Table D-2a

Bioconcentration Factors for Media to Wildlife Measurement Receptors

Habitat Specific Measurement Receptor	Biotransfer Factors (Ba)		American Robin (M, SS)	Blue Grouse (M)	Chukar (M)	Common Muskrat (A)	Coyote (A, M, SS)	Deer Mouse (M, SS)	Elk (M)	Great Blue Heron (A)	Mallard (A)	Northern Pintail (A)	Pronghorn Antelope (SS)	Red-tailed Hawk (A, M, SS)	Sage grouse (SS)
Bioconcentration Factors for Water															
COPC	Ba_{beef} (day/kg FW)	$Ba_{chicken}$ (day/kg FW)	BCF_{W-OB}	BCF_{W-HB}	BCF_{W-OB}	BCF_{W-OM}	BCF_{W-CM}	BCF_{W-OM}	BCF_{W-HM}	BCF_{W-PB}	BCF_{W-OB}	BCF_{W-HB}	BCF_{W-HM}	BCF_{W-CB}	BCF_{W-HB}
Dioxins and Furans															
2,3,7,8-TCDD	5.43E-02	1.51E+02	2.07E+01	8.15E+00	1.06E+01	5.48E-03	4.29E-03	8.20E-03	3.09E-03	6.80E+00	8.76E+00	9.21E+00	3.80E-03	9.06E+00	7.70E+00
1,2,3,7,8-PeCDD	5.43E-02	1.14E+02	1.56E+01	6.16E+00	7.98E+00	5.48E-03	4.29E-03	8.20E-03	3.09E-03	5.13E+00	6.61E+00	6.95E+00	3.80E-03	6.84E+00	5.81E+00
1,2,3,4,7,8-HxCDD	3.26E-02	8.32E+01	1.14E+01	4.49E+00	5.82E+00	3.29E-03	2.57E-03	4.92E-03	1.86E-03	3.74E+00	4.83E+00	5.08E+00	2.28E-03	4.99E+00	4.24E+00
1,2,3,6,7,8-HxCDD	2.71E-02	5.32E+01	7.29E+00	2.87E+00	3.72E+00	2.74E-03	2.14E-03	4.10E-03	1.55E-03	2.39E+00	3.09E+00	3.25E+00	1.90E-03	3.19E+00	2.71E+00
1,2,3,7,8,9-HxCDD	2.71E-02	2.86E+01	3.92E+00	1.54E+00	2.00E+00	2.74E-03	2.14E-03	4.10E-03	1.55E-03	1.29E+00	1.66E+00	1.74E+00	1.90E-03	1.72E+00	1.46E+00
1,2,3,4,6,7,8-HpCDD	5.43E-03	1.77E+01	2.42E+00	9.56E-01	1.24E+00	5.48E-04	4.29E-04	8.20E-04	3.09E-04	7.97E-01	1.03E+00	1.08E+00	3.80E-04	1.06E+00	9.03E-01
OCDD	5.43E-03	2.27E+00	3.11E-01	1.23E-01	1.59E-01	5.48E-04	4.29E-04	8.20E-04	3.09E-04	1.02E-01	1.32E-01	1.38E-01	3.80E-04	1.36E-01	1.16E-01
2,3,7,8-TCDF	1.63E-02	1.16E+02	1.59E+01	6.26E+00	8.12E+00	1.64E-03	1.29E-03	2.46E-03	9.28E-04	5.22E+00	6.73E+00	7.08E+00	1.14E-03	6.96E+00	5.92E+00
1,2,3,7,8-PeCDF	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-03	8.58E-04	1.64E-03	6.19E-04	0.00E+00	0.00E+00	0.00E+00	7.60E-04	0.00E+00	0.00E+00
2,3,4,7,8-PeCDF	4.89E-02	1.49E+02	2.04E+01	8.05E+00	1.04E+01	4.93E-03	3.86E-03	7.38E-03	2.78E-03	6.71E+00	8.64E+00	9.09E+00	3.42E-03	8.94E+00	7.60E+00
1,2,3,4,7,8-HxCDF	3.80E-02	7.18E+01	9.84E+00	3.88E+00	5.03E+00	3.84E-03	3.00E-03	5.74E-03	2.17E-03	3.23E+00	4.16E+00	4.38E+00	2.66E-03	4.31E+00	3.66E+00
1,2,3,6,7,8-HxCDF	3.26E-02	7.36E+01	1.01E+01	3.97E+00	5.15E+00	3.29E-03	2.57E-03	4.92E-03	1.86E-03	3.31E+00	4.27E+00	4.49E+00	2.28E-03	4.42E+00	3.75E+00
2,3,4,6,7,8-HxCDF	3.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-03	2.57E-03	4.92E-03	1.86E-03	0.00E+00	0.00E+00	0.00E+00	2.28E-03	0.00E+00	0.00E+00
1,2,3,7,8,9-HxCDF	2.71E-02	3.59E+01	4.92E+00	1.94E+00	2.51E+00	2.74E-03	2.14E-03	4.10E-03	1.55E-03	1.62E+00	2.08E+00	2.19E+00	1.90E-03	2.15E+00	1.83E+00
1,2,3,4,6,7,8-HpCDF	5.43E-03	1.45E+01	1.99E+00	7.83E-01	1.02E+00	5.48E-04	4.29E-04	8.20E-04	3.09E-04	6.53E-01	8.41E-01	8.85E-01	3.80E-04	8.70E-01	7.40E-01
1,2,3,4,7,8,9-HpCDF	1.63E-02	2.18E+01	2.99E+00	1.18E+00	1.53E+00	1.64E-03	1.29E-03	2.46E-03	9.28E-04	9.81E-01	1.26E+00	1.33E+00	1.14E-03	1.31E+00	1.11E+00
OCDF	5.43E-03	9.09E-01	1.25E-01	4.91E-02	6.36E-02	5.48E-04	4.29E-04	8.20E-04	3.09E-04	4.09E-02	5.27E-02	5.54E-02	3.80E-04	5.45E-02	4.64E-02
Polycyclic Aromatic Hydrocarbons															
Benzo(a)pyrene	3.38E-02	2.67E-02	3.66E-03	1.44E-03	1.87E-03	3.42E-03	2.67E-03	5.11E-03	1.93E-03	1.20E-03	1.55E-03	1.63E-03	2.37E-03	1.60E-03	1.36E-03
Benzo(a)anthracene	1.20E-02	9.46E-03	1.30E-03	5.11E-04	6.62E-04	1.21E-03	9.47E-04	1.81E-03	6.83E-04	4.26E-04	5.49E-04	5.77E-04	8.39E-04	5.68E-04	4.82E-04
Benzo(b)fluoranthene	4.00E-02	3.16E-02	4.33E-03	1.71E-03	2.21E-03	4.04E-03	3.16E-03	6.04E-03	2.28E-03	1.42E-03	1.83E-03	1.93E-03	2.80E-03	1.90E-03	1.61E-03
