APPENDIX G

SUMMARY TABLES OF CALCULATED MEDIA CONCENTRATIONS, EXPOSURE ESTIMATES, AND RISKS

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G DESCRIPTION OF SUMMARY TABLES

Detailed summary tables of the calculated media concentrations, exposure estimates, and risks from the exposure and risk calculator spreadsheets are provided on the following pages. Two summary tables are provided for each subject: one for carcinogenic COPCs, and the other for COPCs with noncarcinogenic effects. A COPC is included in a summary table only when toxicity data were available for the COPC and data were available to estimate an emission rate. In addition, because some COPCs have both carcinogenic effects and noncarcinogenic effects, several COPCs are listed on both types of summary tables. Of the 104 COPCs evaluated in this MPHRA, 31 have carcinogenic toxicity factors (21 with estimated emission rates), 75 have chronic noncarcinogenic toxicity factors (60 with estimated emission rates), and 89 have acute toxicity factors (73 with estimated emission rates).

The tables presenting the calculated media concentrations, exposure estimates, and chronic risks for the carcinogenic COPCs with estimated emission rates include the following 21 compounds:

- 1,1,2,2-tetrachloroethane
- 1,1-dichloroethane
- 1,2,4-trichlorobenzene
- 1,2-dichloroethane
- 1,2-dichloropropane
- 1,4-dichlorobenzene
- benzene
- bis(2-chloroisopropyl) ether
- chloroform
- ethylbenzene
- HD
- methyl tert-butyl ether
- methylene chloride
- naphthalene
- nitrobenzene
- tetrachloroethene
- trichloroethene
- vinyl chloride
- arsenic
- cadmium
- lead

The tables presenting the calculated media concentrations, exposure estimates, and chronic risks for the COPCs with noncarcinogenic effects and estimated emission rates include the following 60 compounds:

- 1,1,2,2-tetrachloroethane
- 1,1-dichloroethane
- 1,1-dichloroethene
- 1,2,3-trichlorobenzene
- 1,2,4-trichlorobenzene
- 1,2,4-trimethyl benzene
- 1,2-dichlorobenzene
- 1,2-dichloroethane

- 1,2-dichloropropane
- 1,4-dichlorobenzene
- 1,4-dithiane
- 1-chlorobutane
- 2,4-dichlorophenol
- 2-butanone
- 2-hexanone
- 2-methyl phenol
- 2-methylnaphthalene
- 3-methyl phenol
- 4-methyl phenol
- 4-methyl-2-pentanone
- acetone
- acrolein
- alpha-methylstyrene
- benzene
- bis(2-chloroisopropyl) ether
- carbon disulfide
- chlorobenzene
- chloroethane
- chloroform
- chloromethane
- cis-1,2-dichloroethene
- dichlorodifluoromethane
- diethyl ether
- ethylbenzene
- HD
- hexane
- methyl tert-butyl ether
- methylene chloride
- naphthalene
- nitrobenzene
- pentane
- phenol
- propene
- styrene
- tetrachloroethene
- thiodiglycol
- toluene
- trans-1,2-dichloroethene
- trichloroethene
- vinyl chloride
- xylenes
- aluminum
- ammonia
- arsenic
- cadmium
- chlorine
- copper
- hydrogen chloride
- hydrogen cyanide

- silver

The 25 COPCs (carcinogenic and noncarcinogenic) without estimated emission rates include the following:

- 1,1,1,2-tetrachloroethane
- 1,1,1-trichloroethane
- 1,2-bis(ethylthio)-ethene
- 1,2-bis(vinylthio)-ethane
- 1,4-dioxane
- 2,2-dimethyl-trans-thiirane
- 2,3-dimethyl-thiophene
- 2,4,6-trinitrotoluene
- 2,4-dinitrotoluene
- 2,6-dinitrotoluene
- 2-methyl-1,3-dithiacyclopentane
- 2-methyl-1,3-dithiane
- 2-methyl-1,3-oxathiolane
- acetaldehyde
- diethyl phthalate
- di-n-butyl phthalate
- diphenylamine
- ethene
- ethyl centralite
- hexachlorobutadiene
- hexachloroethane
- nitroglycerin
- tetracene
- tetryl
- nickel

The tables presenting the acute hazards associated with short-term emission release events include the following 73 compounds:

- 1,1,2,2-tetrachloroethane
- 1,1-dichloroethane
- 1,1-dichloroethene
- 1,2,3-trichlorobenzene
- 1,2,4-trichlorobenzene
- 1,2,4-trimethyl benzene
- 1,2-dichlorobenzene
- 1,2-dichloroethane
- 1,2-dichloropropane
- 1,3-dichlorobenzene
- 1,4-dichlorobenzene
- 1,4-oxathiane
- 1-chlorobutane
- 1-hexene
- 2,4-dichlorophenol
- 2-butanone
- 2-chlorobutane

- 2-chloroethoxyethane
- 2-hexanone
- 2-methyl phenol
- 2-methylnaphthalene
- 3-methyl phenol
- 4-methyl phenol
- 4-methyl-2-pentanone
- acenaphthylene
- acetone
- acetylene
- acrolein
- alpha-methylstyrene
- benzene
- carbon disulfide
- chlorobenzene
- chloroethane
- chloroform
- chloromethane
- cis-1,2-dichloroethene
- dichlorodifluoromethane
- diethyl ether
- ethane
- ethanol
- ethylbenzene
- HD
- hexane
- methane
- methyl tert-butyl ether
- methylene chloride
- monoethanolamine
- naphthalene
- nitrobenzene
- octane
- pentane
- phenanthrene
- phenol
- propene
- styrene
- tert-butyl alcohol
- tetrachloroethene
- thiodiglycol
- toluene
- trans-1,2-dichloroethene
- trichloroethene
- vinyl chloride
- xylenes
- aluminum
- ammonia
- arsenic
- cadmium
- chlorine

- copper
- hydrogen chloride
- hydrogen cyanide
- lead
- silver

The 11 COPCs with acute toxicity factors, but without estimated emission rates, include the following:

- 1,1,1,2-tetrachloroethane
- 1,1,1-trichloroethane
- 1,4-dioxane
- 2,4,6-trinitrotoluene
- 2,4-dinitrotoluene
- 2,6-dinitrotoluene
- acetaldehyde
- ethene
- hexachlorobutadiene
- nitroglycerin
- nickel

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Table G-1. Calculated Concentrations of Carcinogenic COPCs in Soil for All Exposure Scenarios

COPC		Concentration (mg COPC/kg soil)				
CAS No.	Compound Name	Adult Resident and Subsistence Fisher Exposure Scenarios	Adult Subsistence Farmer Exposure Scenario	Adult Worker Exposure Scenario	All Child Exposure Scenarios	All Infant Exposure Scenarios
79-34-5	1,1,2,2-tetrachloroethane	6.12E-09	4.59E-09	7.35E-09	3.67E-08	3.67E-08
75-34-3	1,1-dichloroethane	1.65E-11	1.24E-11	1.98E-11	9.89E-11	9.89E-11
120-82-1	1,2,4-trichlorobenzene	3.56E-17	2.67E-17	4.28E-17	2.14E-16	2.14E-16
107-06-2	1,2-dichloroethane	3.97E-08	2.98E-08	4.77E-08	2.38E-07	2.38E-07
78-87-5	1,2-dichloropropane	7.96E-13	5.97E-13	9.55E-13	4.78E-12	4.78E-12
106-46-7	1,4-dichlorobenzene	5.79E-18	4.34E-18	6.95E-18	3.48E-17	3.48E-17
71-43-2	benzene	5.07E-12	3.80E-12	6.08E-12	3.04E-11	3.04E-11
108-60-1	bis(2-chloroisopropyl) ether	3.34E-15	2.50E-15	4.01E-15	1.97E-14	1.97E-14
67-66-3	chloroform	1.53E-11	1.15E-11	1.84E-11	9.19E-11	9.19E-11
100-41-4	ethylbenzene	3.73E-10	2.80E-10	4.47E-10	2.24E-09	2.24E-09
505-60-2	HD	4.45E-10	3.34E-10	5.34E-10	2.67E-09	2.67E-09
1634-04-4	methyl tert-butyl ether	2.39E-10	1.79E-10	2.86E-10	1.43E-09	1.43E-09
75-09-2	methylene chloride	4.14E-11	3.10E-11	4.96E-11	2.48E-10	2.48E-10
91-20-3	naphthalene	5.02E-09	3.77E-09	6.03E-09	2.95E-08	2.95E-08
98-95-3	nitrobenzene	1.00E-16	7.50E-17	1.20E-16	5.99E-16	5.99E-16
127-18-4	tetrachloroethene	2.05E-10	1.53E-10	2.46E-10	1.23E-09	1.23E-09
79-01-6	trichloroethene	1.53E-10	1.15E-10	1.83E-10	9.17E-10	9.17E-10
75-01-4	vinyl chloride	5.84E-10	4.38E-10	7.01E-10	3.50E-09	3.50E-09
7440-38-2	arsenic	1.09E-14	8.16E-15	1.31E-14	6.53E-14	6.53E-14
7440-43-9	cadmium	3.49E-13	2.61E-13	4.18E-13	2.09E-12	2.09E-12
7439-92-1	lead	3.99E-11	2.99E-11	4.79E-11	2.39E-10	2.39E-10

Table G-2. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Soil for All Exposure Scenarios

COPC		Concentration (mg COPC/kg soil)
CAS No.	Compound Name	
79-34-5	1,1,2,2-tetrachloroethane	3.67E-08
75-34-3	1,1-dichloroethane	9.89E-11
75-35-4	1,1-dichloroethene	7.40E-17
87-61-6	1,2,3-trichlorobenzene	6.71E-08
120-82-1	1,2,4-trichlorobenzene	2.14E-16
95-63-6	1,2,4-trimethyl benzene	2.35E-09
95-50-1	1,2-dichlorobenzene	1.39E-16
107-06-2	1,2-dichloroethane	2.38E-07
78-87-5	1,2-dichloropropane	4.78E-12
106-46-7	1,4-dichlorobenzene	3.48E-17
505-29-3	1,4-dithiane	1.33E-04
109-69-3	1-chlorobutane	7.20E-13
120-83-2	2,4-dichlorophenol	9.02E-15
78-93-3	2-butanone	1.59E-07
591-78-6	2-hexanone	2.58E-08
95-48-7	2-methyl phenol	2.83E-14
91-57-6	2-methylnaphthalene	2.59E-14
108-39-4	3-methyl phenol	2.58E-08
106-44-5	4-methyl phenol	8.90E-10
108-10-1	4-methyl-2-pentanone	7.09E-08
67-64-1	acetone	2.47E-07
107-02-8	acrolein	4.67E-09
98-83-9	alpha-methylstyrene	5.13E-09
71-43-2	benzene	3.04E-11
108-60-1	bis(2-chloroisopropyl) ether	2.00E-14
75-15-0	carbon disulfide	4.27E-11
108-90-7	chlorobenzene	1.30E-16
75-00-3	chloroethane	5.82E-11
67-66-3	chloroform	9.19E-11
74-87-3	chloromethane	3.87E-11
156-59-2	cis-1,2-dichloroethene	8.08E-14
75-71-8	dichlorodifluoromethane	4.92E-14
60-29-7	diethyl ether	1.47E-09
100-41-4	ethylbenzene	2.24E-09
505-60-2	HD	2.67E-09
110-54-3	hexane	2.29E-11
1634-04-4	methyl tert-butyl ether	1.43E-09
75-09-2	methylene chloride	2.48E-10
91-20-3	naphthalene	3.01E-08
98-95-3	nitrobenzene	6.00E-16
109-66-0	pentane	2.76E-11
108-95-2	phenol	9.65E-14
115-07-1	propene	7.87E-12
100-42-5	styrene	4.24E-13
127-18-4	tetrachloroethene	1.23E-09
111-48-8	thiodiglycol	1.18E-05
108-88-3	toluene	1.49E-09
156-60-5	trans-1,2-dichloroethene	3.02E-16
79-01-6	trichloroethene	9.17E-10
75-01-4	vinyl chloride	3.49E-09
1330-20-7	xylenes	3.61E-08
7429-90-5	aluminum	1.12E-11

Table G-2. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Soil for All Exposure Scenarios (continued)

COPC		Concentration (mg COPC/kg soil)
CAS No.	Compound Name	
7664-41-7	ammonia	9.00E-06
7440-38-2	arsenic	6.53E-14
7440-43-9	cadmium	2.09E-12
7782-50-5	chlorine	3.23E-06
7440-50-8	copper	2.08E-10
7647-01-0	hydrogen chloride	7.31E-07
74-90-8	hydrogen cyanide	4.91E-12
7440-22-4	silver	1.33E-14

Table G-3. Calculated Concentrations of Carcinogenic COPCs in the Dissolved Phase of Surface Water for All Exposure Scenarios

COPC		Concentration (mg COPC/ℓ surface water)			
CAS No.	Compound Name	Adult Resident and Subsistence Fisher Exposure Scenarios	Adult Subsistence Farmer Exposure Scenario	All Child Exposure Scenarios	All Infant Exposure Scenarios
79-34-5	1,1,2,2-tetrachloroethane	4.25E-07	4.24E-07	4.39E-07	4.39E-07
75-34-3	1,1-dichloroethane	5.17E-08	5.17E-08	5.17E-08	5.17E-08
120-82-1	1,2,4-trichlorobenzene	2.08E-16	2.07E-16	2.14E-16	2.14E-16
107-06-2	1,2-dichloroethane	5.41E-05	5.41E-05	5.42E-05	5.42E-05
78-87-5	1,2-dichloropropane	9.76E-10	9.76E-10	9.78E-10	9.78E-10
106-46-7	1,4-dichlorobenzene	4.16E-16	4.16E-16	4.19E-16	4.19E-16
71-43-2	benzene	9.58E-09	9.58E-09	9.59E-09	9.59E-09
108-60-1	bis(2-chloroisopropyl) ether	5.88E-16	5.54E-16	1.26E-15	1.26E-15
67-66-3	chloroform	3.40E-08	3.40E-08	3.40E-08	3.40E-08
100-41-4	ethylbenzene	1.51E-07	1.51E-07	1.51E-07	1.51E-07
505-60-2	HD	1.22E-07	1.22E-07	1.22E-07	1.22E-07
1634-04-4	methyl tert-butyl ether	7.00E-08	6.99E-08	7.07E-08	7.07E-08
75-09-2	methylene chloride	1.63E-07	1.63E-07	1.63E-07	1.63E-07
91-20-3	naphthalene	5.38E-10	5.34E-10	6.07E-10	6.07E-10
98-95-3	nitrobenzene	1.16E-16	1.12E-16	1.83E-16	1.83E-16
127-18-4	tetrachloroethene	4.42E-07	4.42E-07	4.42E-07	4.42E-07
79-01-6	trichloroethene	1.78E-07	1.78E-07	1.79E-07	1.79E-07
75-01-4	vinyl chloride	1.76E-05	1.76E-05	1.76E-05	1.76E-05
7440-38-2	arsenic	1.68E-11	1.68E-11	1.68E-11	1.68E-11
7440-43-9	cadmium	8.17E-12	8.17E-12	8.18E-12	8.18E-12
7439-92-1	lead	4.02E-11	4.02E-11	4.05E-11	4.05E-11

Notes: Concentrations were not calculated for this media for the adult worker exposure scenario because the adult worker is not exposed via the ingestion or dermal water contact pathways.

Table G-4. Calculated Concentrations of COPCs with Noncarcinogenic Effects in the Dissolved Phase of Surface Water for All Exposure Scenarios

COPC		Concentration (mg COPC/ℓ surface water)
CAS No.	Compound Name	
79-34-5	1,1,2,2-tetrachloroethane	4.39E-07
75-34-3	1,1-dichloroethane	5.17E-08
75-35-4	1,1-dichloroethene	1.08E-13
87-61-6	1,2,3-trichlorobenzene	9.62E-10
120-82-1	1,2,4-trichlorobenzene	2.14E-16
95-63-6	1,2,4-trimethyl benzene	9.50E-09
95-50-1	1,2-dichlorobenzene	4.26E-16
107-06-2	1,2-dichloroethane	5.42E-05
78-87-5	1,2-dichloropropane	9.78E-10
106-46-7	1,4-dichlorobenzene	4.19E-16
505-29-3	1,4-dithiane	1.48E-04
109-69-3	1-chlorobutane	5.59E-11
120-83-2	2,4-dichlorophenol	1.65E-14
78-93-3	2-butanone	2.88E-07
591-78-6	2-hexanone	8.38E-08
95-48-7	2-methyl phenol	2.31E-14
91-57-6	2-methylnaphthalene	1.21E-15
108-39-4	3-methyl phenol	1.76E-08
106-44-5	4-methyl phenol	2.56E-09
108-10-1	4-methyl-2-pentanone	4.11E-08
67-64-1	acetone	1.33E-06
107-02-8	acrolein	2.91E-08
98-83-9	alpha-methylstyrene	1.15E-08
71-43-2	benzene	9.59E-09
108-60-1	bis(2-chloroisopropyl) ether	1.27E-15
75-15-0	carbon disulfide	1.06E-07
108-90-7	chlorobenzene	6.63E-15
75-00-3	chloroethane	2.91E-07
67-66-3	chloroform	3.40E-08
74-87-3	chloromethane	6.98E-08
156-59-2	cis-1,2-dichloroethene	4.24E-13
75-71-8	dichlorodifluoromethane	2.10E-12
60-29-7	diethyl ether	3.40E-08
100-41-4	ethylbenzene	1.51E-07
505-60-2	HD	1.22E-07
110-54-3	hexane	1.78E-08
1634-04-4	methyl tert-butyl ether	7.07E-08
75-09-2	methylene chloride	1.63E-07
91-20-3	naphthalene	6.09E-10
98-95-3	nitrobenzene	1.84E-16
109-66-0	pentane	4.09E-08
108-95-2	phenol	3.66E-14
115-07-1	propene	4.12E-08
100-42-5	styrene	6.53E-14
127-18-4	tetrachloroethene	4.42E-07
111-48-8	thiodiglycol	7.52E-05
108-88-3	toluene	1.88E-07
156-60-5	trans-1,2-dichloroethene	1.39E-13
79-01-6	trichloroethene	1.79E-07
75-01-4	vinyl chloride	1.76E-05
1330-20-7	xylenes	3.90E-07
7429-90-5	aluminum	4.28E-10

Table G-4. Calculated Concentrations of COPCs with Noncarcinogenic Effects in the Dissolved Phase of Surface Water for All Exposure Scenarios (continued)

COPC		Concentration (mg COPC/ℓ surface water)
CAS No.	Compound Name	
7664-41-7	ammonia	1.54E-04
7440-38-2	arsenic	1.68E-11
7440-43-9	cadmium	8.18E-12
7782-50-5	chlorine	1.22E-05
7440-50-8	copper	1.18E-10
7647-01-0	hydrogen chloride	1.36E-05
74-90-8	hydrogen cyanide	1.17E-09
7440-22-4	silver	3.88E-13

Notes: Concentrations were not calculated for this media for the adult worker exposure scenario because the adult worker is not exposed via the ingestion or dermal water contact pathways.

Table G-5. Calculated Concentrations of Carcinogenic COPCs in Produce for Adult Exposure Scenarios

COPC		Concentration (mg COPC/kg)					
		Adult Resident and Subsistence Fisher Exposure Scenarios			Adult Subsistence Farmer Exposure Scenario		
CAS No.	Compound Name	Above-ground	Protected	Below-ground	Above-ground	Protected	Below-ground
79-34-5	1,1,2,2-tetrachloroethane	1.22E-08	9.73E-09	5.28E-07	9.78E-09	7.30E-09	3.96E-07
75-34-3	1,1-dichloroethane	6.30E-11	5.82E-11	3.30E-09	4.84E-11	4.37E-11	2.47E-09
120-82-1	1,2,4-trichlorobenzene	2.01E-17	6.74E-18	2.76E-15	1.84E-17	5.05E-18	2.07E-15
107-06-2	1,2-dichloroethane	2.20E-07	2.09E-07	1.09E-05	1.68E-07	1.57E-07	8.20E-06
78-87-5	1,2-dichloropropane	2.43E-12	2.15E-12	7.12E-11	1.89E-12	1.61E-12	5.34E-11
106-46-7	1,4-dichlorobenzene	6.50E-18	2.13E-18	5.55E-16	5.97E-18	1.59E-18	4.16E-16
71-43-2	benzene	1.39E-11	1.20E-11	4.06E-10	1.09E-11	9.01E-12	3.05E-10
108-60-1	bis(2-chloroisopropyl) ether	4.04E-15	4.04E-15	2.16E-14	3.03E-15	3.03E-15	1.62E-14
67-66-3	chloroform	4.76E-11	4.14E-11	1.54E-09	3.73E-11	3.10E-11	1.16E-09
100-41-4	ethylbenzene	3.46E-10	2.33E-10	2.89E-08	2.87E-10	1.75E-10	2.17E-08
505-60-2	HD	3.95E-09	6.98E-10	3.17E-09	3.78E-09	5.24E-10	2.37E-09
1634-04-4	methyl tert-butyl ether	2.65E-09	2.65E-09	2.25E-08	1.99E-09	1.98E-09	1.69E-08
75-09-2	methylene chloride	2.95E-10	2.84E-10	1.49E-08	2.25E-10	2.13E-10	1.12E-08
91-20-3	naphthalene	2.43E-09	2.41E-09	1.35E-09	1.82E-09	1.80E-09	1.01E-09
98-95-3	nitrobenzene	3.32E-16	3.30E-16	1.05E-15	2.49E-16	2.48E-16	7.88E-16
127-18-4	tetrachloroethene	6.34E-10	8.59E-11	6.36E-08	6.13E-10	6.44E-11	4.77E-08
79-01-6	trichloroethene	2.76E-10	2.43E-10	7.59E-09	2.15E-10	1.82E-10	5.69E-09
75-01-4	vinyl chloride	3.59E-09	3.51E-09	1.43E-07	2.71E-09	2.63E-09	1.08E-07
7440-38-2	arsenic	1.93E-09	6.88E-17	6.53E-17	1.93E-09	5.16E-17	4.89E-17
7440-43-9	cadmium	9.64E-10	4.36E-14	5.23E-14	9.64E-10	3.27E-14	3.92E-14
7439-92-1	lead	7.39E-09	5.43E-13	3.59E-13	7.39E-09	4.07E-13	2.69E-13

Notes: Concentrations were not calculated for this media for the adult worker exposure scenario because the adult worker is not exposed via the ingestion pathway.

