,000	NA	NA	420,000
Cyanogen Chloride	506-77-4	230,000	NA	NA	230,000
Hydrogen Cyanide	74-90-8	400	NA	1,000,000	400
Potassium Cyanide	151-50-8	9,300	NA	NA	9,300

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Potassium Silver Cyanide	506-61-6	23,000	NA	NA	23,000
Silver Cyanide	506-64-9	470,000	NA	NA	470,000
Sodium Cyanide	143-33-9	4,700	NA	NA	4,700
Zinc Cyanide	557-21-1	230,000	NA	NA	230,000
Lead Compounds					
Lead Acetate	301-04-2	NA	340	NA	340
Lead and Compounds*	7439-92-1	NA	NA	NA	800
Lead Phosphate	7446-27-7	NA	15,000	NA	15,000
Lead Subacetate	1335-32-6	NA	1,900	NA	1,900
Tetraethyl Lead	78-00-2	0.47	NA	2.4	0.47
Semi-Volatile Organic Compounds (SVOCs)					
Acenaphthene	83-32-9	130,000	NA	NA	130,000
Acetophenone	98-86-2	470,000	NA	2,500	2,500
Acetylaminofluorene, 2-	53-96-3	NA	19	NA	19
Acrylamide	79-06-1	5,100	140	NA	140
Alachlor	15972-60-8	25,000	1,300	NA	1,300
Aldicarb	116-06-3	2,500	NA	NA	2,500
Aldicarb Sulfone	1646-88-4	2,500	NA	NA	2,500
Aldrin	309-00-2	140	7.2	NA	7.2
Aminobiphenyl, 4-	92-67-1	NA	3.4	NA	3.4
Ammonium Sulfamate	7773-06-0	930,000	NA	NA	930,000
Aniline	62-53-3	18,000	12,000	NA	12,000
Anthracene	120-12-7	670,000	NA	NA	670,000
Aroclor 1016	12674-11-2	150	780	NA	150

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Aroclor 1221	11104-28-2	NA	22	NA	22
Aroclor 1232	11141-16-5	NA	20	NA	20
Aroclor 1242	53469-21-9	NA	27	NA	27
Aroclor 1248	12672-29-6	NA	27	NA	27
Aroclor 1254	11097-69-1	43	28	NA	28
Aroclor 1260	11096-82-5	NA	28	NA	28
Atrazine	1912-24-9	7,600	310	NA	310
Auramine	492-80-8	NA	81	NA	81
Benomyl	17804-35-2	130,000	NA	NA	130,000
Benzenethiol	108-98-5	4,700	NA	1,300	1,300
Benzidine	92-87-5	7,600	0.31	NA	0.31
Benz[a]anthracene	56-55-3	NA	610	NA	610
Benzo[a]pyrene	50-32-8	640	62	NA	62
Benzo[b]fluoranthene	205-99-2	NA	620	NA	620
Benzo[k]fluoranthene	207-08-9	NA	6,200	NA	6,200
Benzoic Acid	65-85-0	1,000,000	NA	NA	1,000,000
Biphenyl, 1,1'-	92-52-4	1,000,000	16,000	NA	16,000
Bis(2-chloroethoxy)methane	111-91-1	7,600	NA	NA	7,600
Bis(2-chloroethyl)ether	111-44-4	NA	30	5,000	30
Bis(chloromethyl)ether	542-88-1	NA	0.0092	4,200	0.0092
Bis(2-ethylhexyl)phthalate	117-81-7	51,000	5,100	NA	5,100
Butyl Benzyl Phthlate	85-68-7	510,000	37,000	NA	37,000
Cacodylic Acid	75-60-5	51,000	NA	NA	51,000
Captan	133-06-2	330,000	31,000	NA	31,000

<u>Table III</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Carbaryl	63-25-2	250,000	NA	NA	250,000
Carbofuran	1563-66-2	13,000	NA	NA	13,000
Carbosulfan	55285-14-8	25,000	NA	NA	25,000
Chloramben	133-90-4	38,000	NA	NA	38,000
Chlordane	12789-03-6	1,400	260	NA	260
Chlordecone (Kepone)	143-50-0	760	7.1	NA	7.1
Chloro-2-methylaniline HCl, 4-	3165-93-3	NA	150	NA	150
Chloroacetic Acid	79-11-8	8,900	NA	NA	8,900
Chloroacetophenone, 2-	532-27-4	250,000	NA	NA	250,000
Chloroaniline, p-	106-47-8	1,300	350	NA	350
Chlorobenzilate	510-15-6	51,000	640	NA	640
Chloronaphthalene, Beta-	91-58-7	180,000	NA	NA	180,000
Chlorophenol, 2-	95-57-8	23,000	NA	27,000	23,000
Chlorpyrifos	2921-88-2	2,500	NA	NA	2,500
Chrysene	218-01-9	NA	62,000	NA	62,000
Cresol, m-	108-39-4	130,000	NA	NA	130,000
Cresol, o-	95-48-7	130,000	NA	NA	130,000
Cresol, p-	106-44-5	51,000	NA	NA	51,000
Cresol, p-chloro-m-	59-50-7	250,000	NA	NA	250,000
Cresols	1319-77-3	250,000	NA	NA	250,000
DDD	72-54-8	1,300	300	NA	300
DDE, p,p'-	72-55-9	2,300	360	NA	360
DDT	50-29-3	1,900	310	NA	310
Diallate	2303-16-4	NA	1,200	NA	1,200

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Diazinon	333-41-5	1,800	NA	NA	1,800
Dibenz[a,h]anthracene	53-70-3	NA	62	NA	62
Dibutyl Phthalate	84-74-2	250,000	NA	NA	250,000
Dicamba	1918-00-9	76,000	NA	NA	76,000
Dichlorobenzene, 1,2-	95-50-1	24,000	NA	380	380
Dichlorobenzene, 1,4-	106-46-7	72,000	290	NA	290
Dichlorobenzidine, 3,3'-	91-94-1	NA	150	NA	150
Dichlorophenol, 2,4-	120-83-2	7,600	NA	NA	7,600
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	33,000	NA	NA	33,000
Dichloropropionic acid, 2,2-	75-99-0	76,000	NA	NA	76,000
Dichlorvos	62-73-7	1,300	240	NA	240
Dieldrin	60-57-1	130	4.4	NA	4.4
Diethanolamine	111-42-2	5,000	NA	NA	5,000
Diethyl Phthalate	84-66-2	1,000,000	NA	NA	1,000,000
Diethylstilbestrol	56-53-1	NA	0.2	NA	0.2
Dimethoate	60-51-5	5,600	NA	NA	5,600
Dimethoxybenzidine, 3,3'-	119-90-4	NA	44	NA	44
Dimethylamino azobenzene [p-]	60-11-7	NA	15	NA	15
Dimethylbenz(a)anthracene, 7,12-	57-97-6	NA	0.25	NA	0.25
Dimethylbenzidine, 3,3'-	119-93-7	NA	6.4	NA	6.4
Dimethylphenol, 2,4-	105-67-9	51,000	NA	NA	51,000
Dinitrobenzene, 1,2-	528-29-0	250	NA	NA	250
Dinitrobenzene, 1,3-	99-65-0	250	NA	NA	250
Dinitrobenzene, 1,4-	100-25-4	250	NA	NA	250

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	5,100	NA	NA	5,100
Dinitrophenol, 2,4-	51-28-5	5,100	NA	NA	5,100
Dinitrotoluene, 2,4-	121-14-2	5,000	230	NA	230
Dinitrotoluene, 2,6-	606-20-2	NA	47	NA	47
Dinitrotoluene Mixture, 2,4/2,6	25321-14-6	NA	100	NA	100
Dinoseb	88-85-7	2,500	NA	NA	2,500
Diphenylhydrazine, 1,2-	122-66-7	NA	89	NA	89
Diquat	2764-72-9	5,600	NA	NA	5,600
Disulfoton	298-04-4	100	NA	NA	100
Diuron	330-54-1	5,100	NA	NA	5,100
Endothall	145-73-3	51,000	NA	NA	51,000
Endosulfan	115-29-7	28,000	NA	NA	28,000
Endrin	72-20-8	760	NA	NA	760
Epichlorohydrin	106-89-8	210	3,500	11,000	210
Ethion	563-12-2	1,300	NA	NA	1,300
Ethylene Glycol	107-21-1	1,000,000	NA	NA	1,000,000
Ethylene Thiourea	96-45-7	200	1,600	NA	200
Fluoranthene	206-44-0	89,000	NA	NA	89,000
Fluorene	86-73-7	89,000	NA	NA	89,000
Furan	110-00-9	4,700	NA	6,200	4,700
Furfural	98-01-1	9,200	NA	10,000	9,200
Glyphosate	1071-83-6	250,000	NA	NA	250,000
Guthion	86-50-0	7,600	NA	NA	7,600
Heptachlor	76-44-8	470	23	NA	23

<u>Table III</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Heptachlor Epoxide	1024-57-3	61	13	NA	13
Hexachlorobenzene	118-74-1	47	29	NA	29
Hexachlorobutadiene	87-68-3	4,700	140	17	17
Hexachlorocyclohexane, Alpha-	319-84-6	2,300	11	NA	11
Hexachlorocyclohexane, Beta-	319-85-7	NA	39	NA	39
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	1,000	89	NA	89
Hexachlorocyclohexane, Technical	608-73-1	NA	39	NA	39
Hexachlorocyclopentadiene	77-47-4	19	NA	16	16
Hexachloroethane	67-72-1	1,500	210	NA	210
Hexachlorophene	70-30-4	760	NA	NA	760
Hexamethylene Diisocyanate, 1,6-	822-06-0	33	NA	3,400	33
Hexamethylphosphoramide	680-31-9	1,000	NA	NA	1,000
Hexanedioic Acid	124-04-9	1,000,000	NA	NA	1,000,000
Hydroquinone	123-31-9	100,000	1,200	NA	1,200
Indeno[1,2,3-cd]pyrene	193-39-5	NA	620	NA	620
Isophorone	78-59-1	510,000	75,000	NA	75,000
Malathion	121-75-5	51,000	NA	NA	51,000
Maleic Anhydride	108-31-6	240,000	NA	NA	240,000
Maleic Hydrazide	123-33-1	1,000,000	NA	NA	1,000,000
Malononitrile	109-77-3	250	NA	NA	250
Methomyl	16752-77-5	63,000	NA	NA	63,000
Methoxychlor	72-43-5	13,000	NA	NA	13,000
Methyl Parathion	298-00-0	630	NA	NA	630