Benzo(k)fluoranthene	3.98E-02	3.14E-02	4.31E-03	1.70E-03	2.20E-03	4.02E-03	3.15E-03	6.01E-03	2.27E-03	1.41E-03	1.82E-03	1.92E-03	2.79E-03	1.89E-03	1.60E-03
Chrysene	1.38E-02	1.09E-02	1.49E-03	5.87E-04	7.61E-04	1.39E-03	1.09E-03	2.08E-03	7.85E-04	4.89E-04	6.31E-04	6.63E-04	9.64E-04	6.52E-04	5.54E-04
Dibenz(a,h)anthracene	8.86E-02	7.00E-02	9.58E-03	3.78E-03	4.90E-03	8.95E-03	7.00E-03	1.34E-02	5.05E-03	3.15E-03	4.06E-03	4.27E-03	6.20E-03	4.20E-03	3.57E-03
Indeno(1,2,3-cd) pyrene	2.07E-01	1.63E-01	2.23E-02	8.81E-03	1.14E-02	2.09E-02	1.63E-02	3.12E-02	1.18E-02	7.34E-03	9.46E-03	9.95E-03	1.45E-02	9.78E-03	8.32E-03
Polychlorinated Biphenyls															
Aroclor 1016	6.37E-03	5.03E-03	6.89E-04	2.71E-04	3.52E-04	6.43E-04	5.03E-04	9.61E-04	3.63E-04	2.26E-04	2.92E-04	3.07E-04	4.46E-04	3.02E-04	2.56E-04
Aroclor 1254	4.05E-02	3.19E-02	4.38E-03	1.73E-03	2.24E-03	4.09E-03	3.20E-03	6.11E-03	2.31E-03	1.44E-03	1.85E-03	1.95E-03	2.83E-03	1.92E-03	1.63E-03
Nitroaromatics															
1,3-Dinitrobenzene	7.79E-07	6.23E-07	8.53E-08	3.36E-08	4.36E-08	7.86E-08	6.15E-08	1.18E-07	4.44E-08	2.80E-08	3.61E-08	3.80E-08	5.45E-08	3.74E-08	3.18E-08
2,4-Dinitrotoluene	2.49E-06	1.96E-06	2.69E-07	1.06E-07	1.37E-07	2.51E-07	1.96E-07	3.76E-07	1.42E-07	8.83E-08	1.14E-07	1.20E-07	1.74E-07	1.18E-07	1.00E-07
2,6-Dinitrotoluene	1.93E-06	1.53E-06	2.09E-07	8.25E-08	1.07E-07	1.95E-07	1.53E-07	2.92E-07	1.10E-07	6.87E-08	8.86E-08	9.31E-08	1.35E-07	9.16E-08	7.79E-08
Nitrobenzene	1.71E-06	1.35E-06	1.85E-07	7.28E-08	9.44E-08	1.73E-07	1.35E-07	2.58E-07	9.74E-08	6.07E-08	7.82E-08	8.23E-08	1.20E-07	8.09E-08	6.88E-08
Pentachloronitrobenzene	1.10E-03	8.66E-04	1.19E-04	4.67E-05	6.06E-05	1.11E-04	8.66E-05	1.66E-04	6.25E-05	3.90E-05	5.02E-05	5.28E-05	7.68E-05	5.19E-05	4.41E-05
2,4,6-Trinitrotoluene	1.00E-06	7.89E-07	1.08E-07	4.26E-08	5.53E-08	1.01E-07	7.90E-08	1.51E-07	5.70E-08	3.55E-08	4.58E-08	4.82E-08	7.00E-08	4.74E-08	4.03E-08
Phthalate Esters															
bis(2-Ethylhexyl)phthalate	4.03E-03	3.18E-03	4.36E-04	1.72E-04	2.23E-04	4.07E-04	3.18E-04	6.08E-04	2.30E-04	1.43E-04	1.84E-04	1.94E-04	2.82E-04	1.91E-04	1.62E-04
Di-n-butyl phthalate	1.32E-03	1.04E-03	1.43E-04	5.62E-05	7.29E-05	1.33E-04	1.04E-04	1.99E-04	7.51E-05	4.68E-05	6.04E-05	6.35E-05	9.23E-05	6.24E-05	5.31E-05
Diethyl phthalate	6.87E-04	5.42E-04	7.43E-05	2.93E-05	3.79E-05	6.93E-05	5.42E-05	1.04E-04	3.91E-05	2.44E-05	3.14E-05	3.31E-05	4.81E-05	3.25E-05	2.76E-05
Di-n-octylphthalate	5.37E+01	4.24E+01	5.80E+00	2.29E+00	2.97E+00	5.42E+00	4.24E+00	8.10E+00	3.06E+00	1.91E+00	2.46E+00	2.58E+00	3.76E+00	2.54E+00	2.16E+00
Volatile Organic Compounds															
Acetone	1.51E-08	1.19E-08	1.63E-09	6.43E-10	8.33E-10	1.52E-09	1.19E-09	2.28E-09	8.59E-10	5.35E-10	6.90E-10	7.26E-10	1.05E-09	7.14E-10	6.07E-10
Acrylonitrile	4.47E-08	3.53E-08	4.84E-09	1.91E-09	2.47E-09	4.52E-09	3.53E-09	6.75E-09	2.55E-09	1.59E-09	2.05E-09	2.15E-09	3.13E-09	2.12E-09	1.80E-09
Bromoform	5.63E-06	4.50E-06	6.17E-07	2.43E-07	3.15E-07	5.68E-07	4.45E-07	8.50E-07	3.21E-07	2.03E-07	2.61E-07	2.75E-07	3.94E-07	2.70E-07	2.30E-07
Chloroform (Trichloromethane)	2.24E-06	1.76E-06	2.42E-07	9.53E-08	1.24E-07	2.26E-07	1.77E-07	3.38E-07	1.27E-07	7.94E-08	1.02E-07	1.08E-07	1.56E-07	1.06E-07	9.00E-08
Crotonaldehyde	2.51E-08	2.01E-08	2.75E-09	1.09E-09	1.41E-09	2.54E-09	1.98E-09	3.79E-09	1.43E-09	9.04E-10	1.17E-09	1.23E-09	1.76E-09	1.21E-09	1.02E-09
1,4-Dioxane	1.36E-08	1.07E-08	1.47E-09	5.78E-10	7.50E-10	1.37E-09	1.07E-09	2.05E-09	7.73E-10	4.82E-10	6.21E-10	6.53E-10	9.49E-10	6.43E-10	5.46E-10
Ethylbenzene	3.33E-05	2.63E-05	3.60E-06	1.42E-06	1.84E-06	3.36E-06	2.63E-06	5.03E-06	1.90E-06	1.18E-06	1.53E-06	1.60E-06	2.33E-06	1.58E-06	1.34E-06
Formaldehyde	5.53E-08	4.36E-08	5.98E-09	2.36E-09	3.05E-09	5.58E-09	4.37E-09	8.34E-09	3.15E-09	1.96E-09	2.53E-09	2.66E-09	3.87E-09	2.62E-09	2.23E-09