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Table G-6. Calculated Concentrations of Carcinogenic COPCs in Produce for Child and Infant Exposure Scenarios

COPC		Concentration (mg COPC/kg)		
CAS No.	Compound Name	Above-ground	Protected	Below-ground
79-34-5	1,1,2,2-tetrachloroethane	6.09E-08	5.84E-08	3.17E-06
75-34-3	1,1-dichloroethane	3.54E-10	3.49E-10	1.98E-08
120-82-1	1,2,4-trichlorobenzene	5.38E-17	4.04E-17	1.66E-14
107-06-2	1,2-dichloroethane	1.26E-06	1.25E-06	6.56E-05
78-87-5	1,2-dichloropropane	1.32E-11	1.29E-11	4.27E-10
106-46-7	1,4-dichlorobenzene	1.71E-17	1.28E-17	3.33E-15
71-43-2	benzene	7.40E-11	7.21E-11	2.44E-09
108-60-1	bis(2-chloroisopropyl) ether	2.39E-14	2.39E-14	1.28E-13
67-66-3	chloroform	2.54E-10	2.48E-10	9.25E-09
100-41-4	ethylbenzene	1.51E-09	1.40E-09	1.73E-07
505-60-2	HD	7.44E-09	4.19E-09	1.90E-08
1634-04-4	methyl tert-butyl ether	1.59E-08	1.59E-08	1.35E-07
75-09-2	methylene chloride	1.71E-09	1.70E-09	8.93E-08
91-20-3	naphthalene	1.42E-08	1.42E-08	7.95E-09
98-95-3	nitrobenzene	1.98E-15	1.98E-15	6.29E-15
127-18-4	tetrachloroethene	1.06E-09	5.16E-10	3.82E-07
79-01-6	trichloroethene	1.49E-09	1.46E-09	4.55E-08
75-01-4	vinyl chloride	2.11E-08	2.11E-08	8.61E-07
7440-38-2	arsenic	1.93E-09	4.13E-16	3.92E-16
7440-43-9	cadmium	9.65E-10	2.61E-13	3.14E-13
7439-92-1	lead	7.39E-09	3.25E-12	2.15E-12

Table G-7. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Produce for All Exposure Scenarios

COPC		Concentration (mg COPC/kg)		
CAS No.	Compound Name	Above-ground	Protected	Below-ground
79-34-5	1,1,2,2-tetrachloroethane	6.09E-08	5.84E-08	3.17E-06
75-34-3	1,1-dichloroethane	3.54E-10	3.49E-10	1.98E-08
75-35-4	1,1-dichloroethene	1.79E-16	1.75E-16	5.93E-15
87-61-6	1,2,3-trichlorobenzene	1.19E-08	1.19E-08	1.06E-08
120-82-1	1,2,4-trichlorobenzene	5.38E-17	4.04E-17	1.66E-14
95-63-6	1,2,4-trimethyl benzene	7.64E-10	7.28E-10	3.79E-08
95-50-1	1,2-dichlorobenzene	6.42E-17	6.00E-17	3.42E-15
107-06-2	1,2-dichloroethane	1.26E-06	1.25E-06	6.56E-05
78-87-5	1,2-dichloropropane	1.32E-11	1.29E-11	4.27E-10
106-46-7	1,4-dichlorobenzene	1.71E-17	1.28E-17	3.33E-15
505-29-3	1,4-dithiane	8.22E-04	8.22E-04	5.20E-03
109-69-3	1-chlorobutane	8.42E-13	8.28E-13	1.22E-11
120-83-2	2,4-dichlorophenol	7.50E-15	7.36E-15	1.23E-12
78-93-3	2-butanone	1.33E-06	1.33E-06	3.67E-06
591-78-6	2-hexanone	1.59E-07	1.59E-07	1.01E-06
95-48-7	2-methyl phenol	8.28E-14	8.19E-14	4.68E-13
91-57-6	2-methylnaphthalene	6.05E-15	5.90E-15	9.06E-14
108-39-4	3-methyl phenol	7.40E-08	7.35E-08	4.19E-07
106-44-5	4-methyl phenol	3.18E-09	2.75E-09	9.68E-10
108-10-1	4-methyl-2-pentanone	5.55E-07	5.55E-07	2.66E-07
67-64-1	acetone	2.07E-06	2.07E-06	1.84E-05
107-02-8	acrolein	3.92E-08	3.92E-08	2.04E-07
98-83-9	alpha-methylstyrene	2.02E-09	1.95E-09	8.35E-08
71-43-2	benzene	7.40E-11	7.21E-11	2.44E-09
108-60-1	bis(2-chloroisopropyl) ether	2.42E-14	2.42E-14	1.30E-13
75-15-0	carbon disulfide	9.10E-11	8.84E-11	5.40E-09
108-90-7	chlorobenzene	1.29E-16	1.21E-16	9.81E-15
75-00-3	chloroethane	3.54E-10	3.50E-10	1.65E-08
67-66-3	chloroform	2.54E-10	2.48E-10	9.25E-09
74-87-3	chloromethane	3.25E-10	3.25E-10	4.82E-09
156-59-2	cis-1,2-dichloroethene	2.50E-13	2.50E-13	1.49E-11
75-71-8	dichlorodifluoromethane	1.08E-13	1.08E-13	8.49E-13
60-29-7	diethyl ether	1.75E-08	1.74E-08	1.36E-07
100-41-4	ethylbenzene	1.51E-09	1.40E-09	1.73E-07
505-60-2	HD	7.44E-09	4.19E-09	1.90E-08
110-54-3	hexane	5.57E-12	5.04E-12	3.65E-10
1634-04-4	methyl tert-butyl ether	1.59E-08	1.59E-08	1.35E-07
75-09-2	methylene chloride	1.71E-09	1.70E-09	8.93E-08
91-20-3	naphthalene	1.45E-08	1.44E-08	8.11E-09
98-95-3	nitrobenzene	1.98E-15	1.98E-15	6.31E-15
109-66-0	pentane	1.24E-11	1.19E-11	4.52E-10
108-95-2	phenol	5.09E-13	5.07E-13	2.11E-13
115-07-1	propene	2.90E-11	2.89E-11	3.06E-10
100-42-5	styrene	3.03E-13	3.03E-13	1.67E-13
127-18-4	tetrachloroethene	1.06E-09	5.16E-10	3.82E-07
111-48-8	thiodiglycol	1.06E-03	1.06E-03	3.76E-02
108-88-3	toluene	1.66E-09	1.60E-09	1.16E-07
156-60-5	trans-1,2-dichloroethene	7.31E-16	7.16E-16	2.91E-14
79-01-6	trichloroethene	1.49E-09	1.46E-09	4.55E-08
75-01-4	vinyl chloride	2.11E-08	2.11E-08	8.61E-07
1330-20-7	xylenes	2.13E-08	2.09E-08	5.98E-07
7429-90-5	aluminum	8.39E-08	1.20E-14	7.25E-15

Table G-7. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Produce for All Exposure Scenarios (continued)

COPC		Concentration (mg COPC/kg)		
CAS No.	Compound Name	Above-ground	Protected	Below-ground
7664-41-7	ammonia	2.57E-04	2.57E-04	3.53E-03
7440-38-2	arsenic	1.93E-09	4.13E-16	3.92E-16
7440-43-9	cadmium	9.65E-10	2.61E-13	3.14E-13
7782-50-5	chlorine	2.70E-05	2.70E-05	9.50E-05
7440-50-8	copper	2.04E-08	5.59E-11	5.19E-11
7647-01-0	hydrogen chloride	1.38E-05	1.38E-05	1.58E-04
74-90-8	hydrogen cyanide	2.18E-09	7.25E-10	7.25E-10
7440-22-4	silver	4.37E-11	1.84E-15	1.33E-15

Table G-8. Calculated Concentrations of Carcinogenic COPCs in Animal Products for the Adult Resident and Subsistence Fisher Exposure Scenarios

COPC		Concentration (mg COPC/kg)					
CAS No.	Compound Name	Beef	Pork	Dairy Milk	Fish	Chicken	Chicken Eggs
79-34-5	1,1,2,2-tetrachloroethane	7.43E-10	3.13E-10	2.62E-10	5.99E-06	7.99E-12	4.56E-12
75-34-3	1,1-dichloroethane	1.56E-12	7.22E-13	5.60E-13	2.51E-07	1.86E-14	1.07E-14
120-82-1	1,2,4-trichlorobenzene	6.02E-18	1.70E-18	1.94E-18	4.98E-14	4.07E-20	2.32E-20
107-06-2	1,2-dichloroethane	3.27E-09	1.54E-09	1.18E-09	1.54E-04	3.97E-11	2.27E-11
78-87-5	1,2-dichloropropane	8.27E-14	3.72E-14	2.95E-14	6.75E-09	9.58E-16	5.46E-16
106-46-7	1,4-dichlorobenzene	1.28E-18	3.28E-19	2.00E-18	4.11E-14	7.26E-21	4.15E-21
71-43-2	benzene	5.52E-13	2.44E-13	1.96E-13	7.91E-08	6.26E-15	3.57E-15
108-60-1	bis(2-chloroisopropyl) ether	3.35E-16	1.67E-16	1.19E-16	1.18E-14	4.42E-18	2.52E-18
67-66-3	chloroform	1.62E-12	7.18E-13	5.75E-13	2.35E-07	1.84E-14	1.05E-14
100-41-4	ethylbenzene	4.91E-11	1.93E-11	1.69E-11	7.33E-06	4.90E-13	2.80E-13
505-60-2	HD	2.17E-10	3.66E-11	7.10E-11	1.75E-06	5.81E-13	3.32E-13
1634-04-4	methyl tert-butyl ether	1.36E-11	6.57E-12	4.92E-12	2.21E-07	1.70E-13	9.78E-14
75-09-2	methylene chloride	3.05E-12	1.44E-12	1.10E-12	3.27E-07	3.72E-14	2.13E-14
91-20-3	naphthalene	4.59E-10	2.37E-10	1.60E-10	3.73E-08	6.45E-12	3.70E-12
98-95-3	nitrobenzene	9.04E-18	4.40E-18	1.55E-17	6.13E-16	1.15E-19	6.57E-20
127-18-4	tetrachloroethene	1.08E-10	1.70E-11	3.50E-11	3.66E-05	2.60E-13	1.49E-13
79-01-6	trichloroethene	1.70E-11	7.69E-12	6.04E-12	2.51E-06	1.99E-13	1.14E-13
75-01-4	vinyl chloride	4.45E-11	2.15E-11	1.61E-11	4.21E-05	5.55E-13	3.17E-13
7440-38-2	arsenic	4.12E-10	0.00E+00	1.87E-11	1.92E-09	0.00E+00	0.00E+00
7440-43-9	cadmium	1.24E-11	8.52E-13	1.01E-12	7.41E-09	1.74E-15	4.10E-17
7439-92-1	lead	2.37E-10	0.00E+00	2.99E-10	3.62E-12	0.00E+00	0.00E+00

Table G-9. Calculated Concentrations of Carcinogenic COPCs in Animal Products for the Adult Subsistence Farmer Exposure Scenario

COPC		Concentration (mg COPC/kg)					
CAS No.	Compound Name	Beef	Pork	Dairy Milk	Fish	Chicken	Chicken Eggs
79-34-5	1,1,2,2-tetrachloroethane	5.90E-10	2.38E-10	2.07E-10	5.98E-06	5.99E-12	3.42E-12
75-34-3	1,1-dichloroethane	1.20E-12	5.43E-13	4.28E-13	2.51E-07	1.40E-14	7.99E-15
120-82-1	1,2,4-trichlorobenzene	5.39E-18	1.35E-18	1.73E-18	4.97E-14	3.05E-20	1.74E-20
107-06-2	1,2-dichloroethane	2.48E-09	1.16E-09	8.95E-10	1.54E-04	2.98E-11	1.70E-11
78-87-5	1,2-dichloropropane	6.41E-14	2.81E-14	2.28E-14	6.75E-09	7.18E-16	4.09E-16
106-46-7	1,4-dichlorobenzene	1.16E-18	2.62E-19	1.80E-18	4.11E-14	5.44E-21	3.11E-21
71-43-2	benzene	4.30E-13	1.84E-13	1.52E-13	7.91E-08	4.69E-15	2.68E-15
108-60-1	bis(2-chloroisopropyl) ether	2.51E-16	1.25E-16	8.95E-17	1.11E-14	3.31E-18	1.89E-18
67-66-3	chloroform	1.26E-12	5.42E-13	4.46E-13	2.35E-07	1.38E-14	7.88E-15
100-41-4	ethylbenzene	4.03E-11	1.48E-11	1.38E-11	7.33E-06	3.68E-13	2.10E-13
505-60-2	HD	2.06E-10	3.11E-11	6.70E-11	1.75E-06	4.36E-13	2.49E-13
1634-04-4	methyl tert-butyl ether	1.02E-11	4.93E-12	3.69E-12	2.21E-07	1.28E-13	7.33E-14
75-09-2	methylene chloride	2.31E-12	1.08E-12	8.30E-13	3.27E-07	2.79E-14	1.60E-14
91-20-3	naphthalene	3.45E-10	1.78E-10	1.20E-10	3.70E-08	4.84E-12	2.77E-12
98-95-3	nitrobenzene	6.79E-18	3.30E-18	1.16E-17	5.95E-16	8.63E-20	4.93E-20
127-18-4	tetrachloroethene	1.03E-10	1.46E-11	3.34E-11	3.66E-05	1.95E-13	1.12E-13
79-01-6	trichloroethene	1.32E-11	5.80E-12	4.67E-12	2.51E-06	1.50E-13	8.53E-14
75-01-4	vinyl chloride	3.36E-11	1.61E-11	1.22E-11	4.21E-05	4.16E-13	2.38E-13
7440-38-2	arsenic	4.12E-10	0.00E+00	1.87E-11	1.92E-09	0.00E+00	0.00E+00
7440-43-9	cadmium	1.24E-11	8.52E-13	1.01E-12	7.41E-09	1.31E-15	3.07E-17
7439-92-1	lead	2.37E-10	0.00E+00	2.99E-10	3.62E-12	0.00E+00	0.00E+00

Table G-10. Calculated Concentrations of Carcinogenic COPCs in Animal Products for Child and Infant Exposure Scenarios

COPC		Concentration (mg COPC/kg)					
CAS No.	Compound Name	Beef	Pork	Dairy Milk	Fish	Chicken	Chicken Eggs
79-34-5	1,1,2,2-tetrachloroethane	3.81E-09	1.83E-09	1.36E-09	6.19E-06	4.79E-11	2.73E-11
75-34-3	1,1-dichloroethane	8.88E-12	4.29E-12	3.20E-12	2.51E-07	1.12E-13	6.40E-14
120-82-1	1,2,4-trichlorobenzene	1.86E-17	8.74E-18	6.07E-18	5.15E-14	2.44E-19	1.39E-19
107-06-2	1,2-dichloroethane	1.89E-08	9.16E-09	6.84E-09	1.55E-04	2.38E-10	1.36E-10
78-87-5	1,2-dichloropropane	4.55E-13	2.20E-13	1.64E-13	6.77E-09	5.75E-15	3.28E-15
106-46-7	1,4-dichlorobenzene	3.77E-18	1.64E-18	6.05E-18	4.14E-14	4.35E-20	2.49E-20
71-43-2	benzene	2.98E-12	1.44E-12	1.07E-12	7.92E-08	3.75E-14	2.14E-14
108-60-1	bis(2-chloroisopropyl) ether	1.98E-15	9.84E-16	7.05E-16	2.53E-14	2.61E-17	1.49E-17
67-66-3	chloroform	8.79E-12	4.23E-12	3.16E-12	2.35E-07	1.11E-13	6.30E-14
100-41-4	ethylbenzene	2.26E-10	1.10E-10	7.93E-11	7.34E-06	2.94E-12	1.68E-12
505-60-2	HD	4.40E-10	1.47E-10	1.51E-10	1.75E-06	3.49E-12	1.99E-12
1634-04-4	methyl tert-butyl ether	8.14E-11	3.94E-11	2.95E-11	2.23E-07	1.02E-12	5.87E-13
75-09-2	methylene chloride	1.78E-11	8.59E-12	6.41E-12	3.27E-07	2.23E-13	1.28E-13
91-20-3	naphthalene	2.69E-09	1.39E-09	9.34E-10	4.21E-08	3.79E-11	2.18E-11
98-95-3	nitrobenzene	5.39E-17	2.63E-17	9.24E-17	9.72E-16	6.89E-19	3.93E-19
127-18-4	tetrachloroethene	1.99E-10	6.42E-11	6.63E-11	3.66E-05	1.56E-12	8.93E-13
79-01-6	trichloroethene	9.35E-11	4.54E-11	3.35E-11	2.52E-06	1.20E-12	6.82E-13
75-01-4	vinyl chloride	2.63E-10	1.28E-10	9.55E-11	4.21E-05	3.33E-12	1.90E-12
7440-38-2	arsenic	4.12E-10	0.00E+00	1.87E-11	1.92E-09	0.00E+00	0.00E+00
7440-43-9	cadmium	1.24E-11	8.52E-13	1.01E-12	7.41E-09	1.04E-14	2.46E-16
7439-92-1	lead	2.37E-10	0.00E+00	2.99E-10	3.64E-12	0.00E+00	0.00E+00

Table G-11. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Animal Products for All Exposure Scenarios

COPC		Concentration (mg COPC/kg)					
CAS No.	Compound Name	Beef	Pork	Dairy Milk	Fish	Chicken	Chicken Eggs
79-34-5	1,1,2,2-tetrachloroethane	3.81E-09	1.83E-09	1.36E-09	6.19E-06	4.79E-11	2.73E-11
75-34-3	1,1-dichloroethane	8.88E-12	4.29E-12	3.20E-12	2.51E-07	1.12E-13	6.40E-14
75-35-4	1,1-dichloroethene	7.24E-15	3.50E-15	2.60E-18	8.96E-13	9.14E-17	5.22E-17
87-61-6	1,2,3-trichlorobenzene	4.39E-09	2.47E-09	1.43E-09	3.32E-07	7.18E-11	4.10E-11
120-82-1	1,2,4-trichlorobenzene	1.86E-17	8.74E-18	6.07E-18	5.15E-14	2.44E-19	1.39E-19
95-63-6	1,2,4-trimethyl benzene	2.01E-10	1.04E-10	6.80E-11	1.18E-06	2.88E-12	1.65E-12
95-50-1	1,2-dichlorobenzene	1.31E-17	6.52E-18	4.51E-18	3.40E-14	1.78E-19	1.02E-19
107-06-2	1,2-dichloroethane	1.89E-08	9.16E-09	6.84E-09	1.55E-04	2.38E-10	1.36E-10
78-87-5	1,2-dichloropropane	4.55E-13	2.20E-13	1.64E-13	6.77E-09	5.75E-15	3.28E-15
106-46-7	1,4-dichlorobenzene	3.77E-18	1.64E-18	6.05E-18	4.14E-14	4.35E-20	2.49E-20
505-29-3	1,4-dithiane	9.92E-06	4.80E-06	3.57E-06	3.41E-04	1.25E-07	7.14E-08
109-69-3	1-chlorobutane	7.32E-14	3.60E-14	2.60E-14	1.20E-09	9.54E-16	5.46E-16
120-83-2	2,4-dichlorophenol	5.09E-16	2.53E-16	1.80E-16	2.25E-13	6.76E-18	3.86E-18
78-93-3	2-butanone	1.65E-09	8.03E-10	5.99E-10	9.10E-07	2.09E-11	1.19E-11
591-78-6	2-hexanone	1.92E-09	9.31E-10	6.93E-10	1.93E-07	2.42E-11	1.39E-11
95-48-7	2-methyl phenol	2.63E-12	1.28E-12	9.48E-16	1.46E-13	3.34E-14	1.91E-14
91-57-6	2-methylnaphthalene	1.97E-15	1.06E-15	6.55E-16	2.26E-13	3.03E-17	1.73E-17
108-39-4	3-methyl phenol	2.37E-09	1.15E-09	8.53E-10	1.14E-07	3.02E-11	1.73E-11
106-44-5	4-methyl phenol	9.21E-11	4.07E-11	3.28E-11	1.48E-08	1.04E-12	5.92E-13
108-10-1	4-methyl-2-pentanone	4.76E-09	2.31E-09	1.73E-09	6.87E-08	6.01E-11	3.43E-11
67-64-1	acetone	7.01E-10	3.40E-10	2.54E-10	4.20E-06	8.86E-12	5.04E-12
107-02-8	acrolein	2.37E-11	1.15E-11	8.53E-12	9.20E-08	2.98E-13	1.71E-13
98-83-9	alpha-methylstyrene	4.59E-10	2.36E-10	1.58E-10	1.09E-06	6.49E-12	3.71E-12
71-43-2	benzene	2.98E-12	1.44E-12	1.07E-12	7.92E-08	3.75E-14	2.14E-14
108-60-1	bis(2-chloroisopropyl) ether	1.98E-15	9.84E-16	7.05E-16	2.56E-14	2.61E-17	1.49E-17
75-15-0	carbon disulfide	4.27E-12	2.06E-12	1.53E-12	1.05E-06	5.38E-14	3.07E-14
108-90-7	chlorobenzene	1.36E-14	6.53E-16	4.81E-15	1.90E-13	1.73E-16	9.87E-17
75-00-3	chloroethane	4.39E-12	2.14E-12	1.59E-12	6.95E-07	5.53E-14	3.16E-14
67-66-3	chloroform	8.79E-12	4.23E-12	3.16E-12	2.35E-07	1.11E-13	6.30E-14
74-87-3	chloromethane	1.57E-12	7.61E-13	5.67E-13	2.21E-07	1.97E-14	1.13E-14
156-59-2	cis-1,2-dichloroethene	7.39E-15	3.61E-15	2.66E-15	2.45E-12	9.45E-17	5.40E-17
75-71-8	dichlorodifluoromethane	4.78E-15	2.35E-12	1.72E-15	1.93E-11	6.17E-14	3.52E-14
60-29-7	diethyl ether	8.06E-11	3.90E-11	2.92E-11	1.08E-07	1.01E-12	5.79E-13

Table G-11. Calculated Concentrations of Noncarcinogenic COPCs in Animal Products for All Exposure Scenarios (continued)

COPC		Concentration (mg COPC/kg)					
CAS No.	Compound Name	Beef	Pork	Dairy Milk	Fish	Chicken	Chicken Eggs
100-41-4	ethylbenzene	2.26E-10	1.10E-10	7.93E-11	7.34E-06	2.94E-12	1.68E-12
505-60-2	HD	4.40E-10	1.47E-10	1.51E-10	1.75E-06	3.49E-12	1.99E-12
110-54-3	hexane	1.85E-12	9.56E-13	6.12E-13	3.57E-06	2.71E-14	1.54E-14
1634-04-4	methyl tert-butyl ether	8.14E-11	3.94E-11	2.95E-11	2.23E-07	1.02E-12	5.87E-13
75-09-2	methylene chloride	1.78E-11	8.59E-12	6.41E-12	3.27E-07	2.23E-13	1.28E-13
91-20-3	naphthalene	2.69E-09	1.39E-09	9.34E-10	4.22E-08	3.79E-11	2.18E-11
98-95-3	nitrobenzene	5.39E-17	2.63E-17	9.24E-17	9.73E-16	6.89E-19	3.93E-19
109-66-0	pentane	2.57E-12	1.30E-12	8.84E-13	3.33E-06	3.55E-14	2.03E-14
108-95-2	phenol	7.55E-15	3.66E-15	2.73E-15	1.04E-13	9.54E-17	5.45E-17
115-07-1	propene	6.93E-13	3.37E-13	2.49E-13	1.90E-07	8.81E-15	5.03E-15
100-42-5	styrene	4.11E-12	2.08E-12	1.45E-11	2.66E-12	5.60E-13	3.20E-13
127-18-4	tetrachloroethene	1.99E-10	6.42E-11	6.63E-11	3.66E-05	1.56E-12	8.93E-13
111-48-8	thiodiglycol	1.22E-07	5.93E-08	4.43E-08	2.38E-04	1.53E-09	8.74E-10
108-88-3	toluene	1.56E-10	7.55E-11	5.52E-11	4.50E-06	2.00E-12	1.14E-12
156-60-5	trans-1,2-dichloroethene	2.95E-17	1.43E-17	1.06E-17	1.15E-12	3.73E-19	2.13E-19
79-01-6	trichloroethene	9.35E-11	4.54E-11	3.35E-11	2.52E-06	1.20E-12	6.82E-13
75-01-4	vinyl chloride	2.63E-10	1.28E-10	9.55E-11	4.21E-05	3.33E-12	1.90E-12
1330-20-7	xylenes	3.46E-09	1.75E-09	1.21E-09	2.11E-05	4.73E-11	2.71E-11
7429-90-5	aluminum	1.35E-08	0.00E+00	2.71E-09	1.35E-09	0.00E+00	0.00E+00
7664-41-7	ammonia	0.00E+00	0.00E+00	0.00E+00	4.86E-04	0.00E+00	0.00E+00
7440-38-2	arsenic	4.12E-10	0.00E+00	1.87E-11	1.92E-09	0.00E+00	0.00E+00
7440-43-9	cadmium	1.24E-11	8.52E-13	1.01E-12	7.41E-09	1.04E-14	2.46E-16
7782-50-5	chlorine	1.15E-07	5.59E-08	4.18E-08	3.85E-05	1.46E-09	8.33E-10
7440-50-8	copper	2.18E-08	0.00E+00	4.93E-09	3.73E-10	0.00E+00	0.00E+00
7647-01-0	hydrogen chloride	8.51E-09	4.12E-09	3.08E-09	4.30E-05	1.07E-10	6.11E-11
74-90-8	hydrogen cyanide	0.00E+00	0.00E+00	0.00E+00	3.71E-09	0.00E+00	0.00E+00
7440-22-4	silver	1.40E-11	0.00E+00	1.41E-10	3.40E-11	0.00E+00	0.00E+00

Table G-12. Calculated Concentrations of Carcinogenic COPCs in Breast Milk for All Infant Exposure Scenarios

COPC		Concentration in Breast Milk (mg COPC/kg milk)		
CAS No.	Compound Name	Resident	Subsistence Farmer	Subsistence Fisher
79-34-5	1,1,2,2-tetrachloroethane	NA	NA	NA
75-34-3	1,1-dichloroethane	NA	NA	NA
120-82-1	1,2,4-trichlorobenzene	1.34E-15	1.93E-15	3.09E-15
107-06-2	1,2-dichloroethane	1.14E-05	1.35E-05	1.68E-05
78-87-5	1,2-dichloropropane	NA	NA	NA
106-46-7	1,4-dichlorobenzene	1.06E-15	1.43E-15	2.50E-15
71-43-2	benzene	3.58E-09	4.27E-09	6.36E-09
108-60-1	bis(2-chloroisopropyl) ether	NA	NA	NA
67-66-3	chloroform	1.02E-08	1.22E-08	1.85E-08
100-41-4	ethylbenzene	1.90E-07	2.52E-07	4.48E-07
505-60-2	HD	NA	NA	NA
1634-04-4	methyl tert-butyl ether	1.33E-08	1.77E-08	2.11E-08
75-09-2	methylene chloride	3.60E-08	3.99E-08	4.75E-08
91-20-3	naphthalene	1.68E-09	3.03E-09	2.99E-09
98-95-3	nitrobenzene	NA	NA	NA
127-18-4	tetrachloroethene	9.36E-07	1.23E-06	2.22E-06
79-01-6	trichloroethene	8.44E-08	1.05E-07	1.73E-07
75-01-4	vinyl chloride	NA	NA	NA
7440-38-2	arsenic	4.81E-09	1.45E-08	5.87E-09
7440-43-9	cadmium	1.02E-06	2.19E-06	1.90E-06
7439-92-1	lead	3.40E-06	1.12E-05	3.40E-06

Notes: NA – not appropriate. No data was found suggesting this COPC would be found in the breast milk pathway.