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Methylaniline Hydrochloride, 2-	636-21-5	NA	540	NA	540
Methylcholanthrene, 3-	56-49-5	NA	3.2	NA	3.2
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	5,100	710	NA	710
Methylenebisbenzenamine, 4,4'-	101-77-9	1,000,000	44	NA	44
Methylenediphenyl Diisocyanate	101-68-8	1,000,000	NA	NA	1,000,000
Methylnaphthalene, 1-	90-12-0	1.9	NA	390	1.9
Methylnaphthalene, 2-	91-57-6	8,900	NA	NA	8,900
Methyl-N-nitro-N-nitrosoguanidine, N- Naled	70-25-7 300-76-5	NA 9,300	8.5 NA	NA NA	8.5 9,300
Naphthylamine, 2-	91-59-8	NA	39	NA	39
Nitroaniline, 4-	100-01-6	10,000	3,500	NA	3,500
Nitrobenzene	98-95-3	4,100	560	3,000	560
Nitroglycerin	55-63-0	250	4,200	NA	250
Nitropropane, 2-	79-46-9	2,900	NA	4,900	2,900
Nitrosodiethanolamine, N-	1116-54-7	NA	25	NA	25
Nitrosodiethylamine, N-	55-18-5	NA	0.47	NA	0.47
Nitrosodimethylamine, N-	62-75-9	37	1.1	240,000	1.1
Nitroso-di-N-butylamine, N-	924-16-3	NA	16	NA	16
Nitroso-di-N-propylamine, N-	621-64-7	NA	10	NA	10
Nitrosodiphenylamine, N-	86-30-6	NA	14,000	NA	14,000
Nitrosomorpholine [N-]	59-89-2	NA	11	NA	11
Nitroso-N-ethylurea, N-	759-73-9	NA	2.6	NA	2.6
Nitroso-N-methylurea, N-	684-93-5	NA	0.59	NA	0.59
Nitrosopiperidine [N-]	100-75-4	NA	7.5	NA	7.5

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Nitrosopyrrolidine, N-	930-55-2	NA	34	NA	34
Nitrotoluene, o-	88-72-2	4,200	590	1,500	590
Nitrotoluene, p-	99-99-0	10,000	4,400	NA	4,400
Octamethylpyrophosphoramidate	152-16-9	5,100	NA	NA	5,100
Octyl Phthalate, di-N-	117-84-0	25,000	NA	NA	25,000
Oxamyl	23135-22-0	63,000	NA	NA	63,000
Parathion	56-38-2	15,000	NA	NA	15,000
Pentachlorobenzene	608-93-5	3,700	NA	NA	3,700
Pentachloroethane	76-01-7	NA	1,500	460	460
Pentachloronitrobenzene	82-68-8	7,600	270	NA	270
Pentachlorophenol	87-86-5	7,500	100	NA	100
Phenacetin	62-44-2	NA	32,000	NA	32,000
Phenol	108-95-2	760,000	NA	NA	760,000
Phenylmercuric Acetate	62-38-4	200	NA	NA	200
Phorate	298-02-2	510	NA	NA	510
Phosphoric Acid	7664-38-2	1,000,000	NA	NA	1,000,000
Phthalic Anhydride	85-44-9	1,000,000	NA	NA	1,000,000
Picloram	1918-02-1	180,000	NA	NA	180,000
Polychlorinated Biphenyls, Total	1336-36-3	NA	27	NA	27
Pronamide	23950-58-5	190,000	NA	NA	190,000
Propargite	2312-35-8	100,000	370	NA	370
Propham	122-42-9	51,000	NA	NA	51,000
Propoxur (Baygon)	114-26-1	10,000	NA	NA	10,000
Pyrene	129-00-0	67,000	NA	NA	67,000

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Pyridine	110-86-1	4,700	NA	530,000	4,700
Quinoline	91-22-5	NA	24	NA	24
Safrole	94-59-7	NA	320	NA	320
Simazine	122-34-9	13,000	590	NA	590
Strychnine	57-24-9	760	NA	NA	760
TCDD, 2,3,7,8-	1746-01-6	0.0026	0.00076	NA	0.00076
Tetrachlorophenol, 2,3,4,6-	58-90-2	76,000	NA	NA	76,000
Tetraethyl Dithiopyrophosphate	3689-24-5	1,300	NA	NA	1,300
Tetrahydrofuran	109-99-9	250,000	NA	170,000	170,000
Thiofanox	39196-18-4	760	NA	NA	760
Thiophanate, Methyl	23564-05-8	400,000	5,900	NA	5,900
Thiram	137-26-8	38,000	NA	NA	38,000
Toluene-2,4-diisocyanate	584-84-9	2.8	710	NA	2.8
Toluene-2,6-diisocyanate	91-08-7	56	2,800	1,700	56
Toluidine, p-	106-49-0	NA	2,400	NA	2,400
Toxaphene	8001-35-2	230	64	NA	64
Triallate	2303-17-5	120,000	1,800	NA	1,800
Trichlorobenzene, 1,2,4-	120-82-1	650	4,500	400	400
Trichlorophenol, 2,4,5-	95-95-4	250,000	NA	NA	250,000
Trichlorophenol, 2,4,6-	88-06-2	2,500	6,400	NA	2,500
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	25,000	NA	NA	25,000
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	20,000	NA	NA	20,000
Trifluralin	1582-09-8	35,000	17,000	NA	17,000
Trimethylbenzene, 1,2,3-	526-73-8	5,500	NA	290	290

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Trimethylbenzene, 1,2,4-	95-63-6	4,700	NA	220	220
Trimethylbenzene, 1,3,5-	108-67-8	4,000	NA	180	180
Trinitrobenzene, 1,3,5-	99-35-4	120,000	NA	NA	120,000
Urethane	51-79-6	NA	71	NA	71
Warfarin	81-81-2	760	NA	NA	760
Volatile Organic Compounds (VOCs)					
Acetaldehyde	75-07-0	860	1,200	110,000	860
Acetone	67-64-1	1,000,000	NA	110,000	110,000
Acetonitrile	75-05-8	8,600	NA	130,000	8,600
Acrolein	107-02-8	1.5	NA	23,000	1.5
Acrylic Acid	79-10-7	210	NA	110,000	210
Acrylonitrile	107-13-1	160	30	11,000	30
Allyl Alcohol	107-18-6	19,000	NA	110,000	19,000
Allyl Chloride	107-05-1	17	80	1,400	17
Benzene	71-43-2	1,100	130	1,800	130
Benzotrichloride	98-07-7	NA	10	320	10
Benzyl Chloride	100-44-7	270	130	1,500	130
Bis(2-chloro-1-methylethyl) Ether	108-60-1	190,000	NA	1,000	1,000
Bromodichloromethane	75-27-4	37,000	33	930	33
Bromoform	75-25-2	93,000	2,300	910	910
Bromomethane	74-83-9	76	NA	3,600	76
Butadiene, 1,3-	106-99-0	19	8.5	670	8.5
Butanol, N-	71-36-3	470,000	NA	7,600	7,600
Butylbenzene, n-	104-51-8	230,000	NA	110	110

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Carbon Disulfide	75-15-0	8,800	NA	740	740
Carbon Tetrachloride	56-23-5	1,500	74	460	74
Carbonyl Sulfide	463-58-1	710	NA	5,900	710
Chlorobenzene	108-90-7	3,400	NA	760	760
Chloro-1,3-butadiene, 2-	126-99-8	240	1.1	790	1.1
Chloroform	67-66-3	2,700	35	2,500	35
Chloromethane	74-87-3	1,200	NA	1,300	1,200
Chloromethyl Methyl Ether	107-30-2	NA	2.3	9,300	2.3
Crotonaldehyde, trans-	123-73-9	4,700	69	17,000	69
Cumene	98-82-8	26,000	NA	270	270
Cyclohexane	110-82-7	69,000	NA	120	120
Cyclohexanone	108-94-1	320,000	NA	5,100	5,100
Dibromo-3-chloropropane, 1,2-	96-12-8	65	1.6	980	1.6
Dibromochloromethane	124-48-1	93,000	1,600	800	800
Dibromoethane, 1,2-	106-93-4	840	4.2	1,300	4.2
Dichloro-2-butene, 1,4-	764-41-0	NA	0.24	550	0.24
Dichlorodifluoromethane	75-71-8	930,000	NA	850	850
Dichloroethane, 1,1-	75-34-3	930,000	390	1,700	390
Dichloroethane, 1,2-	107-06-2	350	52	3,000	52
Dichloroethylene, 1,1-	75-35-4	2,500	NA	1,200	1,200
Dichloroethylene, 1,2-cis-	156-59-2	9,300	NA	2,400	2,400
Dichloroethylene, 1,2-trans-	156-60-5	93,000	NA	1,900	1,900
Dichloropropane, 1,2-	78-87-5	170	290	1,400	170
Dichloropropane, 1,3-	142-28-9	93,000	NA	1,500	1,500

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Dichloropropene, 1,3-	542-75-6	780	230	1,600	230
Dihydrosafrole	94-58-6	NA	1,500	NA	1,500
Dimethylaniline, N,N-	121-69-7	9,300	4,800	830	830
Dimethylformamide	68-12-2	39,000	NA	110,000	39,000
Dimethylhydrazine, 1,2-	540-73-8	NA	0.14	190,000	0.14
Dioxane, 1,4-	123-91-1	12,000	850	120,000	850
Epoxybutane, 1,2-	106-88-7	1,700	NA	15,000	1,700
Ethoxyethanol, 2-	110-80-5	39,000	NA	110,000	39,000
Ethyl Acetate	141-78-6	6,600	NA	11,000	6,600
Ethyl Acrylate	140-88-5	540	NA	2,500	540
Ethyl Chloride (Chloroethane)	75-00-3	57,000	NA	2,100	2,100
Ethyl Ether	60-29-7	930,000	NA	10,000	10,000
Ethyl Methacrylate	97-63-2	19,000	NA	1,100	1,100
Ethylbenzene	100-41-4	49,000	660	480	480
Ethylene Diamine	107-15-3	420,000	NA	190,000	190,000
Ethylene Oxide	75-21-8	2,000	0.62	120,000	0.62
Ethyleneimine	151-56-4	NA	0.33	150,000	0.33
Formaldehyde	50-00-0	8,300	1,400	42,000	1,400
Formic Acid	64-18-6	1,000,000	NA	110,000	110,000
Glycidaldehyde	765-34-4	620	NA	110,000	620
Hexane, N-	110-54-3	6,400	NA	140	140
Hydrazine	302-01-2	21	3.7	110,000	3.7
Isobutyl Alcohol	78-83-1	1,000,000	NA	10,000	10,000
Methacrylonitrile	126-98-7	390	NA	4,600	390

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Methanol	67-56-1	1,000,000	NA	110,000	110,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	540,000	NA	28,000	28,000
Methyl Hydrazine	60-34-4	4,700	NA	180,000	4,700
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	350,000	NA	3,400	3,400
Methyl Isocyanate	624-83-9	49	NA	10,000	49
Methyl Methacrylate	80-62-6	48,000	NA	2,400	2,400
Methyl tert-Butyl Ether (MTBE)	1634-04-4	160,000	5,400	8,900	5,400
Methylene Chloride	75-09-2	9,500	33,000	3,300	3,300
Naphthalene	91-20-3	1,500	230	NA	230
Nickel Carbonyl	13463-39-3	36,000	900,000	NA	36,000
Phosgene	75-44-5	3.2	NA	1,600	3.2
Propargyl Alcohol	107-19-7	9,300	NA	110,000	9,300
Propionaldehyde	123-38-6	790	NA	33,000	790
Propylene Oxide	75-56-9	3,400	330	78,000	330
Styrene	100-42-5	93,000	NA	870	870
Tetrachlorobenzene, 1,2,4,5-	95-94-3	140	NA	NA	140
Tetrachloroethane, 1,1,1,2-	630-20-6	140,000	230	680	230
Tetrachloroethane, 1,1,2,2-	79-34-5	93,000	71	1,900	71
Tetrachloroethylene	127-18-4	1,000	2,700	170	170
Toluene	108-88-3	140,000	NA	820	820
Trichloroethane, 1,1,1-	71-55-6	90,000	NA	640	640
Trichloroethane, 1,1,2-	79-00-5	19,000	130	2,200	130
Trichloroethylene	79-01-6	48	160	690	48

<u>Table III</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Trichlorofluoromethane	75-69-4	1,000,000	NA	1,200	1,200
Triethylamine	121-44-8	1,200	NA	28,000	1,200
Vinyl Acetate	108-05-4	9,700	NA	2,700	2,700
Vinyl Bromide	593-60-2	45	28	2,500	28
Vinyl Chloride	75-01-4	980	49	3,900	49
Xylenes	1330-20-7	6,300	NA	260	260
* = See paragraph (C)(3)(e) (C)(3)(a)(v) of rule 3745-300-08 of the Administrative Code.					