n-Hexane	2.00E-04	1.60E-04	2.19E-05	8.62E-06	1.12E-05	2.02E-05	1.58E-05	3.01E-05	1.14E-05	7.18E-06	9.26E-06	9.74E-06	1.40E-05	9.58E-06	8.14E-06
1,1,2,2-Tetrachloroethane	1.11E-03	8.73E-04	1.20E-04	4.71E-05	6.11E-05	1.12E-04	8.73E-05	1.67E-04	6.30E-05	3.93E-05	5.06E-05	5.32E-05	7.74E-05	5.24E-05	4.45E-05
Vinyl Chloride (Chloroethene, 1-)	3.52E-07	2.78E-07	3.80E-08	1.50E-08	1.94E-08	3.55E-08	2.78E-08	5.31E-08	2.00E-08	1.25E-08	1.61E-08	1.69E-08	2.46E-08	1.67E-08	1.42E-08
Semi-volatile Organic Compounds															
Benzoic acid	1.91E-06	1.51E-06	2.06E-07	8.14E-08	1.05E-07	1.93E-07	1.51E-07	2.88E-07	1.09E-07	6.78E-08	8.74E-08	9.19E-08	1.34E-07	9.04E-08	7.69E-08
Benzyl alcohol	3.16E-07	2.53E-07	3.47E-08	1.37E-08	1.77E-08	3.20E-08	2.50E-08	4.78E-08	1.80E-08	1.14E-08	1.47E-08	1.54E-08	2.22E-08	1.52E-08	1.29E-08
Inorganics															
Aluminum	2.51E-08	2.01E-08	2.75E-09	1.09E-09	1.41E-09	2.54E-09	1.98E-09	3.79E-09	1.43E-09	9.04E-10	1.17E-09	1.23E-09	1.76E-09	1.21E-09	1.02E-09
Antimony	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	7.90E-05	1.51E-04	5.70E-05	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00
Arsenic	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	1.58E-04	3.02E-04	1.14E-04	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00
Barium	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-05	1.19E-05	2.27E-05	8.55E-06	0.00E+00	0.00E+00	0.00E+00	1.05E-05	0.00E+00	0.00E+00
Beryllium	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	7.90E-05	1.51E-04	5.70E-05	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00
Boron	2.51E-08	2.01E-08	2.75E-09	1.09E-09	1.41E-09	2.54E-09	1.98E-09	3.79E-09	1.43E-09	9.04E-10	1.17E-09	1.23E-09	1.76E-09	1.21E-09	1.02E-09
Cadmium	1.20E-04	1.06E-01	1.46E-02	5.74E-03	7.44E-03	1.21E-05	9.48E-06	1.81E-05	6.84E-06	4.78E-03	6.16E-03	6.48E-03	8.40E-06	6.38E-03	5.42E-03
Chromium	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	4.35E-04	8.31E-04	3.14E-04	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00
Chromium (total)	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-04	4.35E-04	8.31E-04	3.14E-04	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00
Copper	2.51E-08	2.01E-08	2.75E-09	1.09E-09	1.41E-09	2.54E-09	1.98E-09	3.79E-09	1.43E-09	9.04E-10	1.17E-09	1.23E-09	1.76E-09	1.21E-09	1.02E-09
Cyanide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-05	2.37E-05	4.53E-05	1.71E-05	0.00E+00	0.00E+00	0.00E+00	2.10E-05	0.00E+00	0.00E+00
Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl mercury	7.80E-04	3.58E-03	4.90E-04	1.93E-04	2.50E-04	7.88E-05	6.16E-05	1.18E-04	4.45E-05	1.61E-04	2.07E-04	2.18E-04	5.46E-05	2.15E-04	1.82E-04
Nickel	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.06E-04	4.74E-04	9.06E-04	3.42E-04	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00
Selenium	2.27E-03	1.13E+00	1.54E-01	6.08E-02	7.88E-02	2.29E-04	1.79E-04	3.42E-04	1.29E-04	5.07E-02	6.53E-02	6.87E-02	1.59E-04	6.76E-02	5.74E-02
Silver	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	2.37E-04	4.53E-04	1.71E-04	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00
Thallium (I)	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	3.16E-03	6.04E-03	2.28E-03	0.00E+00	0.00E+00	0.00E+00	2.80E-03	0.00E+00	0.00E+00
Zinc	9.00E-05	8.75E-03	1.20E-03	4.73E-04	6.13E-04	9.09E-06	7.11E-06	1.36E-05	5.13E-06	3.94E-04	5.08E-04	5.34E-04	6.30E-06	5.25E-04	4.46E-04
Other Compounds															
GB (Sarin)	3.77E-09	3.01E-09	4.13E-10	1.63E-10	2.11E-10	3.81E-10	2.98E-10	5.69E-10	2.15E-10	1.36E-10	1.75E-10	1.84E-10	2.64E-10	1.81E-10	1.54E-10
HD	2.51E-08	2.01E-08	2.75E-09	1.09E-09	1.41E-09	2.54E-09	1.98E-09	3.79E-09	1.43E-09	9.04E-10	1.17E-09	1.23E-09	1.76E-09	1.21E-09	1.02E-09