Table G-13. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Breast Milk for All Infant Exposure Scenarios

COPC		Concentration in Breast Milk (mg COPC/kg milk)		
CAS No.	Compound Name	Resident	Subsistence Farmer	Subsistence Fisher
79-34-5	1,1,2,2-tetrachloroethane	NA	NA	NA
75-34-3	1,1-dichloroethane	NA	NA	NA
75-35-4	1,1-dichloroethene	NA	NA	NA
87-61-6	1,2,3-trichlorobenzene	3.13E-08	4.62E-08	6.16E-08
120-82-1	1,2,4-trichlorobenzene	5.59E-15	8.60E-15	1.03E-14
95-63-6	1,2,4-trimethyl benzene	NA	NA	NA
95-50-1	1,2-dichlorobenzene	3.34E-15	4.02E-15	6.46E-15
107-06-2	1,2-dichloroethane	1.26E-04	1.39E-04	1.41E-04
78-87-5	1,2-dichloropropane	NA	NA	NA
106-46-7	1,4-dichlorobenzene	3.75E-15	4.36E-15	7.54E-15
505-29-3	1,4-dithiane	NA	NA	NA
109-69-3	1-chlorobutane	NA	NA	NA
120-83-2	2,4-dichlorophenol	NA	NA	NA
78-93-3	2-butanone	1.85E-06	3.82E-06	1.94E-06
591-78-6	2-hexanone	NA	NA	NA
95-48-7	2-methyl phenol	NA	NA	NA
91-57-6	2-methylnaphthalene	NA	NA	NA
108-39-4	3-methyl phenol	NA	NA	NA
106-44-5	4-methyl phenol	NA	NA	NA
108-10-1	4-methyl-2-pentanone	4.78E-07	1.07E-06	4.84E-07
67-64-1	acetone	6.06E-06	1.14E-05	6.44E-06
107-02-8	acrolein	NA	NA	NA
98-83-9	alpha-methylstyrene	9.42E-08	1.11E-07	1.94E-07
71-43-2	benzene	3.00E-08	3.05E-08	3.72E-08
108-60-1	bis(2-chloroisopropyl) ether	NA	NA	NA
75-15-0	carbon disulfide	2.08E-07	2.09E-07	3.04E-07
108-90-7	chlorobenzene	2.85E-14	3.42E-14	4.59E-14
75-00-3	chloroethane	4.63E-07	4.66E-07	5.26E-07
67-66-3	chloroform	8.34E-08	8.53E-08	1.05E-07
74-87-3	chloromethane	NA	NA	NA
156-59-2	cis-1,2-dichloroethene	NA	NA	NA
75-71-8	dichlorodifluoromethane	5.83E-12	6.19E-12	7.60E-12
60-29-7	diethyl ether	NA	NA	NA
100-41-4	ethylbenzene	6.58E-07	6.90E-07	1.33E-06
505-60-2	HD	NA	NA	NA
110-54-3	hexane	2.49E-07	2.49E-07	5.75E-07
1634-04-4	methyl tert-butyl ether	1.37E-07	1.77E-07	1.57E-07
75-09-2	methylene chloride	4.50E-07	4.68E-07	4.80E-07
91-20-3	naphthalene	1.48E-08	3.13E-08	1.86E-08
98-95-3	nitrobenzene	NA	NA	NA
109-66-0	pentane	NA	NA	NA
108-95-2	phenol	3.75E-13	9.16E-13	3.85E-13
115-07-1	propene	8.98E-08	8.98E-08	1.07E-07
100-42-5	styrene	6.06E-12	1.47E-11	6.30E-12
127-18-4	tetrachloroethene	3.24E-06	3.31E-06	6.59E-06
111-48-8	thiodiglycol	NA	NA	NA
108-88-3	toluene	5.30E-07	5.52E-07	9.42E-07
156-60-5	trans-1,2-dichloroethene	NA	NA	NA
79-01-6	trichloroethene	5.20E-07	5.29E-07	7.50E-07
75-01-4	vinyl chloride	NA	NA	NA

Table G-13. Calculated Concentrations of COPCs with Noncarcinogenic Effects in Breast Milk for All Infant Exposure Scenarios (continued)

COPC		Concentration in Breast Milk (mg COPC/kg milk)		
CAS No.	Compound Name	Resident	Subsistence Farmer	Subsistence Fisher
1330-20-7	xylenes	1.93E-06	2.05E-06	3.86E-06
7429-90-5	aluminum	3.19E-08	7.62E-08	3.20E-08
7664-41-7	ammonia	NA	NA	NA
7440-38-2	arsenic	1.32E-08	2.90E-08	1.59E-08
7440-43-9	cadmium	2.71E-06	4.35E-06	5.02E-06
7782-50-5	chlorine	NA	NA	NA
7440-50-8	copper	3.52E-05	8.52E-05	3.53E-05
7647-01-0	hydrogen chloride	NA	NA	NA
74-90-8	hydrogen cyanide	NA	NA	NA
7440-22-4	silver	2.36E-07	5.74E-07	2.47E-07

Notes: NA – not appropriate. No data was found suggesting this COPC would be found in the breast milk pathway.

Table G-14. Calculated Direct Inhalation Exposure Concentration of Carcinogenic COPCs for All Exposure Scenarios

COPC		Direct Inhalation Exposure Concentration (μg COPC/m^3)			
		Adult Exposure Scenarios			
CAS No.	Compound Name	Resident, Subsistence Fisher, and Subsistence Farmer	Worker	All Child Exposure Scenarios	All Infant Exposure Scenarios
79-34-5	1,1,2,2-tetrachloroethane	3.10E-06	7.38E-07	3.10E-06	6.20E-07
75-34-3	1,1-dichloroethane	4.28E-07	1.02E-07	4.28E-07	8.56E-08
107-06-2	1,2-dichloroethane	3.64E-04	8.67E-05	3.64E-04	7.28E-05
78-87-5	1,2-dichloropropane	7.71E-09	1.84E-09	7.71E-09	1.54E-09
106-46-7	1,4-dichlorobenzene	2.60E-15	6.19E-16	2.60E-15	5.20E-16
71-43-2	benzene	8.28E-08	1.97E-08	8.28E-08	1.66E-08
108-60-1	bis(2-chloroisopropyl) ether	2.79E-15	6.64E-16	2.79E-15	5.58E-16
67-66-3	chloroform	2.27E-07	5.40E-08	2.27E-07	4.54E-08
100-41-4	ethylbenzene	5.85E-07	1.39E-07	5.85E-07	1.17E-07
505-60-2	HD	3.85E-07	9.16E-08	3.85E-07	7.70E-08
1634-04-4	methyl tert-butyl ether	3.25E-07	7.74E-08	3.25E-07	6.50E-08
75-09-2	methylene chloride	1.41E-06	3.36E-07	1.41E-06	2.82E-07
91-20-3	naphthalene	3.90E-09	9.28E-10	3.90E-09	7.79E-10
98-95-3	nitrobenzene	5.09E-16	1.21E-16	5.09E-16	1.02E-16
127-18-4	tetrachloroethene	3.11E-06	7.41E-07	3.11E-06	6.22E-07
79-01-6	trichloroethene	1.20E-06	2.85E-07	1.20E-06	2.39E-07
75-01-4	vinyl chloride	9.32E-05	2.22E-05	9.32E-05	1.86E-05
7440-38-2	arsenic	1.75E-10	4.18E-11	1.75E-10	3.51E-11
7440-43-9	cadmium	8.79E-11	2.09E-11	8.79E-11	1.76E-11
7439-92-1	lead	6.74E-10	1.60E-10	6.74E-10	1.35E-10

Table G-15. Calculated Direct Inhalation Exposure Concentration of COPCs with Noncarcinogenic Effects for All Exposure Scenarios

COPC		Direct Inhalation Exposure Concentration (µg COPC/m^3)			
		Adult Exposure Scenarios			
CAS No	Compound Name	Resident, Subsistence Fisher, and Subsistence Farmer	Worker	All Child Exposure Scenarios	All Infant Exposure Scenarios
79-34-5	1,1,2,2-tetrachloroethane	4.84E-05	1.15E-05	4.84E-05	4.84E-05
75-34-3	1,1-dichloroethane	6.67E-06	1.59E-06	6.67E-06	6.67E-06
75-35-4	1,1-dichloroethene	1.22E-11	2.90E-12	1.22E-11	1.22E-11
87-61-6	1,2,3-trichlorobenzene	4.53E-08	1.08E-08	4.53E-08	4.53E-08
120-82-1	1,2,4-trichlorobenzene	2.12E-14	5.04E-15	2.12E-14	2.12E-14
95-63-6	1,2,4-trimethyl benzene	6.34E-07	1.51E-07	6.34E-07	6.34E-07
95-50-1	1,2-dichlorobenzene	4.08E-14	9.71E-15	4.08E-14	4.08E-14
107-06-2	1,2-dichloroethane	5.68E-03	1.35E-03	5.68E-03	5.68E-03
78-87-5	1,2-dichloropropane	1.20E-07	2.86E-08	1.20E-07	1.20E-07
106-46-7	1,4-dichlorobenzene	4.06E-14	9.66E-15	4.06E-14	4.06E-14
505-29-3	1,4-dithiane	2.33E-03	5.54E-04	2.33E-03	2.33E-03
109-69-3	1-chlorobutane	7.77E-09	1.85E-09	7.77E-09	7.77E-09
120-83-2	2,4-dichlorophenol	7.54E-15	1.79E-15	7.54E-15	7.54E-15
78-93-3	2-butanone	2.55E-05	6.08E-06	2.55E-05	2.55E-05
591-78-6	2-hexanone	6.19E-06	1.47E-06	6.19E-06	6.19E-06
95-48-7	2-methyl phenol	1.93E-13	4.58E-14	1.93E-13	1.93E-13
91-57-6	2-methylnaphthalene	1.27E-13	3.03E-14	1.27E-13	1.27E-13
108-39-4	3-methyl phenol	6.66E-08	1.59E-08	6.66E-08	6.66E-08
106-44-5	4-methyl phenol	6.66E-08	1.59E-08	6.66E-08	6.66E-08
108-10-1	4-methyl-2-pentanone	4.01E-06	9.54E-07	4.01E-06	4.01E-06
67-64-1	acetone	1.18E-04	2.82E-05	1.18E-04	1.18E-04
107-02-8	acrolein	1.98E-06	4.71E-07	1.98E-06	1.98E-06
98-83-9	alpha-methylstyrene	7.61E-07	1.81E-07	7.61E-07	7.61E-07
71-43-2	benzene	1.29E-06	3.08E-07	1.29E-06	1.29E-06
108-60-1	bis(2-chloroisopropyl) ether	4.35E-14	1.04E-14	4.35E-14	4.35E-14
75-15-0	carbon disulfide	7.36E-06	1.75E-06	7.36E-06	7.36E-06
108-90-7	chlorobenzene	6.73E-13	1.60E-13	6.73E-13	6.73E-13
75-00-3	chloroethane	2.18E-05	5.19E-06	2.18E-05	2.18E-05
67-66-3	chloroform	3.54E-06	8.43E-07	3.54E-06	3.54E-06
74-87-3	chloromethane	5.61E-06	1.34E-06	5.61E-06	5.61E-06
156-59-2	cis-1,2-dichloroethene	3.95E-11	9.40E-12	3.95E-11	3.95E-11
75-71-8	dichlorodifluoromethane	2.30E-10	5.48E-11	2.30E-10	2.30E-10
60-29-7	diethyl ether	3.93E-06	9.36E-07	3.93E-06	3.93E-06

Table G-15. Calculated Direct Inhalation Exposures Intake to Noncarcinogenic COPCs for All Exposure Scenarios (continued)

COPC		Direct Inhalation Exposure Concentration (μg COPC/m^3)			
		Adult Exposure Scenarios			
CAS No.	Compound Name	Resident, Subsistence Fisher, and Subsistence Farmer	Worker	All Child Exposure Scenarios	All Infant Exposure Scenarios
100-41-4	ethylbenzene	9.13E-06	2.17E-06	9.13E-06	9.13E-06
505-60-2	HD	6.00E-06	1.43E-06	6.00E-06	6.00E-06
110-54-3	hexane	1.37E-06	3.26E-07	1.37E-06	1.37E-06
1634-04-4	methyl tert-butyl ether	5.07E-06	1.21E-06	5.07E-06	5.07E-06
75-09-2	methylene chloride	2.20E-05	5.24E-06	2.20E-05	2.20E-05
91-20-3	naphthalene	6.08E-08	1.45E-08	6.08E-08	6.08E-08
98-95-3	nitrobenzene	7.94E-15	1.89E-15	7.94E-15	7.94E-15
109-66-0	pentane	3.30E-06	7.85E-07	3.30E-06	3.30E-06
108-95-2	phenol	4.00E-13	9.53E-14	4.00E-13	4.00E-13
115-07-1	propene	4.06E-06	9.66E-07	4.06E-06	4.06E-06
100-42-5	styrene	6.34E-12	1.51E-12	6.34E-12	6.34E-12
127-18-4	tetrachloroethene	4.85E-05	1.16E-05	4.85E-05	4.85E-05
111-48-8	thiodiglycol	1.48E-05	3.51E-06	1.48E-05	1.48E-05
108-88-3	toluene	1.20E-05	2.87E-06	1.20E-05	1.20E-05
156-60-5	trans-1,2-dichloroethene	1.69E-11	4.02E-12	1.69E-11	1.69E-11
79-01-6	trichloroethene	1.87E-05	4.45E-06	1.87E-05	1.87E-05
75-01-4	vinyl chloride	1.45E-03	3.46E-04	1.45E-03	1.45E-03
1330-20-7	xylenes	2.69E-05	6.41E-06	2.69E-05	2.69E-05
7429-90-5	aluminum	1.19E-07	2.84E-08	1.19E-07	1.19E-07
7664-41-7	ammonia	2.28E-02	5.44E-03	2.28E-02	2.28E-02
7440-38-2	arsenic	2.74E-09	6.52E-10	2.74E-09	2.74E-09
7440-43-9	cadmium	1.37E-09	3.26E-10	1.37E-09	1.37E-09
7782-50-5	chlorine	7.60E-04	1.81E-04	7.60E-04	7.60E-04
7440-50-8	copper	2.89E-08	6.89E-09	2.89E-08	2.89E-08
7647-01-0	hydrogen chloride	8.86E-04	2.11E-04	8.86E-04	8.86E-04
74-90-8	hydrogen cyanide	2.04E-07	4.86E-08	2.04E-07	2.04E-07
7440-22-4	silver	6.22E-11	1.48E-11	6.22E-11	6.22E-11

Table G-16. Calculated Indirect Exposures to Carcinogenic COPCs for Adult Exposure Scenarios

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)				Total Dermal Absorbed Dose (mg COPC/kg body weight - day)				Total Indirect Exposure (mg COPC/kg body weight - day)			
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Worker	Resident	Sub. Fisher	Sub. Farmer	Worker	Resident	Sub. Fisher	Sub. Farmer	Worker
79-34-5	1,1,2,2-tetrachloroethane	2.23E-09	5.01E-09	3.38E-09	2.02E-15	4.00E-11	4.00E-11	5.32E-11	1.33E-15	2.27E-09	5.05E-09	3.44E-09	3.35E-15
75-34-3	1,1-dichloroethane	8.15E-11	1.98E-10	1.11E-10	5.43E-18	3.64E-12	3.64E-12	4.86E-12	3.58E-18	8.52E-11	2.02E-10	1.16E-10	9.01E-18
120-82-1	1,2,4-trichlorobenzene	1.72E-17	4.03E-17	2.49E-17	1.17E-23	1.99E-19	1.99E-19	2.65E-19	7.74E-24	1.74E-17	4.05E-17	2.51E-17	1.95E-23
107-06-2	1,2-dichloroethane	5.68E-08	1.28E-07	8.43E-08	1.31E-14	2.40E-09	2.40E-09	3.20E-09	8.63E-15	5.92E-08	1.31E-07	8.75E-08	2.17E-14
78-87-5	1,2-dichloropropane	2.17E-12	5.31E-12	2.96E-12	2.62E-19	8.31E-14	8.31E-14	1.11E-13	1.73E-19	2.26E-12	5.40E-12	3.07E-12	4.35E-19
106-46-7	1,4-dichlorobenzene	1.31E-17	3.22E-17	1.79E-17	1.91E-24	2.07E-19	2.07E-19	2.76E-19	1.26E-24	1.33E-17	3.24E-17	1.82E-17	3.17E-24
71-43-2	benzene	2.51E-11	6.19E-11	3.38E-11	1.67E-18	1.41E-12	1.41E-12	1.89E-12	1.10E-18	2.65E-11	6.33E-11	3.57E-11	2.77E-18
108-60-1	bis(2-chloroisopropyl) ether	3.06E-17	3.61E-17	7.18E-17	1.10E-21	7.47E-20	7.47E-20	9.37E-20	7.25E-22	3.06E-17	3.61E-17	7.19E-17	1.82E-21
67-66-3	chloroform	7.50E-11	1.84E-10	1.01E-10	5.04E-18	2.58E-12	2.58E-12	3.44E-12	3.33E-18	7.76E-11	1.87E-10	1.05E-10	8.37E-18
100-41-4	ethylbenzene	2.29E-09	5.70E-09	3.08E-09	1.23E-16	7.35E-11	7.35E-11	9.79E-11	8.10E-17	2.37E-09	5.77E-09	3.18E-09	2.04E-16
505-60-2	HD	5.55E-10	1.37E-09	7.57E-10	1.46E-16	7.21E-12	7.21E-12	9.61E-12	9.66E-17	5.63E-10	1.38E-09	7.66E-10	2.43E-16
1634-04-4	methyl tert-butyl ether	9.32E-11	1.96E-10	1.50E-10	7.86E-17	1.54E-12	1.54E-12	2.05E-12	5.19E-17	9.48E-11	1.98E-10	1.52E-10	1.31E-16
75-09-2	methylene chloride	1.16E-10	2.68E-10	1.67E-10	1.36E-17	5.85E-12	5.85E-12	7.80E-12	8.99E-18	1.22E-10	2.74E-10	1.75E-10	2.26E-17
91-20-3	naphthalene	2.09E-11	3.82E-11	3.87E-11	1.65E-15	2.75E-13	2.75E-13	3.64E-13	1.09E-15	2.12E-11	3.85E-11	3.90E-11	2.75E-15
98-95-3	nitrobenzene	1.96E-18	2.25E-18	4.68E-18	3.29E-23	7.09E-21	7.09E-21	9.17E-21	2.17E-23	1.97E-18	2.26E-18	4.69E-18	5.47E-23
127-18-4	tetrachloroethene	1.14E-08	2.84E-08	1.52E-08	6.74E-17	1.93E-10	1.93E-10	2.57E-10	4.45E-17	1.16E-08	2.86E-08	1.55E-08	1.12E-16
79-01-6	trichloroethene	7.90E-10	1.96E-09	1.06E-09	5.03E-17	2.47E-11	2.47E-11	3.29E-11	3.32E-17	8.15E-10	1.98E-09	1.09E-09	8.35E-17
75-01-4	vinyl chloride	1.37E-08	3.32E-08	1.84E-08	1.92E-16	9.61E-10	9.61E-10	1.28E-09	1.27E-16	1.47E-08	3.42E-08	1.97E-08	3.19E-16
7440-38-2	arsenic	3.99E-12	4.88E-12	1.21E-11	3.58E-21	1.44E-16	1.44E-16	1.91E-16	7.09E-22	3.99E-12	4.88E-12	1.21E-11	4.29E-21
7440-43-9	cadmium	3.92E-12	7.37E-12	8.49E-12	1.15E-19	6.97E-17	6.97E-17	9.30E-17	7.58E-22	3.92E-12	7.37E-12	8.49E-12	1.16E-19
7439-92-1	lead	1.30E-11	1.30E-11	4.35E-11	1.31E-17	1.14E-16	1.14E-16	1.52E-16	1.60E-19	1.30E-11	1.30E-11	4.35E-11	1.33E-17

