Table B-2. 0.001 mpyr

Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
At217	1.02E-09	0.006	NA	NA	15	5.12E-17	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
C 14	5.73E+03	1.296	2.03E+01	NA	2000	4.61E-14	5.80E+03	1.95E-03	1.04E+04	NA	1.03E+06	1.04E-08	5.00E-07	3.35E-06
H 3	1.24E+01	0.000	6.20E+02	NA	20000	4.96E-08	7.37E+01	1.00E-11	6.20E+13	NA	2.00E+15	6.20E+01	5.00E-07	3.35E-06
I129	1.57E+07	0.006	2.12E-01	NA	1	1.30E-09	4.18E+03	6.68E-03	3.18E+01	NA	1.50E+02	3.18E-11	5.00E-07	3.35E-06
I131	2.20E-02	0.006	6.91E-01	NA	3	0.00E+00	1.46E+01	3.75E-215	1.84E+214	NA	7.99E+214	1.84E+202	5.00E-07	3.35E-06
Kr81	2.10E+05	0.000	NA	NA	15	5.30E-18	3.76E+03	7.94E-03	NA	NA	1.89E+03	NA	NA	NA
Kr85	1.07E+01	0.000	NA	NA	15	1.16E-06	6.57E+01	5.40E-12	NA	NA	2.78E+12	NA	NA	NA
Rn218	1.11E-09	0.000	NA	NA	15	1.26E-125	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Rn219	1.26E-07	0.000	NA	NA	15	2.03E-14	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Rn220	1.76E-06	0.000	NA	NA	15	5.53E-13	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Rn222	1.05E-02	0.000	NA	NA	15	6.21E-15	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Tc 98	4.20E+06	0.058	4.43E+00	NA	NA	1.77E-16	6.84E+03	4.17E-03	1.06E+03	NA	NA	1.06E-09	5.00E-07	3.35E-06
Tc 99	2.13E+05	0.058	1.14E+01	NA	900	5.76E-09	6.76E+03	4.08E-03	2.80E+03	NA	2.21E+05	2.80E-09	5.00E-07	3.35E-06
Xe127	9.97E-02	0.000	NA	NA	15	1.58E-81	1.20E+01	1.29E-52	NA	NA	1.17E+53	NA	NA	NA
Xe129m	2.19E-02	0.000	NA	NA	15	0.00E+00	1.20E+01	1.85E-181	NA	NA	8.09E+181	NA	NA	NA
Xe131m	3.26E-02	0.000	NA	NA	15	2.69E-121	1.20E+01	2.44E-127	NA	NA	6.14E+127	NA	NA	NA
Xe133	1.44E-02	0.000	NA	NA	15	0.00E+00	1.20E+01	5.87E-268	NA	NA	2.56E+268	NA	NA	NA
1,1,1-Trichloroethane	3.0E+00	0.043	NA	4.80E-03	2.00E-01	1.57E-02	34	5.56E-16	NA	8.63E+12	3.60E+14	NA	NA	NA
1,1,2,2-Tetrachloroethane	1.5E-01	0.025	1.7E-04	NA	NA	4.95E-05	15	8.62E-45	2.00E+40	NA	NA	2.00E+40	5.00E-07	3.35E-06
1,1,2-Trichloroethane	8.6E+01	0.024	6.2E-04	NA	5.00E-03	2.42E-04	824	3.03E-08	2.06E+04	NA	1.65E+05	2.06E+04	5.00E-07	3.35E-06
1,1-Dichloroethane	2.8E-01	0.017	NA	7.33E-03	NA	2.34E-03	15	1.23E-31	NA	5.97E+28	NA	NA	NA	NA
1,1-Dichloroethene	2.7E-01	0.021	1.4E-04	NA	7.00E-03	1.48E-03	15	9.77E-33	1.44E+28	NA	7.16E+29	1.44E+28	5.00E-07	3.35E-06
1,2,4-Trichlorobenzene	5.8E-01	0.533	NA	1.61E-03	7.00E-02	1.14E-02	30	9.50E-32	NA	1.69E+28	7.37E+29	NA	NA	NA
1,2-Dichlorobenzene	1.1E-02	0.122	NA	3.32E-03	6.00E-01	1.14E-02	No Arrival	0.00E+00	NA	No Limit	No Limit	NA	NA	NA
1,2-Dichloroethane	6.4E-01	0.012	NA	9.19E-05	5.00E-03	5.38E-06	15	3.87E-23	NA	2.38E+18	1.29E+20	NA	NA	NA
1,2-Dichloroethene (total)	1.1E+00	0.011	NA	5.50E-04	7.00E-02	3.24E-04	18	4.70E-20	NA	1.17E+16	1.49E+18	NA	NA	NA
1,3-Dichlorobenzene	5.8E-01	0.122	NA	4.84E-05	NA	1.14E-02	30	9.50E-32	NA	5.09E+26	NA	NA	NA	NA
1,4-Dichlorobenzene	5.8E-01	0.198	1.5E-03	NA	7.50E-02	4.50E-01	30	9.50E-32	1.62E+28	NA	7.89E+29	1.62E+28	5.00E-07	3.35E-06
1,4-Dioxane	2.8E-01	0.004	1.9E-02	NA	NA	1.88E-05	12	5.01E-29	3.81E+26	NA	NA	3.81E+26	5.00E-07	3.35E-06
2,4,5-Trichlorophenol	9.8E-01	0.514	NA	2.99E-02	NA	4.46E-02	30	2.09E-25	NA	1.43E+23	NA	NA	NA	NA
2,4,6-Trichlorophenol	2.5E+00	0.122	1.7E-02	NA	NA	1.83E-02	30	8.30E-20	2.11E+17	NA	NA	2.11E+17	5.00E-07	3.35E-06
2,4-Dichlorophenol	1.3E-01	0.122	NA	9.53E-04	NA	2.16E-02	30	8.62E-83	NA	1.11E+79	NA	NA	NA	NA
2,4-Dimethylphenol	2.2E-02	0.067	NA	6.45E-03	NA	1.83E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
2,4-Dinitrophenol	2.8E-02	0.000	NA	6.60E-04	NA	5.09E-02	12	1.77E-146	NA	3.74E+142	NA	NA	NA	NA
2,4-Dinitrotoluene	5.0E-01	0.031	NA	6.58E-04	NA	1.14E-02	15	5.63E-25	NA	1.17E+21	NA	NA	NA	NA
2,6-Dinitrotoluene	5.0E-01	0.022	NA	3.30E-04	NA	2.07E-02	15	5.63E-25	NA	5.85E+20	NA	NA	NA	NA
2-Butanone	NA	0.001	NA	1.73E-02	NA	2.47E-02	3772	8.04E-03	NA	2.15E+00	NA	NA	NA	NA
2-Chloronaphthalene	1.9E-01	0.498	NA	4.21E-03	NA	1.14E-02	30	1.66E-63	NA	2.54E+60	NA	NA	NA	NA
2-Chlorophenol	6.8E-03	0.128	NA	2.75E-04	NA	1.83E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
2-Hexanone	NA	0.005	NA	1.31E-02	NA	2.70E-03	3772	8.04E-03	NA	1.63E+00	NA	NA	NA	NA
2-Methylnaphthalene	NA	0.720	NA	5.19E-03	NA	5.12E-01	6840	4.17E-03	NA	1.25E+00	NA	NA	NA	NA
2-Methylphenol	3.8E-02	0.029	NA	1.63E-02	NA	2.06E-02	15	1.76E-130	NA	9.25E+127	NA	NA	NA	NA
2-Nitroaniline	NA	0.005	NA	3.15E-06	NA	2.72E-02	3772	8.04E-03	NA	3.92E-04	NA	NA	NA	NA
2-Nitrophenol	5.8E-02	0.013	NA	2.63E-03	NA	1.83E-02	15	2.08E-92	NA	1.26E+89	NA	NA	NA	NA
3,3'-Dichlorobenzidine	5.1E-01	0.232	4.5E-04	NA	NA	1.14E-02	30	6.97E-34	6.50E+29	NA	NA	6.50E+29	5.00E-07	3.35E-06
3-Nitroaniline	NA	0.005	NA	3.15E-06	NA	2.72E-02	3772	8.04E-03	NA	3.92E-04	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	1.1E-01	0.203	NA	6.51E-04	NA	4.46E-02	30	7.06E-96	NA	9.22E+91	NA	NA	NA	NA
4-Chloro-3-methylphenol	NA	0.016	NA	NA	NA	1.83E-02	4180	6.68E-03	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	0.021	NA	1.25E-03	NA	4.08E-02	4180	6.68E-03	NA	1.88E-01	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	0.997	NA	NA	NA	1.14E-02	6840	4.17E-03	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	3.8E-02	0.043	NA	1.43E-03	NA	2.96E-02	15	1.76E-130	NA	8.15E+126	NA	NA	NA	NA
4-Methylphenol	3.8E-02	0.026	NA	1.63E-03	NA	3.86E-02	15	1.76E-130	NA	9.25E+126	NA	NA	NA	NA