Table IV: Generic numerical direct-contact soil standards (construction activities category)

<u>Table IV</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Inorganics/Metals					
Aluminum Phosphide	20859-73-8	970	NA	NA	970
Antimony (metallic)	7440-36-0	970	NA	NA	970
Antimony Trioxide	1309-64-4	47,000	NA	NA	47,000
Arsenic, Inorganic	7440-38-2	760	1,400	NA	760
Barium	7440-39-3	350,000	NA	NA	350,000
Beryllium and Compounds	7440-41-7	3,500	71,000	NA	3,500

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Cadmium	7440-43-9	710	95,000	NA	710
Chlorine	7782-50-5	28	NA	2,800	28
Chromium(III)	16065-83-1	920,000	NA	NA	920,000
Chromium(VI)	18540-29-9	10,000	1,300	NA	1,300
Cobalt Compounds	7440-48-4	2,900	19,000	NA	2,900
Copper	7440-50-8	97,000	NA	NA	97,000
Disodium Phosphate	7558-79-4	1,000,000	NA	NA	1,000,000
Hydrogen Chloride	7647-01-0	1,000,000	NA	NA	1,000,000
Hydrogen Fluoride	7664-39-3	95,000	NA	NA	95,000
Hydrogen Sulfide	7783-06-4	72,000	NA	NA	72,000
Fluorine (Soluble Fluoride)	7782-41-4	140,000	NA	NA	140,000
Manganese Compounds	7439-96-5	12,000	NA	NA	12,000
Mercury and Compounds	7439-97-6	42	NA	3.1	3.1
Nickel Soluble Salts	7440-02-0	3,200	660,000	NA	3,200
Phosphine	7803-51-2	730	NA	NA	730
Selenium	7782-49-2	12,000	NA	NA	12,000
Selenious Acid	7783-00-8	12,000	NA	NA	12,000
Silver	7440-22-4	12,000	NA	NA	12,000
Sodium Azide	26628-22-8	9,700	NA	NA	9,700
Sodium Fluoride	7681-49-4	120,000	NA	NA	120,000
Sodium Fluoroacetate	62-74-8	32	NA	NA	32
Sodium tripolyphosphate	7758-29-4	1,000,000	NA	NA	1,000,000
Sulfuric Acid	7664-93-9	250,000	NA	NA	250,000
Titanium Tetrachloride	7550-45-0	1,000,000	NA	NA	1,000,000

<u>Table IV</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Trisodium Phosphate	7601-54-9	1,000,000	NA	NA	1,000,000
Vanadium Compounds	7440-62-2	12,000	NA	NA	12,000
Zinc and Compounds	7440-66-6	730,000	NA	NA	730,000
Zinc Phosphide	1314-84-7	7,300	NA	NA	7,300
Cyanides					
Calcium Cyanide	592-01-8	93,000	NA	NA	93,000
Copper Cyanide	544-92-3	120,000	NA	NA	120,000
Cyanide (CN-)	57-12-5	170	NA	950,000	170
Cyanogen	460-19-5	97,000	NA	NA	97,000
Cyanogen Bromide	506-68-3	220,000	NA	NA	220,000
Cyanogen Chloride	506-77-4	120,000	NA	NA	120,000
Hydrogen Cyanide	74-90-8	150	NA	1,000,000	150
Potassium Cyanide	151-50-8	120,000	NA	NA	120,000
Potassium Silver Cyanide	506-61-6	490,000	NA	NA	490,000
Silver Cyanide	506-64-9	240,000	NA	NA	240,000
Sodium Cyanide	143-33-9	120,000	NA	NA	120,000
Zinc Cyanide	557-21-1	120,000	NA	NA	120,000
Lead Compounds					
Lead Acetate	301-04-2	NA	5,300	NA	5,300
Lead and Compounds*	7439-92-1	NA	NA	NA	200
Lead Phosphate	7446-27-7	NA	200,000	NA	200,000
Lead Subacetate	1335-32-6	NA	29,000	NA	29,000
Tetraethyl Lead	78-00-2	0.24	NA	2.4	0.24
Semi-Volatile Organic Compounds (SVOCs)					

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Acenaphthene	83-32-9	290,000	NA	NA	290,000
Acetophenone	98-86-2	240,000	NA	2,500	2,500
Acetylaminofluorene, 2-	53-96-3	NA	290	NA	290
Acrylamide	79-06-1	1,600	2,200	NA	1,600
Alachlor	15972-60-8	16,000	20,000	NA	16,000
Aldicarb	116-06-3	1,600	NA	NA	1,600
Aldicarb Sulfone	1646-88-4	1,600	NA	NA	1,600
Aldrin	309-00-2	97	91	NA	91
Aminobiphenyl, 4-	92-67-1	NA	53	NA	53
Ammonium Sulfamate	7773-06-0	490,000	NA	NA	490,000
Aniline	62-53-3	11,000	200,000	NA	11,000
Anthracene	120-12-7	1,000,000	NA	NA	1,000,000
Aroclor 1016	12674-11-2	98	12,000	NA	98
Aroclor 1221	11104-28-2	NA	300	NA	300
Aroclor 1232	11141-16-5	NA	260	NA	260
Aroclor 1242	53469-21-9	NA	400	NA	400
Aroclor 1248	12672-29-6	NA	410	NA	410
Aroclor 1254	11097-69-1	42	440	NA	42
Aroclor 1260	11096-82-5	NA	450	NA	450
Atrazine	1912-24-9	4,800	4,800	NA	4,800
Auramine	492-80-8	NA	1,300	NA	1,300
Benomyl	17804-35-2	80,000	NA	NA	80,000
Benzenethiol	108-98-5	24,000	NA	1,300	1,300
Benzidine	92-87-5	4,800	4.8	NA	4.8

<u>Table IV</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Benz[a]anthracene	56-55-3	NA	9,600	NA	9,600
Benzo[a]pyrene	50-32-8	230	1,000	NA	230
Benzo[b]fluoranthene	205-99-2	NA	10,000	NA	10,000
Benzo[k]fluoranthene	207-08-9	NA	100,000	NA	100,000
Benzoic Acid	65-85-0	460,000	NA	NA	460,000
Biphenyl, 1,1'-	92-52-4	240,000	210,000	NA	210,000
Bis(2-chloroethoxy)methane	111-91-1	48,000	NA	NA	48,000
Bis(2-chloroethyl)ether	111-44-4	20,000	290	5,000	290
Bis(chloromethyl)ether	542-88-1	11	0.084	4,200	0.084
Bis(2-ethylhexyl)phthalate	117-81-7	160	79,000	NA	160
Butyl Benzyl Phthlate	85-68-7	1,000,000	590,000	NA	590,000
Cacodylic Acid	75-60-5	32,000	NA	NA	32,000
Captan	133-06-2	210,000	480,000	NA	210,000
Carbaryl	63-25-2	160,000	NA	NA	160,000
Carbofuran	1563-66-2	8,000	NA	NA	8,000
Carbosulfan	55285-14-8	16,000	NA	NA	16,000
Chloramben	133-90-4	24,000	NA	NA	24,000
Chlordane	12789-03-6	500	3,500	NA	500
Chlordecone (Kepone)	143-50-0	4,800	110	NA	110
Chloro-2-methylaniline HCl, 4-	3165-93-3	NA	2,400	NA	2,400
Chloroacetic Acid	79-11-8	5,600	NA	NA	5,600
Chloroacetophenone, 2-	532-27-4	7,400	NA	NA	7,400
Chloroaniline, p-	106-47-8	800	5,600	NA	800
Chlorobenzilate	510-15-6	32,000	10,000	NA	10,000

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chloronaphthalene, Beta-	91-58-7	290,000	NA	NA	290,000
Chlorophenol, 2-	95-57-8	19,000	NA	27,000	19,000
Chlorpyrifos	2921-88-2	4,800	NA	NA	4,800
Chrysene	218-01-9	NA	1,000,000	NA	1,000,000
Cresol, m-	108-39-4	630,000	NA	NA	630,000
Cresol, o-	95-48-7	320,000	NA	NA	320,000
Cresol, p-	106-44-5	32,000	NA	NA	32,000
Cresol, p-chloro-m-	59-50-7	160,000	NA	NA	160,000
Cresols	1319-77-3	160,000	NA	NA	160,000
DDD	72-54-8	800	4,600	NA	800
DDE, p,p'-	72-55-9	730	4,600	NA	730
DDT	50-29-3	1,100	4,300	NA	1,100
Diallate	2303-16-4	NA	18,000	NA	18,000
Diazinon	333-41-5	3,200	NA	NA	3,200
Dibenz[a,h]anthracene	53-70-3	NA	1,000	NA	1,000
Dibutyl Phthalate	84-74-2	1,000,000	NA	NA	1,000,000
Dicamba	1918-00-9	48,000	NA	NA	48,000
Dichlorobenzene, 1,2-	95-50-1	88,000	NA	380	380
Dichlorobenzene, 1,4-	106-46-7	39,000	2,600	NA	2,600
Dichlorobenzidine, 3,3'-	91-94-1	NA	2,200	NA	2,200
Dichlorophenol, 2,4-	120-83-2	32,000	NA	NA	32,000
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	380,000	NA	NA	380,000
Dichloropropionic acid, 2,2-	75-99-0	48,000	NA	NA	48,000
Dichlorvos	62-73-7	4,700	3,800	NA	3,800

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Dieldrin	60-57-1	160	69	NA	69
Diethanolamine	111-42-2	30,000	NA	NA	30,000
Diethyl Phthalate	84-66-2	1,000,000	NA	NA	1,000,000
Diethylstilbestrol	56-53-1	NA	3.2	NA	3.2
Dimethoate	60-51-5	320	NA	NA	320
Dimethoxybenzidine, 3,3'-	119-90-4	NA	700	NA	700
Dimethylamino azobenzene [p-]	60-11-7	NA	240	NA	240
Dimethylbenz(a)anthracene, 7,12-	57-97-6	NA	4	NA	4
Dimethylbenzidine, 3,3'-	119-93-7	NA	100	NA	100
Dimethylphenol, 2,4-	105-67-9	80,000	NA	NA	80,000
Dinitrobenzene, 1,2-	528-29-0	1,600	NA	NA	1,600
Dinitrobenzene, 1,3-	99-65-0	800	NA	NA	800
Dinitrobenzene, 1,4-	100-25-4	1,600	NA	NA	1,600
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	3,200	NA	NA	3,200
Dinitrophenol, 2,4-	51-28-5	32,000	NA	NA	32,000
Dinitrotoluene, 2,4-	121-14-2	11,000	3,600	NA	3,600
Dinitrotoluene, 2,6-	606-20-2	6,400	750	NA	750
Dinitrotoluene Mixture, 2,4/2,6	25321-14-6	NA	1,600	NA	1,600
Dinoseb	88-85-7	1,600	NA	NA	1,600
Diphenylhydrazine, 1,2-	122-66-7	80,000	1,400	NA	1,400
Diquat	2764-72-9	3,500	NA	NA	3,500
Disulfoton	298-04-4	140	NA	NA	140
Diuron	330-54-1	3,200	NA	NA	3,200
Endothall	145-73-3	32,000	NA	NA	32,000