Notes: Sub. – subsistence

Table G-17. Calculated Indirect Exposures to Carcinogenic COPCs for Child Exposure Scenarios

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
79-34-5	1,1,2,2-tetrachloroethane	1.34E-09	2.28E-09	2.36E-09	1.25E-11	1.25E-11	1.25E-11	1.35E-09	2.29E-09	2.38E-09
75-34-3	1,1-dichloroethane	3.21E-11	7.03E-11	3.84E-11	1.10E-12	1.10E-12	1.10E-12	3.32E-11	7.14E-11	3.95E-11
120-82-1	1,2,4-trichlorobenzene	8.42E-18	1.63E-17	1.32E-17	6.22E-20	6.22E-20	6.22E-20	8.48E-18	1.63E-17	1.33E-17
107-06-2	1,2-dichloroethane	3.23E-08	5.59E-08	5.36E-08	7.27E-10	7.27E-10	7.27E-10	3.31E-08	5.67E-08	5.43E-08
78-87-5	1,2-dichloropropane	8.32E-13	1.86E-12	9.83E-13	2.52E-14	2.52E-14	2.52E-14	8.58E-13	1.89E-12	1.01E-12
106-46-7	1,4-dichlorobenzene	4.89E-18	1.12E-17	5.87E-18	6.31E-20	6.31E-20	6.31E-20	4.95E-18	1.13E-17	5.93E-18
71-43-2	benzene	9.06E-12	2.11E-11	9.91E-12	4.27E-13	4.27E-13	4.27E-13	9.49E-12	2.16E-11	1.03E-11
108-60-1	bis(2-chloroisopropyl) ether	6.44E-17	6.82E-17	1.57E-16	5.21E-20	5.21E-20	5.21E-20	6.44E-17	6.83E-17	1.57E-16
67-66-3	chloroform	2.76E-11	6.35E-11	3.08E-11	7.80E-13	7.80E-13	7.80E-13	2.84E-11	6.43E-11	3.15E-11
100-41-4	ethylbenzene	7.88E-10	1.91E-09	8.40E-10	2.22E-11	2.22E-11	2.22E-11	8.10E-10	1.93E-09	8.62E-10
505-60-2	HD	1.97E-10	4.64E-10	2.16E-10	2.18E-12	2.18E-12	2.18E-12	1.99E-10	4.66E-10	2.19E-10
1634-04-4	methyl tert-butyl ether	7.54E-11	1.10E-10	1.50E-10	4.68E-13	4.68E-13	4.68E-13	7.59E-11	1.10E-10	1.50E-10
75-09-2	methylene chloride	5.99E-11	1.10E-10	8.88E-11	1.77E-12	1.77E-12	1.77E-12	6.17E-11	1.12E-10	9.06E-11

Table G-17. Calculated Indirect Exposures to Carcinogenic COPCs for Child Exposure Scenarios (continued)

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
91-20-3	naphthalene	2.93E-11	3.57E-11	6.67E-11	9.96E-14	9.96E-14	9.96E-14	2.94E-11	3.58E-11	6.68E-11
98-95-3	nitrobenzene	4.46E-18	4.61E-18	1.10E-17	3.51E-21	3.51E-21	3.51E-21	4.47E-18	4.61E-18	1.10E-17
127-18-4	tetrachloroethene	3.81E-09	9.39E-09	3.92E-09	5.82E-11	5.82E-11	5.82E-11	3.87E-09	9.45E-09	3.98E-09
79-01-6	trichloroethene	2.75E-10	6.59E-10	2.91E-10	7.46E-12	7.46E-12	7.46E-12	2.82E-10	6.66E-10	2.99E-10
75-01-4	vinyl chloride	5.26E-09	1.17E-08	5.55E-09	2.90E-10	2.90E-10	2.90E-10	5.55E-09	1.20E-08	5.84E-09
7440-38-2	arsenic	1.97E-12	2.27E-12	4.64E-12	4.33E-17	4.33E-17	4.33E-17	1.97E-12	2.27E-12	4.64E-12
7440-43-9	cadmium	1.62E-12	2.75E-12	2.91E-12	2.11E-17	2.11E-17	2.11E-17	1.62E-12	2.75E-12	2.91E-12
7439-92-1	lead	7.09E-12	7.09E-12	1.77E-11	3.56E-17	3.56E-17	3.56E-17	7.09E-12	7.09E-12	1.77E-11

Notes: Sub. - subsistence

Table G-18. Calculated Indirect Exposures to Carcinogenic COPCs for Infant Exposure Scenarios

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
79-34-5	1,1,2,2-tetrachloroethane	2.59E-10	3.93E-10	5.12E-10	3.04E-15	3.04E-15	3.04E-15	2.59E-10	3.93E-10	5.12E-10
75-34-3	1,1-dichloroethane	4.68E-12	1.01E-11	6.25E-12	8.19E-18	8.19E-18	8.19E-18	4.68E-12	1.01E-11	6.25E-12
120-82-1	1,2,4-trichlorobenzene	4.00E-18	8.32E-18	6.28E-18	1.77E-23	1.77E-23	1.77E-23	4.00E-18	8.32E-18	6.28E-18
107-06-2	1,2-dichloroethane	2.65E-08	3.98E-08	3.57E-08	1.97E-14	1.97E-14	1.97E-14	2.65E-08	3.98E-08	3.57E-08
78-87-5	1,2-dichloropropane	1.22E-13	2.70E-13	1.59E-13	3.95E-19	3.95E-19	3.95E-19	1.22E-13	2.70E-13	1.59E-13
106-46-7	1,4-dichlorobenzene	2.70E-18	6.24E-18	3.62E-18	2.88E-24	2.88E-24	2.88E-24	2.70E-18	6.24E-18	3.62E-18
71-43-2	benzene	7.83E-12	1.46E-11	9.31E-12	2.52E-18	2.52E-18	2.52E-18	7.83E-12	1.46E-11	9.31E-12
108-60-1	bis(2-chloroisopropyl) ether	1.39E-17	1.45E-17	3.43E-17	1.63E-21	1.63E-21	1.63E-21	1.39E-17	1.45E-17	3.43E-17
67-66-3	chloroform	2.25E-11	4.28E-11	2.71E-11	7.61E-18	7.61E-18	7.61E-18	2.25E-11	4.28E-11	2.71E-11
100-41-4	ethylbenzene	4.63E-10	1.09E-09	5.88E-10	1.85E-16	1.85E-16	1.85E-16	4.63E-10	1.09E-09	5.88E-10
505-60-2	HD	2.84E-11	6.64E-11	3.28E-11	2.21E-16	2.21E-16	2.21E-16	2.84E-11	6.64E-11	3.28E-11
1634-04-4	methyl tert-butyl ether	3.89E-11	5.80E-11	6.38E-11	1.19E-16	1.19E-16	1.19E-16	3.89E-11	5.80E-11	6.38E-11
75-09-2	methylene chloride	7.52E-11	1.03E-10	8.96E-11	2.05E-17	2.05E-17	2.05E-17	7.52E-11	1.03E-10	8.96E-11
91-20-3	naphthalene	8.67E-12	1.20E-11	1.86E-11	2.44E-15	2.44E-15	2.44E-15	8.67E-12	1.20E-11	1.86E-11
98-95-3	nitrobenzene	9.42E-19	9.63E-19	2.33E-18	4.96E-23	4.96E-23	4.96E-23	9.42E-19	9.63E-19	2.33E-18
127-18-4	tetrachloroethene	2.26E-09	5.41E-09	2.83E-09	1.02E-16	1.02E-16	1.02E-16	2.26E-09	5.41E-09	2.83E-09
79-01-6	trichloroethene	1.93E-10	4.10E-10	2.36E-10	7.58E-17	7.58E-17	7.58E-17	1.93E-10	4.10E-10	2.36E-10
75-01-4	vinyl chloride	6.57E-10	1.57E-09	7.28E-10	2.90E-16	2.90E-16	2.90E-16	6.57E-10	1.57E-09	7.28E-10
7440-38-2	arsenic	9.27E-12	1.13E-11	2.76E-11	1.62E-21	1.62E-21	1.62E-21	9.27E-12	1.13E-11	2.76E-11
7440-43-9	cadmium	1.86E-09	3.48E-09	4.00E-09	1.73E-21	1.73E-21	1.73E-21	1.86E-09	3.48E-09	4.00E-09
7439-92-1	lead	6.22E-09	6.22E-09	2.05E-08	3.64E-19	3.64E-19	3.64E-19	6.22E-09	6.22E-09	2.05E-08

Notes: Sub. - subsistence

Table G-19. Calculated Indirect Exposures to COPCs with Noncarcinogenic Effects for Adult Exposure Scenarios

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)				Total Dermal Absorbed Dose (mg COPC/kg body weight - day)				Total Indirect Exposure (mg COPC/kg body weight - day)			
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Worker	Resident	Sub. Fisher	Sub. Farmer	Worker	Resident	Sub. Fisher	Sub. Farmer	Worker
79-34-5	1,1,2,2-tetrachloroethane	1.05E-08	1.80E-08	1.88E-08	2.75E-14	1.07E-10	1.07E-10	1.07E-10	1.73E-14	1.06E-08	1.81E-08	1.89E-08	4.48E-14
75-34-3	1,1-dichloroethane	2.41E-10	5.44E-10	2.92E-10	7.41E-17	9.48E-12	9.48E-12	9.48E-12	4.66E-17	2.50E-10	5.53E-10	3.01E-10	1.21E-16
75-35-4	1,1-dichloroethene	7.48E-16	1.83E-15	7.75E-16	5.54E-23	3.52E-17	3.52E-17	3.52E-17	1.60E-23	7.84E-16	1.87E-15	8.10E-16	7.14E-23
87-61-6	1,2,3-trichlorobenzene	3.99E-10	8.00E-10	5.96E-10	5.03E-14	2.65E-12	2.65E-12	2.65E-12	3.16E-14	4.01E-10	8.02E-10	5.98E-10	8.19E-14
120-82-1	1,2,4-trichlorobenzene	6.80E-17	1.30E-16	1.08E-16	1.60E-22	5.36E-19	5.36E-19	5.36E-19	1.01E-22	6.85E-17	1.31E-16	1.08E-16	2.61E-22
95-63-6	1,2,4-trimethyl benzene	1.02E-09	2.45E-09	1.12E-09	1.76E-15	2.08E-11	2.08E-11	2.08E-11	1.11E-15	1.04E-09	2.47E-09	1.14E-09	2.86E-15
95-50-1	1,2-dichlorobenzene	3.34E-17	7.45E-17	4.23E-17	1.04E-22	5.34E-19	5.34E-19	5.34E-19	6.56E-23	3.39E-17	7.51E-17	4.29E-17	1.70E-22
107-06-2	1,2-dichloroethane	2.43E-07	4.30E-07	4.14E-07	1.79E-13	6.27E-09	6.27E-09	6.27E-09	1.12E-13	2.49E-07	4.36E-07	4.21E-07	2.91E-13
78-87-5	1,2-dichloropropane	6.32E-12	1.45E-11	7.50E-12	3.58E-18	2.17E-13	2.17E-13	2.17E-13	2.25E-18	6.54E-12	1.47E-11	7.72E-12	5.83E-18
106-46-7	1,4-dichlorobenzene	3.88E-17	8.89E-17	4.69E-17	2.60E-23	5.43E-19	5.43E-19	5.43E-19	1.64E-23	3.93E-17	8.94E-17	4.74E-17	4.24E-23
505-29-3	1,4-dithiane	1.56E-05	1.60E-05	3.86E-05	9.98E-11	1.20E-08	1.20E-08	1.20E-08	6.27E-11	1.56E-05	1.60E-05	3.86E-05	1.62E-10
109-69-3	1-chlorobutane	1.00E-12	2.46E-12	1.04E-12	5.39E-19	3.84E-14	3.84E-14	3.84E-14	3.39E-19	1.04E-12	2.49E-12	1.08E-12	8.78E-19
120-83-2	2,4-dichlorophenol	2.19E-15	2.46E-15	5.20E-15	6.76E-21	9.02E-18	9.02E-18	9.02E-18	4.25E-21	2.20E-15	2.47E-15	5.21E-15	1.10E-20
78-93-3	2-butanone	1.81E-08	1.92E-08	4.41E-08	1.19E-13	7.28E-12	7.28E-12	7.28E-12	7.49E-14	1.81E-08	1.92E-08	4.41E-08	1.94E-13
591-78-6	2-hexanone	3.13E-09	3.36E-09	7.58E-09	1.93E-14	8.23E-12	8.23E-12	8.23E-12	1.21E-14	3.14E-09	3.37E-09	7.59E-09	3.14E-14
95-48-7	2-methyl phenol	4.04E-15	4.22E-15	9.93E-15	2.12E-20	1.02E-17	1.02E-17	1.02E-17	8.57E-21	4.05E-15	4.23E-15	9.94E-15	2.98E-20
91-57-6	2-methylnaphthalene	3.81E-16	6.54E-16	6.80E-16	1.94E-20	3.16E-18	3.16E-18	3.16E-18	1.59E-20	3.84E-16	6.57E-16	6.83E-16	3.53E-20
108-39-4	3-methyl phenol	1.40E-09	1.53E-09	3.35E-09	1.93E-14	7.31E-12	7.31E-12	7.31E-12	1.21E-14	1.40E-09	1.54E-09	3.36E-09	3.15E-14
106-44-5	4-methyl phenol	3.97E-11	5.76E-11	8.09E-11	6.67E-16	1.27E-12	1.27E-12	1.27E-12	4.19E-16	4.09E-11	5.89E-11	8.22E-11	1.09E-15
108-10-1	4-methyl-2-pentanone	5.31E-09	5.39E-09	1.32E-08	5.31E-14	3.11E-12	3.11E-12	3.11E-12	3.34E-14	5.31E-09	5.39E-09	1.32E-08	8.64E-14
67-64-1	acetone	5.03E-08	5.54E-08	1.21E-07	1.85E-13	1.77E-11	1.77E-11	1.77E-11	1.16E-13	5.04E-08	5.54E-08	1.21E-07	3.02E-13
107-02-8	acrolein	7.37E-10	8.48E-10	1.73E-09	3.50E-15	4.82E-13	4.82E-13	4.82E-13	2.20E-15	7.37E-10	8.48E-10	1.73E-09	5.70E-15
98-83-9	alpha-methylstyrene	1.03E-09	2.35E-09	1.26E-09	3.84E-15	2.07E-11	2.07E-11	2.07E-11	2.42E-15	1.05E-09	2.37E-09	1.28E-09	6.26E-15
71-43-2	benzene	6.91E-11	1.65E-10	7.58E-11	2.28E-17	3.68E-12	3.68E-12	3.68E-12	1.43E-17	7.28E-11	1.69E-10	7.95E-11	3.71E-17
108-60-1	bis(2-chloroisopropyl) ether	4.40E-16	4.71E-16	1.07E-15	1.50E-20	4.27E-19	4.27E-19	4.27E-19	9.43E-21	4.40E-16	4.71E-16	1.07E-15	2.44E-20
75-15-0	carbon disulfide	8.61E-10	2.13E-09	8.75E-10	3.20E-17	4.58E-11	4.58E-11	4.58E-11	2.01E-17	9.07E-10	2.17E-09	9.21E-10	5.21E-17
108-90-7	chlorobenzene	2.03E-16	4.32E-16	2.78E-16	9.71E-23	5.07E-18	5.07E-18	5.07E-18	6.97E-23	2.08E-16	4.37E-16	2.83E-16	1.67E-22
75-00-3	chloroethane	6.13E-10	1.45E-09	6.56E-10	4.36E-17	4.51E-11	4.51E-11	4.51E-11	2.74E-17	6.58E-10	1.50E-09	7.02E-10	7.10E-17
67-66-3	chloroform	2.09E-10	4.94E-10	2.34E-10	6.89E-17	6.72E-12	6.72E-12	6.72E-12	4.33E-17	2.16E-10	5.00E-10	2.41E-10	1.12E-16
74-87-3	chloromethane	1.94E-10	4.61E-10	2.10E-10	2.90E-17	5.76E-12	5.76E-12	5.76E-12	1.82E-17	2.00E-10	4.66E-10	2.15E-10	4.73E-17
156-59-2	cis-1,2-dichloroethene	2.76E-14	3.06E-14	6.61E-14	6.05E-20	9.38E-17	9.38E-17	9.38E-17	3.81E-20	2.77E-14	3.07E-14	6.62E-14	9.86E-20
75-71-8	dichlorodifluoromethane	1.89E-14	4.22E-14	2.36E-14	3.69E-20	5.50E-16	5.50E-16	5.50E-16	8.82E-21	1.94E-14	4.28E-14	2.42E-14	4.57E-20
60-29-7	diethyl ether	4.55E-10	5.85E-10	1.00E-09	1.10E-15	1.38E-11	1.38E-11	1.38E-11	6.91E-16	4.69E-10	5.99E-10	1.02E-09	1.79E-15
100-41-4	ethylbenzene	6.21E-09	1.51E-08	6.64E-09	1.68E-15	1.91E-10	1.91E-10	1.91E-10	1.05E-15	6.40E-09	1.53E-08	6.83E-09	2.73E-15
505-60-2	HD	1.50E-09	3.62E-09	1.62E-09	2.00E-15	1.88E-11	1.88E-11	1.88E-11	1.26E-15	1.52E-09	3.64E-09	1.64E-09	3.26E-15
110-54-3	hexane	2.87E-09	7.18E-09	2.88E-09	1.72E-17	7.13E-11	7.13E-11	7.13E-11	1.08E-17	2.95E-09	7.25E-09	2.95E-09	2.79E-17
1634-04-4	methyl tert-butyl ether	5.36E-10	8.06E-10	1.06E-09	1.07E-15	4.03E-12	4.03E-12	4.03E-12	6.75E-16	5.40E-10	8.10E-10	1.07E-09	1.75E-15
75-09-2	methylene chloride	4.32E-10	8.27E-10	6.65E-10	1.86E-16	1.52E-11	1.52E-11	1.52E-11	1.17E-16	4.48E-10	8.43E-10	6.81E-10	3.03E-16
91-20-3	naphthalene	1.79E-10	2.30E-10	3.97E-10	2.26E-14	8.21E-13	8.21E-13	8.21E-13	1.42E-14	1.80E-10	2.31E-10	3.98E-10	3.68E-14
98-95-3	nitrobenzene	2.84E-17	2.96E-17	6.98E-17	4.50E-22	2.95E-20	2.95E-20	2.95E-20	2.83E-22	2.84E-17	2.96E-17	6.98E-17	7.32E-22
109-66-0	pentane	2.68E-09	6.70E-09	2.68E-09	2.07E-17	9.55E-11	9.55E-11	9.55E-11	1.30E-17	2.78E-09	6.80E-09	2.78E-09	3.37E-17
108-95-2	phenol	4.85E-15	4.97E-15	1.20E-14	7.23E-20	4.62E-18	4.62E-18	4.62E-18	4.54E-20	4.85E-15	4.98E-15	1.20E-14	1.18E-19
115-07-1	propene	1.57E-10	3.86E-10	1.58E-10	5.90E-18	1.36E-11	1.36E-11	1.36E-11	3.71E-18	1.70E-10	4.00E-10	1.72E-10	9.60E-18
100-42-5	styrene	7.83E-14	8.16E-14	1.93E-13	3.17E-19	6.35E-17	6.35E-17	6.35E-17	2.90E-19	7.84E-14	8.16E-14	1.93E-13	6.07E-19
75-65-0	tert-butyl alcohol	7.74E-09	8.01E-09	1.91E-08	7.65E-15	1.89E-12	1.89E-12	1.89E-12	4.81E-15	7.74E-09	8.01E-09	1.91E-08	1.25E-14

Table G-19. Calculated Indirect Exposures to Noncarcinogenic COPCs for Adult Exposure Scenarios (continued)

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)				Total Dermal Absorbed Dose (mg COPC/kg body weight - day)				Total Indirect Exposure (mg COPC/kg body weight - day)			
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Worker	Resident	Sub. Fisher	Sub. Farmer	Worker	Resident	Sub. Fisher	Sub. Farmer	Worker
127-18-4	tetrachloroethene	3.01E-08	7.43E-08	3.10E-08	9.20E-16	5.01E-10	5.01E-10	5.01E-10	5.78E-16	3.06E-08	7.48E-08	3.15E-08	1.50E-15
111-48-8	thiodiglycol	6.84E-05	6.87E-05	1.71E-04	8.82E-12	2.87E-10	2.87E-10	2.87E-10	5.55E-12	6.84E-05	6.87E-05	1.71E-04	1.44E-11
108-88-3	toluene	3.84E-09	9.27E-09	4.13E-09	1.12E-15	1.49E-10	1.49E-10	1.49E-10	7.03E-16	3.99E-09	9.42E-09	4.28E-09	1.82E-15
156-60-5	trans-1,2-dichloroethene	9.91E-16	2.38E-15	1.07E-15	2.26E-22	4.15E-17	4.15E-17	4.15E-17	1.42E-22	1.03E-15	2.42E-15	1.11E-15	3.69E-22
79-01-6	trichloroethene	2.13E-09	5.17E-09	2.25E-09	6.87E-16	6.43E-11	6.43E-11	6.43E-11	4.32E-16	2.19E-09	5.23E-09	2.32E-09	1.12E-15
75-01-4	vinyl chloride	3.69E-08	8.77E-08	3.92E-08	2.62E-15	2.50E-09	2.50E-09	2.50E-09	1.65E-15	3.94E-08	9.02E-08	4.17E-08	4.27E-15
1330-20-7	xylenes	1.82E-08	4.37E-08	1.99E-08	2.71E-14	5.31E-10	5.31E-10	5.31E-10	1.70E-14	1.87E-08	4.42E-08	2.04E-08	4.41E-14
7429-90-5	aluminum	3.91E-10	3.93E-10	9.76E-10	8.36E-18	1.76E-14	1.76E-14	1.76E-14	1.94E-19	3.91E-10	3.93E-10	9.76E-10	8.55E-18
7664-41-7	ammonia	8.18E-06	8.76E-06	1.98E-05	6.75E-12	6.16E-09	6.16E-09	6.16E-09	4.24E-12	8.18E-06	8.77E-06	1.98E-05	1.10E-11
7440-38-2	arsenic	1.04E-11	1.27E-11	2.36E-11	4.89E-20	3.73E-16	3.73E-16	3.73E-16	9.22E-21	1.04E-11	1.27E-11	2.36E-11	5.81E-20
7440-43-9	cadmium	1.02E-11	1.92E-11	1.66E-11	1.57E-18	1.81E-16	1.81E-16	1.81E-16	9.85E-21	1.02E-11	1.92E-11	1.66E-11	1.58E-18
7782-50-5	chlorine	4.16E-07	4.63E-07	9.93E-07	2.42E-12	6.25E-10	6.25E-10	6.25E-10	1.14E-13	4.17E-07	4.63E-07	9.93E-07	2.53E-12
7440-50-8	copper	1.30E-10	1.30E-10	3.24E-10	1.56E-16	2.62E-15	2.62E-15	2.62E-15	3.00E-18	1.30E-10	1.30E-10	3.24E-10	1.59E-16
7647-01-0	hydrogen chloride	4.03E-07	4.55E-07	9.55E-07	5.48E-13	6.79E-10	6.79E-10	6.79E-10	1.80E-14	4.04E-07	4.56E-07	9.55E-07	5.66E-13
74-90-8	hydrogen cyanide	1.69E-11	2.14E-11	3.76E-11	3.68E-18	2.19E-14	2.19E-14	2.19E-14	2.31E-18	1.69E-11	2.14E-11	3.76E-11	5.99E-18
7440-22-4	silver	9.02E-13	9.43E-13	2.21E-12	9.99E-21	5.17E-18	5.17E-18	5.17E-18	1.50E-22	9.02E-13	9.43E-13	2.21E-12	1.01E-20