Table B-2. 0.001 mpyr

Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
At217	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
C 14	3.85E-06	8.00E-08	4.43E-10	8.00E-08	NA	NA	NA	NA	NA	NA	1.03E-06	1.03E-06
H 3	3.85E-06	4.77E+02	8.00E-14	4.77E+02	NA	NA	NA	NA	NA	NA	2.00E+03	2.00E+03
I129	3.85E-06	2.45E-10	4.08E-03	2.45E-10	NA	NA	NA	NA	NA	NA	1.50E-10	1.50E-10
I131	3.85E-06	1.42E+203	0.00E+00	No Limit	NA	NA	NA	NA	NA	NA	7.99E+202	No Limit
Kr81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.89E-09	1.89E-09
Kr85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.78E+00	2.78E+00
Rn218	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Rn219	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Rn220	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Rn222	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Tc 98	3.85E-06	8.17E-09	1.66E-11	8.17E-09	NA	NA	NA	NA	NA	NA	NA	NA
Tc 99	3.85E-06	2.15E-08	2.05E-04	2.15E-08	NA	NA	NA	NA	NA	NA	2.21E-07	2.21E-07
Xe127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.17E+41	No Limit
Xe129m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.09E+169	No Limit
Xe131m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.14E+115	No Limit
Xe133	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.56E+256	No Limit
1,1,1-Trichloroethane	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.34E+13	1.82E-15	No Limit	3.60E+14	No Limit
1,1,2,2-Tetrachloroethane	3.85E-06	1.54E+41	2.47E-49	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	3.85E-06	1.58E+05	1.18E-12	1.58E+05	NA	NA	NA	NA	NA	NA	1.65E+05	1.65E+05
1,1-Dichloroethane	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	9.28E+28	3.92E-32	No Limit	NA	NA
1,1-Dichloroethene	3.85E-06	1.11E+29	1.03E-35	No Limit	NA	NA	NA	NA	NA	NA	7.16E+29	No Limit
1,2,4-Trichlorobenzene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.63E+28	6.73E-31	No Limit	7.37E+29	No Limit
1,2-Dichlorobenzene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit
1,2-Dichloroethane	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	3.69E+18	2.26E-24	No Limit	1.29E+20	No Limit
1,2-Dichloroethene (total)	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.82E+16	2.77E-20	No Limit	1.49E+18	No Limit
1,3-Dichlorobenzene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	7.91E+26	2.23E-29	No Limit	NA	NA
1,4-Dichlorobenzene	3.85E-06	1.24E+29	2.78E-33	No Limit	NA	NA	NA	NA	NA	NA	7.89E+29	No Limit
1,4-Dioxane	3.85E-06	2.93E+27	4.94E-36	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.22E+23	3.12E-25	No Limit	NA	NA
2,4,6-Trichlorophenol	3.85E-06	1.62E+18	8.66E-24	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.72E+79	1.95E-81	No Limit	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	5.80E+142	1.36E-144	No Limit	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.81E+21	9.74E-24	No Limit	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	9.09E+20	3.53E-23	No Limit	NA	NA
2-Butanone	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	3.34E+00	1.15E-02	3.34E+00	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	3.95E+60	4.48E-63	No Limit	NA	NA
2-Chlorophenol	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
2-Hexanone	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.54E+00	1.65E-03	2.54E+00	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.94E+00	4.11E-01	1.94E+00	NA	NA
2-Methylphenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.44E+128	2.23E-130	No Limit	NA	NA
2-Nitroaniline	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	6.08E-04	6.95E+01	6.08E-04	NA	NA
2-Nitrophenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.96E+89	1.45E-91	No Limit	NA	NA
3,3'-Dichlorobenzidine	3.85E-06	5.00E+30	1.75E-36	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	6.08E-04	6.95E+01	6.08E-04	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.43E+92	4.84E-94	No Limit	NA	NA
4-Chloro-3-methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.92E-01	2.17E-01	2.92E-01	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.27E+127	3.64E-129	No Limit	NA	NA
4-Methylphenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.44E+127	4.17E-129	No Limit	NA	NA