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Endosulfan	115-29-7	12,000	NA	NA	12,000
Endrin	72-20-8	950	NA	NA	950
Epichlorohydrin	106-89-8	720	35,000	11,000	720
Ethion	563-12-2	3,200	NA	NA	3,200
Ethylene Glycol	107-21-1	1,000,000	NA	NA	1,000,000
Ethylene Thiourea	96-45-7	130	25,000	NA	130
Fluoranthene	206-44-0	140,000	NA	NA	140,000
Fluorene	86-73-7	1,200	NA	NA	1,200
Furan	110-00-9	24,000	NA	6,200	6,200
Furfural	98-01-1	42,000	NA	10,000	10,000
Glyphosate	1071-83-6	1,000,000	NA	NA	1,000,000
Guthion	86-50-0	4,800	NA	NA	4,800
Heptachlor	76-44-8	240	280	NA	240
Heptachlor Epoxide	1024-57-3	32	150	NA	32
Hexachlorobenzene	118-74-1	24	300	NA	24
Hexachlorobutadiene	87-68-3	2,400	1,300	17	17
Hexachlorocyclohexane, Alpha-	319-84-6	3,200	180	NA	180
Hexachlorocyclohexane, Beta-	319-85-7	950	620	NA	620
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	1.6	1,300	NA	1.6
Hexachlorocyclohexane, Technical	608-73-1	NA	620	NA	620
Hexachlorocyclopentadiene	77-47-4	3,700	NA	16	16
Hexachloroethane	67-72-1	24,000	2,000	NA	2,000
Hexachlorophene	70-30-4	4,800	NA	NA	4,800

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Hexamethylene Diisocyanate, 1,6-	822-06-0	250	NA	3,400	250
Hexamethylphosphoramide	680-31-9	6,400	NA	NA	6,400
Hexanedioic Acid	124-04-9	1,000,000	NA	NA	1,000,000
Hydroquinone	123-31-9	640,000	19,000	NA	19,000
Indeno[1,2,3-cd]pyrene	193-39-5	NA	10,000	NA	10,000
Isophorone	78-59-1	1,000,000	1,000,000	NA	1,000,000
Malathion	121-75-5	32,000	NA	NA	32,000
Maleic Anhydride	108-31-6	83,000	NA	NA	83,000
Maleic Hydrazide	123-33-1	800,000	NA	NA	800,000
Malononitrile	109-77-3	1,600	NA	NA	1,600
Methomyl	16752-77-5	40,000	NA	NA	40,000
Methoxychlor	72-43-5	8,000	NA	NA	8,000
Methyl Parathion	298-00-0	1,100	NA	NA	1,100
Methylaniline Hydrochloride, 2-	636-21-5	NA	8,600	NA	8,600
Methylcholanthrene, 3-	56-49-5	NA	51	NA	51
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	3,200	11,000	NA	3,200
Methylenebisbenzenamine, 4,4'-	101-77-9	1,000,000	690	NA	690
Methylenediphenyl Diisocyanate	101-68-8	4,900	NA	NA	4,900
Methylnaphthalene, 1-	90-12-0	7.1	NA	390	7.1
Methylnaphthalene, 2-	91-57-6	5,800	NA	NA	5,800
Methyl-N-nitro-N-nitrosoguanidine, N-Naled	70-25-7	NA	130	NA	130
	300-76-5	4,900	NA	NA	4,900
Naphthylamine, 2-	91-59-8	NA	620	NA	620
Nitroaniline, 4-	100-01-6	16,000	56,000	NA	16,000

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Nitrobenzene	98-95-3	4,100	5,100	3,000	3,000
Nitroglycerin	55-63-0	160	66,000	NA	160
Nitropropane, 2-	79-46-9	3,700	NA	4,900	3,700
Nitrosodiethanolamine, N-	1116-54-7	NA	400	NA	400
Nitrosodiethylamine, N-	55-18-5	NA	7.4	NA	7.4
Nitrosodimethylamine, N-	62-75-9	19	11	240,000	11
Nitroso-di-N-butylamine, N-	924-16-3	NA	180	NA	180
Nitroso-di-N-propylamine, N-	621-64-7	NA	160	NA	160
Nitrosodiphenylamine, N-	86-30-6	NA	230,000	NA	230,000
Nitrosomorpholine [N-]	59-89-2	NA	170	NA	170
Nitroso-N-ethylurea, N-	759-73-9	NA	41	NA	41
Nitroso-N-methylurea, N-	684-93-5	NA	9.3	NA	9.3
Nitrosopiperidine [N-]	100-75-4	NA	120	NA	120
Nitrosopyrrolidine, N-	930-55-2	NA	530	NA	530
Nitrotoluene, o-	88-72-2	24,000	7,700	1,500	1,500
Nitrotoluene, p-	99-99-0	6,400	70,000	NA	6,400
Octamethylpyrophosphoramidate	152-16-9	3,200	NA	NA	3,200
Octyl Phthalate, di-N-	117-84-0	160,000	NA	NA	160,000
Oxamyl	23135-22-0	40,000	NA	NA	40,000
Parathion	56-38-2	3,700	NA	NA	3,700
Pentachlorobenzene	608-93-5	19,000	NA	NA	19,000
Pentachloroethane	76-01-7	NA	19,000	460	460
Pentachloronitrobenzene	82-68-8	4,800	4,300	NA	4,300
Pentachlorophenol	87-86-5	31,000	1,800	NA	1,800

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Phenacetin	62-44-2	NA	510,000	NA	510,000
Phenol	108-95-2	940,000	NA	NA	940,000
Phenylmercuric Acetate	62-38-4	130	NA	NA	130
Phorate	298-02-2	320	NA	NA	320
Phosphoric Acid	7664-38-2	1,000,000	NA	NA	1,000,000
Phthalic Anhydride	85-44-9	1,000,000	NA	NA	1,000,000
Picloram	1918-02-1	110,000	NA	NA	110,000
Polychlorinated Biphenyls, Total	1336-36-3	NA	410	NA	410
Pronamide	23950-58-5	120,000	NA	NA	120,000
Propargite	2312-35-8	64,000	5,900	NA	5,900
Propham	122-42-9	32,000	NA	NA	32,000
Propoxur (Baygon)	114-26-1	6,400	NA	NA	6,400
Pyrene	129-00-0	430,000	NA	NA	430,000
Pyridine	110-86-1	24,000	NA	530,000	24,000
Quinoline	91-22-5	NA	370	NA	370
Safrole	94-59-7	NA	5,100	NA	5,100
Simazine	122-34-9	8,000	9,300	NA	8,000
Strychnine	57-24-9	4,800	NA	NA	4,800
TCDD, 2,3,7,8-	1746-01-6	0.037	0.01	NA	0.01
Tetrachlorophenol, 2,3,4,6-	58-90-2	16,000	NA	NA	16,000
Tetraethyl Dithiopyrophosphate	3689-24-5	8,000	NA	NA	8,000
Tetrahydrofuran	109-99-9	92,000	NA	170,000	92,000
Thiofanox	39196-18-4	480	NA	NA	480
Thiophanate, Methyl	23564-05-8	250,000	93,000	NA	93,000

<u>Table IV</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Thiram	137-26-8	9,500	NA	NA	9,500
Toluene-2,4-diisocyanate	584-84-9	1	6,900	NA	1
Toluene-2,6-diisocyanate	91-08-7	20	34,000	1,700	20
Toluidine, p-	106-49-0	NA	37,000	NA	37,000
Toxaphene	8001-35-2	480	1,000	NA	480
Triallate	2303-17-5	32,000	24,000	NA	24,000
Trichlorobenzene, 1,2,4-	120-82-1	2,400	59,000	400	400
Trichlorophenol, 2,4,5-	95-95-4	480,000	NA	NA	480,000
Trichlorophenol, 2,4,6-	88-06-2	8,000	100,000	NA	8,000
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	160,000	NA	NA	160,000
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	13,000	NA	NA	13,000
Trifluralin	1582-09-8	18,000	220,000	NA	18,000
Trimethylbenzene, 1,2,3-	526-73-8	7,000	NA	290	290
Trimethylbenzene, 1,2,4-	95-63-6	6,000	NA	220	220
Trimethylbenzene, 1,3,5-	108-67-8	5,000	NA	180	180
Trinitrobenzene, 1,3,5-	99-35-4	1,100	NA	NA	1,100
Urethane	51-79-6	NA	1,100	NA	1,100
Warfarin	81-81-2	480	NA	NA	480
Volatile Organic Compounds (VOCs)					
Acetaldehyde	75-07-0	320	11,000	110,000	320
Acetone	67-64-1	1,000,000	NA	110,000	110,000
Acetonitrile	75-05-8	22,000	NA	130,000	22,000
Acrolein	107-02-8	2.5	NA	23,000	2.5
Acrylic Acid	79-10-7	76	NA	110,000	76

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Acrylonitrile	107-13-1	62	290	11,000	62
Allyl Alcohol	107-18-6	140	NA	110,000	140
Allyl Chloride	107-05-1	64	740	1,400	64
Benzene	71-43-2	1,100	1,200	1,800	1,100
Benzotrichloride	98-07-7	120	130	320	120
Benzyl Chloride	100-44-7	380	1,300	1,500	380
Bis(2-chloro-1-methylethyl) Ether	108-60-1	97,000	NA	1,000	1,000
Bromodichloromethane	75-27-4	310	300	930	300
Bromoform	75-25-2	73,000	22,000	910	910
Bromomethane	74-83-9	540	NA	3,600	540
Butadiene, 1,3-	106-99-0	7	79	670	7
Butanol, N-	71-36-3	1,000,000	NA	7,600	7,600
Butylbenzene, n-	104-51-8	240,000	NA	110	110
Carbon Disulfide	75-15-0	3,200	NA	740	740
Carbon Tetrachloride	56-23-5	1,100	680	460	460
Carbonyl Sulfide	463-58-1	2,600	NA	5,900	2,600
Chlorobenzene	108-90-7	12,000	NA	760	760
Chloro-1,3-butadiene, 2-	126-99-8	300	10	790	10
Chloroform	67-66-3	2,500	320	2,500	320
Chloromethane	74-87-3	14,000	NA	1,300	1,300
Chloromethyl Methyl Ether	107-30-2	NA	21	9,300	21
Crotonaldehyde, trans-	123-73-9	24,000	900	17,000	900
Cumene	98-82-8	2,200	NA	270	270
Cyclohexane	110-82-7	75,000	NA	120	120