Notes: Sub. - subsistence

Table G-20. Calculated Indirect Exposures to COPCs with Noncarcinogenic Effects for Child Exposure Scenarios

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
79-34-5	1,1,2,2-tetrachloroethane	2.08E-08	3.56E-08	3.69E-08	1.95E-10	1.95E-10	1.95E-10	2.10E-08	3.58E-08	3.71E-08
75-34-3	1,1-dichloroethane	5.00E-10	1.10E-09	6.00E-10	1.72E-11	1.72E-11	1.72E-11	5.18E-10	1.11E-09	6.17E-10
75-35-4	1,1-dichloroethene	1.53E-15	3.66E-15	1.58E-15	6.37E-17	6.37E-17	6.37E-17	1.59E-15	3.73E-15	1.64E-15
87-61-6	1,2,3-trichlorobenzene	8.87E-10	1.68E-09	1.43E-09	4.97E-12	4.97E-12	4.97E-12	8.92E-10	1.68E-09	1.43E-09
120-82-1	1,2,4-trichlorobenzene	1.31E-16	2.54E-16	2.06E-16	9.71E-19	9.71E-19	9.71E-19	1.32E-16	2.55E-16	2.07E-16
95-63-6	1,2,4-trimethyl benzene	2.01E-09	4.82E-09	2.21E-09	3.76E-11	3.76E-11	3.76E-11	2.05E-09	4.86E-09	2.25E-09
95-50-1	1,2-dichlorobenzene	6.59E-17	1.47E-16	8.32E-17	9.67E-19	9.67E-19	9.67E-19	6.68E-17	1.48E-16	8.42E-17
107-06-2	1,2-dichloroethane	5.05E-07	8.72E-07	8.36E-07	1.13E-08	1.13E-08	1.13E-08	5.16E-07	8.84E-07	8.48E-07
78-87-5	1,2-dichloropropane	1.30E-11	2.91E-11	1.53E-11	3.92E-13	3.92E-13	3.92E-13	1.34E-11	2.95E-11	1.57E-11
106-46-7	1,4-dichlorobenzene	7.62E-17	1.75E-16	9.16E-17	9.84E-19	9.84E-19	9.84E-19	7.72E-17	1.76E-16	9.25E-17
505-29-3	1,4-dithiane	3.55E-05	3.64E-05	8.79E-05	2.21E-08	2.21E-08	2.21E-08	3.56E-05	3.64E-05	8.79E-05
109-69-3	1-chlorobutane	2.01E-12	4.87E-12	2.09E-12	6.95E-14	6.95E-14	6.95E-14	2.07E-12	4.94E-12	2.16E-12
120-83-2	2,4-dichlorophenol	4.15E-15	4.68E-15	9.82E-15	1.64E-17	1.64E-17	1.64E-17	4.16E-15	4.70E-15	9.83E-15
78-93-3	2-butanone	4.42E-08	4.64E-08	1.08E-07	1.36E-11	1.36E-11	1.36E-11	4.42E-08	4.64E-08	1.08E-07
591-78-6	2-hexanone	7.12E-09	7.58E-09	1.72E-08	1.50E-11	1.50E-11	1.50E-11	7.13E-09	7.59E-09	1.73E-08
95-48-7	2-methyl phenol	7.65E-15	7.99E-15	1.87E-14	1.85E-17	1.85E-17	1.85E-17	7.66E-15	8.01E-15	1.88E-14
91-57-6	2-methylnaphthalene	7.86E-16	1.32E-15	1.43E-15	5.80E-18	5.80E-18	5.80E-18	7.91E-16	1.33E-15	1.43E-15
108-39-4	3-methyl phenol	3.20E-09	3.47E-09	7.71E-09	1.33E-11	1.33E-11	1.33E-11	3.21E-09	3.48E-09	7.72E-09
106-44-5	4-methyl phenol	1.01E-10	1.36E-10	2.14E-10	2.30E-12	2.30E-12	2.30E-12	1.03E-10	1.38E-10	2.16E-10
108-10-1	4-methyl-2-pentanone	1.42E-08	1.44E-08	3.54E-08	5.80E-12	5.80E-12	5.80E-12	1.42E-08	1.44E-08	3.54E-08
67-64-1	acetone	1.11E-07	1.21E-07	2.65E-07	3.27E-11	3.27E-11	3.27E-11	1.11E-07	1.21E-07	2.65E-07
107-02-8	acrolein	1.70E-09	1.91E-09	3.99E-09	8.84E-13	8.84E-13	8.84E-13	1.70E-09	1.92E-09	3.99E-09
98-83-9	alpha-methylstyrene	2.04E-09	4.64E-09	2.48E-09	3.75E-11	3.75E-11	3.75E-11	2.08E-09	4.68E-09	2.52E-09
71-43-2	benzene	1.41E-10	3.30E-10	1.55E-10	6.67E-12	6.67E-12	6.67E-12	1.48E-10	3.37E-10	1.61E-10
108-60-1	bis(2-chloroisopropyl) ether	1.02E-15	1.08E-15	2.49E-15	8.22E-19	8.22E-19	8.22E-19	1.02E-15	1.08E-15	2.49E-15
75-15-0	carbon disulfide	1.75E-09	4.24E-09	1.78E-09	8.29E-11	8.29E-11	8.29E-11	1.84E-09	4.33E-09	1.86E-09
108-90-7	chlorobenzene	4.74E-16	9.25E-16	7.28E-16	9.18E-18	9.18E-18	9.18E-18	4.83E-16	9.35E-16	7.37E-16
75-00-3	chloroethane	1.36E-09	3.01E-09	1.45E-09	8.16E-11	8.16E-11	8.16E-11	1.44E-09	3.10E-09	1.53E-09
67-66-3	chloroform	4.30E-10	9.91E-10	4.80E-10	1.22E-11	1.22E-11	1.22E-11	4.43E-10	1.00E-09	4.92E-10
74-87-3	chloromethane	4.21E-10	9.46E-10	4.54E-10	1.04E-11	1.04E-11	1.04E-11	4.31E-10	9.56E-10	4.64E-10
156-59-2	cis-1,2-dichloroethene	5.37E-14	5.95E-14	1.28E-13	1.70E-16	1.70E-16	1.70E-16	5.38E-14	5.97E-14	1.28E-13
75-71-8	dichlorodifluoromethane	3.86E-14	8.46E-14	4.84E-14	9.95E-16	9.95E-16	9.95E-16	3.96E-14	8.56E-14	4.94E-14
60-29-7	diethyl ether	1.01E-09	1.26E-09	2.23E-09	2.50E-11	2.50E-11	2.50E-11	1.03E-09	1.29E-09	2.26E-09
100-41-4	ethylbenzene	1.23E-08	2.98E-08	1.31E-08	3.47E-10	3.47E-10	3.47E-10	1.26E-08	3.01E-08	1.35E-08
505-60-2	HD	3.07E-09	7.23E-09	3.38E-09	3.40E-11	3.40E-11	3.40E-11	3.10E-09	7.27E-09	3.41E-09
110-54-3	hexane	5.67E-09	1.42E-08	5.67E-09	1.29E-10	1.29E-10	1.29E-10	5.80E-09	1.43E-08	5.80E-09
1634-04-4	methyl tert-butyl ether	1.18E-09	1.71E-09	2.34E-09	7.31E-12	7.31E-12	7.31E-12	1.18E-09	1.72E-09	2.34E-09
75-09-2	methylene chloride	9.34E-10	1.71E-09	1.39E-09	2.76E-11	2.76E-11	2.76E-11	9.62E-10	1.74E-09	1.41E-09
91-20-3	naphthalene	4.64E-10	5.65E-10	1.06E-09	1.56E-12	1.56E-12	1.56E-12	4.66E-10	5.66E-10	1.06E-09
98-95-3	nitrobenzene	6.98E-17	7.21E-17	1.72E-16	5.49E-20	5.49E-20	5.49E-20	6.98E-17	7.22E-17	1.72E-16

Table G-20. Calculated Indirect Exposures to Noncarcinogenic COPCs for Child Exposure Scenarios (continued)

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
109-66-0	pentane	5.31E-09	1.32E-08	5.31E-09	1.73E-10	1.73E-10	1.73E-10	5.48E-09	1.34E-08	5.48E-09
108-95-2	phenol	1.30E-14	1.33E-14	3.23E-14	8.61E-18	8.61E-18	8.61E-18	1.30E-14	1.33E-14	3.23E-14
115-07-1	propene	3.31E-10	7.83E-10	3.34E-10	2.45E-11	2.45E-11	2.45E-11	3.56E-10	8.07E-10	3.58E-10
100-42-5	styrene	3.80E-13	3.87E-13	9.44E-13	1.17E-16	1.17E-16	1.17E-16	3.80E-13	3.87E-13	9.44E-13
75-65-0	tert-butyl alcohol	1.63E-08	1.69E-08	4.03E-08	3.44E-12	3.44E-12	3.44E-12	1.63E-08	1.69E-08	4.03E-08
127-18-4	tetrachloroethene	5.95E-08	1.47E-07	6.12E-08	9.08E-10	9.08E-10	9.08E-10	6.04E-08	1.47E-07	6.21E-08
111-48-8	thiodiglycol	1.35E-04	1.36E-04	3.37E-04	5.48E-10	5.48E-10	5.48E-10	1.35E-04	1.36E-04	3.37E-04
108-88-3	toluene	7.65E-09	1.84E-08	8.21E-09	2.70E-10	2.70E-10	2.70E-10	7.92E-09	1.86E-08	8.48E-09
156-60-5	trans-1,2-dichloroethene	2.03E-15	4.76E-15	2.18E-15	7.51E-17	7.51E-17	7.51E-17	2.10E-15	4.84E-15	2.25E-15
79-01-6	trichloroethene	4.29E-09	1.03E-08	4.54E-09	1.16E-10	1.16E-10	1.16E-10	4.40E-09	1.04E-08	4.66E-09
75-01-4	vinyl chloride	8.21E-08	1.82E-07	8.66E-08	4.53E-09	4.53E-09	4.53E-09	8.66E-08	1.87E-07	9.11E-08
1330-20-7	xylenes	3.60E-08	8.63E-08	3.95E-08	9.62E-10	9.62E-10	9.62E-10	3.70E-08	8.72E-08	4.04E-08
7429-90-5	aluminum	1.25E-09	1.26E-09	3.13E-09	3.18E-14	3.18E-14	3.18E-14	1.25E-09	1.26E-09	3.13E-09
7664-41-7	ammonia	1.73E-05	1.84E-05	4.19E-05	1.12E-08	1.12E-08	1.12E-08	1.73E-05	1.85E-05	4.19E-05
7440-38-2	arsenic	3.08E-11	3.53E-11	7.24E-11	6.76E-16	6.76E-16	6.76E-16	3.08E-11	3.53E-11	7.24E-11
7440-43-9	cadmium	2.52E-11	4.29E-11	4.54E-11	3.29E-16	3.29E-16	3.29E-16	2.52E-11	4.29E-11	4.54E-11
7782-50-5	chlorine	9.94E-07	1.09E-06	2.38E-06	1.13E-09	1.13E-09	1.13E-09	9.95E-07	1.09E-06	2.38E-06
7440-50-8	copper	4.34E-10	4.35E-10	1.09E-09	4.76E-15	4.76E-15	4.76E-15	4.34E-10	4.35E-10	1.09E-09
7647-01-0	hydrogen chloride	8.67E-07	9.69E-07	2.05E-06	1.23E-09	1.23E-09	1.23E-09	8.68E-07	9.70E-07	2.05E-06
74-90-8	hydrogen cyanide	4.64E-11	5.52E-11	1.06E-10	3.96E-14	3.96E-14	3.96E-14	4.65E-11	5.53E-11	1.06E-10
7440-22-4	silver	4.20E-12	4.28E-12	1.04E-11	9.36E-18	9.36E-18	9.36E-18	4.20E-12	4.28E-12	1.04E-11

Notes: Sub. - subsistence

Table G-21. Calculated Indirect Exposures to COPCs with Noncarcinogenic Effects for the Infant Exposure Scenarios

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
79-34-5	1,1,2,2-tetrachloroethane	2.02E-08	3.07E-08	3.99E-08	2.37E-13	2.37E-13	2.37E-13	2.02E-08	3.07E-08	3.99E-08
75-34-3	1,1-dichloroethane	3.65E-10	7.91E-10	4.87E-10	6.38E-16	6.38E-16	6.38E-16	3.65E-10	7.91E-10	4.87E-10
75-35-4	1,1-dichloroethene	1.05E-15	2.57E-15	1.09E-15	2.19E-22	2.19E-22	2.19E-22	1.05E-15	2.57E-15	1.09E-15
87-61-6	1,2,3-trichlorobenzene	5.19E-09	1.01E-08	7.85E-09	4.33E-13	4.33E-13	4.33E-13	5.19E-09	1.01E-08	7.85E-09
120-82-1	1,2,4-trichlorobenzene	9.18E-16	1.68E-15	1.44E-15	1.38E-21	1.38E-21	1.38E-21	9.18E-16	1.68E-15	1.44E-15
95-63-6	1,2,4-trimethyl benzene	1.50E-09	3.50E-09	1.74E-09	1.51E-14	1.51E-14	1.51E-14	1.50E-09	3.50E-09	1.74E-09
95-50-1	1,2-dichlorobenzene	5.29E-16	1.03E-15	6.47E-16	8.99E-22	8.99E-22	8.99E-22	5.29E-16	1.03E-15	6.47E-16
107-06-2	1,2-dichloroethane	1.85E-05	2.08E-05	2.07E-05	1.54E-12	1.54E-12	1.54E-12	1.85E-05	2.08E-05	2.07E-05
78-87-5	1,2-dichloropropane	9.55E-12	2.10E-11	1.24E-11	3.08E-17	3.08E-17	3.08E-17	9.55E-12	2.10E-11	1.24E-11
106-46-7	1,4-dichlorobenzene	5.94E-16	1.21E-15	7.01E-16	2.24E-22	2.24E-22	2.24E-22	5.94E-16	1.21E-15	7.01E-16
505-29-3	1,4-dithiane	3.93E-05	3.99E-05	9.78E-05	8.59E-10	8.59E-10	8.59E-10	3.93E-05	3.99E-05	9.78E-05
109-69-3	1-chlorobutane	1.43E-12	3.47E-12	1.53E-12	4.65E-18	4.65E-18	4.65E-18	1.43E-12	3.47E-12	1.53E-12
120-83-2	2,4-dichlorophenol	4.99E-15	5.37E-15	1.21E-14	5.82E-20	5.82E-20	5.82E-20	4.99E-15	5.37E-15	1.21E-14
78-93-3	2-butanone	3.11E-07	3.24E-07	6.60E-07	1.03E-12	1.03E-12	1.03E-12	3.11E-07	3.24E-07	6.60E-07
591-78-6	2-hexanone	7.76E-09	8.08E-09	1.91E-08	1.66E-13	1.66E-13	1.66E-13	7.76E-09	8.08E-09	1.91E-08
95-48-7	2-methyl phenol	6.07E-15	6.32E-15	1.49E-14	1.18E-19	1.18E-19	1.18E-19	6.07E-15	6.32E-15	1.49E-14
91-57-6	2-methylnaphthalene	7.48E-16	1.13E-15	1.49E-15	2.17E-19	2.17E-19	2.17E-19	7.48E-16	1.13E-15	1.49E-15
108-39-4	3-methyl phenol	3.46E-09	3.65E-09	8.46E-09	1.66E-13	1.66E-13	1.66E-13	3.46E-09	3.65E-09	8.46E-09
106-44-5	4-methyl phenol	9.46E-11	1.20E-10	2.11E-10	5.75E-15	5.75E-15	5.75E-15	9.46E-11	1.20E-10	2.11E-10
108-10-1	4-methyl-2-pentanone	8.26E-08	8.36E-08	1.89E-07	4.57E-13	4.57E-13	4.57E-13	8.26E-08	8.36E-08	1.89E-07
67-64-1	acetone	9.86E-07	1.05E-06	1.92E-06	1.60E-12	1.60E-12	1.60E-12	9.86E-07	1.05E-06	1.92E-06
107-02-8	acrolein	1.79E-09	1.95E-09	4.33E-09	3.02E-14	3.02E-14	3.02E-14	1.79E-09	1.95E-09	4.33E-09
98-83-9	alpha-methylstyrene	1.50E-08	3.12E-08	1.80E-08	3.31E-14	3.31E-14	3.31E-14	1.50E-08	3.12E-08	1.80E-08
71-43-2	benzene	4.38E-09	5.55E-09	4.47E-09	1.96E-16	1.96E-16	1.96E-16	4.38E-09	5.55E-09	4.47E-09
108-60-1	bis(2-chloroisopropyl) ether	1.10E-15	1.15E-15	2.71E-15	1.29E-19	1.29E-19	1.29E-19	1.10E-15	1.15E-15	2.71E-15
75-15-0	carbon disulfide	3.09E-08	4.63E-08	3.11E-08	2.76E-16	2.76E-16	2.76E-16	3.09E-08	4.63E-08	3.11E-08
108-90-7	chlorobenzene	4.42E-15	7.22E-15	5.44E-15	9.56E-22	9.56E-22	9.56E-22	4.42E-15	7.22E-15	5.44E-15
75-00-3	chloroethane	6.69E-08	7.71E-08	6.74E-08	3.76E-16	3.76E-16	3.76E-16	6.69E-08	7.71E-08	6.74E-08
67-66-3	chloroform	1.22E-08	1.57E-08	1.25E-08	5.93E-16	5.93E-16	5.93E-16	1.22E-08	1.57E-08	1.25E-08
74-87-3	chloromethane	2.75E-10	6.50E-10	3.14E-10	2.50E-16	2.50E-16	2.50E-16	2.75E-10	6.50E-10	3.14E-10
156-59-2	cis-1,2-dichloroethene	6.38E-14	6.80E-14	1.55E-13	5.22E-19	5.22E-19	5.22E-19	6.38E-14	6.80E-14	1.55E-13
75-71-8	dichlorodifluoromethane	8.60E-13	1.14E-12	9.21E-13	1.21E-19	1.21E-19	1.21E-19	8.60E-13	1.14E-12	9.21E-13
60-29-7	diethyl ether	1.04E-09	1.23E-09	2.42E-09	9.48E-15	9.48E-15	9.48E-15	1.04E-09	1.23E-09	2.42E-09
100-41-4	ethylbenzene	1.03E-07	2.11E-07	1.08E-07	1.44E-14	1.44E-14	1.44E-14	1.03E-07	2.11E-07	1.08E-07
505-60-2	HD	2.21E-09	5.18E-09	2.56E-09	1.72E-14	1.72E-14	1.72E-14	2.21E-09	5.18E-09	2.56E-09
110-54-3	hexane	3.96E-08	9.22E-08	3.96E-08	1.48E-16	1.48E-16	1.48E-16	3.96E-08	9.22E-08	3.96E-08
1634-04-4	methyl tert-butyl ether	2.07E-08	2.40E-08	2.77E-08	9.25E-15	9.25E-15	9.25E-15	2.07E-08	2.40E-08	2.77E-08
75-09-2	methylene chloride	6.50E-08	6.98E-08	6.80E-08	1.60E-15	1.60E-15	1.60E-15	6.50E-08	6.98E-08	6.80E-08
91-20-3	naphthalene	2.55E-09	3.18E-09	5.50E-09	1.95E-13	1.95E-13	1.95E-13	2.55E-09	3.18E-09	5.50E-09
98-95-3	nitrobenzene	7.36E-17	7.53E-17	1.82E-16	3.87E-21	3.87E-21	3.87E-21	7.36E-17	7.53E-17	1.82E-16

Table G-21. Calculated Indirect Exposures to Noncarcinogenic COPCs for the Infant Exposure Scenarios (continued)

COPC		Average Daily Ingestion Dose (mg COPC/kg body weight - day)			Total Dermal Absorbed Dose (mg COPC/kg body weight - day)			Total Indirect Exposure (mg COPC/kg body weight - day)		
CAS No.	Compound Name	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer	Resident	Sub. Fisher	Sub. Farmer
109-66-0	pentane	3.76E-09	9.41E-09	3.77E-09	1.78E-16	1.78E-16	1.78E-16	3.76E-09	9.41E-09	3.77E-09
108-95-2	phenol	6.66E-14	6.82E-14	1.63E-13	6.23E-19	6.23E-19	6.23E-19	6.66E-14	6.82E-14	1.63E-13
115-07-1	propene	1.30E-08	1.58E-08	1.30E-08	5.08E-17	5.08E-17	5.08E-17	1.30E-08	1.58E-08	1.30E-08
100-42-5	styrene	1.15E-12	1.19E-12	2.81E-12	3.97E-18	3.97E-18	3.97E-18	1.15E-12	1.19E-12	2.81E-12
75-65-0	tert-butyl alcohol	1.89E-08	1.92E-08	4.68E-08	6.59E-14	6.59E-14	6.59E-14	1.89E-08	1.92E-08	4.68E-08
127-18-4	tetrachloroethene	5.05E-07	1.04E-06	5.17E-07	7.92E-15	7.92E-15	7.92E-15	5.05E-07	1.04E-06	5.17E-07
111-48-8	thiodiglycol	1.64E-04	1.65E-04	4.10E-04	7.60E-11	7.60E-11	7.60E-11	1.64E-04	1.65E-04	4.10E-04
108-88-3	toluene	8.11E-08	1.47E-07	8.50E-08	9.64E-15	9.64E-15	9.64E-15	8.11E-08	1.47E-07	8.50E-08
156-60-5	trans-1,2-dichloroethene	1.43E-15	3.38E-15	1.61E-15	1.95E-21	1.95E-21	1.95E-21	1.43E-15	3.38E-15	1.61E-15
79-01-6	trichloroethene	7.72E-08	1.14E-07	7.88E-08	5.92E-15	5.92E-15	5.92E-15	7.72E-08	1.14E-07	7.88E-08
75-01-4	vinyl chloride	5.13E-08	1.23E-07	5.68E-08	2.26E-14	2.26E-14	2.26E-14	5.13E-08	1.23E-07	5.68E-08
1330-20-7	xylenes	3.01E-07	6.13E-07	3.24E-07	2.33E-13	2.33E-13	2.33E-13	3.01E-07	6.13E-07	3.24E-07
7429-90-5	aluminum	6.10E-09	6.12E-09	1.47E-08	2.66E-18	2.66E-18	2.66E-18	6.10E-09	6.12E-09	1.47E-08
7664-41-7	ammonia	1.97E-05	2.05E-05	4.84E-05	5.81E-11	5.81E-11	5.81E-11	1.97E-05	2.05E-05	4.84E-05
7440-38-2	arsenic	1.92E-09	2.31E-09	4.22E-09	1.26E-19	1.26E-19	1.26E-19	1.92E-09	2.31E-09	4.22E-09
7440-43-9	cadmium	3.87E-07	7.16E-07	6.20E-07	1.35E-19	1.35E-19	1.35E-19	3.87E-07	7.16E-07	6.20E-07
7782-50-5	chlorine	1.04E-06	1.11E-06	2.54E-06	1.56E-12	1.56E-12	1.56E-12	1.04E-06	1.11E-06	2.54E-06
7440-50-8	copper	5.02E-06	5.04E-06	1.21E-05	4.11E-17	4.11E-17	4.11E-17	5.02E-06	5.04E-06	1.21E-05
7647-01-0	hydrogen chloride	9.61E-07	1.03E-06	2.33E-06	2.47E-13	2.47E-13	2.47E-13	9.61E-07	1.03E-06	2.33E-06
74-90-8	hydrogen cyanide	5.01E-11	5.64E-11	1.19E-10	3.17E-17	3.17E-17	3.17E-17	5.01E-11	5.64E-11	1.19E-10
7440-22-4	silver	3.37E-08	3.52E-08	8.18E-08	2.06E-21	2.06E-21	2.06E-21	3.37E-08	3.52E-08	8.18E-08