Table B-2. 0.001 mpyr

Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
4-Nitroaniline	NA	0.005	NA	3.15E-06	NA	2.72E-02	3772	8.04E-03	NA	3.92E-04	NA	NA	NA	NA
4-Nitrophenol	1.5E-02	0.013	NA	2.62E-03	NA	5.16E-02	15	2.77E-299	NA	9.47E+295	NA	NA	NA	NA
Acenaphthylene	2.8E-01	0.643	NA	3.22E-03	NA	2.07E-02	30	4.58E-48	NA	7.03E+44	NA	NA	NA	NA
Acetone	1.1E-02	0.000	NA	5.52E-03	NA	6.20E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Acetonitrile	4.8E-02	0.005	NA	7.19E-04	NA	1.88E-05	12	8.18E-92	NA	8.79E+87	NA	NA	NA	NA
Acrolein	4.2E-02	0.007	NA	3.79E-07	NA	9.06E-06	15	1.99E-119	NA	1.90E+112	NA	NA	NA	NA
Acrylonitrile	6.6E-02	0.000	NA	3.40E-05	NA	9.06E-06	12	8.42E-71	NA	4.03E+65	NA	NA	NA	NA
Benzene	4.4E-01	0.020	NA	1.01E-04	5.00E-03	6.03E-01	15	3.93E-26	NA	2.58E+21	1.27E+23	NA	NA	NA
Benzidine	2.7E-02	0.050	9.1E-07	NA	NA	2.91E-04	15	3.61E-176	2.53E+169	NA	NA	2.53E+169	5.00E-07	3.35E-06
Benzoic acid	1.9E-02	0.000	NA	1.31E+00	NA	8.56E-03	12	4.76E-205	NA	2.75E+204	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	0.002	NA	NA	NA	1.14E-02	3772	8.04E-03	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	5.8E-01	0.024	3.1E-05	NA	NA	1.14E-02	15	7.39E-24	4.13E+18	NA	NA	4.13E+18	5.00E-07	3.35E-06
bis(2-Chloroisopropyl)ether	3.4E-01	0.020	8.5E-04	NA	NA	1.14E-02	15	4.99E-29	1.71E+25	NA	NA	1.71E+25	5.00E-07	3.35E-06
Butane,1,1,3,4-Tetrachloro-	1.5E-01	0.025	NA	NA	NA	7.89E-03	15	8.62E-45	NA	NA	NA	NA	NA	NA
Carbazole	NA	1.088	9.0E-03	NA	NA	3.23E-02	6840	4.17E-03	2.16E+00	NA	NA	2.16E+00	5.00E-07	3.35E-06
Carbon Disulfide	4.1E-03	0.015	NA	9.35E-03	NA	4.55E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Chlorobenzene	3.5E-01	0.072	NA	9.52E-04	NA	6.57E-03	30	7.88E-42	NA	1.21E+38	NA	NA	NA	NA
Chloroethane	2.7E-02	0.005	1.2E-02	NA	NA	3.02E-06	12	1.97E-148	6.11E+145	NA	NA	6.11E+145	5.00E-07	3.35E-06
Chloromethane	NA	0.011	4.7E-03	NA	NA	3.53E-04	4180	6.68E-03	7.05E-01	NA	NA	7.05E-01	5.00E-07	3.35E-06
Diacetone alcohol	3.8E-02	0.043	NA	NA	NA	4.32E+00	15	1.76E-130	NA	NA	NA	NA	NA	NA
Diethylphthalate	1.6E-01	0.092	NA	2.63E-01	NA	1.14E-02	30	1.63E-71	NA	1.61E+70	NA	NA	NA	NA
Dimethylphthalate	2.2E-02	0.022	NA	3.30E+00	NA	1.14E-02	15	3.80E-216	NA	8.69E+215	NA	NA	NA	NA
Ethylbenzene	2.1E-01	0.065	NA	1.16E-02	7.00E-01	7.81E-02	30	1.34E-58	NA	8.63E+55	5.21E+57	NA	NA	NA
Famphur	3.2E-01	0.134	NA	NA	NA	5.81E-05	30	1.31E-44	NA	NA	NA	NA	NA	NA
Hexachloroethane	2.9E-01	0.571	NA	3.08E-04	NA	1.14E-02	30	9.32E-47	NA	3.30E+42	NA	NA	NA	NA
Isobutyl alcohol	1.2E-02	0.002	NA	9.89E-02	NA	1.88E-05	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Isophorone	5.8E-01	0.015	NA	6.57E-02	NA	1.14E-02	15	7.39E-24	NA	8.90E+21	NA	NA	NA	NA
Isopropyl Alcohol/2-propanol	1.1E-02	0.000	NA	NA	NA	2.12E-03	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Mesityl oxide	3.8E-02	0.043	NA	NA	NA	8.48E-02	15	1.76E-130	NA	NA	NA	NA	NA	NA
Methyl Acetate	NA	0.001	NA	5.52E-02	NA	4.84E-04	3772	8.04E-03	NA	6.86E+00	NA	NA	NA	NA
Methylene Chloride	3.0E-02	0.003	1.3E-02	NA	NA	8.36E-02	12	2.02E-136	6.60E+133	NA	NA	6.60E+133	5.00E-07	3.35E-06
Naphthalene	9.8E-02	0.642	NA	5.62E-05	NA	4.25E-01	30	3.27E-107	NA	1.72E+102	NA	NA	NA	NA
Nitrobenzene	5.4E-01	0.021	NA	3.07E-05	NA	1.14E-02	15	2.47E-24	NA	1.24E+19	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	5.6E-01	0.008	3.0E-05	NA	NA	1.14E-02	15	4.05E-24	7.38E+18	NA	NA	7.38E+18	5.00E-07	3.35E-06
N-Nitrosodiphenylamine	1.2E-01	0.414	4.0E-02	NA	NA	1.14E-02	30	2.37E-90	1.69E+88	NA	NA	1.69E+88	5.00E-07	3.35E-06
Pentachlorophenol	1.1E+00	0.190	8.0E-04	NA	1.00E-03	5.59E-02	30	2.22E-24	3.59E+20	NA	4.50E+20	3.59E+20	5.00E-07	3.35E-06
Phenanthrene	5.9E-01	1.542	NA	6.65E-02	NA	1.17E+00	30	2.66E-31	NA	2.50E+29	NA	NA	NA	NA
Phenol	1.0E-02	0.009	NA	1.97E-01	NA	7.98E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Phenol,2,6-Bis(1,1-Dimethyl)	2.2E-02	0.067	NA	NA	NA	4.05E-03	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
RDX	NA	0.002	1.8E-03	NA	NA	0.00E+00	3772	8.04E-03	2.29E-01	NA	NA	2.29E-01	5.00E-07	3.35E-06
Styrene	3.1E-01	0.293	NA	1.46E-02	1.00E-01	1.03E-06	30	2.74E-45	NA	5.31E+42	3.65E+43	NA	NA	NA
Tetrachloroethene	7.6E-01	0.085	3.1E-03	NA	5.00E-03	9.64E-03	30	5.91E-28	5.33E+24	NA	8.46E+24	5.33E+24	5.00E-07	3.35E-06
Toluene	4.2E-02	0.045	NA	6.51E-03	1.00E+00	9.82E-01	15	1.50E-120	NA	4.33E+117	6.65E+119	NA	NA	NA
Trichloroethene	7.2E-01	0.030	NA	3.30E-04	5.00E-03	7.20E-02	15	2.55E-22	NA	1.29E+18	1.96E+19	NA	NA	NA
Trinitrotoluene	2.8E-01	0.000	NA	1.61E-04	NA	0.00E+00	12	5.01E-29	NA	3.21E+24	NA	NA	NA	NA
Xylene (ortho)	7.1E-02	0.063	NA	1.30E-02	1.00E+01	3.88E-03	30	1.21E-141	NA	1.07E+139	8.25E+141	NA	NA	NA
Xylene (total)	7.1E-02	0.063	NA	1.30E-02	1.00E+01	3.45E+00	30	1.21E-141	NA	1.07E+139	8.25E+141	NA	NA	NA
Arsenic	NA	0.816	1.4E-04	NA	5.00E-03	5.65E+00	6840	4.17E-03	3.35E-02	NA	1.20E+00	3.35E-02	5.00E-07	3.35E-06
Boron	NA	1.296	NA	2.98E-02	NA	1.85E+02	6840	4.17E-03	NA	7.13E+00	NA	NA	NA	NA
Calcium	NA	1.590	NA	NA	NA	2.04E+04	6840	4.17E-03	NA	NA	NA	NA	NA	NA
Chloride	NA	0.000	NA	NA	250	1.87E+00	3772	8.04E-03	NA	NA	3.11E+04	NA	NA	NA