<u>Table IV</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Cyclohexanone	108-94-1	940,000	NA	5,100	5,100
Dibromo-3-chloropropane, 1,2-	96-12-8	240	15	980	15
Dibromochloromethane	124-48-1	170,000	20,000	800	800
Dibromoethane, 1,2-	106-93-4	69	39	1,300	39
Dichloro-2-butene, 1,4-	764-41-0	NA	2.1	550	2.1
Dichlorodifluoromethane	75-71-8	3,300	NA	850	850
Dichloroethane, 1,1-	75-34-3	1,000,000	3,600	1,700	1,700
Dichloroethane, 1,2-	107-06-2	1,300	480	3,000	480
Dichloroethylene, 1,1-	75-35-4	19	NA	1,200	19
Dichloroethylene, 1,2-cis-	156-59-2	49,000	NA	2,400	2,400
Dichloroethylene, 1,2-trans-	156-60-5	49,000	NA	1,900	1,900
Dichloropropane, 1,2-	78-87-5	140	2,700	1,400	140
Dichloropropane, 1,3-	142-28-9	490,000	NA	1,500	1,500
Dichloropropene, 1,3-	542-75-6	520	2,200	1,600	520
Dihydrosafrole	94-58-6	NA	16,000	NA	16,000
Dimethylaniline, N,N-	121-69-7	4,900	63,000	830	830
Dimethylformamide	68-12-2	34,000	NA	110,000	34,000
Dimethylhydrazine, 1,2-	540-73-8	1,900	1.5	190,000	1.5
Dioxane, 1,4-	123-91-1	100,000	9,700	120,000	9,700
Epoxybutane, 1,2-	106-88-7	620	NA	15,000	620
Ethoxyethanol, 2-	110-80-5	15,000	NA	110,000	15,000
Ethyl Acetate	141-78-6	24,000	NA	11,000	11,000
Ethyl Acrylate	140-88-5	200	NA	2,500	200
Ethyl Chloride (Chloroethane)	75-00-3	19,000	NA	2,100	2,100

<u>Table IV</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Ethyl Ether	60-29-7	37,000	NA	10,000	10,000
Ethyl Methacrylate	97-63-2	18,000	NA	1,100	1,100
Ethylbenzene	100-41-4	76,000	6,100	480	480
Ethylene Diamine	107-15-3	490,000	NA	190,000	190,000
Ethylene Oxide	75-21-8	3,200	5.7	120,000	5.7
Ethyleneimine	151-56-4	NA	3.1	150,000	3.1
Formaldehyde	50-00-0	11,000	14,000	42,000	11,000
Formic Acid	64-18-6	340	NA	110,000	340
Glycidaldehyde	765-34-4	760	NA	110,000	760
Hexane, N-	110-54-3	6,600	NA	140	140
Hydrazine	302-01-2	24	35	110,000	24
Isobutyl Alcohol	78-83-1	1,000,000	NA	10,000	10,000
Methacrylonitrile	126-98-7	7,700	NA	4,600	4,600
Methanol	67-56-1	1,000,000	NA	110,000	110,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	48,000	NA	28,000	28,000
Methyl Hydrazine	60-34-4	2,400	NA	180,000	2,400
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	33,000	NA	3,400	3,400
Methyl Isocyanate	624-83-9	18	NA	10,000	18
Methyl Methacrylate	80-62-6	16,000	NA	2,400	2,400
Methyl tert-Butyl Ether (MTBE)	1634-04-4	66,000	50,000	8,900	8,900
Methylene Chloride	75-09-2	8,600	360,000	3,300	3,300
Naphthalene	91-20-3	560	2,600	NA	560
Nickel Carbonyl	13463-39-3	3,000	660,000	NA	3,000

<u>Table IV</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (mg/kg)	Standard for a Single Chemical Carcinogen (mg/kg)	Soil Saturation (mg/kg)	Generic Direct-Contact Soil Standard for a Single Chemical (mg/kg)
Chemical of Concern					
Phosgene	75-44-5	1.2	NA	1,600	1.2
Propargyl Alcohol	107-19-7	4,900	NA	110,000	4,900
Propionaldehyde	123-38-6	290	NA	33,000	290
Propylene Oxide	75-56-9	1,200	3,700	78,000	1,200
Styrene	100-42-5	91,000	NA	870	870
Tetrachlorobenzene, 1,2,4,5-	95-94-3	73	NA	NA	73
Tetrachloroethane, 1,1,1,2-	630-20-6	220,000	2,100	680	680
Tetrachloroethane, 1,1,2,2-	79-34-5	120,000	670	1,900	670
Tetrachloroethylene	127-18-4	380	25,000	170	170
Toluene	108-88-3	82,000	NA	820	820
Trichloroethane, 1,1,1-	71-55-6	33,000	NA	640	640
Trichloroethane, 1,1,2-	79-00-5	310	1,200	2,200	310
Trichloroethylene	79-01-6	19	1,500	690	19
Trichlorofluoromethane	75-69-4	4,100	NA	1,200	1,200
Triethylamine	121-44-8	440	NA	28,000	440
Vinyl Acetate	108-05-4	3,500	NA	2,700	2,700
Vinyl Bromide	593-60-2	1,600	260	2,500	260
Vinyl Chloride	75-01-4	190	490	3,900	190
Xylenes	1330-20-7	9,100	NA	260	260
* = See paragraph (C)(3)(a)(v) of rule 3745-300-08 of the Administrative Code.					

Table V: Generic indoor air standards due to vapor intrusion (residential land use category)

<u>Table V</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Inorganics/Metals				
Hydrogen Sulfide	7783-06-4	2.1	NA	2.1
Mercury and Compounds	7439-97-6	0.31	NA	0.31
Semi-Volatile Organic Compounds (SVOCs)				
Bis(2-chloroethyl)ether	111-44-4	NA	0.085	0.085
Bis(chloromethyl)ether	542-88-1	NA	0.00045	0.00045
Dichlorobenzene, 1,2-	95-50-1	210	NA	210
Dichlorobenzene, 1,4-	106-46-7	830	2.6	2.6
Epichlorohydrin	106-89-8	1	23	1
Hexachlorobutadiene	87-68-3	NA	1.3	1.3
Hexachloroethane	67-72-1	31	2.6	2.6
Nitrobenzene	98-95-3	9.4	0.7	0.7
Nitropropane, 2-	79-46-9	21	NA	21
Nitrosodimethylamine, N-	62-75-9	NA	0.00072	0.00072
Tetrahydrofuran	109-99-9	2,100	NA	2,100
Trichlorobenzene, 1,2,4-	120-82-1	2.1	NA	2.1
Trimethylbenzene, 1,2,3-	526-73-8	63	NA	63
Trimethylbenzene, 1,2,4-	95-63-6	63	NA	63
Trimethylbenzene, 1,3,5-	108-67-8	63	NA	63

<u>Table V</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Chemical of Concern				
Volatile Organic Compounds (VOCs)				
Acetaldehyde	75-07-0	9.4	13	9.4
Acetonitrile	75-05-8	63	NA	63
Acrolein	107-02-8	0.021	NA	0.021
Acrylic Acid	79-10-7	0.21	NA	0.21
Acrylonitrile	107-13-1	2.1	0.41	0.41
Allyl Chloride	107-05-1	1	4.7	1
Benzene	71-43-2	31	3.6	3.6
Benzyl Chloride	100-44-7	1	0.57	0.57
Bromodichloromethane	75-27-4	NA	0.76	0.76
Bromoform	75-25-2	NA	26	26
Bromomethane	74-83-9	5.2	NA	5.2
Butadiene, 1,3-	106-99-0	2.1	0.94	0.94
Carbon Disulfide	75-15-0	730	NA	730
Carbon Tetrachloride	56-23-5	100	4.7	4.7
Carbonyl Sulfide	463-58-1	100	NA	100
Chlorobenzene	108-90-7	52	NA	52
Chloro-1,3-butadiene, 2-	126-99-8	21	0.094	0.094
Chloroform	67-66-3	100	1.2	1.2
Chloromethane	74-87-3	94	NA	94
Chloromethyl Methyl Ether	107-30-2	NA	0.041	0.041
Cumene	98-82-8	420	NA	420
Cyclohexane	110-82-7	6,300	NA	6,300
Dibromo-3-chloropropane, 1,2-	96-12-8	0.21	0.0017	0.0017

<u>Table V</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Dibromoethane, 1,2-	106-93-4	9.4	0.047	0.047
Dichloroethane, 1,1-	75-34-3	NA	18	18
Dichloroethane, 1,2-	107-06-2	7.3	1.1	1.1
Dichloroethylene, 1,1-	75-35-4	210	NA	210
Dichloropropane, 1,2-	78-87-5	4.2	7.6	4.2
Dichloropropene, 1,3-	542-75-6	21	7	7
Dihydrosafrole	94-58-6	NA	2.2	2.2
Dimethylformamide	68-12-2	31	NA	31
Dioxane, 1,4-	123-91-1	31	5.6	5.6
Epoxybutane, 1,2-	106-88-7	21	NA	21
Ethyl Acetate	141-78-6	73	NA	73
Ethyl Acrylate	140-88-5	8.3	NA	8.3
Ethyl Chloride (Chloroethane)	75-00-3	4,200	NA	4,200
Ethylbenzene	100-41-4	1,000	11	11
Ethylene Oxide	75-21-8	31	0.0034	0.0034
Ethyleneimine	151-56-4	NA	0.0015	0.0015
Formaldehyde	50-00-0	10	2.2	2.2
Hexane, N-	110-54-3	730	NA	730
Methanol	67-56-1	21,000	NA	21,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5,200	NA	5,200
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	3,100	NA	3,100
Methyl Isocyanate	624-83-9	1	NA	1
Methyl Methacrylate	80-62-6	730	NA	730

<u>Table V</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Methyl tert-Butyl Ether (MTBE)	1634-04-4	3,100	110	110
Methylene Chloride	75-09-2	630	1,000	630
Naphthalene	91-20-3	3.1	0.83	0.83
Phosgene	75-44-5	0.31	NA	0.31
Propionaldehyde	123-38-6	8.3	NA	8.3
Propylene Oxide	75-56-9	31	7.6	7.6
Styrene	100-42-5	1,000	NA	1,000
Tetrachloroethane, 1,1,1,2-	630-20-6	NA	3.8	3.8
Tetrachloroethane, 1,1,2,2-	79-34-5	NA	0.48	0.48
Tetrachloroethylene	127-18-4	42	110	42
Toluene	108-88-3	5,200	NA	5,200
Trichloroethane, 1,1,1-	71-55-6	5,200	NA	5,200
Trichloroethane, 1,1,2-	79-00-5	NA	1.8	1.8
Trichloroethylene	79-01-6	2.1	4.8	2.1
Triethylamine	121-44-8	7.3	NA	7.3
Vinyl Acetate	108-05-4	210	NA	210
Vinyl Bromide	593-60-2	3.1	1.9	1.9
Vinyl Chloride	75-01-4	100	1.7	1.7
Xylenes	1330-20-7	100	NA	100

Table VI: Generic indoor air standards due to vapor intrusion (commercial land use with high frequency child exposure)