Table D-2b

Bioconcentration Factors for Media to Wildlife Measurement Receptors

Habitat Specific Measurement Receptor	Biotransfer Factors (Ba)		American Robin (M, SS)	Blue Grouse (M)	Chukar (M)	Common Muskrat (A)	Coyote (A, M, SS)	Deer Mouse (M, SS)	Elk (M)	Great Blue Heron (A)	Mallard (A)	Northern Pintail (A)	Pronghorn Antelope (SS)	Red-tailed Hawk (A, M, SS)	Sage grouse (SS)
Bioconcentration Factors for Soil or Sediment															
COPC	Ba_{beef} (day/kg FW)	$Ba_{chicken}$ (day/kg FW)	BCF_{S-OB}	BCF_{S-HB}	BCF_{S-OB}	BCF_{S-OM}	BCF_{S-CM}	BCF_{S-OM}	BCF_{S-HM}	BCF_{S-PB}	BCF_{S-OB}	BCF_{S-HB}	BCF_{S-HM}	BCF_{S-CB}	BCF_{S-HB}
Dioxins and Furans															
2,3,7,8-TCDD	5.43E-02	1.51E+02	3.22E+00	7.40E-01	1.06E+00	1.05E-04	2.01E-05	2.20E-04	2.12E-05	1.18E-01	2.87E-01	1.81E-01	9.77E-05	1.18E-01	6.95E-01
1,2,3,7,8-PeCDD	5.43E-02	1.14E+02	2.43E+00	5.59E-01	7.98E-01	1.05E-04	2.01E-05	2.20E-04	2.12E-05	8.89E-02	2.17E-01	1.37E-01	9.77E-05	8.89E-02	5.24E-01
1,2,3,4,7,8-HxCDD	3.26E-02	8.32E+01	1.77E+00	4.08E-01	5.82E-01	6.29E-05	1.21E-05	1.32E-04	1.27E-05	6.49E-02	1.58E-01	9.98E-02	5.86E-05	6.49E-02	3.83E-01
1,2,3,6,7,8-HxCDD	2.71E-02	5.32E+01	1.13E+00	2.61E-01	3.72E-01	5.24E-05	1.00E-05	1.10E-04	1.06E-05	4.15E-02	1.01E-01	6.38E-02	4.89E-05	4.15E-02	2.45E-01
1,2,3,7,8,9-HxCDD	2.71E-02	2.86E+01	6.09E-01	1.40E-01	2.00E-01	5.24E-05	1.00E-05	1.10E-04	1.06E-05	2.23E-02	5.43E-02	3.43E-02	4.89E-05	2.23E-02	1.32E-01
1,2,3,4,6,7,8-HpCDD	5.43E-03	1.77E+01	3.77E-01	8.67E-02	1.24E-01	1.05E-05	2.01E-06	2.20E-05	2.12E-06	1.38E-02	3.36E-02	2.12E-02	9.77E-06	1.38E-02	8.14E-02
OCDD	5.43E-03	2.27E+00	4.84E-02	1.11E-02	1.59E-02	1.05E-05	2.01E-06	2.20E-05	2.12E-06	1.77E-03	4.31E-03	2.72E-03	9.77E-06	1.77E-03	1.04E-02
2,3,7,8-TCDF	1.63E-02	1.16E+02	2.47E+00	5.68E-01	8.12E-01	3.14E-05	6.03E-06	6.60E-05	6.35E-06	9.05E-02	2.20E-01	1.39E-01	2.93E-05	9.05E-02	5.34E-01
1,2,3,7,8-PeCDF	1.09E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-05	4.02E-06	4.40E-05	4.23E-06	0.00E+00	0.00E+00	0.00E+00	1.95E-05	0.00E+00	0.00E+00
2,3,4,7,8-PeCDF	4.89E-02	1.49E+02	3.17E+00	7.30E-01	1.04E+00	9.43E-05	1.81E-05	1.98E-04	1.91E-05	1.16E-01	2.83E-01	1.79E-01	8.79E-05	1.16E-01	6.85E-01
1,2,3,4,7,8-HxCDF	3.80E-02	7.18E+01	1.53E+00	3.52E-01	5.03E-01	7.33E-05	1.41E-05	1.54E-04	1.48E-05	5.60E-02	1.36E-01	8.62E-02	6.84E-05	5.60E-02	3.30E-01
1,2,3,6,7,8-HxCDF	3.26E-02	7.36E+01	1.57E+00	3.61E-01	5.15E-01	6.29E-05	1.21E-05	1.32E-04	1.27E-05	5.74E-02	1.40E-01	8.83E-02	5.86E-05	5.74E-02	3.39E-01
2,3,4,6,7,8-HxCDF	3.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	1.21E-05	1.32E-04	1.27E-05	0.00E+00	0.00E+00	0.00E+00	5.86E-05	0.00E+00	0.00E+00
1,2,3,7,8,9-HxCDF	2.71E-02	3.59E+01	7.65E-01	1.76E-01	2.51E-01	5.24E-05	1.00E-05	1.10E-04	1.06E-05	2.80E-02	6.82E-02	4.31E-02	4.89E-05	2.80E-02	1.65E-01