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Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
4-Nitroaniline	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	6.08E-04	6.95E+01	6.08E-04	NA	NA
4-Nitrophenol	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.47E+296	5.44E-298	No Limit	NA	NA
Acenaphthylene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.09E+45	2.94E-47	No Limit	NA	NA
Acetone	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Acetonitrile	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.36E+88	2.14E-93	No Limit	NA	NA
Acrolein	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.96E+112	4.76E-118	No Limit	NA	NA
Acrylonitrile	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	6.26E+65	2.25E-71	No Limit	NA	NA
Benzene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	4.01E+21	2.34E-22	No Limit	1.27E+23	No Limit
Benzidine	3.85E-06	1.94E+170	1.15E-177	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	4.27E+204	3.11E-207	No Limit	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	3.85E-06	3.18E+19	2.75E-25	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	3.85E-06	1.31E+26	6.66E-32	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Butane,1,1,3,4-Tetrachloro-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	3.85E-06	1.66E+01	1.50E-06	1.66E+01	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Chlorobenzene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.88E+38	5.44E-41	No Limit	NA	NA
Chloroethane	3.85E-06	4.70E+146	4.94E-156	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	3.85E-06	5.43E+00	5.00E-08	5.43E+00	NA	NA	NA	NA	NA	NA	NA	NA
Diacetone alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.51E+70	7.06E-73	No Limit	NA	NA
Dimethylphthalate	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.35E+216	1.31E-218	No Limit	NA	NA
Ethylbenzene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.34E+56	9.05E-58	No Limit	5.21E+57	No Limit
Famphur	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	5.13E+42	3.45E-45	No Limit	NA	NA
Isobutyl alcohol	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Isophorone	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.38E+22	1.28E-24	No Limit	NA	NA
Isopropyl Alcohol/2-propanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mesityl oxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Acetate	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.07E+01	7.06E-05	1.07E+01	NA	NA
Methylene Chloride	3.85E-06	5.08E+134	1.27E-139	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.67E+102	2.47E-103	No Limit	NA	NA
Nitrobenzene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.93E+19	9.15E-22	No Limit	NA	NA
N-Nitroso-di-n-propylamine	3.85E-06	5.68E+19	1.54E-25	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	3.85E-06	1.30E+89	6.72E-95	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	3.85E-06	2.76E+21	1.56E-26	No Limit	NA	NA	NA	NA	NA	NA	4.50E+20	No Limit
Phenanthrene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	3.88E+29	4.67E-30	No Limit	NA	NA
Phenol	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Phenol,2,6-Bis(1,1-Dimethyl)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RDX	3.85E-06	1.77E+00	0.00E+00	1.77E+00	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	8.25E+42	1.93E-49	No Limit	3.65E+43	No Limit
Tetrachloroethene	3.85E-06	4.10E+25	1.81E-31	No Limit	NA	NA	NA	NA	NA	NA	8.46E+24	No Limit
Toluene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	6.73E+117	2.27E-118	No Limit	6.65E+119	No Limit
Trichloroethene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	2.01E+18	5.57E-20	No Limit	1.96E+19	No Limit
Trinitrotoluene	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	4.98E+24	0.00E+00	No Limit	NA	NA
Xylene (ortho)	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.66E+139	3.63E-142	No Limit	8.25E+141	No Limit
Xylene (total)	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.66E+139	3.23E-139	No Limit	8.25E+141	No Limit
Arsenic	3.85E-06	2.58E-01	1.69E-02	2.58E-01	NA	NA	NA	NA	NA	NA	1.20E+00	1.20E+00
Boron	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	1.11E+01	2.59E+01	1.11E+01	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.11E+04	3.11E+04