Table VI Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Inorganics/Metals				
Hydrogen Sulfide	7783-06-4	7	NA	7
Mercury and Compounds	7439-97-6	1.1	NA	1.1
Semi-Volatile Organic Compounds (SVOCs)				
Bis(2-chloroethyl)ether	111-44-4	NA	0.37	0.37
Bis(chloromethyl)ether	542-88-1	NA	0.002	0.002
Dichlorobenzene, 1,2-	95-50-1	700	NA	700
Dichlorobenzene, 1,4-	106-46-7	2,800	11	11
Epichlorohydrin	106-89-8	3.5	100	3.5
Hexachlorobutadiene	87-68-3	NA	5.6	5.6
Hexachloroethane	67-72-1	110	11	11
Nitrobenzene	98-95-3	32	3.1	3.1
Nitropropane, 2-	79-46-9	70	NA	70
Nitrosodimethylamine, N-	62-75-9	NA	0.0055	0.0055
Tetrahydrofuran	109-99-9	7,000	NA	7,000
Trichlorobenzene, 1,2,4-	120-82-1	7	NA	7
Trimethylbenzene, 1,2,3-	526-73-8	210	NA	210
Trimethylbenzene, 1,2,4-	95-63-6	210	NA	210
Trimethylbenzene, 1,3,5-	108-67-8	210	NA	210

<u>Table VI</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Chemical of Concern				
Volatile Organic Compounds (VOCs)				
Acetaldehyde	75-07-0	32	56	32
Acetonitrile	75-05-8	210	NA	210
Acrolein	107-02-8	0.07	NA	0.07
Acrylic Acid	79-10-7	0.7	NA	0.7
Acrylonitrile	107-13-1	7	1.8	1.8
Allyl Chloride	107-05-1	3.5	20	3.5
Benzene	71-43-2	110	16	16
Benzyl Chloride	100-44-7	3.5	2.5	2.5
Bromodichloromethane	75-27-4	NA	3.3	3.3
Bromoform	75-25-2	NA	110	110
Bromomethane	74-83-9	18	NA	18
Butadiene, 1,3-	106-99-0	7	4.1	4.1
Carbon Disulfide	75-15-0	2,500	NA	2,500
Carbon Tetrachloride	56-23-5	350	20	20
Carbonyl Sulfide	463-58-1	350	NA	350
Chlorobenzene	108-90-7	180	NA	180
Chloro-1,3-butadiene, 2-	126-99-8	70	0.41	0.41
Chloroform	67-66-3	340	5.3	5.3
Chloromethane	74-87-3	320	NA	320
Chloromethyl Methyl Ether	107-30-2	NA	0.18	0.18
Cumene	98-82-8	1,400	NA	1,400
Cyclohexane	110-82-7	21,000	NA	21,000
Dibromo-3-chloropropane, 1,2-	96-12-8	0.7	0.013	0.013

<u>Table VI</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Chemical of Concern				
Dibromoethane, 1,2-	106-93-4	32	0.2	0.2
Dichloroethane, 1,1-	75-34-3	NA	77	77
Dichloroethane, 1,2-	107-06-2	25	4.7	4.7
Dichloroethylene, 1,1-	75-35-4	700	NA	700
Dichloropropane, 1,2-	78-87-5	14	33	14
Dichloropropene, 1,3-	542-75-6	70	31	31
Dihydrosafrole	94-58-6	NA	9.4	9.4
Dimethylformamide	68-12-2	110	NA	110
Dioxane, 1,4-	123-91-1	110	25	25
Epoxybutane, 1,2-	106-88-7	70	NA	70
Ethyl Acetate	141-78-6	250	NA	250
Ethyl Acrylate	140-88-5	28	NA	28
Ethyl Chloride (Chloroethane)	75-00-3	14,000	NA	14,000
Ethylbenzene	100-41-4	3,500	49	49
Ethylene Oxide	75-21-8	110	0.026	0.026
Ethyleneimine	151-56-4	NA	0.0065	0.0065
Formaldehyde	50-00-0	34	9.4	9.4
Hexane, N-	110-54-3	2,500	NA	2,500
Methanol	67-56-1	70,000	NA	70,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	18,000	NA	18,000
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	11,000	NA	11,000
Methyl Isocyanate	624-83-9	3.5	NA	3.5
Methyl Methacrylate	80-62-6	2,500	NA	2,500

<u>Table VI</u> Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Methyl tert-Butyl Ether (MTBE)	1634-04-4	11,000	470	470
Methylene Chloride	75-09-2	2,100	7,700	2,100
Naphthalene	91-20-3	11	3.6	3.6
Phosgene	75-44-5	1.1	NA	1.1
Propionaldehyde	123-38-6	28	NA	28
Propylene Oxide	75-56-9	110	33	33
Styrene	100-42-5	3,500	NA	3,500
Tetrachloroethane, 1,1,1,2-	630-20-6	NA	17	17
Tetrachloroethane, 1,1,2,2-	79-34-5	NA	2.1	2.1
Tetrachloroethylene	127-18-4	140	470	140
Toluene	108-88-3	18,000	NA	18,000
Trichloroethane, 1,1,1-	71-55-6	18,000	NA	18,000
Trichloroethane, 1,1,2-	79-00-5	NA	7.7	7.7
Trichloroethylene	79-01-6	7	30	7
Triethylamine	121-44-8	25	NA	25
Vinyl Acetate	108-05-4	700	NA	700
Vinyl Bromide	593-60-2	11	8.2	8.2
Vinyl Chloride	75-01-4	350	2.2	2.2
Xylenes	1330-20-7	350	NA	350

Table VII: Generic indoor air standards due to vapor intrusion (commercial or industrial land use category)

Table VII Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Inorganics/Metals				
Hydrogen Sulfide	7783-06-4	8.8	NA	8.8
Mercury and Compounds	7439-97-6	1.3	NA	1.3
Semi-Volatile Organic Compounds (SVOCs)				
Bis(2-chloroethyl)ether	111-44-4	NA	0.37	0.37
Bis(chloromethyl)ether	542-88-1	NA	0.002	0.002
Dichlorobenzene, 1,2-	95-50-1	880	NA	880
Dichlorobenzene, 1,4-	106-46-7	3,500	11	11
Epichlorohydrin	106-89-8	4.4	100	4.4
Hexachlorobutadiene	87-68-3	NA	5.6	5.6
Hexachloroethane	67-72-1	130	11	11
Nitrobenzene	98-95-3	39	3.1	3.1
Nitropropane, 2-	79-46-9	88	NA	88
Nitrosodimethylamine, N-	62-75-9	NA	0.0088	0.0088
Tetrahydrofuran	109-99-9	8,800	NA	8,800
Trichlorobenzene, 1,2,4-	120-82-1	8.8	NA	8.8
Trimethylbenzene, 1,2,3-	526-73-8	260	NA	260
Trimethylbenzene, 1,2,4-	95-63-6	260	NA	260
Trimethylbenzene, 1,3,5-	108-67-8	260	NA	260

<u>Table VII</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Chemical of Concern				
Volatile Organic Compounds (VOCs)				
Acetaldehyde	75-07-0	39	56	39
Acetonitrile	75-05-8	260	NA	260
Acrolein	107-02-8	0.088	NA	0.088
Acrylic Acid	79-10-7	0.88	NA	0.88
Acrylonitrile	107-13-1	8.8	1.8	1.8
Allyl Chloride	107-05-1	4.4	20	4.4
Benzene	71-43-2	130	16	16
Benzyl Chloride	100-44-7	4.4	2.5	2.5
Bromodichloromethane	75-27-4	NA	3.3	3.3
Bromoform	75-25-2	NA	110	110
Bromomethane	74-83-9	22	NA	22
Butadiene, 1,3-	106-99-0	8.8	4.1	4.1
Carbon Disulfide	75-15-0	3,100	NA	3,100
Carbon Tetrachloride	56-23-5	440	20	20
Carbonyl Sulfide	463-58-1	440	NA	440
Chlorobenzene	108-90-7	220	NA	220
Chloro-1,3-butadiene, 2-	126-99-8	88	0.41	0.41
Chloroform	67-66-3	430	5.3	5.3
Chloromethane	74-87-3	390	NA	390
Chloromethyl Methyl Ether	107-30-2	NA	0.18	0.18
Cumene	98-82-8	1,800	NA	1,800
Cyclohexane	110-82-7	26,000	NA	26,000
Dibromo-3-chloropropane, 1,2-	96-12-8	0.88	0.02	0.02

Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g} / \text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g} / \text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g} / \text{m}^3$)
Dibromoethane, 1,2-	106-93-4	39	0.2	0.2
Dichloroethane, 1,1-	75-34-3	NA	77	77
Dichloroethane, 1,2-	107-06-2	31	4.7	4.7
Dichloroethylene, 1,1-	75-35-4	880	NA	880
Dichloropropane, 1,2-	78-87-5	18	33	18
Dichloropropene, 1,3-	542-75-6	88	31	31
Dihydrosafrole	94-58-6	NA	9.4	9.4
Dimethylformamide	68-12-2	130	NA	130
Dioxane, 1,4-	123-91-1	130	25	25
Epoxybutane, 1,2-	106-88-7	88	NA	88
Ethyl Acetate	141-78-6	310	NA	310
Ethyl Acrylate	140-88-5	35	NA	35
Ethyl Chloride (Chloroethane)	75-00-3	18,000	NA	18,000
Ethylbenzene	100-41-4	4,400	49	49
Ethylene Oxide	75-21-8	130	0.041	0.041
Ethyleneimine	151-56-4	NA	0.0065	0.0065
Formaldehyde	50-00-0	43	9.4	9.4
Hexane, N-	110-54-3	3,100	NA	3,100
Methanol	67-56-1	88,000	NA	88,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	22,000	NA	22,000
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	13,000	NA	13,000
Methyl Isocyanate	624-83-9	4.4	NA	4.4
Methyl Methacrylate	80-62-6	3,100	NA	3,100

Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen ($\mu\text{g}/\text{m}^3$)	Standard for a Single Chemical Carcinogen ($\mu\text{g}/\text{m}^3$)	Generic Indoor Air Standards Due to Vapor Intrusion for a Single Chemical ($\mu\text{g}/\text{m}^3$)
Methyl tert-Butyl Ether (MTBE)	1634-04-4	13,000	470	470
Methylene Chloride	75-09-2	2,600	12,000	2,600
Naphthalene	91-20-3	13	3.6	3.6
Phosgene	75-44-5	1.3	NA	1.3
Propionaldehyde	123-38-6	35	NA	35
Propylene Oxide	75-56-9	130	33	33
Styrene	100-42-5	4,400	NA	4,400
Tetrachloroethane, 1,1,1,2-	630-20-6	NA	17	17
Tetrachloroethane, 1,1,2,2-	79-34-5	NA	2.1	2.1
Tetrachloroethylene	127-18-4	180	470	180
Toluene	108-88-3	22,000	NA	22,000
Trichloroethane, 1,1,1-	71-55-6	22,000	NA	22,000
Trichloroethane, 1,1,2-	79-00-5	NA	7.7	7.7
Trichloroethylene	79-01-6	8.8	30	8.8
Triethylamine	121-44-8	31	NA	31
Vinyl Acetate	108-05-4	880	NA	880
Vinyl Bromide	593-60-2	13	8.2	8.2
Vinyl Chloride	75-01-4	440	28	28
Xylenes	1330-20-7	440	NA	440

Table VIII: Generic unrestricted potable use standards based on maximum contaminant levels or other established regulatory criteria

