

Appendix C Incinerator Risk Assessment Tables

TABLE 1
Deminimus Annual Concentrations for Cancer Risk of Certain Chemicals

CAS #	CHEMICAL	ANNUAL AVERAGE (ug/m ³)	CAS #	CHEMICAL	ANNUAL AVERAGE (ug/m ³)
75070	Acetaldehyde	4.5455e-02	302012	Hydrazine	2.0408e-05
79061	Acrylamide	7.6923e-05	58899	Lindane (All Isomers)	9.0909e-05
107131	Acrylonitrile	1.4706e-03	75092	Methylene Chloride	2.1277e-01
1332214	Asbestos	5.1546e-04	62759	N-Nitrosodimethylamine	7.1429e-06
71432	Benzene	1.2048e-02	87865	Pentachlorophenol	2.1739e-02
92875	Benzidine	1.4925e-06	1336363	Polychlorinated Biphenyls	7.1429e-05
117817	Bis(2-Ethylhexyl)Phthalate (DEHP)	4.1667e-02	75569	Propylene Oxide	2.7027e-02
542881	Bis(Chloromethyl) Ether	1.6129e-06	1746016	2,3,7,8-TCDD	2.6316e-09
75252	Bromoform	9.0909e-02	79345	1,1,2,2-Tetrachloroethane	1.7241e-03
106990	1,3-Butadiene	3.5714e-04	127184	Tetrachloroethylene (Perch)	1.6949e-02
56235	Carbon Tetrachloride	6.6667e-03	8001352	Toxaphene	3.1250e-04
57749	Chlordane	2.7027e-04	79005	1,1,2-Trichloroethane	6.2500e-03
67663	Chloroform	4.3478e-03	79016	Trichloroethylene	5.0000e-02
126998	Chloroprene	7.6923e-01	88062	2,4,6-Trichlorophenol	3.2258e-02
132649	Dibenzofurans	2.6316e-09	75014	Vinyl Chloride	1.2821e-03
96128	1,2-Dibromo-3-Chloropropane	5.0000e-05	75354	Vinylidene Chloride	2.0000e-03
106467	1,4-Dichlorobenzene (p)	9.0909e-03		Arsenic Compounds	2.3256e-05
91941	3,3-Dichlorobenzidene	2.9412e-04		Beryllium Compounds	4.1667e-05
111444	Dichloroethyl Ether	3.0303e-04		Cadmium Compounds	5.5556e-05
123911	1,4-Dioxane(1,4-Diethyleneoxide)	1.2987e-02		Chromium Compounds	8.3333e-06
122667	1,2-Diphenylhydrazine	4.5455e-04		Coke Oven Emissions	1.6129e-04
106898	Epichlorohydrin	8.3333e-02		Nickel Compounds	3.8462e-04
51796	Ethyl Carbamate (Urethane)	3.4483e-04		Polycyclic Organic Matter	
106934	Ethylene Dibromide	4.5455e-04	56553	Benz (a) anthracene	5.8824e-05
107062	Ehtylene Dichloride	3.8462e-03	205992	Benzo (b) fluoranthene	5.8824e-05
75218	Ethylene Oxide	1.1364e-03	207089	Benzo (k) fluoranthene	5.8824e-05
50000	Formaldehyde	7.6923e-03	50328	Benzo (a) pyrene	5.8824e-05
76448	Heptachlor	7.6923e-05	53703	Dibenz (a,h) anthracene	5.8824e-05

CAS #	CHEMICAL	ANNUAL AVERAGE (ug/m ³)	CAS #	CHEMICAL	ANNUAL AVERAGE (ug/m ³)
118741	Hexachlorobenzene	2.1739e-04	193395	Indeno (1,2,3-cd) pyrene	5.8824e-05
87683	Hexachlorobutadiene	4.5455e-03			
67721	Hexachloroethane	2.5000e-02			