1,2,3,4,6,7,8-HpCDF	5.43E-03	1.45E+01	3.09E-01	7.11E-02	1.02E-01	1.05E-05	2.01E-06	2.20E-05	2.12E-06	1.13E-02	2.76E-02	1.74E-02	9.77E-06	1.13E-02	6.67E-02
1,2,3,4,7,8,9-HpCDF	1.63E-02	2.18E+01	4.64E-01	1.07E-01	1.53E-01	3.14E-05	6.03E-06	6.60E-05	6.35E-06	1.70E-02	4.14E-02	2.62E-02	2.93E-05	1.70E-02	1.00E-01
OCDF	5.43E-03	9.09E-01	1.94E-02	4.45E-03	6.36E-03	1.05E-05	2.01E-06	2.20E-05	2.12E-06	7.09E-04	1.73E-03	1.09E-03	9.77E-06	7.09E-04	4.18E-03
Polycyclic Aromatic Hydrocarbons															
Benzo(a)pyrene	3.38E-02	2.67E-02	5.69E-04	1.31E-04	1.87E-04	6.53E-05	1.25E-05	1.37E-04	1.32E-05	2.08E-05	5.07E-05	3.20E-05	6.09E-05	2.08E-05	1.23E-04
Benzo(a)anthracene	1.20E-02	9.46E-03	2.01E-04	4.64E-05	6.62E-05	2.31E-05	4.43E-06	4.85E-05	4.67E-06	7.38E-06	1.80E-05	1.14E-05	2.16E-05	7.38E-06	4.35E-05
Benzo(b)fluoranthene	4.00E-02	3.16E-02	6.73E-04	1.55E-04	2.21E-04	7.72E-05	1.48E-05	1.62E-04	1.56E-05	2.46E-05	6.00E-05	3.79E-05	7.20E-05	2.46E-05	1.45E-04
Benzo(k)fluoranthene	3.98E-02	3.14E-02	6.69E-04	1.54E-04	2.20E-04	7.68E-05	1.47E-05	1.61E-04	1.55E-05	2.45E-05	5.97E-05	3.77E-05	7.17E-05	2.45E-05	1.45E-04
Chrysene	1.38E-02	1.09E-02	2.32E-04	5.33E-05	7.61E-05	2.66E-05	5.10E-06	5.58E-05	5.37E-06	8.48E-06	2.07E-05	1.30E-05	2.48E-05	8.48E-06	5.00E-05
Dibenz(a,h)anthracene	8.86E-02	7.00E-02	1.49E-03	3.43E-04	4.90E-04	1.71E-04	3.28E-05	3.59E-04	3.46E-05	5.46E-05	1.33E-04	8.39E-05	1.59E-04	5.46E-05	3.22E-04
Indeno(1,2,3-cd) pyrene	2.07E-01	1.63E-01	3.47E-03	7.99E-04	1.14E-03	3.99E-04	7.64E-05	8.37E-04	8.06E-05	1.27E-04	3.10E-04	1.96E-04	3.72E-04	1.27E-04	7.50E-04
Polychlorinated Biphenyls															
Aroclor 1016	6.37E-03	5.03E-03	1.07E-04	2.46E-05	3.52E-05	1.23E-05	2.36E-06	2.58E-05	2.48E-06	3.92E-06	9.55E-06	6.03E-06	1.15E-05	3.92E-06	2.31E-05
Aroclor 1254	4.05E-02	3.19E-02	6.81E-04	1.57E-04	2.24E-04	7.81E-05	1.50E-05	1.64E-04	1.58E-05	2.49E-05	6.07E-05	3.83E-05	7.28E-05	2.49E-05	1.47E-04
Nitroaromatics															
1,3-Dinitrobenzene	7.79E-07	6.23E-07	1.33E-08	3.05E-09	4.36E-09	1.50E-09	2.88E-10	3.15E-09	3.04E-10	4.86E-10	1.18E-09	7.48E-10	1.40E-09	4.86E-10	2.87E-09
2,4-Dinitrotoluene	2.49E-06	1.96E-06	4.18E-08	9.62E-09	1.37E-08	4.80E-09	9.20E-10	1.01E-08	9.70E-10	1.53E-09	3.73E-09	2.36E-09	4.48E-09	1.53E-09	9.03E-09
2,6-Dinitrotoluene	1.93E-06	1.53E-06	3.25E-08	7.48E-09	1.07E-08	3.73E-09	7.16E-10	7.83E-09	7.54E-10	1.19E-09	2.90E-09	1.83E-09	3.48E-09	1.19E-09	7.02E-09
Nitrobenzene	1.71E-06	1.35E-06	2.87E-08	6.61E-09	9.44E-09	3.30E-09	6.32E-10	6.92E-09	6.66E-10	1.05E-09	2.56E-09	1.62E-09	3.07E-09	1.05E-09	6.20E-09
Pentachloronitrobenzene	1.10E-03	8.66E-04	1.84E-05	4.24E-06	6.06E-06	2.12E-06	4.06E-07	4.44E-06	4.28E-07	6.75E-07	1.64E-06	1.04E-06	1.97E-06	6.75E-07	3.98E-06
2,4,6-Trinitrotoluene	1.00E-06	7.89E-07	1.68E-08	3.87E-09	5.53E-09	1.93E-09	3.70E-10	4.05E-09	3.90E-10	6.16E-10	1.50E-09	9.47E-10	1.80E-09	6.16E-10	3.63E-09