<u>Table VIII</u>	Chemical Abstract Service Number (CAS #)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern		
Inorganics/metals		
Antimony (metallic)	7440-36-0	6
Arsenic, Inorganic	7440-38-2	10
Asbestos (fiber >10 micrometers)	1332-21-4	7 MFL (a)
Barium	7440-39-3	2,000
Beryllium and Compounds	7440-41-7	4
Cadmium	7440-43-9	5
Chromium, Total	7440-47-3	100
Copper	7440-50-8	1,300
Fluorine (Soluble Fluoride)	7782-41-4	4,000
Mercury and Compounds	7439-97-6	2
Selenium	7782-49-2	50
Thallium (Soluble Salts)	7440-28-0	2
Cyanides		
Cyanide (CN-)	57-12-5	200
Sodium Cyanide	143-33-9	200
Lead Compounds		
Lead and Compounds	7439-92-1	15
Semi-Volatile Organic Compounds (SVOCs)		

<u>Table VIII</u>	Chemical Abstract Service Number (CAS #)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern		
Alachlor	15972-60-8	2
Aldicarb	116-06-3	3
Aldicarb Sulfone	1646-88-4	2
Atrazine	1912-24-9	3
Benzo[a]pyrene	50-32-8	0.2
Bis(2-ethylhexyl)phthalate	117-81-7	6
Carbofuran	1563-66-2	40
Chlordane	12789-03-6	2
Chloroacetic Acid	79-11-8	60
Dichlorobenzene, 1,2-	95-50-1	600
Dichlorobenzene, 1,4-	106-46-7	75
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	70
Dichloropropionic acid, 2,2-	75-99-0	200
Dinoseb	88-85-7	7
Diquat	2764-72-9	20
Endothall	145-73-3	100
Endrin	72-20-8	2
Glyphosate	1071-83-6	700
Heptachlor	76-44-8	0.4
Heptachlor Epoxide	1024-57-3	0.2
Hexachlorobenzene	118-74-1	1
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	0.2
Hexachlorocyclopentadiene	77-47-4	50
Methoxychlor	72-43-5	40
Oxamyl	23135-22-0	200

<u>Table VIII</u>	Chemical Abstract Service Number (CAS #)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern		
Pentachlorophenol	87-86-5	1
Picloram	1918-02-1	500
Polychlorinated Biphenyls, Total	1336-36-3	0.5
Simazine	122-34-9	4
TCDD, 2,3,7,8-	1746-01-6	0.00003
Toxaphene	8001-35-2	3
Trichlorobenzene, 1,2,4-	120-82-1	70
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	50
Volatile Organic Compounds (VOCs)		
Benzene	71-43-2	5
Bromodichloromethane	75-27-4	80 (b)
Bromoform	75-25-2	80 (b)
Carbon Tetrachloride	56-23-5	5
Chlorobenzene	108-90-7	100
Chloroform	67-66-3	80 (b)
Dibromo-3-chloropropane, 1,2-	96-12-8	0.2
Dibromochloromethane	124-48-1	80 (b)
Dibromoethane, 1,2-	106-93-4	0.05
Dichloroethane, 1,2-	107-06-2	5
Dichloroethylene, 1,1-	75-35-4	7
Dichloroethylene, 1,2-cis-	156-59-2	70
Dichloroethylene, 1,2-trans-	156-60-5	100
Dichloropropane, 1,2-	78-87-5	5
Ethylbenzene	100-41-4	700
Methylene Chloride	75-09-2	5

<u>Table VIII</u>	Chemical Abstract Service Number (CAS #)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern		
Styrene	100-42-5	100
Tetrachloroethylene	127-18-4	5
Toluene	108-88-3	1,000
Trichloroethane, 1,1,1-	71-55-6	200
Trichloroethane, 1,1,2-	79-00-5	5
Trichloroethylene	79-01-6	5
Vinyl Chloride	75-01-4	2
Xylenes	1330-20-7	10,000
(a) MFL = million fibers per liter (b) MCL is for Total Trihalomethane		

Table IX: Risk-based generic unrestricted potable use standards

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Inorganics/metals				
Aluminum Phosphide	20859-73-8	8	NA	8
Antimony Trioxide	1309-64-4	NA	NA	NA
Chlorine	7782-50-5	0.31	NA	0.31
Cobalt Compounds	7440-48-4	6	NA	6

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Disodium Phosphate	7558-79-4	20,000	NA	20,000
Hydrogen Chloride	7647-01-0	42	NA	42
Hydrogen Fluoride	7664-39-3	28	NA	28
Hydrogen Sulfide	7783-06-4	4.2	NA	4.2
Manganese Compounds	7439-96-5	430	NA	430
Nickel Soluble Salts	7440-02-0	390	NA	390
Phosphine	7803-51-2	0.57	NA	0.57
Selenious Acid	7783-00-8	100	NA	100
Silver	7440-22-4	94	NA	94
Sodium Azide	26628-22-8	80	NA	80
Sodium Fluoride	7681-49-4	1,000	NA	1,000
Sodium Fluoroacetate	62-74-8	0.4	NA	0.4
Sodium tripolyphosphate	7758-29-4	20,000	NA	20,000
Titanium Tetrachloride	7550-45-0	0.21	NA	0.21
Trisodium Phosphate	7601-54-9	20,000	NA	20,000
Vanadium Compounds	7440-62-2	86	NA	86
Zinc and Compounds	7440-66-6	6,000	NA	6,000
Zinc Phosphide	1314-84-7	6	NA	6
Cyanides				
Calcium Cyanide	592-01-8	20	NA	20
Copper Cyanide	544-92-3	100	NA	100
Cyanogen	460-19-5	20	NA	20
Cyanogen Bromide	506-68-3	1,800	NA	1,800
Cyanogen Chloride	506-77-4	1,000	NA	1,000

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Hydrogen Cyanide	74-90-8	1.5	NA	1.5
Potassium Cyanide	151-50-8	40	NA	40
Potassium Silver Cyanide	506-61-6	82	NA	82
Silver Cyanide	506-64-9	1,800	NA	1,800
Zinc Cyanide	557-21-1	1,000	NA	1,000
Lead Compounds				
Lead Acetate	301-04-2	NA	3.7	3.7
Lead Phosphate	7446-27-7	NA	91	91
Lead Subacetate	1335-32-6	NA	21	21
Tetraethyl Lead	78-00-2	0.0013	NA	0.0013
Semi-Volatile Organic Compounds (SVOCs)				
Acenaphthene	83-32-9	530	NA	530
Acetophenone	98-86-2	1,900	NA	1,900
Acetylaminofluorene, 2-	53-96-3	NA	0.16	0.16
Acrylamide	79-06-1	40	0.5	0.5
Aldrin	309-00-2	0.6	0.0092	0.0092
Aminobiphenyl, 4-	92-67-1	NA	0.03	0.03
Ammonium Sulfamate	7773-06-0	4,000	NA	4,000
Aniline	62-53-3	140	130	130
Anthracene	120-12-7	1,800	NA	1,800
Aroclor 1016	12674-11-2	1.4	2.2	1.4
Aroclor 1221	11104-28-2	NA	0.047	0.047
Aroclor 1232	11141-16-5	NA	0.047	0.047
Aroclor 1242	53469-21-9	NA	0.079	0.079

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Aroclor 1248	12672-29-6	NA	0.079	0.079
Aroclor 1254	11097-69-1	0.4	0.079	0.079
Aroclor 1260	11096-82-5	NA	0.079	0.079
Auramine	492-80-8	NA	0.78	0.78
Benomyl	17804-35-2	970	NA	970
Benzenethiol	108-98-5	17	NA	17
Benzidine	92-87-5	59	0.0011	0.0011
Benz[a]anthracene	56-55-3	NA	0.3	0.3
Benzo[b]fluoranthene	205-99-2	NA	2.5	2.5
Benzo[k]fluoranthene	207-08-9	NA	25	25
Benzoic Acid	65-85-0	75,000	NA	75,000
Biphenyl, 1,1'-	92-52-4	4,200	39	39
Bis(2-chloroethoxy)methane	111-91-1	59	NA	59
Bis(2-chloroethyl)ether	111-44-4	NA	0.14	0.14
Bis(chloromethyl)ether	542-88-1	NA	0.00072	0.00072
Butyl Benzyl Phthlate	85-68-7	1,700	160	160
Cacodylic Acid	75-60-5	400	NA	400
Captan	133-06-2	2,400	310	310
Carbaryl	63-25-2	1,800	NA	1,800
Carbosulfan	55285-14-8	52	NA	52
Chloramben	133-90-4	290	NA	290
Chlordecone (Kepone)	143-50-0	2.9	0.035	0.035
Chloro-2-methylaniline HCl, 4-	3165-93-3	NA	1.7	1.7
Chloroaniline, p-	106-47-8	9.5	3.7	3.7

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Chlorobenzilate	510-15-6	190	3.1	3.1
Chloronaphthalene, Beta-	91-58-7	750	NA	750
Chlorophenol, 2-	95-57-8	91	NA	91
Chlorpyrifos	2921-88-2	8.4	NA	8.4
Chrysene	218-01-9	NA	250	250
Cresol, m-	108-39-4	930	NA	930
Cresol, o-	95-48-7	930	NA	930
Cresol, p-	106-44-5	370	NA	370
Cresol, p-chloro-m-	59-50-7	1,400	NA	1,400
Cresols	1319-77-3	1,500	NA	1,500
DDD	72-54-8	1.1	0.32	0.32
DDE, p,p'-	72-55-9	10	0.46	0.46
DDT	50-29-3	10	2.3	2.3
Diallate	2303-16-4	NA	5.4	5.4
Diazinon	333-41-5	10	NA	10
Dibenz[a,h]anthracene	53-70-3	NA	0.25	0.25
Dibutyl Phthalate	84-74-2	900	NA	900
Dicamba	1918-00-9	570	NA	570
Dichlorobenzidine, 3,3'-	91-94-1	NA	0.15	0.15
Dichlorophenol, 2,4-	120-83-2	46	NA	46
Dichlorvos	62-73-7	9.9	2.6	2.6
Dieldrin	60-57-1	0.38	0.018	0.018
Diethanolamine	111-42-2	40	NA	40
Diethyl Phthalate	84-66-2	15,000	NA	15,000

Table IX Chemical of Concern	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Diethylstilbestrol	56-53-1	NA	0.00051	0.00051
Dimethoate	60-51-5	44	NA	44
Dimethoxybenzidine, 3,3'-	119-90-4	NA	0.47	0.47
Dimethylamino azobenzene [p-]	60-11-7	NA	0.051	0.051
Dimethylbenz(a)anthracene, 7,12-	57-97-6	NA	0.001	0.001
Dimethylbenzidine, 3,3'-	119-93-7	NA	0.065	0.065
Dimethylphenol, 2,4-	105-67-9	360	NA	360
Dinitrobenzene, 1,2-	528-29-0	1.9	NA	1.9
Dinitrobenzene, 1,3-	99-65-0	2	NA	2
Dinitrobenzene, 1,4-	100-25-4	2	NA	2
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	23	NA	23
Dinitrophenol, 2,4-	51-28-5	39	NA	39
Dinitrotoluene, 2,4-	121-14-2	38	2.4	2.4
Dinitrotoluene, 2,6-	606-20-2	NA	0.49	0.49
Dinitrotoluene Mixture, 2,4/2,6	25321-14-6	NA	0.691.1	0.691.1
Diphenylhydrazine, 1,2-	122-66-7	NA	0.78	0.78
Disulfoton	298-04-4	0.5	NA	0.5
Diuron	330-54-1	36	NA	36
Endosulfan	115-29-7	100	NA	100
Endrin	72-20-8	2	NA	2
Epichlorohydrin	106-89-8	2	29	2
Ethion	563-12-2	3.8	NA	3.8
Ethylene Glycol	107-21-1	16,000	NA	16,000
Ethylene Thiourea	96-45-7	1.6	17	1.6