Notes: Sub. - subsistence

Table G-22. Excess Cancer Risk for the Adult Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer		Worker	
		Cancer Risk (dimensionless)							
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	1.80E-10	4.53E-10	1.80E-10	1.01E-09	1.80E-10	6.88E-10	4.28E-11	6.69E-16
75-34-3	1,1-dichloroethane	6.85E-13	4.85E-13	6.85E-13	1.15E-12	6.85E-13	6.62E-13	1.63E-13	5.14E-20
120-82-1	1,2,4-trichlorobenzene	ND	5.03E-19	ND	1.17E-18	ND	7.29E-19	ND	5.65E-25
107-06-2	1,2-dichloroethane	9.47E-09	5.39E-09	9.47E-09	1.19E-08	9.47E-09	7.97E-09	2.25E-09	1.98E-15
78-87-5	1,2-dichloropropane	7.71E-14	8.13E-14	7.71E-14	1.94E-13	7.71E-14	1.10E-13	1.84E-14	1.57E-20
106-46-7	1,4-dichlorobenzene	2.86E-20	7.19E-20	2.86E-20	1.75E-19	2.86E-20	9.81E-20	6.81E-21	1.71E-26
71-43-2	benzene	6.46E-13	1.46E-12	6.46E-13	3.48E-12	6.46E-13	1.96E-12	1.54E-13	1.52E-19
108-60-1	bis(2-chloroisopropyl) ether	2.79E-20	2.14E-18	2.79E-20	2.53E-18	2.79E-20	5.03E-18	6.64E-21	1.28E-22
67-66-3	chloroform	5.22E-12	2.41E-12	5.22E-12	5.79E-12	5.22E-12	3.25E-12	1.24E-12	2.60E-19
100-41-4	ethylbenzene	1.46E-12	2.60E-11	1.46E-12	6.35E-11	1.46E-12	3.49E-11	3.48E-13	2.24E-18
505-60-2	HD	1.54E-09	4.33E-09	1.54E-09	1.06E-08	1.54E-09	5.90E-09	3.66E-10	1.87E-15
1634-04-4	methyl tert-butyl ether	8.45E-14	1.71E-13	8.45E-14	3.56E-13	8.45E-14	2.74E-13	2.01E-14	2.35E-19
75-09-2	methylene chloride	4.23E-14	4.08E-13	4.23E-14	5.56E-13	4.23E-14	5.24E-13	3.36E-15	4.52E-20
91-20-3	naphthalene	1.32E-13	2.54E-12	1.32E-13	4.62E-12	1.32E-13	4.68E-12	3.15E-14	3.29E-16
98-95-3	nitrobenzene	2.04E-20	3.15E-19	2.04E-20	3.61E-19	2.04E-20	7.50E-19	4.85E-21	8.75E-24
127-18-4	tetrachloroethene	8.09E-13	2.43E-11	8.09E-13	6.00E-11	8.09E-13	3.25E-11	1.93E-13	2.35E-19
79-01-6	trichloroethene	1.47E-11	6.25E-11	1.47E-11	9.20E-11	1.47E-11	7.54E-11	1.17E-12	3.84E-18
75-01-4	vinyl chloride	4.10E-10	1.06E-08	4.10E-10	2.46E-08	4.10E-10	1.42E-08	9.77E-11	2.30E-16
7440-38-2	arsenic	7.55E-13	5.98E-12	7.55E-13	7.32E-12	7.55E-13	1.81E-11	1.80E-13	6.44E-21
7440-43-9	cadmium	1.58E-13	5.89E-11	1.58E-13	1.11E-10	1.58E-13	1.27E-10	3.77E-14	2.18E-18
7439-92-1	lead	8.08E-15	1.11E-13	8.08E-15	1.11E-13	8.08E-15	3.70E-13	1.92E-15	1.13E-19
Total Excess Cancer Risk		1.16E-08	2.09E-08	1.16E-08	4.85E-08	1.16E-08	2.90E-08	2.76E-09	5.09E-15
Overall Excess Cancer Risk via all Pathways		3.25E-08		6.01E-08		4.06E-08		2.76E-09	

Notes: ND – no inhalation unit risk toxicity data is available for this COPC

Table G-23. Excess Cancer Risk for the Child Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Cancer Risk (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	1.80E-10	2.70E-10	1.80E-10	4.58E-10	1.80E-10	4.75E-10
75-34-3	1,1-dichloroethane	6.85E-13	1.89E-13	6.85E-13	4.07E-13	6.85E-13	2.25E-13
120-82-1	1,2,4-trichlorobenzene	ND	2.46E-19	ND	4.74E-19	ND	3.84E-19
107-06-2	1,2-dichloroethane	9.47E-09	3.01E-09	9.47E-09	5.16E-09	9.47E-09	4.95E-09
78-87-5	1,2-dichloropropane	7.71E-14	3.09E-14	7.71E-14	6.80E-14	7.71E-14	3.63E-14
106-46-7	1,4-dichlorobenzene	2.86E-20	2.67E-20	2.86E-20	6.08E-20	2.86E-20	3.20E-20
71-43-2	benzene	6.46E-13	5.22E-13	6.46E-13	1.19E-12	6.46E-13	5.69E-13
108-60-1	bis(2-chloroisopropyl) ether	2.79E-20	4.51E-18	2.79E-20	4.78E-18	2.79E-20	1.10E-17
67-66-3	chloroform	5.22E-12	8.79E-13	5.22E-12	1.99E-12	5.22E-12	9.78E-13
100-41-4	ethylbenzene	1.46E-12	8.91E-12	1.46E-12	2.12E-11	1.46E-12	9.49E-12
505-60-2	HD	1.54E-09	1.53E-09	1.54E-09	3.59E-09	1.54E-09	1.68E-09
1634-04-4	methyl tert-butyl ether	8.45E-14	1.37E-13	8.45E-14	1.98E-13	8.45E-14	2.70E-13
75-09-2	methylene chloride	6.20E-14	5.43E-13	6.20E-14	9.81E-13	6.20E-14	7.97E-13
91-20-3	naphthalene	1.32E-13	3.52E-12	1.32E-13	4.29E-12	1.32E-13	8.01E-12
98-95-3	nitrobenzene	2.04E-20	7.15E-19	2.04E-20	7.38E-19	2.04E-20	1.76E-18
127-18-4	tetrachloroethene	8.09E-13	8.13E-12	8.09E-13	1.98E-11	8.09E-13	8.36E-12
79-01-6	trichloroethene	2.16E-11	5.71E-11	2.16E-11	1.35E-10	2.16E-11	6.04E-11
75-01-4	vinyl chloride	7.09E-09	6.90E-08	7.09E-09	1.49E-07	7.09E-09	7.26E-08
7440-38-2	arsenic	7.55E-13	2.96E-12	7.55E-13	3.40E-12	7.55E-13	6.96E-12
7440-43-9	cadmium	1.58E-13	2.43E-11	1.58E-13	4.12E-11	1.58E-13	4.37E-11
7439-92-1	lead	8.08E-15	6.02E-14	8.08E-15	6.02E-14	8.08E-15	1.51E-13
	Total Excess Cancer Risk	1.83E-08	7.39E-08	1.83E-08	1.58E-07	1.83E-08	7.99E-08
Overall Excess Cancer Risk via all Pathways		9.22E-08		1.77E-07		9.82E-08	

Notes: ND – no inhalation unit risk toxicity data is available for this COPC

Table G-24. Excess Cancer Risk for the Infant Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Cancer Risk (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	3.60E-11	5.17E-11	3.60E-11	7.86E-11	3.60E-11	1.02E-10
75-34-3	1,1-dichloroethane	1.37E-13	2.67E-14	1.37E-13	5.78E-14	1.37E-13	3.56E-14
120-82-1	1,2,4-trichlorobenzene	ND	1.16E-19	ND	2.41E-19	ND	1.82E-19
107-06-2	1,2-dichloroethane	1.89E-09	2.42E-09	1.89E-09	3.62E-09	1.89E-09	3.25E-09
78-87-5	1,2-dichloropropane	1.54E-14	4.41E-15	1.54E-14	9.71E-15	1.54E-14	5.72E-15
106-46-7	1,4-dichlorobenzene	5.72E-21	1.46E-20	5.72E-21	3.37E-20	5.72E-21	1.95E-20
71-43-2	benzene	1.29E-13	4.31E-13	1.29E-13	8.06E-13	1.29E-13	5.12E-13
108-60-1	bis(2-chloroisopropyl) ether	5.58E-21	9.75E-19	5.58E-21	1.01E-18	5.58E-21	2.40E-18
67-66-3	chloroform	1.04E-12	6.99E-13	1.04E-12	1.33E-12	1.04E-12	8.39E-13
100-41-4	ethylbenzene	2.93E-13	5.09E-12	2.93E-13	1.20E-11	2.93E-13	6.47E-12
505-60-2	HD	3.08E-10	2.18E-10	3.08E-10	5.11E-10	3.08E-10	2.53E-10
1634-04-4	methyl tert-butyl ether	1.69E-14	7.00E-14	1.69E-14	1.04E-13	1.69E-14	1.15E-13
75-09-2	methylene chloride	2.82E-14	1.50E-12	2.82E-14	2.07E-12	2.82E-14	1.79E-12
91-20-3	naphthalene	2.65E-14	1.04E-12	2.65E-14	1.44E-12	2.65E-14	2.23E-12
98-95-3	nitrobenzene	4.07E-21	1.51E-19	4.07E-21	1.54E-19	4.07E-21	3.73E-19
127-18-4	tetrachloroethene	1.62E-13	4.74E-12	1.62E-13	1.14E-11	1.62E-13	5.94E-12
79-01-6	trichloroethene	9.82E-12	8.90E-11	9.82E-12	1.89E-10	9.82E-12	1.08E-10
75-01-4	vinyl chloride	6.76E-09	3.90E-08	6.76E-09	9.32E-08	6.76E-09	4.32E-08
7440-38-2	arsenic	1.51E-13	1.39E-11	1.51E-13	1.69E-11	1.51E-13	4.14E-11
7440-43-9	cadmium	3.16E-14	2.78E-08	3.16E-14	5.21E-08	3.16E-14	6.01E-08
7439-92-1	lead	1.62E-15	5.29E-11	1.62E-15	5.29E-11	1.62E-15	1.75E-10
	Total Excess Cancer Risk	9.01E-09	6.97E-08	9.01E-09	1.50E-07	9.01E-09	1.07E-07
Overall Excess Cancer Risk via all Pathways		7.87E-08		1.59E-07		1.16E-07	

Notes: ND – no inhalation unit risk toxicity data is available for this COPC

Table G-25. Excess Cancer Risk for the Lifetime (I) Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Cancer Risk (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	1.80E-10	6.84E-10	1.80E-10	1.35E-09	1.80E-10	1.16E-09
75-34-3	1,1-dichloroethane	6.85E-13	6.04E-13	6.85E-13	1.38E-12	6.85E-13	8.23E-13
120-82-1	1,2,4-trichlorobenzene	ND	7.65E-19	ND	1.65E-18	ND	1.19E-18
107-06-2	1,2-dichloroethane	9.47E-09	9.74E-09	9.47E-09	1.83E-08	9.47E-09	1.50E-08
78-87-5	1,2-dichloropropane	7.71E-14	1.00E-13	7.71E-14	2.33E-13	7.71E-14	1.36E-13
106-46-7	1,4-dichlorobenzene	2.86E-20	9.88E-20	2.86E-20	2.35E-19	2.86E-20	1.35E-19
71-43-2	benzene	6.46E-13	2.12E-12	6.46E-13	4.78E-12	6.46E-13	2.75E-12
108-60-1	bis(2-chloroisopropyl) ether	2.79E-20	7.20E-18	2.79E-20	7.82E-18	2.79E-20	1.77E-17
67-66-3	chloroform	5.22E-12	3.50E-12	5.22E-12	7.95E-12	5.22E-12	4.58E-12
100-41-4	ethylbenzene	1.46E-12	3.48E-11	1.46E-12	8.41E-11	1.46E-12	4.57E-11
505-60-2	HD	1.54E-09	5.22E-09	1.54E-09	1.26E-08	1.54E-09	6.95E-09
1634-04-4	methyl tert-butyl ether	8.45E-14	3.43E-13	8.45E-14	5.87E-13	8.45E-14	6.19E-13
75-09-2	methylene chloride	8.18E-14	2.41E-12	8.18E-14	3.85E-12	8.18E-14	3.06E-12
91-20-3	naphthalene	1.32E-13	6.60E-12	1.32E-13	9.43E-12	1.32E-13	1.42E-11
98-95-3	nitrobenzene	2.04E-20	1.12E-18	2.04E-20	1.18E-18	2.04E-20	2.77E-18
127-18-4	tetrachloroethene	8.09E-13	3.23E-11	8.09E-13	7.92E-11	8.09E-13	4.19E-11
79-01-6	trichloroethene	2.85E-11	2.01E-10	2.85E-11	4.57E-10	2.85E-11	2.37E-10
75-01-4	vinyl chloride	7.09E-09	7.35E-08	7.09E-09	1.62E-07	7.09E-09	8.09E-08
7440-38-2	arsenic	7.55E-13	2.16E-11	7.55E-13	2.61E-11	7.55E-13	6.38E-11
7440-43-9	cadmium	1.58E-13	2.79E-08	1.58E-13	5.23E-08	1.58E-13	6.02E-08
7439-92-1	lead	8.08E-15	5.30E-11	8.08E-15	5.30E-11	8.08E-15	1.75E-10
	Total Excess Cancer Risk	1.83E-08	1.17E-07	1.83E-08	2.47E-07	1.83E-08	1.65E-07
Overall Excess Cancer Risk via all Pathways		1.36E-07		2.65E-07		1.83E-07	

Notes: ND – no inhalation unit risk toxicity data is available for this COPC

Table G-26. Excess Cancer Risk for the Lifetime (II) Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Cancer Risk (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	1.80E-10	6.47E-10	1.80E-10	1.30E-09	1.80E-10	1.08E-09
75-34-3	1,1-dichloroethane	6.85E-13	5.94E-13	6.85E-13	1.36E-12	6.85E-13	8.04E-13
120-82-1	1,2,4-trichlorobenzene	ND	6.66E-19	ND	1.45E-18	ND	1.02E-18
107-06-2	1,2-dichloroethane	9.47E-09	7.50E-09	9.47E-09	1.51E-08	9.47E-09	1.19E-08
78-87-5	1,2-dichloropropane	7.71E-14	9.86E-14	7.71E-14	2.30E-13	7.71E-14	1.33E-13
106-46-7	1,4-dichlorobenzene	2.86E-20	8.66E-20	2.86E-20	2.07E-19	2.86E-20	1.18E-19
71-43-2	benzene	6.46E-13	1.74E-12	6.46E-13	4.09E-12	6.46E-13	2.29E-12
108-60-1	bis(2-chloroisopropyl) ether	2.79E-20	6.30E-18	2.79E-20	6.89E-18	2.79E-20	1.54E-17
67-66-3	chloroform	5.22E-12	2.88E-12	5.22E-12	6.82E-12	5.22E-12	3.82E-12
100-41-4	ethylbenzene	1.46E-12	3.06E-11	1.46E-12	7.41E-11	1.46E-12	4.01E-11
505-60-2	HD	1.54E-09	5.14E-09	1.54E-09	1.24E-08	1.54E-09	6.85E-09
1634-04-4	methyl tert-butyl ether	8.45E-14	2.79E-13	8.45E-14	4.94E-13	8.45E-14	5.11E-13
75-09-2	methylene chloride	6.20E-14	9.09E-13	6.20E-14	1.80E-12	6.20E-14	1.28E-12
91-20-3	naphthalene	1.32E-13	5.64E-12	1.32E-13	8.14E-12	1.32E-13	1.21E-11
98-95-3	nitrobenzene	2.04E-20	9.77E-19	2.04E-20	1.04E-18	2.04E-20	2.42E-18
127-18-4	tetrachloroethene	8.09E-13	2.84E-11	8.09E-13	6.98E-11	8.09E-13	3.68E-11
79-01-6	trichloroethene	2.16E-11	1.13E-10	2.16E-11	2.72E-10	2.16E-11	1.30E-10
75-01-4	vinyl chloride	7.09E-09	7.78E-08	7.09E-09	1.69E-07	7.09E-09	8.50E-08
7440-38-2	arsenic	7.55E-13	7.94E-12	7.55E-13	9.50E-12	7.55E-13	2.28E-11
7440-43-9	cadmium	1.58E-13	7.33E-11	1.58E-13	1.33E-10	1.58E-13	1.55E-10
7439-92-1	lead	8.08E-15	1.53E-13	8.08E-15	1.53E-13	8.08E-15	4.74E-13
	Total Excess Cancer Risk	1.83E-08	9.14E-08	1.83E-08	1.99E-07	1.83E-08	1.05E-07
Overall Excess Cancer Risk via all Pathways		1.10E-07		2.17E-07		1.24E-07	

Notes: ND – no inhalation unit risk toxicity data is available for this COPC

Table G-27. Hazard Indices for the Adult Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer		Worker	
		Hazard Indices (dimensionless)							
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	6.04E-07	5.32E-07	6.04E-07	9.06E-07	6.04E-07	9.46E-07	1.44E-07	2.61E-12
75-34-3	1,1-dichloroethane	8.34E-09	1.25E-09	8.34E-09	2.77E-09	8.34E-09	1.51E-09	1.99E-09	7.03E-16
75-35-4	1,1-dichloroethene	1.74E-12	1.57E-14	1.74E-12	3.73E-14	1.74E-12	1.62E-14	4.15E-13	1.65E-21
87-61-6	1,2,3-trichlorobenzene	1.42E-08	5.02E-07	1.42E-08	1.00E-06	1.42E-08	7.48E-07	3.37E-09	1.19E-10
120-82-1	1,2,4-trichlorobenzene	1.06E-14	6.85E-15	1.06E-14	1.31E-14	1.06E-14	1.08E-14	2.52E-15	3.04E-20
95-63-6	1,2,4-trimethyl benzene	9.06E-08	5.94E-07	9.06E-08	1.41E-06	9.06E-08	6.52E-07	2.16E-08	1.91E-12
95-50-1	1,2-dichlorobenzene	2.04E-16	3.77E-16	2.04E-16	8.34E-16	2.04E-16	4.76E-16	4.86E-17	2.20E-21
107-06-2	1,2-dichloroethane	8.11E-04	4.16E-05	8.11E-04	7.27E-05	8.11E-04	7.01E-05	1.93E-04	5.65E-11
78-87-5	1,2-dichloropropane	3.01E-08	7.26E-11	3.01E-08	1.64E-10	3.01E-08	8.57E-11	7.16E-09	7.54E-17
106-46-7	1,4-dichlorobenzene	5.07E-17	5.62E-16	5.07E-17	1.28E-15	5.07E-17	6.78E-16	1.21E-17	7.06E-22
505-29-3	1,4-dithiane	5.82E-05	1.56E-03	5.82E-05	1.60E-03	5.82E-05	3.86E-03	1.38E-05	1.89E-08
109-69-3	1-chlorobutane	4.85E-11	2.60E-11	4.85E-11	6.23E-11	4.85E-11	2.70E-11	1.16E-11	2.56E-17
120-83-2	2,4-dichlorophenol	6.28E-16	7.33E-13	6.28E-16	8.24E-13	6.28E-16	1.74E-12	1.50E-16	4.27E-18
78-93-3	2-butanone	5.10E-09	3.02E-08	5.10E-09	3.20E-08	5.10E-09	7.35E-08	1.22E-09	3.77E-13
591-78-6	2-hexanone	2.06E-07	6.28E-07	2.06E-07	6.74E-07	2.06E-07	1.52E-06	4.91E-08	7.33E-12
95-48-7	2-methyl phenol	3.21E-16	8.11E-14	3.21E-16	8.46E-14	3.21E-16	1.99E-13	7.64E-17	6.91E-19
91-57-6	2-methylnaphthalene	7.94E-15	9.61E-14	7.94E-15	1.64E-13	7.94E-15	1.71E-13	1.89E-15	1.03E-17
108-39-4	3-methyl phenol	1.11E-10	2.81E-08	1.11E-10	3.08E-08	1.11E-10	6.72E-08	2.64E-11	7.33E-13
106-44-5	4-methyl phenol	1.11E-10	4.09E-10	1.11E-10	5.89E-10	1.11E-10	8.22E-10	2.64E-11	1.27E-14
108-10-1	4-methyl-2-pentanone	1.34E-09	6.64E-08	1.34E-09	6.74E-08	1.34E-09	1.65E-07	3.18E-10	1.26E-12
67-64-1	acetone	3.84E-09	5.60E-08	3.84E-09	6.16E-08	3.84E-09	1.34E-07	9.15E-10	3.91E-13
107-02-8	acrolein	9.89E-05	1.47E-06	9.89E-05	1.70E-06	9.89E-05	3.45E-06	2.36E-05	1.33E-11
98-83-9	alpha-methylstyrene	2.72E-09	1.50E-08	2.72E-09	3.39E-08	2.72E-09	1.82E-08	6.47E-10	1.04E-13
71-43-2	benzene	4.31E-08	1.82E-08	4.31E-08	4.21E-08	4.31E-08	1.99E-08	1.03E-08	1.08E-14
108-60-1	bis(2-chloroisopropyl) ether	2.72E-16	1.10E-14	2.72E-16	1.18E-14	2.72E-16	2.67E-14	6.48E-17	7.12E-19
75-15-0	carbon disulfide	1.05E-08	9.07E-09	1.05E-08	2.17E-08	1.05E-08	9.21E-09	2.50E-09	6.07E-16
108-90-7	chlorobenzene	1.35E-14	1.04E-14	1.35E-14	2.19E-14	1.35E-14	1.42E-14	3.20E-15	9.73E-21
75-00-3	chloroethane	2.18E-09	2.63E-10	2.18E-09	5.99E-10	2.18E-09	2.81E-10	5.19E-10	3.31E-17
67-66-3	chloroform	3.63E-08	2.16E-08	3.63E-08	5.00E-08	3.63E-08	2.41E-08	8.65E-09	1.31E-14
74-87-3	chloromethane	6.24E-08	8.88E-09	6.24E-08	2.07E-08	6.24E-08	9.57E-09	1.49E-08	2.45E-15
156-59-2	cis-1,2-dichloroethene	4.94E-12	1.39E-11	4.94E-12	1.54E-11	4.94E-12	3.31E-11	1.18E-12	5.74E-17
75-71-8	dichlorodifluoromethane	2.30E-12	9.72E-14	2.30E-12	2.14E-13	2.30E-12	1.21E-13	5.48E-13	2.64E-19
60-29-7	diethyl ether	4.91E-09	2.35E-09	4.91E-09	2.99E-09	4.91E-09	5.09E-09	1.17E-09	1.04E-14
100-41-4	ethylbenzene	9.13E-09	6.40E-08	9.13E-09	1.53E-07	9.13E-09	6.83E-08	2.17E-09	3.18E-14
505-60-2	HD	3.00E-04	2.17E-04	3.00E-04	5.19E-04	3.00E-04	2.35E-04	7.15E-05	5.42E-10