Source: ARM 17.8.706

TABLE 2
Diminimus Annual Concentrations for Non-Cancer Risk of Certain Chemicals

CAS #	Chemical	Annual Average for Chronic Affects (ug/m ³)	Annual Average for Acute Affects (ug/m ³)	CAS #	Chemical	Annual Average for Chronic Affects (ug/m ³)	Annual Average for Acute Affects (ug/m ³)
75070	Acetaldehyde	9.0000e-02		78933	Methyl Ethyl Ketone (2-Butanone)	1.0000e+01	
107028	Acrolein	2.2000e-04	2.5000e-02	624839	Methyl Isocyanate	3.6000e-03	
79061	Acrylamide	7.0000e-03		80626	Methyl Methacrylate	9.8000e+00	
79107	Acrylic Acid	1.0000e-02		1634044	Methyl Tert Butyl Ether	3.0000e+01	
107131	Acrylonitrile	2.0000e-02		75092	Methylene Chloride	3.0000e+01	3.5000e+01
107051	Allyl Chloride	1.0000e-02		101688	Methylene Diphenyl Diisocyanate	2.0000e-04	
62533	Aniline	1.0000e-02		101779	4,4'-Methylenedianiline	1.9000e-02	
71432	Benzene	7.1000e-01		91203	Naphthalene	1.4000e-01	
92875	Benzidine	1.0000e-01		98953	Nitrobenzene	1.7000e-02	
100447	Benzyl Chloride	1.2000e-01	5.0000e-01	79469	2-Nitropropane	2.0000e-01	
117817	Bis(2-Ethylhexyl)Phthalate (DEHP)	7.0000e-01		87865	Pentachlorophenol	2.0000e-03	
75150	Carbon Disulfide	7.0000e+00		108952	Phenol	4.5000e-01	
56235	Carbon Tetrachloride	2.4000e-02	1.9000e+00	75445	Phosgene	1.2000e+00	
7782505	Chlorine	7.1000e-01	2.3000e-01	7803512	Phosphine	3.0000e-03	
532274	2-Chloroacetophenone	3.0000e-04		7723140	Phosphorus	7.0000e-04	
108907	Chlorobenzene	7.0000e-01		85449	Phthalic Anhydride	7.0000e+01	
67663	Chloroform	3.5000e-01		1336363	Polychlorinated Biphenyls	1.2000e-02	
126998	Chloroprene	1.0000e-02		78875	Propylene Dichloride	4.0000e-02	
1319773	Cresols/Cresylic Acid	1.8000e+00		75569	Propylene Oxide	3.0000e-01	1.0000e+01
95487	o-Cresol	1.8000e+00		100425	Styrene	1.0000e+01	
108394	m-Cresol	1.8000e+00		1746016	2,3,7,8-TCDD	3.5000e-08	
106445	p-Cresol	1.8000e+00		127184	Tetrachloroethylene (Perch)	3.5000e-01	6.8000e+01
132649	Dibenzofurans	3.5000e-08		108883	Toluene	4.0000e+00	
96128	1,2-Dibromo-3-Chloropropane	2.0000e-03		584849	2,4-Toluene Diisocyanate	7.0000e-04	
106467	1,4-Dichlorobenzene (p)	8.0000e+00		79016	Trichloroethylene	6.4000e+00	
542756	1,3-Dichloropropene	2.0000e-01		121448	Triethylamine	7.0000e-02	
62737	Dichlorvos	5.0000e-03		108054	Vinyl Acetate	2.0000e+00	
68122	Dimethyl Formamide	3.0000e-01		593602	Vinyl Bromide	3.0000e-02	