Phthalate Esters															
bis(2-Ethylhexyl)phthalate	4.03E-03	3.18E-03	6.77E-05	1.56E-05	2.23E-05	7.77E-06	1.49E-06	1.63E-05	1.57E-06	2.48E-06	6.04E-06	3.82E-06	7.25E-06	2.48E-06	1.46E-05
Di-n-butyl phthalate	1.32E-03	1.04E-03	2.22E-05	5.10E-06	7.29E-06	2.54E-06	4.88E-07	5.34E-06	5.14E-07	8.12E-07	1.98E-06	1.25E-06	2.37E-06	8.12E-07	4.79E-06
Diethyl phthalate	6.87E-04	5.42E-04	1.15E-05	2.66E-06	3.79E-06	1.33E-06	2.54E-07	2.78E-06	2.68E-07	4.23E-07	1.03E-06	6.50E-07	1.24E-06	4.23E-07	2.49E-06
Di-n-octylphthalate	5.37E+01	4.24E+01	9.03E-01	2.08E-01	2.97E-01	1.04E-01	1.99E-02	2.17E-01	2.09E-02	3.31E-02	8.05E-02	5.08E-02	9.66E-02	3.31E-02	1.95E-01
Volatile Organic Compounds															
Acetone	1.51E-08	1.19E-08	2.53E-10	5.83E-11	8.33E-11	2.91E-11	5.58E-12	6.10E-11	5.88E-12	9.28E-12	2.26E-11	1.43E-11	2.71E-11	9.28E-12	5.47E-11
Acrylonitrile	4.47E-08	3.53E-08	7.52E-10	1.73E-10	2.47E-10	8.63E-11	1.65E-11	1.81E-10	1.74E-11	2.75E-11	6.71E-11	4.24E-11	8.05E-11	2.75E-11	1.62E-10
Bromoform	5.63E-06	4.50E-06	9.59E-08	2.21E-08	3.15E-08	1.09E-08	2.08E-09	2.28E-08	2.19E-09	3.51E-09	8.55E-09	5.40E-09	1.01E-08	3.51E-09	2.07E-08
Chloroform (Trichloromethane)	2.24E-06	1.76E-06	3.76E-08	8.65E-09	1.24E-08	4.31E-09	8.27E-10	9.05E-09	8.72E-10	1.38E-09	3.35E-09	2.12E-09	4.02E-09	1.38E-09	8.12E-09
Crotonaldehyde	2.51E-08	2.01E-08	4.28E-10	9.85E-11	1.41E-10	4.85E-11	9.29E-12	1.02E-10	9.80E-12	1.57E-11	3.82E-11	2.41E-11	4.52E-11	1.57E-11	9.24E-11
1,4-Dioxane	1.36E-08	1.07E-08	2.28E-10	5.25E-11	7.50E-11	2.62E-11	5.02E-12	5.49E-11	5.29E-12	8.35E-12	2.03E-11	1.29E-11	2.44E-11	8.35E-12	4.93E-11
Ethylbenzene	3.33E-05	2.63E-05	5.60E-07	1.29E-07	1.84E-07	6.43E-08	1.23E-08	1.35E-07	1.30E-08	2.05E-08	5.00E-08	3.16E-08	6.00E-08	2.05E-08	1.21E-07
Formaldehyde	5.53E-08	4.36E-08	9.29E-10	2.14E-10	3.05E-10	1.07E-10	2.04E-11	2.24E-10	2.16E-11	3.40E-11	8.29E-11	5.24E-11	9.95E-11	3.40E-11	2.01E-10
n-Hexane	2.00E-04	1.60E-04	3.40E-06	7.82E-07	1.12E-06	3.85E-07	7.38E-08	8.08E-07	7.78E-08	1.25E-07	3.03E-07	1.92E-07	3.59E-07	1.25E-07	7.34E-07
1,1,2,2-Tetrachloroethane	1.11E-03	8.73E-04	1.86E-05	4.28E-06	6.11E-06	2.13E-06	4.09E-07	4.48E-06	4.31E-07	6.81E-07	1.66E-06	1.05E-06	1.99E-06	6.81E-07	4.01E-06
Vinyl Chloride (Chloroethene, 1-)	3.52E-07	2.78E-07	5.91E-09	1.36E-09	1.94E-09	6.79E-10	1.30E-10	1.42E-09	1.37E-10	2.17E-10	5.27E-10	3.33E-10	6.33E-10	2.17E-10	1.28E-09
Semi-volatile Organic Compounds															
Benzoic acid	1.91E-06	1.51E-06	3.21E-08	7.38E-09	1.05E-08	3.68E-09	7.06E-10	7.73E-09	7.45E-10	1.18E-09	2.86E-09	1.81E-09	3.44E-09	1.18E-09	6.93E-09
Benzyl alcohol	3.16E-07	2.53E-07	5.39E-09	1.24E-09	1.77E-09	6.11E-10	1.17E-10	1.28E-09	1.23E-10	1.97E-10	4.81E-10	3.04E-10	5.70E-10	1.97E-10	1.16E-09
Inorganics															