Table G-27. Hazard Indices for the Adult Exposure Scenarios (continued)

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer		Worker	
		Hazard Indices (dimensionless)							
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
110-54-3	hexane	1.96E-09	4.91E-08	1.96E-09	1.21E-07	1.96E-09	4.91E-08	4.66E-10	5.43E-16
1634-04-4	methyl tert-butyl ether	1.69E-09	7.20E-10	1.69E-09	1.08E-09	1.69E-09	1.42E-09	4.03E-10	2.71E-15
75-09-2	methylene chloride	3.67E-08	7.46E-08	3.67E-08	1.40E-07	3.67E-08	1.13E-07	8.73E-09	5.88E-14
91-20-3	naphthalene	2.03E-08	9.00E-09	2.03E-08	1.16E-08	2.03E-08	1.99E-08	4.82E-09	2.14E-12
98-95-3	nitrobenzene	8.82E-16	1.42E-14	8.82E-16	1.48E-14	8.82E-16	3.49E-14	2.10E-16	4.27E-19
109-66-0	pentane	3.30E-09	1.11E-08	3.30E-09	2.72E-08	3.30E-09	1.11E-08	7.85E-10	1.57E-16
108-95-2	phenol	2.00E-15	1.62E-14	2.00E-15	1.66E-14	2.00E-15	4.00E-14	4.77E-16	4.57E-19
115-07-1	propene	1.35E-09	2.27E-10	1.35E-09	5.33E-10	1.35E-09	2.29E-10	3.22E-10	1.49E-17
100-42-5	styrene	6.34E-15	3.92E-13	6.34E-15	4.08E-13	6.34E-15	9.64E-13	1.51E-15	3.55E-18
127-18-4	tetrachloroethene	1.21E-06	5.10E-06	1.21E-06	1.25E-05	1.21E-06	5.25E-06	2.89E-07	2.91E-13
111-48-8	thiodiglycol	5.27E-08	9.78E-04	5.27E-08	9.82E-04	5.27E-08	2.44E-03	1.25E-08	2.39E-10
108-88-3	toluene	2.41E-09	4.98E-08	2.41E-09	1.18E-07	2.41E-09	5.35E-08	5.73E-10	2.65E-14
156-60-5	trans-1,2-dichloroethene	2.11E-13	5.16E-14	2.11E-13	1.21E-13	2.11E-13	5.55E-14	5.03E-14	2.15E-20
79-01-6	trichloroethene	9.34E-06	4.38E-06	9.34E-06	1.05E-05	9.34E-06	4.64E-06	2.22E-06	2.61E-12
75-01-4	vinyl chloride	1.45E-05	1.31E-05	1.45E-05	3.01E-05	1.45E-05	1.39E-05	3.46E-06	1.66E-12
1330-20-7	xylenes	2.69E-07	9.35E-08	2.69E-07	2.21E-07	2.69E-07	1.02E-07	6.41E-08	2.57E-13
7429-90-5	aluminum	2.39E-08	3.91E-10	2.39E-08	3.93E-10	2.39E-08	9.76E-10	5.68E-09	9.78E-18
7664-41-7	ammonia	2.28E-04	3.27E-04	2.28E-04	3.51E-04	2.28E-04	7.94E-04	5.44E-05	5.12E-10
7440-38-2	arsenic	1.82E-07	3.45E-08	1.82E-07	4.23E-08	1.82E-07	7.86E-08	4.34E-08	2.23E-16
7440-43-9	cadmium	1.37E-07	2.04E-08	1.37E-07	3.83E-08	1.37E-07	3.31E-08	3.26E-08	4.53E-15
7782-50-5	chlorine	5.25E-03	4.17E-06	5.25E-03	4.63E-06	5.25E-03	9.93E-06	1.25E-03	2.90E-11
7440-50-8	copper	1.81E-10	3.24E-09	1.81E-10	3.25E-09	1.81E-10	8.09E-09	4.30E-11	4.54E-15
7647-01-0	hydrogen chloride	4.43E-05	8.08E-05	4.43E-05	9.12E-05	4.43E-05	1.91E-04	1.06E-05	1.30E-10
74-90-8	hydrogen cyanide	2.55E-07	2.82E-08	2.55E-07	3.57E-08	2.55E-07	6.27E-08	6.07E-08	1.16E-14
7440-22-4	silver	3.11E-12	1.80E-10	3.11E-12	1.89E-10	3.11E-12	4.43E-10	7.40E-13	3.19E-18
	Total Hazard Quotient	6.82E-03	3.24E-03	6.82E-03	3.69E-03	6.82E-03	7.64E-03	1.62E-03	2.06E-08
	Total Hazard Index	1.01E-02		1.05E-02		1.45E-02		1.62E-03	

Table G-28. Hazard Indices for the Child Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	6.04E-07	1.05E-06	6.04E-07	1.79E-06	6.04E-07	1.85E-06
75-34-3	1,1-dichloroethane	8.34E-09	2.59E-09	8.34E-09	5.57E-09	8.34E-09	3.08E-09
75-35-4	1,1-dichloroethene	1.74E-12	3.19E-14	1.74E-12	7.45E-14	1.74E-12	3.29E-14
87-61-6	1,2,3-trichlorobenzene	1.42E-08	1.12E-06	1.42E-08	2.10E-06	1.42E-08	1.79E-06
120-82-1	1,2,4-trichlorobenzene	1.06E-14	1.32E-14	1.06E-14	2.55E-14	1.06E-14	2.07E-14
95-63-6	1,2,4-trimethyl benzene	9.06E-08	1.17E-06	9.06E-08	2.78E-06	9.06E-08	1.28E-06
95-50-1	1,2-dichlorobenzene	2.04E-16	7.43E-16	2.04E-16	1.64E-15	2.04E-16	9.36E-16
107-06-2	1,2-dichloroethane	8.11E-04	8.60E-05	8.11E-04	1.47E-04	8.11E-04	1.41E-04
78-87-5	1,2-dichloropropane	3.01E-08	1.49E-10	3.01E-08	3.28E-10	3.01E-08	1.75E-10
106-46-7	1,4-dichlorobenzene	5.07E-17	1.10E-15	5.07E-17	2.51E-15	5.07E-17	1.32E-15
505-29-3	1,4-dithiane	5.82E-05	3.56E-03	5.82E-05	3.64E-03	5.82E-05	8.79E-03
109-69-3	1-chlorobutane	4.85E-11	5.19E-11	4.85E-11	1.23E-10	4.85E-11	5.40E-11
120-83-2	2,4-dichlorophenol	6.28E-16	1.39E-12	6.28E-16	1.57E-12	6.28E-16	3.28E-12
78-93-3	2-butanone	5.10E-09	7.37E-08	5.10E-09	7.73E-08	5.10E-09	1.80E-07
591-78-6	2-hexanone	2.06E-07	1.43E-06	2.06E-07	1.52E-06	2.06E-07	3.45E-06
95-48-7	2-methyl phenol	3.21E-16	1.53E-13	3.21E-16	1.60E-13	3.21E-16	3.75E-13
91-57-6	2-methylnaphthalene	7.94E-15	1.98E-13	7.94E-15	3.32E-13	7.94E-15	3.58E-13
108-39-4	3-methyl phenol	1.11E-10	6.43E-08	1.11E-10	6.97E-08	1.11E-10	1.54E-07
106-44-5	4-methyl phenol	1.11E-10	1.03E-09	1.11E-10	1.38E-09	1.11E-10	2.16E-09
108-10-1	4-methyl-2-pentanone	1.34E-09	1.78E-07	1.34E-09	1.80E-07	1.34E-09	4.42E-07
67-64-1	acetone	3.84E-09	1.23E-07	3.84E-09	1.34E-07	3.84E-09	2.95E-07
107-02-8	acrolein	9.89E-05	3.39E-06	9.89E-05	3.83E-06	9.89E-05	7.98E-06
98-83-9	alpha-methylstyrene	2.72E-09	2.97E-08	2.72E-09	6.69E-08	2.72E-09	3.60E-08
71-43-2	benzene	4.31E-08	3.70E-08	4.31E-08	8.41E-08	4.31E-08	4.03E-08
108-60-1	bis(2-chloroisopropyl) ether	2.72E-16	2.55E-14	2.72E-16	2.70E-14	2.72E-16	6.22E-14
75-15-0	carbon disulfide	1.05E-08	1.84E-08	1.05E-08	4.33E-08	1.05E-08	1.86E-08
108-90-7	chlorobenzene	1.35E-14	2.42E-14	1.35E-14	4.67E-14	1.35E-14	3.68E-14
75-00-3	chloroethane	2.18E-09	5.77E-10	2.18E-09	1.24E-09	2.18E-09	6.11E-10
67-66-3	chloroform	3.63E-08	4.43E-08	3.63E-08	1.00E-07	3.63E-08	4.92E-08
74-87-3	chloromethane	6.24E-08	1.92E-08	6.24E-08	4.25E-08	6.24E-08	2.06E-08
156-59-2	cis-1,2-dichloroethene	4.94E-12	2.69E-11	4.94E-12	2.98E-11	4.94E-12	6.40E-11
75-71-8	dichlorodifluoromethane	2.30E-12	1.98E-13	2.30E-12	4.28E-13	2.30E-12	2.47E-13
60-29-7	diethyl ether	4.91E-09	5.17E-09	4.91E-09	6.45E-09	4.91E-09	1.13E-08
100-41-4	ethylbenzene	9.13E-09	1.26E-07	9.13E-09	3.01E-07	9.13E-09	1.35E-07
505-60-2	HD	3.00E-04	4.43E-04	3.00E-04	1.04E-03	3.00E-04	4.87E-04

Table G-28. Hazard Indices for the Child Exposure Scenarios (continued)

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
110-54-3	hexane	1.96E-09	9.67E-08	1.96E-09	2.38E-07	1.96E-09	9.67E-08
1634-04-4	methyl tert-butyl ether	1.69E-09	1.58E-09	1.69E-09	2.29E-09	1.69E-09	3.13E-09
75-09-2	methylene chloride	3.67E-08	1.60E-07	3.67E-08	2.90E-07	3.67E-08	2.36E-07
91-20-3	naphthalene	2.03E-08	2.33E-08	2.03E-08	2.83E-08	2.03E-08	5.31E-08
98-95-3	nitrobenzene	8.82E-16	3.49E-14	8.82E-16	3.61E-14	8.82E-16	8.60E-14
109-66-0	pentane	3.30E-09	2.19E-08	3.30E-09	5.36E-08	3.30E-09	2.19E-08
108-95-2	phenol	2.00E-15	4.35E-14	2.00E-15	4.43E-14	2.00E-15	1.08E-13
115-07-1	propene	1.35E-09	4.74E-10	1.35E-09	1.08E-09	1.35E-09	4.78E-10
100-42-5	styrene	6.34E-15	1.90E-12	6.34E-15	1.93E-12	6.34E-15	4.72E-12
127-18-4	tetrachloroethene	1.21E-06	1.01E-05	1.21E-06	2.46E-05	1.21E-06	1.03E-05
111-48-8	thiodiglycol	5.27E-08	1.93E-03	5.27E-08	1.94E-03	5.27E-08	4.81E-03
108-88-3	toluene	2.41E-09	9.90E-08	2.41E-09	2.33E-07	2.41E-09	1.06E-07
156-60-5	trans-1,2-dichloroethene	2.11E-13	1.05E-13	2.11E-13	2.42E-13	2.11E-13	1.13E-13
79-01-6	trichloroethene	9.34E-06	8.81E-06	9.34E-06	2.08E-05	9.34E-06	9.31E-06
75-01-4	vinyl chloride	1.45E-05	2.89E-05	1.45E-05	6.22E-05	1.45E-05	3.04E-05
1330-20-7	xylenes	2.69E-07	1.85E-07	2.69E-07	4.36E-07	2.69E-07	2.02E-07
7429-90-5	aluminum	2.39E-08	1.25E-09	2.39E-08	1.26E-09	2.39E-08	3.13E-09
7664-41-7	ammonia	2.28E-04	6.92E-04	2.28E-04	7.38E-04	2.28E-04	1.68E-03
7440-38-2	arsenic	1.82E-07	1.03E-07	1.82E-07	1.18E-07	1.82E-07	2.41E-07
7440-43-9	cadmium	1.37E-07	5.05E-08	1.37E-07	8.58E-08	1.37E-07	9.08E-08
7782-50-5	chlorine	5.25E-03	9.95E-06	5.25E-03	1.09E-05	5.25E-03	2.38E-05
7440-50-8	copper	1.81E-10	1.09E-08	1.81E-10	1.09E-08	1.81E-10	2.71E-08
7647-01-0	hydrogen chloride	4.43E-05	1.74E-04	4.43E-05	1.94E-04	4.43E-05	4.10E-04
74-90-8	hydrogen cyanide	2.55E-07	7.74E-08	2.55E-07	9.21E-08	2.55E-07	1.77E-07
7440-22-4	silver	3.11E-12	8.40E-10	3.11E-12	8.56E-10	3.11E-12	2.08E-09
	Total Hazard Quotient	6.82E-03	6.95E-03	6.82E-03	7.83E-03	6.82E-03	1.64E-02
	Total Hazard Index	1.38E-02		1.46E-02		2.32E-02	

Table G-29. Hazard Indices for the Infant Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	6.04E-07	1.01E-06	6.04E-07	1.53E-06	6.04E-07	2.00E-06
75-34-3	1,1-dichloroethane	8.34E-09	1.83E-09	8.34E-09	3.95E-09	8.34E-09	2.44E-09
75-35-4	1,1-dichloroethene	1.74E-12	2.09E-14	1.74E-12	5.13E-14	1.74E-12	2.19E-14
87-61-6	1,2,3-trichlorobenzene	1.42E-08	6.49E-06	1.42E-08	1.26E-05	1.42E-08	9.82E-06
120-82-1	1,2,4-trichlorobenzene	1.06E-14	9.18E-14	1.06E-14	1.68E-13	1.06E-14	1.44E-13
95-63-6	1,2,4-trimethyl benzene	9.06E-08	8.55E-07	9.06E-08	2.00E-06	9.06E-08	9.92E-07
95-50-1	1,2-dichlorobenzene	2.04E-16	5.88E-15	2.04E-16	1.15E-14	2.04E-16	7.19E-15
107-06-2	1,2-dichloroethane	8.11E-04	3.08E-03	8.11E-04	3.46E-03	8.11E-04	3.46E-03
78-87-5	1,2-dichloropropane	3.01E-08	1.06E-10	3.01E-08	2.34E-10	3.01E-08	1.38E-10
106-46-7	1,4-dichlorobenzene	5.07E-17	8.49E-15	5.07E-17	1.72E-14	5.07E-17	1.00E-14
505-29-3	1,4-dithiane	5.82E-05	3.93E-03	5.82E-05	3.99E-03	5.82E-05	9.78E-03
109-69-3	1-chlorobutane	4.85E-11	3.57E-11	4.85E-11	8.67E-11	4.85E-11	3.81E-11
120-83-2	2,4-dichlorophenol	6.28E-16	1.66E-12	6.28E-16	1.79E-12	6.28E-16	4.03E-12
78-93-3	2-butanone	5.10E-09	5.18E-07	5.10E-09	5.41E-07	5.10E-09	1.10E-06
591-78-6	2-hexanone	2.06E-07	1.55E-06	2.06E-07	1.62E-06	2.06E-07	3.81E-06
95-48-7	2-methyl phenol	3.21E-16	1.21E-13	3.21E-16	1.26E-13	3.21E-16	2.99E-13
91-57-6	2-methylnaphthalene	7.94E-15	1.87E-13	7.94E-15	2.83E-13	7.94E-15	3.72E-13
108-39-4	3-methyl phenol	1.11E-10	6.92E-08	1.11E-10	7.31E-08	1.11E-10	1.69E-07
106-44-5	4-methyl phenol	1.11E-10	9.46E-10	1.11E-10	1.20E-09	1.11E-10	2.11E-09
108-10-1	4-methyl-2-pentanone	1.34E-09	1.03E-06	1.34E-09	1.04E-06	1.34E-09	2.36E-06
67-64-1	acetone	3.84E-09	1.10E-06	3.84E-09	1.16E-06	3.84E-09	2.13E-06
107-02-8	acrolein	9.89E-05	3.59E-06	9.89E-05	3.90E-06	9.89E-05	8.66E-06
98-83-9	alpha-methylstyrene	2.72E-09	2.15E-07	2.72E-09	4.45E-07	2.72E-09	2.57E-07
71-43-2	benzene	4.31E-08	1.09E-06	4.31E-08	1.39E-06	4.31E-08	1.12E-06
108-60-1	bis(2-chloroisopropyl) ether	2.72E-16	2.76E-14	2.72E-16	2.87E-14	2.72E-16	6.78E-14
75-15-0	carbon disulfide	1.05E-08	3.09E-07	1.05E-08	4.63E-07	1.05E-08	3.11E-07
108-90-7	chlorobenzene	1.35E-14	2.21E-13	1.35E-14	3.61E-13	1.35E-14	2.72E-13
75-00-3	chloroethane	2.18E-09	2.67E-08	2.18E-09	3.08E-08	2.18E-09	2.70E-08
67-66-3	chloroform	3.63E-08	1.22E-06	3.63E-08	1.57E-06	3.63E-08	1.25E-06
74-87-3	chloromethane	6.24E-08	1.22E-08	6.24E-08	2.89E-08	6.24E-08	1.39E-08
156-59-2	cis-1,2-dichloroethene	4.94E-12	3.19E-11	4.94E-12	3.40E-11	4.94E-12	7.77E-11
75-71-8	dichlorodifluoromethane	2.30E-12	4.30E-12	2.30E-12	5.72E-12	2.30E-12	4.60E-12
60-29-7	diethyl ether	4.91E-09	5.21E-09	4.91E-09	6.13E-09	4.91E-09	1.21E-08
100-41-4	ethylbenzene	9.13E-09	1.03E-06	9.13E-09	2.11E-06	9.13E-09	1.08E-06
505-60-2	HD	3.00E-04	3.16E-04	3.00E-04	7.40E-04	3.00E-04	3.65E-04

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Table G-29. Hazard Indices for the Infant Exposure Scenarios (continued)

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
110-54-3	hexane	1.96E-09	6.59E-07	1.96E-09	1.54E-06	1.96E-09	6.59E-07
1634-04-4	methyl tert-butyl ether	1.69E-09	2.76E-08	1.69E-09	3.19E-08	1.69E-09	3.69E-08
75-09-2	methylene chloride	3.67E-08	1.08E-05	3.67E-08	1.16E-05	3.67E-08	1.13E-05
91-20-3	naphthalene	2.03E-08	1.28E-07	2.03E-08	1.59E-07	2.03E-08	2.75E-07
98-95-3	nitrobenzene	8.82E-16	3.68E-14	8.82E-16	3.76E-14	8.82E-16	9.12E-14
109-66-0	pentane	3.30E-09	1.51E-08	3.30E-09	3.76E-08	3.30E-09	1.51E-08
108-95-2	phenol	2.00E-15	2.22E-13	2.00E-15	2.27E-13	2.00E-15	5.44E-13
115-07-1	propene	1.35E-09	1.74E-08	1.35E-09	2.11E-08	1.35E-09	1.74E-08
100-42-5	styrene	6.34E-15	5.75E-12	6.34E-15	5.95E-12	6.34E-15	1.40E-11
127-18-4	tetrachloroethene	1.21E-06	8.41E-05	1.21E-06	1.74E-04	1.21E-06	8.61E-05
111-48-8	thiodiglycol	5.27E-08	2.34E-03	5.27E-08	2.35E-03	5.27E-08	5.86E-03
108-88-3	toluene	2.41E-09	1.01E-06	2.41E-09	1.84E-06	2.41E-09	1.06E-06
156-60-5	trans-1,2-dichloroethene	2.11E-13	7.13E-14	2.11E-13	1.69E-13	2.11E-13	8.07E-14
79-01-6	trichloroethene	9.34E-06	1.54E-04	9.34E-06	2.29E-04	9.34E-06	1.58E-04
75-01-4	vinyl chloride	1.45E-05	1.71E-05	1.45E-05	4.09E-05	1.45E-05	1.89E-05
1330-20-7	xylenes	2.69E-07	1.51E-06	2.69E-07	3.06E-06	2.69E-07	1.62E-06
7429-90-5	aluminum	2.39E-08	6.10E-09	2.39E-08	6.12E-09	2.39E-08	1.47E-08
7664-41-7	ammonia	2.28E-04	7.88E-04	2.28E-04	8.21E-04	2.28E-04	1.94E-03
7440-38-2	arsenic	1.82E-07	6.39E-06	1.82E-07	7.71E-06	1.82E-07	1.41E-05
7440-43-9	cadmium	1.37E-07	7.74E-04	1.37E-07	1.43E-03	1.37E-07	1.24E-03
7782-50-5	chlorine	5.25E-03	1.04E-05	5.25E-03	1.11E-05	5.25E-03	2.54E-05
7440-50-8	copper	1.81E-10	1.26E-04	1.81E-10	1.26E-04	1.81E-10	3.04E-04
7647-01-0	hydrogen chloride	4.43E-05	1.92E-04	4.43E-05	2.07E-04	4.43E-05	4.66E-04
74-90-8	hydrogen cyanide	2.55E-07	8.36E-08	2.55E-07	9.40E-08	2.55E-07	1.98E-07
7440-22-4	silver	3.11E-12	6.74E-06	3.11E-12	7.04E-06	3.11E-12	1.64E-05
	Total Hazard Quotient	6.82E-03	1.19E-02	6.82E-03	1.36E-02	6.82E-03	2.38E-02
	Total Hazard Index	1.87E-02		2.05E-02		3.06E-02	