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Fluoranthene	206-44-0	800	NA	800
Fluorene	86-73-7	290	NA	290
Furan	110-00-9	19	NA	19
Furfural	98-01-1	38	NA	38
Guthion	86-50-0	56	NA	56
Hexachlorobutadiene	87-68-3	6.5	1.4	1.4
Hexachlorocyclohexane, Alpha-	319-84-6	NA11	0.072	0.072
Hexachlorocyclohexane, Beta-	319-85-7	NA	0.25	0.25
Hexachlorocyclohexane, Technical	608-73-1	NA	0.25	0.25
Hexachloroethane	67-72-1	6.3	3.3	3.3
Hexachlorophene	70-30-4	6	NA	6
Hexamethylene Diisocyanate, 1,6-	822-06-0	0.021	NA	0.021
Hexamethylphosphoramide	680-31-9	8	NA	8
Hexanedioic Acid	124-04-9	40,000	NA	40,000
Hydroquinone	123-31-9	790	13	13
Indeno[1,2,3-cd]pyrene	193-39-5	NA	2.5	2.5
Isophorone	78-59-1	3,800	780	780
Malathion	121-75-5	390	NA	390
Maleic Anhydride	108-31-6	1,900	NA	1,900
Maleic Hydrazide	123-33-1	10,000	NA	10,000
Malononitrile	109-77-3	2	NA	2
Methomyl	16752-77-5	500	NA	500
Methyl Parathion	298-00-0	4.5	NA	4.5
Methylaniline Hydrochloride, 2-	636-21-5	NA	6	6

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Methylcholanthrene, 3-	56-49-5	NA	0.011	0.011
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	26	1.6	1.6
Methylenebisbenzenamine, 4,4'-	101-77-9	NA	0.47	0.47
Methylnaphthalene, 1-	90-12-0	0.0063	NA	0.0063
Methylnaphthalene, 2-	91-57-6	36	NA	36
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	NA	0.094	0.094
Naled	300-76-5	40	NA	40
Naphthylamine, 2-	91-59-8	NA	0.39	0.39
Nitroaniline, 4-	100-01-6	78	38	38
Nitrobenzene	98-95-3	13	1.4	1.4
Nitroglycerin	55-63-0	2	45	2
Nitropropane, 2-	79-46-9	42	NA	42
Nitrosodiethanolamine, N-	1116-54-7	NA	0.28	0.28
Nitrosodiethylamine, N-	55-18-5	NA	0.0017	0.0017
Nitrosodimethylamine, N-	62-75-9	0.16	0.0011	0.0011
Nitroso-di-N-butylamine, N-	924-16-3	NA	0.027	0.027
Nitroso-di-N-propylamine, N-	621-64-7	NA	0.11	0.11
Nitrosodiphenylamine, N-	86-30-6	NA	120	120
Nitrosomorpholine [N-]	59-89-2	NA	0.12	0.12
Nitroso-N-ethylurea, N-	759-73-9	NA	0.0092	0.0092
Nitroso-N-methylurea, N-	684-93-5	NA	0.0021	0.0021
Nitrosopiperidine [N-]	100-75-4	NA	0.082	0.082
Nitrosopyrrolidine, N-	930-55-2	NA	0.37	0.37
Nitrotoluene, o-	88-72-2	16	3.1	3.1

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Nitrotoluene, p-	99-99-0	71	43	43
Octamethylpyrophosphoramidate	152-16-9	40	NA	40
Octyl Phthalate, di-N-	117-84-0	200	NA	200
Parathion	56-38-2	86	NA	86
Pentachlorobenzene	608-93-5	3.1	NA	3.1
Pentachloroethane	76-01-7	NA	6.5	6.5
Pentachloronitrobenzene	82-68-8	26	1.2	1.2
Phenacetin	62-44-2	NA	340	340
Phenol	108-95-2	5,800	NA	5,800
Phenylmercuric Acetate	62-38-4	1.6	NA	1.6
Phorate	298-02-2	3	NA	3
Phosphoric Acid	7664-38-2	20,000	NA	20,000
Phthalic Anhydride	85-44-9	39,000	NA	39,000
Pronamide	23950-58-5	1,200	NA	1,200
Propargite	2312-35-8	320	1.6	1.6
Propham	122-42-9	350	NA	350
Propoxur (Baygon)	114-26-1	78	NA	78
Pyrene	129-00-0	120	NA	120
Pyridine	110-86-1	20	NA	20
Quinoline	91-22-5	NA	0.24	0.24
Safrole	94-59-7	NA	0.96	0.96
Strychnine	57-24-9	5.9	NA	5.9
Tetrachlorophenol, 2,3,4,6-	58-90-2	240	NA	240
Tetraethyl Dithiopyrophosphate	3689-24-5	7.1	NA	7.1

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Tetrahydrofuran	109-99-9	3,400	NA	3,400
Thiofanox	39196-18-4	5.3	NA	5.3
Thiophanate, Methyl	23564-05-8	3,200	64	64
Thiram	137-26-8	290	NA	290
Toluene-2,4-diisocyanate	584-84-9	0.017	1.4	0.017
Toluene-2,6-diisocyanate	91-08-7	0.017	3.4	0.017
Toluidine, p-	106-49-0	NA	25	25
Triallate	2303-17-5	230	4.7	4.7
Trichlorophenol, 2,4,5-	95-95-4	1,200	NA	1,200
Trichlorophenol, 2,4,6-	88-06-2	12	41	12
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	160	NA	160
Trifluralin	1582-09-8	41	26	26
Trimethylbenzene, 1,2,3-	526-73-8	55	NA	55
Trimethylbenzene, 1,2,4-	95-63-6	56	NA	56
Trimethylbenzene, 1,3,5-	108-67-8	60	NA	60
Trinitrobenzene, 1,3,5-	99-35-4	590	NA	590
Urethane	51-79-6	NA	0.25	0.25
Warfarin	81-81-2	5.6	NA	5.6
Volatile Organic Compounds (VOCs)				
Acetaldehyde	75-07-0	19	26	19
Acetone	67-64-1	18,000	NA	18,000
Acetonitrile	75-05-8	130	NA	130
Acrolein	107-02-8	0.042	NA	0.042
Acrylic Acid	79-10-7	0.42	NA	0.42

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Acrylonitrile	107-13-1	3.4	0.52	0.52
Allyl Alcohol	107-18-6	80	NA	80
Allyl Chloride	107-05-1	2.1	7.3	2.1
Benzotrichloride	98-07-7	NA	0.03	0.03
Benzyl Chloride	100-44-7	2	0.89	0.89
Bis(2-chloro-1-methylethyl) Ether	108-60-1	710	NA	710
Bromomethane	74-83-9	7.5	NA	7.5
Butadiene, 1,3-	106-99-0	4.2	0.71	0.71
Butanol, N-	71-36-3	2,000	NA	2,000
Butylbenzene, n-	104-51-8	1,000	NA	1,000
Carbon Disulfide	75-15-0	810	NA	810
Carbonyl Sulfide	463-58-1	210	NA	210
Chloro-1,3-butadiene, 2-	126-99-8	37	0.19	0.19
Chloromethane	74-87-3	190	NA	190
Chloromethyl Methyl Ether	107-30-2	NA	0.065	0.065
Crotonaldehyde, trans-	123-73-9	20	0.4	0.4
Cumene	98-82-8	450	NA	450
Cyclohexane	110-82-7	13,000	NA	13,000
Cyclohexanone	108-94-1	1,400	NA	1,400
Dichloro-2-butene, 1,4-	764-41-0	NA	0.013	0.013
Dichlorodifluoromethane	75-71-8	3,600	NA	3,600
Dichloroethane, 1,1-	75-34-3	3,800	28	28
Dichloropropane, 1,3-	142-28-9	370	NA	370
Dichloropropene, 1,3-	542-75-6	39	4.7	4.7

<u>Table IX</u>	Chemical Abstract Service Number (CAS #)	Standard for a Single Chemical Non-Carcinogen (µg/L)	Standard for a Single Chemical Carcinogen (µg/L)	Generic Unrestricted Potable Use Standard for a Single Chemical (µg/L)
Chemical of Concern				
Dihydrosafrole	94-58-6	NA	3	3
Dimethylaniline, N,N-	121-69-7	35	25	25
Dimethylformamide	68-12-2	61	NA	61
Dimethylhydrazine, 1,2-	540-73-8	NA	0.00028	0.00028
Dioxane, 1,4-	123-91-1	57	4.6	4.6
Epoxybutane, 1,2-	106-88-7	42	NA	42
Ethoxyethanol, 2-	110-80-5	80	NA	80
Ethyl Acetate	141-78-6	140	NA	140
Ethyl Acrylate	140-88-5	14	NA	14
Ethyl Chloride (Chloroethane)	75-00-3	8,300	NA	8,300
Ethyl Ether	60-29-7	3,900	NA	3,900
Ethyl Methacrylate	97-63-2	630	NA	630
Ethylene Diamine	107-15-3	1,800	NA	1,800
Ethylene Oxide	75-21-8	63	0.0067	0.0067
Ethyleneimine	151-56-4	NA	0.0024	0.0024
Formaldehyde	50-00-0	20	3.9	3.9
Formic Acid	64-18-6	18,000	NA	18,000
Glycidaldehyde	765-34-4	1.7	NA	1.7
Hexane, N-	110-54-3	1,500	NA	1,500
Hydrazine	302-01-2	NA0.063	0.011	0.011
Isobutyl Alcohol	78-83-1	5,900	NA	5,900
Methacrylonitrile	126-98-7	1.9	NA	1.9
Methanol	67-56-1	20,000	NA	20,000
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5,600	NA	5,600

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Chemical of Concern				
Methyl Hydrazine	60-34-4	20	NA	20
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	6,300	NA	6,300
Methyl Isocyanate	624-83-9	2.1	NA	2.1
Methyl Methacrylate	80-62-6	1,400	NA	1,400
Methyl tert-Butyl Ether (MTBE)	1634-04-4	6,300	140	140
Naphthalene	91-20-3	6.1	1.2	1.2
Nickel Carbonyl	13463-39-3	0.029	0.22	0.029
<u>Phosgene</u>	<u>75-44-5</u>	<u>0.63</u>	<u>NA</u>	<u>0.63</u>
Propargyl Alcohol	107-19-7	40	NA	40
Propionaldehyde	123-38-6	17	NA	17
Propylene Oxide	75-56-9	63	2.7	2.7
Tetrachlorobenzene, 1,2,4,5-	95-94-3	0.17	NA	0.17
Tetrachloroethane, 1,1,1,2-	630-20-6	480	5.7	5.7
Tetrachloroethane, 1,1,2,2-	79-34-5	360	0.76	0.76
Trichlorofluoromethane	75-69-4	5,200	NA	5,200
Triethylamine	121-44-8	15	NA	15
Vinyl Acetate	108-05-4	410	NA	410
Vinyl Bromide	593-60-2	6.3	3.7	3.7