Aluminum	2.51E-08	2.01E-08	4.28E-10	9.85E-11	1.41E-10	4.85E-11	9.29E-12	1.02E-10	9.80E-12	1.57E-11	3.82E-11	2.41E-11	4.52E-11	1.57E-11	9.24E-11
Antimony	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-06	3.70E-07	4.05E-06	3.90E-07	0.00E+00	0.00E+00	0.00E+00	1.80E-06	0.00E+00	0.00E+00
Arsenic	2.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.86E-06	7.40E-07	8.10E-06	7.80E-07	0.00E+00	0.00E+00	0.00E+00	3.60E-06	0.00E+00	0.00E+00
Barium	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-07	5.55E-08	6.08E-07	5.85E-08	0.00E+00	0.00E+00	0.00E+00	2.70E-07	0.00E+00	0.00E+00
Beryllium	1.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-06	3.70E-07	4.05E-06	3.90E-07	0.00E+00	0.00E+00	0.00E+00	1.80E-06	0.00E+00	0.00E+00
Boron	2.51E-08	2.01E-08	4.28E-10	9.85E-11	1.41E-10	4.85E-11	9.29E-12	1.02E-10	9.80E-12	1.57E-11	3.82E-11	2.41E-11	4.52E-11	1.57E-11	9.24E-11
Cadmium	1.20E-04	1.06E-01	2.26E-03	5.21E-04	7.44E-04	2.32E-07	4.44E-08	4.86E-07	4.68E-08	8.29E-05	2.02E-04	1.28E-04	2.16E-07	8.29E-05	4.89E-04
Chromium	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	2.04E-06	2.23E-05	2.15E-06	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00
Chromium (total)	5.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	2.04E-06	2.23E-05	2.15E-06	0.00E+00	0.00E+00	0.00E+00	9.90E-06	0.00E+00	0.00E+00
Copper	2.51E-08	2.01E-08	4.28E-10	9.85E-11	1.41E-10	4.85E-11	9.29E-12	1.02E-10	9.80E-12	1.57E-11	3.82E-11	2.41E-11	4.52E-11	1.57E-11	9.24E-11
Cyanide	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Lead	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-07	1.11E-07	1.22E-06	1.17E-07	0.00E+00	0.00E+00	0.00E+00	5.40E-07	0.00E+00	0.00E+00
Mercury	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Methyl mercury	7.80E-04	3.58E-03	7.61E-05	1.75E-05	2.50E-05	1.51E-06	2.89E-07	3.16E-06	3.04E-07	2.79E-06	6.79E-06	4.29E-06	1.40E-06	2.79E-06	1.64E-05
Nickel	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	2.22E-06	2.43E-05	2.34E-06	0.00E+00	0.00E+00	0.00E+00	1.08E-05	0.00E+00	0.00E+00
Selenium	2.27E-03	1.13E+00	2.40E-02	5.52E-03	7.88E-03	4.37E-06	8.38E-07	9.17E-06	8.83E-07	8.78E-04	2.14E-03	1.35E-03	4.08E-06	8.78E-04	5.18E-03
Silver	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.79E-06	1.11E-06	1.22E-05	1.17E-06	0.00E+00	0.00E+00	0.00E+00	5.40E-06	0.00E+00	0.00E+00
Thallium (I)	4.00E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-05	1.48E-05	1.62E-04	1.56E-05	0.00E+00	0.00E+00	0.00E+00	7.20E-05	0.00E+00	0.00E+00
Zinc	9.00E-05	8.75E-03	1.86E-04	4.29E-05	6.13E-05	1.74E-07	3.33E-08	3.65E-07	3.51E-08	6.83E-06	1.66E-05	1.05E-05	1.62E-07	6.83E-06	4.03E-05
Other Compounds															
GB (Sarin)	3.77E-09	3.01E-09	6.42E-11	1.48E-11	2.11E-11	7.27E-12	1.39E-12	1.53E-11	1.47E-12	2.35E-12	5.73E-12	3.62E-12	6.78E-12	2.35E-12	1.39E-11