CAS #	Chemical	Annual Average for Chronic Affects (ug/m ³)	Annual Average for Acute Affects (ug/m ³)	CAS #	Chemical	Annual Average for Chronic Affects (ug/m ³)	Annual Average for Acute Affects (ug/m ³)
123911	1,4-Dioxane(1,4-Diethyleneoxide)	4.0000e-02	2.0000e+01	75014	Vinyl Chloride	2.6000e-01	
106898	Epichlorohydrin	1.0000e-02		75354	Vinylidene Chloride	3.2000e-01	
106887	1,2-Epoxybutane	2.0000e-01		1330207	Xylenes (Isomers and Mixture)	3.0000e+00	4.4000e+01
140885	Ethyl Acrylate	4.8000e-01			Antimony Compounds	2.0000e-03	
100414	Ethyl Benzene	1.0000e+01			Arsenic Compounds	5.0000e-03	
75003	Ethyl Chloride (Chloroethane)	1.0000e+02			Beryllium Compounds	4.8000e-05	
106934	Ethylene Dibromide	4.6000e-02			Cadmium Compounds	3.5000e-02	
107062	Ethylene Dichloride	9.5000e-01			Chromium Compounds	2.0000e-05	
75218	Ethylene Oxide	6.0000e+00			Cyanide Compounds	7.0000e-01	3.3000e+01
50000	Formaldehyde	3.6000e-02	3.7000e+00		Ethyl Glycol But Ether	2.0000e-01	
118741	Hexachlorobenzene	2.8000e-02			Ethyl Glycol Ethyl Ether	3.7000e+00	
77474	Hexachlorocyclopentadiene	2.4000e-03			Ethyl Gly MonoBut Ether	1.5000e+01	
822060	Hexamethylene-1,6-Diisocyanate	1.0000e-04			Ethyl Gly Monoethyl Ether	2.0000e+00	
110543	Hexane	2.0000e+00			Ethyl Gly Ethyl Ether Acetate	6.4000e-01	
302012	Hydrazine	2.4000e-03			Ethyl Glycol Methyl Ether	2.0000e-01	3.2000e+00
7647010	Hydrochloric Acid	2.0000e-01	3.0000e+01		Ethyl Gly Methyl Ether Acetate	5.7000e-01	
7664393	Hydrogen Flouride (HF Acid)	5.9000e-02	5.8000e+00		Ethyl Gly MonoEthyl Ether Acetate	1.6000e+01	
58899	Lindane (All Isomers)	1.0000e-02			Lead Compounds	1.5000e-02	
108316	Maleic Anhydride	2.4000e-02	1.0000e-01		Manganese Compounds	5.0000e-04	
67561	Methanol	6.2000e+00			Mercury Compounds	3.0000e-03	3.0000e-01
74839	Methyl Bromide (Bromomethane)	5.0000e-02			Fine Mineral Fibers	2.4000e-01	
71556	Methyl Chloroform	3.2000e+00	1.9000e+03		Nickel Compounds	2.4000e-03	1.0000e-02
					Selenium Compounds	5.0000e-03	2.0000e-02

Source: ARM 17.8.706

Incinerator Risk Assessment Tables

TABLE 3
Substances to be Evaluated for Non-Inhalation Pathways

Chemical	Cancer	Non-Cancer
Arsenic	X	X
Beryllium	X	X
Cadmium		X
Chlorobenzene		X
Chromium (hexavalent)	X	X
Chlorinated dibenzo-p-dioxins	X	X
Chlorinated dibenzofurans	X	X
2-Chlorophenol		X
p-Dichlorobenzene	X	X
Hexachlorobenzene	X	X
Hexachlorocyclohexanes	X	X
Lead		X
Mercury		X
Nitrosamines	X	
Polycyclic aromatic hydrocarbons	X	
Polychlorinated biphenyls	X	
Pentachlorophenol	X	X
2,4,6-Trichlorophenol	X	
2,4,5-Trichlorophenol		X
Zinc		X

Source: DEQ's Health Risk Assessment Procedures

TABLE 4
Substances to be Evaluated for Mother's Milk Pathway

Chlorinated dibenzo-p-dioxins
Chlorinated dibenzofurans
Polycyclic aromatic hydrocarbons
Polychlorinated biphenyls

Source: DEQ's Health Risk Assessment Procedures