Table G-30. Hazard Indices for the Lifetime (I) Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	6.04E-07	6.35E-07	6.04E-07	1.07E-06	6.04E-07	1.09E-06
75-34-3	1,1-dichloroethane	8.34E-09	1.49E-09	8.34E-09	3.27E-09	8.34E-09	1.73E-09
75-35-4	1,1-dichloroethene	1.74E-12	1.85E-14	1.74E-12	4.40E-14	1.74E-12	1.84E-14
87-61-6	1,2,3-trichlorobenzene	1.42E-08	8.04E-07	1.42E-08	1.57E-06	1.42E-08	1.11E-06
120-82-1	1,2,4-trichlorobenzene	1.06E-14	1.07E-14	1.06E-14	2.03E-14	1.06E-14	1.54E-14
95-63-6	1,2,4-trimethyl benzene	9.06E-08	6.99E-07	9.06E-08	1.66E-06	9.06E-08	7.39E-07
95-50-1	1,2-dichlorobenzene	2.04E-16	6.22E-16	2.04E-16	1.32E-15	2.04E-16	7.01E-16
107-06-2	1,2-dichloroethane	8.11E-04	1.50E-04	8.11E-04	1.98E-04	8.11E-04	1.64E-04
78-87-5	1,2-dichloropropane	3.01E-08	8.64E-11	3.01E-08	1.93E-10	3.01E-08	9.82E-11
106-46-7	1,4-dichlorobenzene	5.07E-17	9.16E-16	5.07E-17	2.01E-15	5.07E-17	9.92E-16
505-29-3	1,4-dithiane	5.82E-05	1.97E-03	5.82E-05	2.02E-03	5.82E-05	4.63E-03
109-69-3	1-chlorobutane	4.85E-11	3.06E-11	4.85E-11	7.33E-11	4.85E-11	3.06E-11
120-83-2	2,4-dichlorophenol	6.28E-16	8.73E-13	6.28E-16	9.80E-13	6.28E-16	1.99E-12
78-93-3	2-butanone	5.10E-09	5.37E-08	5.10E-09	5.65E-08	5.10E-09	1.12E-07
591-78-6	2-hexanone	2.06E-07	7.92E-07	2.06E-07	8.46E-07	2.06E-07	1.82E-06
95-48-7	2-methyl phenol	3.21E-16	9.44E-14	3.21E-16	9.86E-14	3.21E-16	2.23E-13
91-57-6	2-methylnaphthalene	7.94E-15	1.16E-13	7.94E-15	1.96E-13	7.94E-15	1.99E-13
108-39-4	3-methyl phenol	1.11E-10	3.55E-08	1.11E-10	3.87E-08	1.11E-10	8.07E-08
106-44-5	4-methyl phenol	1.11E-10	5.31E-10	1.11E-10	7.42E-10	1.11E-10	1.02E-09
108-10-1	4-methyl-2-pentanone	1.34E-09	1.17E-07	1.34E-09	1.19E-07	1.34E-09	2.54E-07
67-64-1	acetone	3.84E-09	1.02E-07	3.84E-09	1.10E-07	3.84E-09	2.04E-07
107-02-8	acrolein	9.89E-05	1.86E-06	9.89E-05	2.13E-06	9.89E-05	4.15E-06
98-83-9	alpha-methylstyrene	2.72E-09	2.41E-08	2.72E-09	5.31E-08	2.72E-09	2.64E-08
71-43-2	benzene	4.31E-08	5.72E-08	4.31E-08	9.39E-08	4.31E-08	4.98E-08
108-60-1	bis(2-chloroisopropyl) ether	2.72E-16	1.40E-14	2.72E-16	1.49E-14	2.72E-16	3.22E-14
75-15-0	carbon disulfide	1.05E-08	2.06E-08	1.05E-08	4.00E-08	1.05E-08	1.79E-08
108-90-7	chlorobenzene	1.35E-14	1.97E-14	1.35E-14	3.73E-14	1.35E-14	2.35E-14
75-00-3	chloroethane	2.18E-09	1.20E-09	2.18E-09	1.71E-09	2.18E-09	9.89E-10
67-66-3	chloroform	3.63E-08	6.53E-08	3.63E-08	1.09E-07	3.63E-08	5.80E-08
74-87-3	chloromethane	6.24E-08	1.07E-08	6.24E-08	2.46E-08	6.24E-08	1.11E-08
156-59-2	cis-1,2-dichloroethene	4.94E-12	1.66E-11	4.94E-12	1.84E-11	4.94E-12	3.81E-11
75-71-8	dichlorodifluoromethane	2.30E-12	2.54E-13	2.30E-12	4.33E-13	2.30E-12	2.49E-13
60-29-7	diethyl ether	4.91E-09	2.91E-09	4.91E-09	3.67E-09	4.91E-09	6.04E-09
100-41-4	ethylbenzene	9.13E-09	1.07E-07	9.13E-09	2.43E-07	9.13E-09	1.02E-07
505-60-2	HD	3.00E-04	2.58E-04	3.00E-04	6.13E-04	3.00E-04	2.70E-04

Table G-30. Hazard Indices for the Lifetime (I) Exposure Scenarios (continued)

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
110-54-3	hexane	1.96E-09	7.74E-08	1.96E-09	1.88E-07	1.96E-09	7.03E-08
1634-04-4	methyl tert-butyl ether	1.69E-09	1.76E-09	1.69E-09	2.31E-09	1.69E-09	2.52E-09
75-09-2	methylene chloride	3.67E-08	4.47E-07	3.67E-08	5.48E-07	3.67E-08	4.09E-07
91-20-3	naphthalene	2.03E-08	1.53E-08	2.03E-08	1.93E-08	2.03E-08	3.04E-08
98-95-3	nitrobenzene	8.82E-16	1.84E-14	8.82E-16	1.91E-14	8.82E-16	4.27E-14
109-66-0	pentane	3.30E-09	1.30E-08	3.30E-09	3.19E-08	3.30E-09	1.26E-08
108-95-2	phenol	2.00E-15	2.76E-14	2.00E-15	2.82E-14	2.00E-15	6.10E-14
115-07-1	propene	1.35E-09	8.39E-10	1.35E-09	1.31E-09	1.35E-09	6.89E-10
100-42-5	styrene	6.34E-15	8.22E-13	6.34E-15	8.47E-13	6.34E-15	1.76E-12
127-18-4	tetrachloroethene	1.21E-06	8.56E-06	1.21E-06	1.99E-05	1.21E-06	7.91E-06
111-48-8	thiodiglycol	5.27E-08	1.18E-03	5.27E-08	1.19E-03	5.27E-08	2.82E-03
108-88-3	toluene	2.41E-09	9.01E-08	2.41E-09	1.94E-07	2.41E-09	8.53E-08
156-60-5	trans-1,2-dichloroethene	2.11E-13	6.12E-14	2.11E-13	1.43E-13	2.11E-13	6.33E-14
79-01-6	trichloroethene	9.34E-06	1.01E-05	9.34E-06	1.95E-05	9.34E-06	9.05E-06
75-01-4	vinyl chloride	1.45E-05	1.59E-05	1.45E-05	3.58E-05	1.45E-05	1.61E-05
1330-20-7	xylenes	2.69E-07	1.56E-07	2.69E-07	3.52E-07	2.69E-07	1.52E-07
7429-90-5	aluminum	2.39E-08	7.25E-10	2.39E-08	7.27E-10	2.39E-08	1.59E-09
7664-41-7	ammonia	2.28E-04	4.03E-04	2.28E-04	4.31E-04	2.28E-04	9.33E-04
7440-38-2	arsenic	1.82E-07	2.58E-07	1.82E-07	3.11E-07	1.82E-07	4.49E-07
7440-43-9	cadmium	1.37E-07	2.58E-05	1.37E-07	4.78E-05	1.37E-07	3.11E-05
7782-50-5	chlorine	5.25E-03	5.34E-06	5.25E-03	5.89E-06	5.25E-03	1.21E-05
7440-50-8	copper	1.81E-10	4.19E-06	1.81E-10	4.21E-06	1.81E-10	7.60E-06
7647-01-0	hydrogen chloride	4.43E-05	1.00E-04	4.43E-05	1.12E-04	4.43E-05	2.25E-04
74-90-8	hydrogen cyanide	2.55E-07	3.82E-08	2.55E-07	4.70E-08	2.55E-07	8.03E-08
7440-22-4	silver	3.11E-12	2.25E-07	3.11E-12	2.35E-07	3.11E-12	4.10E-07
	Total Hazard Quotient	6.82E-03	4.15E-03	6.82E-03	4.71E-03	6.82E-03	9.14E-03
	Total Hazard Index	1.10E-02		1.15E-02		1.60E-02	

Table G-31. Hazard Indices for the Lifetime (II) Exposure Scenarios

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
79-34-5	1,1,2,2-tetrachloroethane	6.04E-07	6.19E-07	6.04E-07	1.05E-06	6.04E-07	1.06E-06
75-34-3	1,1-dichloroethane	8.34E-09	1.47E-09	8.34E-09	3.23E-09	8.34E-09	1.70E-09
75-35-4	1,1-dichloroethene	1.74E-12	1.84E-14	1.74E-12	4.35E-14	1.74E-12	1.83E-14
87-61-6	1,2,3-trichlorobenzene	1.42E-08	6.04E-07	1.42E-08	1.19E-06	1.42E-08	8.78E-07
120-82-1	1,2,4-trichlorobenzene	1.06E-14	7.92E-15	1.06E-14	1.51E-14	1.06E-14	1.21E-14
95-63-6	1,2,4-trimethyl benzene	9.06E-08	6.91E-07	9.06E-08	1.64E-06	9.06E-08	7.30E-07
95-50-1	1,2-dichlorobenzene	2.04E-16	4.38E-16	2.04E-16	9.69E-16	2.04E-16	5.34E-16
107-06-2	1,2-dichloroethane	8.11E-04	4.90E-05	8.11E-04	8.51E-05	8.11E-04	7.90E-05
78-87-5	1,2-dichloropropane	3.01E-08	8.53E-11	3.01E-08	1.91E-10	3.01E-08	9.69E-11
106-46-7	1,4-dichlorobenzene	5.07E-17	6.52E-16	5.07E-17	1.48E-15	5.07E-17	7.58E-16
505-29-3	1,4-dithiane	5.82E-05	1.90E-03	5.82E-05	1.94E-03	5.82E-05	4.48E-03
109-69-3	1-chlorobutane	4.85E-11	3.03E-11	4.85E-11	7.25E-11	4.85E-11	3.04E-11
120-83-2	2,4-dichlorophenol	6.28E-16	8.42E-13	6.28E-16	9.48E-13	6.28E-16	1.93E-12
78-93-3	2-butanone	5.10E-09	3.74E-08	5.10E-09	3.95E-08	5.10E-09	8.68E-08
591-78-6	2-hexanone	2.06E-07	7.61E-07	2.06E-07	8.15E-07	2.06E-07	1.76E-06
95-48-7	2-methyl phenol	3.21E-16	9.31E-14	3.21E-16	9.72E-14	3.21E-16	2.21E-13
91-57-6	2-methylnaphthalene	7.94E-15	1.13E-13	7.94E-15	1.92E-13	7.94E-15	1.94E-13
108-39-4	3-methyl phenol	1.11E-10	3.41E-08	1.11E-10	3.73E-08	1.11E-10	7.81E-08
106-44-5	4-methyl phenol	1.11E-10	5.13E-10	1.11E-10	7.22E-10	1.11E-10	9.90E-10
108-10-1	4-methyl-2-pentanone	1.34E-09	8.50E-08	1.34E-09	8.62E-08	1.34E-09	1.99E-07
67-64-1	acetone	3.84E-09	6.71E-08	3.84E-09	7.37E-08	3.84E-09	1.54E-07
107-02-8	acrolein	9.89E-05	1.79E-06	9.89E-05	2.05E-06	9.89E-05	4.02E-06
98-83-9	alpha-methylstyrene	2.72E-09	1.75E-08	2.72E-09	3.94E-08	2.72E-09	2.05E-08
71-43-2	benzene	4.31E-08	2.13E-08	4.31E-08	4.91E-08	4.31E-08	2.24E-08
108-60-1	bis(2-chloroisopropyl) ether	2.72E-16	1.34E-14	2.72E-16	1.43E-14	2.72E-16	3.12E-14
75-15-0	carbon disulfide	1.05E-08	1.06E-08	1.05E-08	2.53E-08	1.05E-08	1.04E-08
108-90-7	chlorobenzene	1.35E-14	1.27E-14	1.35E-14	2.60E-14	1.35E-14	1.70E-14
75-00-3	chloroethane	2.18E-09	3.16E-10	2.18E-09	7.05E-10	2.18E-09	3.22E-10
67-66-3	chloroform	3.63E-08	2.54E-08	3.63E-08	5.84E-08	3.63E-08	2.72E-08
74-87-3	chloromethane	6.24E-08	1.06E-08	6.24E-08	2.44E-08	6.24E-08	1.10E-08
156-59-2	cis-1,2-dichloroethene	4.94E-12	1.60E-11	4.94E-12	1.78E-11	4.94E-12	3.70E-11
75-71-8	dichlorodifluoromethane	2.30E-12	1.14E-13	2.30E-12	2.50E-13	2.30E-12	1.37E-13
60-29-7	diethyl ether	4.91E-09	2.82E-09	4.91E-09	3.57E-09	4.91E-09	5.86E-09
100-41-4	ethylbenzene	9.13E-09	7.44E-08	9.13E-09	1.77E-07	9.13E-09	7.66E-08
505-60-2	HD	3.00E-04	2.55E-04	3.00E-04	6.06E-04	3.00E-04	2.66E-04

Table G-31. Hazard Indices for the Lifetime (II) Exposure Scenarios (continued)

CAS No.	Compound Name	Resident		Subsistence Fisher		Subsistence Farmer	
		Hazard Indices (dimensionless)					
		Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure	Direct Exposure	Indirect Exposure
110-54-3	hexane	1.96E-09	5.70E-08	1.96E-09	1.40E-07	1.96E-09	5.51E-08
1634-04-4	methyl tert-butyl ether	1.69E-09	8.63E-10	1.69E-09	1.28E-09	1.69E-09	1.63E-09
75-09-2	methylene chloride	3.67E-08	8.89E-08	3.67E-08	1.65E-07	3.67E-08	1.29E-07
91-20-3	naphthalene	2.03E-08	1.14E-08	2.03E-08	1.43E-08	2.03E-08	2.40E-08
98-95-3	nitrobenzene	8.82E-16	1.77E-14	8.82E-16	1.83E-14	8.82E-16	4.13E-14
109-66-0	pentane	3.30E-09	1.29E-08	3.30E-09	3.16E-08	3.30E-09	1.25E-08
108-95-2	phenol	2.00E-15	2.07E-14	2.00E-15	2.12E-14	2.00E-15	4.84E-14
115-07-1	propene	1.35E-09	2.69E-10	1.35E-09	6.23E-10	1.35E-09	2.60E-10
100-42-5	styrene	6.34E-15	6.44E-13	6.34E-15	6.62E-13	6.34E-15	1.43E-12
127-18-4	tetrachloroethene	1.21E-06	5.93E-06	1.21E-06	1.45E-05	1.21E-06	5.89E-06
111-48-8	thiodiglycol	5.27E-08	1.14E-03	5.27E-08	1.14E-03	5.27E-08	2.74E-03
108-88-3	toluene	2.41E-09	5.80E-08	2.41E-09	1.37E-07	2.41E-09	6.01E-08
156-60-5	trans-1,2-dichloroethene	2.11E-13	6.05E-14	2.11E-13	1.41E-13	2.11E-13	6.27E-14
79-01-6	trichloroethene	9.34E-06	5.12E-06	9.34E-06	1.22E-05	9.34E-06	5.22E-06
75-01-4	vinyl chloride	1.45E-05	1.58E-05	1.45E-05	3.54E-05	1.45E-05	1.60E-05
1330-20-7	xylenes	2.69E-07	1.09E-07	2.69E-07	2.57E-07	2.69E-07	1.14E-07
7429-90-5	aluminum	2.39E-08	5.34E-10	2.39E-08	5.36E-10	2.39E-08	1.24E-09
7664-41-7	ammonia	2.28E-04	3.88E-04	2.28E-04	4.15E-04	2.28E-04	9.04E-04
7440-38-2	arsenic	1.82E-07	4.59E-08	1.82E-07	5.49E-08	1.82E-07	9.90E-08
7440-43-9	cadmium	1.37E-07	2.54E-08	1.37E-07	4.62E-08	1.37E-07	4.03E-08
7782-50-5	chlorine	5.25E-03	5.13E-06	5.25E-03	5.67E-06	5.25E-03	1.17E-05
7440-50-8	copper	1.81E-10	4.51E-09	1.81E-10	4.53E-09	1.81E-10	1.05E-08
7647-01-0	hydrogen chloride	4.43E-05	9.63E-05	4.43E-05	1.08E-04	4.43E-05	2.18E-04
74-90-8	hydrogen cyanide	2.55E-07	3.64E-08	2.55E-07	4.51E-08	2.55E-07	7.70E-08
7440-22-4	silver	3.11E-12	2.90E-10	3.11E-12	3.00E-10	3.11E-12	6.48E-10
	Total Hazard Quotient	6.82E-03	3.86E-03	6.82E-03	4.38E-03	6.82E-03	8.73E-03
	Total Hazard Index	1.07E-02		1.12E-02		1.56E-02	

Notes: ND – no oral toxicity data is available for this COPC

Table G-32. Acute Hazards Associated With Short-term Emission Release Events

COPC	AIEC (mg/m^3)	Maximum On-site Location		Maximum Off-site Location	
		Acute Air Concentration (µg/m^3)	Acute HQ (dimensionless)	Acute Air Concentration (µg/m^3)	Acute HQ (dimensionless)
1,1,2,2-tetrachloroethane	7	1.62E-01	2.31E-05	5.79E-02	8.27E-06
1,1-dichloroethane	650	2.70E-02	4.15E-08	8.07E-03	1.24E-08
1,1-dichloroethene	180	4.79E-05	2.66E-10	2.26E-06	1.26E-11
1,2,3-trichlorobenzene	6.3	1.50E-04	2.38E-08	5.41E-05	8.59E-09
1,2,4-trichlorobenzene	3.4	8.32E-08	2.45E-11	3.93E-09	1.16E-12
1,2,4-trimethyl benzene	687.851	6.20E-04	9.01E-10	1.01E-04	1.47E-10
1,2-dichlorobenzene	300	1.60E-07	5.35E-13	7.58E-09	2.53E-14
1,2-dichloroethane	202.251	1.79E+01	8.86E-05	6.01E+00	2.97E-05
1,2-dichloropropane	140	4.26E-04	3.04E-09	1.45E-04	1.04E-09
1,3-dichlorobenzene	16	1.43E-07	8.94E-12	6.76E-09	4.22E-13
1,4-dichlorobenzene	60	1.60E-07	2.66E-12	7.54E-09	1.26E-13
1,4-oxathiane	10	8.60E+00	8.60E-04	3.01E+00	3.01E-04
1-chlorobutane	5.6	2.88E-05	5.14E-09	9.42E-06	1.68E-09
1-hexene	170	1.08E-02	6.33E-08	3.31E-03	1.95E-08
2,4-dichlorophenol	1.33254	2.96E-08	2.22E-11	1.40E-09	1.05E-12
2-butanone	13	9.26E-02	7.12E-06	3.04E-02	2.34E-06
2-chlorobutane	0.47	1.27E-01	2.70E-04	3.99E-02	8.49E-05
2-chloroethoxyethane	0.75	1.20E+00	1.60E-03	4.33E-01	5.77E-04
2-hexanone	41	1.25E-02	3.04E-07	4.53E-03	1.10E-07
2-methyl phenol	20	6.36E-07	3.18E-11	3.00E-08	1.50E-12
2-methylnaphthalene	3	4.23E-07	1.41E-10	2.00E-08	6.66E-12
3-methyl phenol	20	2.21E-04	1.10E-08	7.96E-05	3.98E-09
4-methyl phenol	20	2.21E-04	1.10E-08	7.96E-05	3.98E-09
4-methyl-2-pentanone	310	1.37E-02	4.41E-08	4.81E-03	1.55E-08
acenaphthylene	10	1.29E-07	1.29E-11	6.11E-09	6.11E-13
acetone	474.807	4.54E-01	9.57E-07	1.38E-01	2.90E-07
acetylene	69000	5.74E+00	8.32E-08	2.71E-01	3.93E-09
acrolein	0.0025	1.93E-03	7.74E-04	3.16E-04	1.26E-04
alpha-methylstyrene	480	7.44E-04	1.55E-09	1.22E-04	2.53E-10
benzene	0.027	4.84E-03	1.79E-04	1.61E-03	5.97E-05
carbon disulfide	6.2	8.60E-02	1.39E-05	4.88E-03	7.88E-07
chlorobenzene	46.0257	2.64E-06	5.74E-11	1.25E-07	2.71E-12
chloroethane	260	2.13E-02	8.20E-08	3.49E-03	1.34E-08
chloroform	0.15	1.20E-02	8.00E-05	3.70E-03	2.46E-05
chloromethane	309.556	6.07E-02	1.96E-07	9.70E-03	3.13E-08
cis-1,2-dichloroethene	554.745	1.55E-04	2.79E-10	7.31E-06	1.32E-11
dichlorodifluoromethane	4900	9.05E-04	1.85E-10	4.27E-05	8.72E-12
diethyl ether	1500	2.00E-02	1.34E-08	5.08E-03	3.38E-09
ethane	3700	2.07E+00	5.61E-07	3.24E-01	8.76E-08
ethanol	3389.63	2.76E-01	8.13E-08	1.30E-02	3.84E-09
ethylbenzene	143.252	8.93E-03	6.23E-08	1.46E-03	1.02E-08
HD	0.00075	1.30E-02	1.73E-02	1.31E-03	1.75E-03
hexane	1100	1.34E-03	1.22E-09	2.19E-04	1.99E-10
methane	1900	1.15E+02	6.04E-05	5.42E+00	2.85E-06
methyl tert-butyl ether	180.261	4.96E-03	2.75E-08	8.11E-04	4.50E-09
methylene chloride	14	1.02E-01	7.30E-06	2.71E-02	1.94E-06
monoethanolamine	15	1.13E+01	7.53E-04	5.33E-01	3.56E-05
naphthalene	79	2.02E-04	2.55E-09	7.27E-05	9.20E-10
nitrobenzene	9.1	3.12E-08	3.43E-12	1.47E-09	1.62E-13
octane	1400	2.98E-03	2.13E-09	4.86E-04	3.47E-10

Table G-32. Acute Hazards Associated With Short-term Emission Release Events (continued)

COPC	AIEC (mg/m^3)	Maximum On-site Location		Maximum Off-site Location	
		Acute Air Concentration ($\mu g/m^3$)	Acute HQ (dimensionless)	Acute Air Concentration ($\mu g/m^3$)	Acute HQ (dimensionless)
pentane	350	3.22E-03	9.21E-09	5.27E-04	1.51E-09
phenanthrene	0.76	3.92E-08	5.15E-11	1.85E-09	2.43E-12
phenol	5.8	1.33E-06	2.29E-10	6.27E-08	1.08E-11
propene	860	3.97E-03	4.61E-09	6.48E-04	7.54E-10
styrene	21	2.48E-05	1.18E-09	1.17E-06	5.57E-11
tert-butyl alcohol	450	2.45E-03	5.45E-09	4.01E-04	8.92E-10
tetrachloroethene	20	1.59E-01	7.93E-06	5.60E-02	2.80E-06
thiodiglycol	20	6.79E-01	3.40E-05	1.04E-01	5.22E-06
toluene	37	7.15E-02	1.93E-06	4.79E-03	1.30E-07
trans-1,2-dichloroethene	1109.49	6.62E-05	5.97E-11	3.13E-06	2.82E-12
trichloroethene	698.175	6.13E-02	8.79E-08	2.07E-02	2.96E-08
vinyl chloride	180	2.64E+00	1.47E-05	5.19E-01	2.88E-06
xylenes	22	2.63E-02	1.20E-06	4.33E-03	1.97E-07
aluminum	3	7.53E-01	2.51E-04	3.56E-02	1.19E-05
ammonia	3.2	5.50E+01	1.72E-02	1.17E+01	3.67E-03
arsenic	0.0002	1.52E-02	7.62E-02	7.20E-04	3.60E-03
cadmium	0.1	8.74E-03	8.74E-05	4.13E-04	4.13E-06
chlorine	0.21	7.43E-01	3.54E-03	1.21E-01	5.78E-04
copper	0.1	1.93E-01	1.93E-03	9.12E-03	9.12E-05
hydrogen chloride	2.1	8.66E-01	4.13E-04	1.42E-01	6.74E-05
hydrogen cyanide	0.34	1.37E+00	4.04E-03	6.48E-02	1.91E-04
lead	0.15	6.56E-02	4.37E-04	3.10E-03	2.06E-05
silver	0.1	3.95E-04	3.95E-06	1.87E-05	1.87E-07
		Total HI_A	0.126	**Total HI_A**	0.0112