Table D-2b

Bioconcentration Factors for Media to Wildlife Measurement Receptors

Habitat Specific Measurement Receptor	Biotransfer Factors (Ba)		American Robin (M, SS)	Blue Grouse (M)	Chukar (M)	Common Muskrat (A)	Coyote (A, M, SS)	Deer Mouse (M, SS)	Elk (M)	Great Blue Heron (A)	Mallard (A)	Northern Pintail (A)	Pronghorn Antelope (SS)	Red-tailed Hawk (A, M, SS)	Sage grouse (SS)
Bioconcentration Factors for Soil or Sediment															
COPC	**Ba_{beef} (day/kg FW)**	**$Ba_{chicken}$ (day/kg FW)**	**BCF_{S-OB}**	**BCF_{S-HB}**	**BCF_{S-OB}**	**BCF_{S-OM}**	**BCF_{S-CM}**	**BCF_{S-OM}**	**BCF_{S-HM}**	**BCF_{S-PB}**	**BCF_{S-OB}**	**BCF_{S-HB}**	**BCF_{S-HM}**	**BCF_{S-CB}**	**BCF_{S-HB}**
HD	2.51E-08	2.01E-08	4.28E-10	9.85E-11	1.41E-10	4.85E-11	9.29E-12	1.02E-10	9.80E-12	1.57E-11	3.82E-11	2.41E-11	4.52E-11	1.57E-11	9.24E-11
VX	5.25E-08	4.20E-08	8.95E-10	2.06E-10	2.94E-10	1.01E-10	1.94E-11	2.13E-10	2.05E-11	3.28E-11	7.98E-11	5.04E-11	9.45E-11	3.28E-11	1.93E-10
Cyclotrimethylenetrinitramine	1.86E-07	1.49E-07	3.17E-09	7.30E-10	1.04E-09	3.59E-10	6.89E-11	7.54E-10	7.26E-11	1.16E-10	2.83E-10	1.79E-10	3.35E-10	1.16E-10	6.85E-10
Decane	9.77E-03	7.82E-03	1.67E-04	3.83E-05	5.47E-05	1.89E-05	3.62E-06	3.96E-05	3.81E-06	6.10E-06	1.49E-05	9.38E-06	1.76E-05	6.10E-06	3.60E-05

Notes:

A	Aquatic food web
AL	Algae
AV	Aquatic vegetation
HB	Herbivorous bird
HM	Herbivorous mammal
M	Montane food web
NA	Not available
OB	Omnivorous bird
OM	Omnivorous mammal
S	Soil or Sediment
SS	Shrub/scrub food web
TP	Terrestrial plant

Table D-2a

Bioconcentration Factors for Media to Wildlife Measurement Receptors

Habitat Specific Measurement Receptor	Biotransfer Factors (Ba)		American Robin (M, SS)	Blue Grouse (M)	Chukar (M)	Common Muskrat (A)	Coyote (A, M, SS)	Deer Mouse (M, SS)	Elk (M)	Great Blue Heron (A)	Mallard (A)	Northern Pintail (A)	Pronghorn Antelope (SS)	Red-tailed Hawk (A, M, SS)	Sage grouse (SS)
Bioconcentration Factors for Water															
COPC	Ba_{beef} (day/kg FW)	$Ba_{chicken}$ (day/kg FW)	BCF_{W-OB}	BCF_{W-HB}	BCF_{W-OB}	BCF_{W-OM}	BCF_{W-CM}	BCF_{W-OM}	BCF_{W-HM}	BCF_{W-PB}	BCF_{W-OB}	BCF_{W-HB}	BCF_{W-HM}	BCF_{W-CB}	BCF_{W-HB}
VX	5.25E-08	4.20E-08	5.75E-09	2.27E-09	2.94E-09	5.30E-09	4.15E-09	7.93E-09	2.99E-09	1.89E-09	2.44E-09	2.56E-09	3.67E-09	2.52E-09	2.14E-09
Cyclotrimethylenetrinitramine	1.86E-07	1.49E-07	2.04E-08	8.04E-09	1.04E-08	1.88E-08	1.47E-08	2.81E-08	1.06E-08	6.70E-09	8.64E-09	9.08E-09	1.30E-08	8.93E-09	7.59E-09
Decane	9.77E-03	7.82E-03	1.07E-03	4.22E-04	5.47E-02	9.87E-04	7.72E-04	1.48E-03	5.57E-04	3.52E-04	4.53E-04	4.77E-04	6.84E-04	4.69E-04	3.99E-03

Notes:

A	Aquatic food web
AL	Algae
AV	Aquatic vegetation
HB	Herbivorous bird
HM	Herbivorous mammal
M	Montane food web
NA	Not available
OB	Omnivorous bird
OM	Omnivorous mammal
PB	Piscivorous Bird
SS	Shrub/scrub food web
TP	Terrestrial plant
W	Water