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Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
Cyanide	NA	0.003	NA	NA	2.00E-01	3.37E-01	3772	8.04E-03	NA	NA	2.49E+01	NA	NA	NA
Fluoride	NA	0.000	NA	NA	4.00E+00	3.87E+00	3772	8.04E-03	NA	NA	4.97E+02	NA	NA	NA
Magnesium	NA	1.590	NA	NA	NA	4.47E+03	6840	4.17E-03	NA	NA	NA	NA	NA	NA
Nitrate	NA	0.000	NA	NA	10	3.93E+00	3772	8.04E-03	NA	NA	1.24E+03	NA	NA	NA
Nitrate/Nitrite-N	NA	0.000	NA	NA	10	2.22E-01	3772	8.04E-03	NA	NA	1.24E+03	NA	NA	NA
Nitrite	NA	0.000	NA	NA	1	8.49E-03	3772	8.04E-03	NA	NA	1.24E+02	NA	NA	NA
Phosphorus	NA	1.500	NA	NA	NA	9.74E+01	6840	4.17E-03	NA	NA	NA	NA	NA	NA
Sulfate	NA	0.000	NA	NA	NA	2.05E+01	3772	8.04E-03	NA	NA	NA	NA	NA	NA
Sulfide	NA	0.000	NA	NA	NA	7.59E+02	3772	8.04E-03	NA	NA	NA	NA	NA	NA
Vanadium	NA	1.584	NA	2.17E-03	NA	2.12E+01	6840	4.17E-03	NA	5.19E-01	NA	NA	NA	NA
Ac225	2.74E-02	130.500	1.66E-01	NA	15	5.12E-17	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ac227	2.18E+01	130.500	1.56E-01	NA	NA	2.04E-14	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Ac228	7.00E-04	130.500	1.58E+01	NA	NA	1.52E-19	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Ag106	4.57E-05	24.300	5.31E+02	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Ag108	4.51E-06	24.300	NA	NA	NA	3.69E-18	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ag108m	1.27E+02	24.300	3.86E+00	NA	NA	8.00E-10	9.00E+03	3.76E-39	1.03E+39	NA	NA	1.03E+27	5.00E-07	7.47E-08
Ag109m	1.26E-06	24.300	NA	NA	NA	4.92E-21	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ag110	7.80E-07	24.300	NA	NA	NA	5.18E-20	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ag110m	6.85E-01	24.300	3.18E+00	NA	90	5.55E-18	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ag111	2.04E-02	24.300	3.83E+00	NA	100	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Am241	4.32E+02	89.760	3.02E-01	NA	15	2.38E-08	8.97E+04	4.35E-82	6.94E+80	NA	3.45E+82	6.94E+68	5.00E-07	7.47E-08
Am242	1.83E-03	89.760	1.76E+01	NA	15	4.53E-14	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Am242m	1.52E+02	89.760	4.45E-01	NA	15	4.52E-14	8.97E+04	3.36E-197	1.32E+196	NA	4.47E+197	1.32E+184	5.00E-07	7.47E-08
Am243	7.38E+03	89.760	3.05E-01	NA	15	3.34E-13	1.80E+05	4.10E-19	7.45E+17	NA	3.66E+19	7.45E+05	5.00E-07	7.47E-08
Am245	2.34E-04	89.760	1.42E+02	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Am246	7.42E-05	89.760	2.56E+02	NA	NA	1.38E-34	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Ba136m	9.77E-09	13.200	NA	NA	NA	0.00E+00	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ba137m	4.85E-06	13.200	NA	NA	NA	2.31E-05	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ba140	3.48E-02	13.200	2.11E+00	NA	90	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Be 10	1.52E+06	72.300	4.47E+00	NA	NA	1.14E-15	4.80E+05	1.13E-05	3.96E+05	NA	NA	3.96E-07	5.00E-07	7.47E-08
Bi210	1.37E-02	29.400	3.52E+00	NA	NA	1.09E-15	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Bi211	4.07E-06	29.400	NA	NA	15	1.83E-14	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Bi212	1.15E-04	29.400	4.43E+01	NA	NA	5.53E-13	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Bi213	8.69E-05	29.400	6.15E+01	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Bi214	3.79E-05	29.400	1.64E+02	NA	NA	5.62E-15	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Bk249	8.77E-01	1068.000	2.83E+01	NA	NA	2.16E-30	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Bk250	3.68E-04	1068.000	5.55E+01	NA	NA	7.75E-35	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Cd109	1.27E+00	4.908	6.29E+00	NA	600	4.92E-21	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cd113m	1.36E+01	4.908	1.10E+00	NA	NA	1.62E-09	8.60E+03	5.02E-208	2.18E+207	NA	NA	2.18E+195	5.00E-07	7.47E-08
Cd115m	1.22E-01	4.908	1.85E+00	NA	90	4.25E-63	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ce141	8.90E-02	249.000	6.79E+00	NA	300	1.80E-80	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ce142	3.78E-03	249.000	NA	NA	15	0.00E+00	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Ce144	7.78E-01	249.000	8.93E-01	NA	NA	1.81E-12	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Cf249	3.51E+02	134.640	2.47E-01	NA	15	4.12E-25	8.97E+04	1.65E-96	1.50E+95	NA	9.08E+96	1.50E+83	5.00E-07	7.47E-08
Cf250	1.31E+01	134.640	3.65E-01	NA	15	2.11E-25	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cf251	8.98E+02	134.640	2.38E-01	NA	15	9.52E-28	8.97E+04	1.17E-49	2.04E+48	NA	1.29E+50	2.04E+36	5.00E-07	7.47E-08
Cf252	2.64E+00	134.640	NA	NA	15	2.24E-29	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA

Table B-2. 0.001 mpyr

Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.49E+01	2.49E+01
Fluoride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.97E+02	4.97E+02
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24E+03	1.24E+03
Nitrate/Nitrite-N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24E+03	1.24E+03
Nitrite	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24E+02	1.24E+02
Phosphorus	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	1.15E-02	6.36E-03	1.79E-02	8.07E-01	4.09E+01	8.07E-01	NA	NA
Ac225	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ac227	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ac228	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ag106	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ag108	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ag108m	5.75E-07	1.18E+27	7.79E-41	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ag109m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ag110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ag110m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ag111	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Am241	5.75E-07	7.98E+68	3.43E-81	No Limit	NA	NA	NA	NA	NA	NA	3.45E+70	No Limit
Am242	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Am242m	5.75E-07	1.52E+184	3.41E-202	No Limit	NA	NA	NA	NA	NA	NA	4.47E+185	No Limit
Am243	5.75E-07	8.56E+05	4.48E-23	No Limit	NA	NA	NA	NA	NA	NA	3.66E+07	No Limit
Am245	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Am246	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ba136m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ba137m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ba140	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Be 10	5.75E-07	4.55E-07	2.88E-13	4.55E-07	NA	NA	NA	NA	NA	NA	NA	NA
Bi210	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Bi211	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Bi212	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Bi213	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Bi214	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Bk249	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Bk250	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Cd109	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cd113m	5.75E-07	2.51E+195	7.43E-209	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Cd115m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ce141	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ce142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ce144	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Cf249	5.75E-07	1.72E+83	2.75E-112	No Limit	NA	NA	NA	NA	NA	NA	9.08E+84	No Limit
Cf250	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cf251	5.75E-07	2.35E+36	4.66E-68	No Limit	NA	NA	NA	NA	NA	NA	1.29E+38	No Limit
Cf252	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit

Table B-2. 0.001 mpyr

Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC-based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC-based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
Cm241	8.99E-02	1068.000	6.48E+00	NA	NA	1.30E-89	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Cm242	4.47E-01	1068.000	8.16E-01	NA	15	5.39E-26	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cm243	2.85E+01	1068.000	3.32E-01	NA	15	3.55E-15	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cm244	1.81E+01	1068.000	3.76E-01	NA	15	1.80E-12	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cm245	8.50E+03	1068.000	3.02E-01	NA	15	8.02E-17	1.80E+05	3.80E-18	7.95E+16	NA	3.95E+18	7.95E+04	5.00E-07	7.47E-08
Cm246	4.73E+03	1068.000	3.08E-01	NA	15	1.79E-18	1.80E+05	3.16E-23	9.76E+21	NA	4.75E+23	9.76E+09	5.00E-07	7.47E-08
Cm247	1.56E+07	1068.000	3.16E-01	NA	15	6.39E-25	1.00E+06	9.90E-08	3.19E+06	NA	1.52E+08	3.19E-06	5.00E-07	7.47E-08
Cm248	3.39E+05	1068.000	NA	NA	15	1.95E-25	1.00E+06	1.34E-08	NA	NA	1.12E+09	NA	NA	NA
Cm250	9.70E+03	1068.000	NA	NA	NA	5.53E-34	1.80E+05	2.34E-17	NA	NA	NA	NA	NA	NA
Co-57	7.42E-01	5.880	3.03E+01	NA	1000	3.69E-12	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Co-58	1.94E-01	5.880	1.07E+01	NA	300	5.88E-26	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Co-60	5.27E+00	5.880	2.00E+00	NA	100	1.93E-07	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cr-51	7.59E-02	16.740	1.70E+02	NA	6000	2.30E-63	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cs132	1.78E-02	138.000	2.15E+01	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Cs134	2.06E+00	138.000	7.45E-01	NA	80	1.12E-08	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cs135	2.30E+06	138.000	6.63E+00	NA	900	3.58E-11	1.00E+06	7.66E-08	8.66E+07	NA	1.18E+10	8.66E-05	5.00E-07	7.47E-08
Cs136	3.59E-02	138.000	3.63E+00	NA	800	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Cs137	3.00E+01	138.000	1.03E+00	NA	200	2.44E-05	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Er169	2.55E-02	63.360	1.24E+01	NA	300	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Eu150	1.44E-03	89.760	1.32E+01	NA	NA	1.73E-17	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Eu152	1.33E+01	89.760	5.18E+00	NA	200	9.68E-07	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Eu154	8.80E+00	89.760	3.05E+00	NA	60	8.21E-07	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Eu155	4.96E+00	89.760	1.65E+01	NA	600	1.76E-07	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Eu156	4.16E-02	89.760	2.47E+00	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Fe-59	1.22E-01	57.750	3.99E+00	NA	200	4.51E-44	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Fr221	9.13E-06	138.000	NA	NA	15	5.12E-17	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Fr223	4.15E-05	138.000	4.31E+00	NA	NA	2.82E-16	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Gd152	1.08E+14	63.360	1.06E+00	NA	15	2.72E-23	5.80E+05	1.41E-05	7.50E+04	NA	1.06E+06	7.50E-08	5.00E-07	7.47E-08
Gd153	6.63E-01	63.360	2.07E+01	NA	600	2.01E-20	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Hf-181	1.16E-01	130.500	4.94E+00	NA	200	7.80E-46	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ho166m	3.06E-03	72.300	3.41E+00	NA	90	2.70E-15	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
In114	2.28E-06	102.960	NA	NA	NA	1.89E-63	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
In114m	1.36E-01	102.960	1.27E+00	NA	60	1.97E-63	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
In115	5.10E+15	102.960	9.30E-01	NA	300	5.78E-21	1.00E+06	1.03E-07	8.98E+06	NA	2.90E+09	8.98E-06	5.00E-07	7.47E-08
In115m	5.13E-04	102.960	7.14E+01	NA	1000	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
K-40	1.28E+09	4.320	1.27E+00	NA	NA	1.92E-09	1.00E+05	1.65E-04	7.74E+03	NA	NA	7.74E-09	5.00E-07	7.47E-08
La138	1.35E+11	316.800	8.90E+00	NA	NA	0.00E+00	1.00E+06	1.03E-07	8.60E+07	NA	NA	8.60E-05	5.00E-07	7.47E-08
La140	4.60E-03	316.800	2.86E+00	NA	60	2.65E-114	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Mn-54	8.58E-01	13.980	1.38E+01	NA	300	1.93E-17	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Nb92	3.70E+07	31.200	NA	NA	NA	6.35E-28	5.80E+05	1.40E-05	NA	NA	NA	NA	NA	NA
Nb93m	1.36E+01	31.200	3.91E+01	NA	1000	1.35E-11	9.00E+03	5.12E-217	7.64E+217	NA	1.95E+219	7.64E+205	5.00E-07	7.47E-08
Nb94	2.03E+04	31.200	4.04E+00	NA	NA	8.83E-15	1.00E+05	2.84E-08	1.42E+08	NA	NA	1.42E-04	5.00E-07	7.47E-08
Nb95	9.64E-02	31.200	1.28E+01	NA	300	4.80E-42	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Nb95m	9.89E-03	31.200	8.59E+00	NA	NA	1.84E-44	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Nd144	2.10E+15	63.360	NA	NA	15	3.27E-19	5.80E+05	1.41E-05	NA	NA	1.06E+06	NA	NA	NA
Nd147	3.01E-02	63.360	4.52E+00	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Np235	1.08E+00	2.394	9.08E+01	NA	15	6.80E-20	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Np236	1.15E+05	2.394	2.99E+00	NA	NA	6.93E-17	1.00E+05	9.01E-05	3.32E+04	NA	NA	3.32E-08	5.00E-07	7.47E-08
Np237	2.14E+06	2.394	5.09E-01	NA	15	6.43E-10	1.00E+05	1.59E-04	3.19E+03	NA	9.41E+04	3.19E-09	5.00E-07	7.47E-08
Np238	5.81E-03	2.394	5.82E+00	NA	NA	2.18E-16	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Np239	6.47E-03	2.394	6.11E+00	NA	NA	3.34E-13	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Np240	1.24E-04	2.394	1.41E+02	NA	NA	2.79E-23	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit

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Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
Cm241	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Cm242	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cm243	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cm244	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cm245	5.75E-07	9.14E+04	1.01E-25	No Limit	NA	NA	NA	NA	NA	NA	3.95E+06	No Limit
Cm246	5.75E-07	1.12E+10	1.83E-32	No Limit	NA	NA	NA	NA	NA	NA	4.75E+11	No Limit
Cm247	5.75E-07	3.67E-06	2.00E-23	3.67E-06	NA	NA	NA	NA	NA	NA	1.52E-04	1.52E-04
Cm248	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.12E-03	1.12E-03
Cm250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Co-57	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Co-58	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Co-60	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cr-51	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cs132	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Cs134	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cs135	5.75E-07	9.95E-05	4.14E-11	9.95E-05	NA	NA	NA	NA	NA	NA	1.18E-02	1.18E-02
Cs136	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Cs137	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Er169	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Eu150	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Eu152	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Eu154	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Eu155	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Eu156	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Fe-59	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Fr221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Fr223	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Gd152	5.75E-07	8.62E-08	3.63E-20	No Limit	NA	NA	NA	NA	NA	NA	1.06E-06	No Limit
Gd153	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Hf-181	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ho166m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
In114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
In114m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
In115	5.75E-07	1.03E-05	6.43E-20	No Limit	NA	NA	NA	NA	NA	NA	2.90E-03	No Limit
In115m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
K-40	5.75E-07	8.90E-09	2.48E-05	8.90E-09	NA	NA	NA	NA	NA	NA	NA	NA
La138	5.75E-07	9.89E-05	0.00E+00	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
La140	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Mn-54	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Nb92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nb93m	5.75E-07	8.78E+205	1.77E-221	No Limit	NA	NA	NA	NA	NA	NA	1.95E+207	No Limit
Nb94	5.75E-07	1.64E-04	6.20E-15	1.64E-04	NA	NA	NA	NA	NA	NA	NA	NA
Nb95	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Nb95m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Nd144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.06E-06	No Limit
Nd147	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Np235	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Np236	5.75E-07	3.82E-08	2.09E-13	3.82E-08	NA	NA	NA	NA	NA	NA	NA	NA
Np237	5.75E-07	3.67E-09	2.02E-05	3.67E-09	NA	NA	NA	NA	NA	NA	9.41E-08	9.41E-08
Np238	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Np239	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Np240	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA

Table B-2. 0.001 mpyr

Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
Np240m	1.41E-05	2.394	NA	NA	NA	2.54E-20	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Pa231	3.28E+04	158.100	1.82E-01	NA	15	6.98E-14	2.80E+05	4.58E-13	3.97E+11	NA	3.28E+13	3.97E-01	5.00E-07	7.47E-08
Pa233	7.40E-02	158.100	5.66E+00	NA	300	4.36E-11	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Pa234	7.65E-04	158.100	1.23E+01	NA	NA	2.74E-15	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pa234m	2.23E-06	158.100	NA	NA	NA	1.71E-12	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Pb209	3.71E-04	30.060	1.31E+02	NA	NA	4.85E-17	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pb210	2.23E+01	30.060	3.57E-02	NA	NA	1.09E-15	9.00E+03	2.65E-139	1.35E+137	NA	NA	1.35E+125	5.00E-07	7.47E-08
Pb211	6.87E-05	30.060	7.66E+01	NA	NA	1.83E-14	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pb212	1.21E-03	30.060	1.26E+00	NA	NA	5.53E-13	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pb214	5.10E-05	30.060	9.15E+01	NA	NA	5.62E-15	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pd107	6.50E+06	15.810	1.26E+02	NA	NA	6.12E-12	3.80E+05	5.16E-05	2.44E+06	NA	NA	2.44E-06	5.00E-07	7.47E-08
Pm146	5.53E+00	63.360	7.52E+00	NA	NA	5.81E-12	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pm147	2.62E+00	63.360	1.86E+01	NA	NA	3.82E-07	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pm148	1.47E-02	63.360	1.83E+00	NA	NA	3.97E-68	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pm148m	1.13E-01	63.360	3.93E+00	NA	NA	8.23E-67	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Po210	3.78E-01	56.700	8.34E-02	NA	15	1.02E-15	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Po211	1.64E-08	56.700	NA	NA	15	6.84E-19	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Po212	9.67E-15	56.700	NA	NA	15	3.28E-13	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Po213	1.33E-13	56.700	NA	NA	15	4.34E-17	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Po214	5.20E-12	56.700	NA	NA	15	5.62E-15	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Po215	5.64E-11	56.700	NA	NA	15	1.83E-14	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Po216	4.76E-09	56.700	NA	NA	15	5.53E-13	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Po218	5.80E-06	56.700	NA	NA	15	5.62E-15	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Pr143	3.73E-02	63.360	3.97E+00	NA	100	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Pr144	3.29E-05	63.360	3.88E+02	NA	NA	1.77E-12	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pr144m	1.37E-05	63.360	NA	NA	NA	2.53E-14	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Pu236	2.85E+00	27.204	4.21E-01	NA	15	5.53E-15	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Pu237	1.24E-01	27.204	5.45E+01	NA	15	1.21E-67	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Pu238	8.77E+01	27.204	2.40E-01	NA	15	2.33E-07	9.00E+03	1.04E-48	2.31E+47	NA	1.44E+49	2.31E+35	5.00E-07	7.47E-08
Pu239	2.41E+04	27.204	2.33E-01	NA	15	6.66E-09	1.00E+05	4.87E-08	4.78E+06	NA	3.08E+08	4.78E-06	5.00E-07	7.47E-08
Pu240	6.54E+03	27.204	2.33E-01	NA	15	1.50E-09	6.64E+04	7.28E-11	3.20E+09	NA	2.06E+11	3.20E-03	5.00E-07	7.47E-08
Pu241	1.44E+01	27.204	1.79E+01	NA	NA	6.39E-08	9.00E+03	5.97E-206	2.99E+206	NA	NA	2.99E+194	5.00E-07	7.47E-08
Pu242	3.76E+05	27.204	2.46E-01	NA	15	2.41E-13	3.80E+05	6.50E-06	3.78E+04	NA	2.31E+06	3.78E-08	5.00E-07	7.47E-08
Pu243	5.66E-04	27.204	6.63E+01	NA	NA	6.39E-25	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Pu244	8.26E+07	27.204	2.29E-01	NA	15	2.54E-20	5.80E+05	1.40E-05	1.63E+04	NA	1.07E+06	1.63E-08	5.00E-07	7.47E-08
Pu246	2.99E-02	27.204	1.82E+00	NA	NA	1.38E-34	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Ra222	1.20E-06	80.400	NA	NA	15	1.17E-125	No Arrival	0.00E+00	NA	NA	No Limit	NA	NA	NA
Ra223	3.12E-02	80.400	1.32E-01	NA	15	2.03E-14	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ra224	1.00E-02	80.400	1.88E-01	NA	15	5.53E-13	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ra225	4.05E-02	80.400	2.76E-01	NA	NA	5.12E-17	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Ra226	1.60E+03	80.400	8.16E-02	NA	15	4.74E-10	2.45E+04	6.60E-16	1.24E+14	NA	2.27E+16	1.24E+02	5.00E-07	7.47E-08
Ra228	5.75E+00	80.400	3.02E-02	NA	NA	1.52E-19	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Rb86	5.12E-02	15.810	3.18E+00	NA	600	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Rb87	4.70E+10	15.810	6.02E+00	NA	300	1.11E-14	3.80E+05	5.37E-05	1.12E+05	NA	5.59E+06	1.12E-07	5.00E-07	7.47E-08
Rh102	2.90E+00	13.728	4.08E+00	NA	NA	2.97E-14	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Rh103m	1.07E-04	13.728	3.34E+03	NA	NA	2.83E-67	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Rh106	9.48E-07	13.728	NA	NA	NA	1.14E-11	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ru103	1.08E-01	18.990	8.16E+00	NA	200	2.01E-38	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Ru106	1.01E+00	18.990	7.45E-01	NA	30	1.21E-11	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Sb124	1.65E-01	14.400	2.44E+00	NA	60	2.07E-49	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Sb125	2.77E+00	14.400	7.19E+00	NA	300	9.27E-09	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Sb126	3.40E-02	14.400	2.83E+00	NA	NA	2.06E-11	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit

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Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
Np240m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pa231	5.75E-07	4.56E-01	1.76E-17	4.56E-01	NA	NA	NA	NA	NA	NA	3.28E+01	3.28E+01
Pa233	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Pa234	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pa234m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pb209	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pb210	5.75E-07	1.55E+125	8.10E-145	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pb211	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pb212	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pb214	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pd107	5.75E-07	2.80E-06	2.51E-10	2.80E-06	NA	NA	NA	NA	NA	NA	NA	NA
Pm146	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pm147	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pm148	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pm148m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Po210	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po211	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po212	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po213	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po215	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po216	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Po218	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Pr143	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Pr144	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pr144m	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pu236	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Pu237	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Pu238	5.75E-07	2.65E+35	1.01E-46	No Limit	NA	NA	NA	NA	NA	NA	1.44E+37	No Limit
Pu239	5.75E-07	5.50E-06	1.39E-07	5.50E-06	NA	NA	NA	NA	NA	NA	3.08E-04	3.08E-04
Pu240	5.75E-07	3.68E-03	4.69E-11	3.68E-03	NA	NA	NA	NA	NA	NA	2.06E-01	2.06E-01
Pu241	5.75E-07	3.44E+194	2.14E-206	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pu242	5.75E-07	4.34E-08	6.37E-10	4.34E-08	NA	NA	NA	NA	NA	NA	2.31E-06	2.31E-06
Pu243	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Pu244	5.75E-07	1.88E-08	1.56E-16	1.88E-08	NA	NA	NA	NA	NA	NA	1.07E-06	1.07E-06
Pu246	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ra222	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ra223	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ra224	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ra225	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Ra226	5.75E-07	1.42E+02	3.83E-16	1.42E+02	NA	NA	NA	NA	NA	NA	2.27E+04	No Limit
Ra228	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Rb86	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Rb87	5.75E-07	1.29E-07	9.95E-12	1.29E-07	NA	NA	NA	NA	NA	NA	5.59E-06	5.59E-06
Rh102	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Rh103m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Rh106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ru103	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Ru106	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Sb124	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Sb125	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Sb126	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA

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Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC-based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC-based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
Sb126m	3.61E-05	14.400	4.72E+02	NA	NA	1.47E-10	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Sc-46	2.30E-01	81.840	5.05E+00	NA	100	2.85E-29	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Se 79	6.50E+04	5.472	4.31E+00	NA	NA	1.66E-10	1.80E+05	4.05E-06	1.06E+06	NA	NA	1.06E-06	5.00E-07	7.47E-08
Sm146	1.03E+08	69.720	7.65E-01	NA	15	4.26E-19	5.80E+05	1.41E-05	5.44E+04	NA	1.07E+06	5.44E-08	5.00E-07	7.47E-08
Sm147	1.06E+11	69.720	8.40E-01	NA	15	4.10E-15	5.80E+05	1.41E-05	5.96E+04	NA	1.06E+06	5.96E-08	5.00E-07	7.47E-08
Sm148	7.00E+15	69.720	NA	NA	15	1.01E-21	5.80E+05	1.41E-05	NA	NA	1.06E+06	NA	NA	NA
Sm149	1.00E+16	69.720	NA	NA	15	5.12E-21	5.80E+05	1.41E-05	NA	NA	1.06E+06	NA	NA	NA
Sm151	9.00E+01	69.720	5.66E+01	NA	1000	3.38E-07	9.00E+03	6.40E-48	8.85E+48	NA	1.56E+50	8.85E+36	5.00E-07	7.47E-08
Sn117m	3.73E-02	37.560	7.19E+00	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Sn119m	8.03E-01	37.560	1.42E+01	NA	NA	1.48E-16	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Sn121m	5.50E+01	37.560	1.34E+01	NA	NA	2.69E-11	9.00E+03	4.48E-67	3.00E+67	NA	NA	3.00E+55	5.00E-07	7.47E-08
Sn123	3.53E-01	37.560	2.24E+00	NA	NA	8.42E-26	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Sn125	2.64E-02	37.560	1.56E+00	NA	60	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Sn126	1.00E+05	37.560	1.23E+00	NA	NA	1.47E-10	1.80E+05	1.66E-06	7.38E+05	NA	NA	7.38E-07	5.00E-07	7.47E-08
Sr89	1.38E-01	4.524	2.46E+00	NA	20	5.99E-53	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Sr90	2.91E+01	4.524	5.62E-01	NA	8	2.29E-05	8.60E+03	1.22E-106	4.60E+105	NA	6.55E+106	4.60E+93	5.00E-07	7.47E-08
Tb160	1.98E-01	63.360	3.61E+00	NA	100	3.18E-43	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Tb161	1.89E-02	63.360	6.59E+00	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Te123	1.00E+13	36.570	7.65E+00	NA	NA	4.52E-24	5.80E+05	1.41E-05	5.42E+05	NA	NA	5.42E-07	5.00E-07	7.47E-08
Te123m	3.29E-01	36.570	7.59E+00	NA	NA	2.95E-32	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Te125m	1.59E-01	36.570	9.44E+00	NA	600	2.27E-09	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Te127	1.07E-03	36.570	3.14E+01	NA	900	9.36E-29	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Te127m	2.99E-01	36.570	3.65E+00	NA	200	9.50E-29	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Te129	1.32E-04	36.570	1.84E+02	NA	2000	6.75E-80	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Te129m	9.21E-02	36.570	2.05E+00	NA	90	1.07E-79	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Th226	5.88E-05	36.000	4.72E+01	NA	15	2.18E-126	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Th227	5.12E-02	36.000	6.63E-01	NA	15	1.82E-14	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Th228	1.91E+00	36.000	2.94E-01	NA	15	3.29E-11	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Th229	7.34E+03	36.000	1.40E-01	NA	15	5.12E-17	6.64E+04	1.57E-10	8.95E+08	NA	9.57E+10	8.95E-04	5.00E-07	7.47E-08
Th230	7.70E+04	36.000	3.45E-01	NA	15	1.73E-10	1.80E+05	1.15E-06	3.01E+05	NA	1.31E+07	3.01E-07	5.00E-07	7.47E-08
Th231	2.91E-03	36.000	1.42E+01	NA	NA	1.61E-10	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Th232	1.41E+10	36.000	3.11E-01	NA	15	1.56E-10	5.80E+05	1.41E-05	2.21E+04	NA	1.06E+06	2.21E-08	5.00E-07	7.47E-08
Th234	6.60E-02	36.000	1.36E+00	NA	NA	1.71E-12	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Tl207	9.08E-06	26.400	NA	NA	NA	1.83E-14	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Tl208	5.84E-06	26.400	NA	NA	NA	1.98E-13	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Tl209	4.19E-06	26.400	NA	NA	NA	1.05E-18	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Tm170	3.53E-01	63.360	3.52E+00	NA	100	6.38E-35	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Tm171	1.92E+00	63.360	4.50E+01	NA	1000	1.59E-21	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
U230	5.70E-02	1.926	1.50E-01	NA	15	0.00E+00	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
U232	7.20E+01	1.926	1.08E-01	NA	15	5.35E-13	2.44E+03	1.11E-27	9.68E+25	NA	1.35E+28	9.68E+13	5.00E-07	7.47E-08
U233	1.59E+05	1.926	4.38E-01	NA	15	2.56E-14	9.34E+04	1.43E-04	3.07E+03	NA	1.05E+05	3.07E-09	5.00E-07	7.47E-08
U234	2.45E+05	1.926	4.45E-01	NA	15	6.03E-09	9.34E+04	1.65E-04	2.70E+03	NA	9.11E+04	2.70E-09	5.00E-07	7.47E-08
U235	7.04E+08	1.926	4.52E-01	NA	15	1.10E-10	1.00E+05	2.17E-04	2.08E+03	NA	6.92E+04	2.08E-09	5.00E-07	7.47E-08
U236	2.34E+07	1.926	4.69E-01	NA	15	2.02E-10	1.00E+05	2.16E-04	2.17E+03	NA	6.94E+04	2.17E-09	5.00E-07	7.47E-08
U237	1.85E-02	1.926	6.44E+00	NA	NA	0.00E+00	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
U238	4.47E+09	1.926	4.91E-01	NA	15	1.95E-09	1.00E+05	2.17E-04	2.27E+03	NA	6.92E+04	2.27E-09	5.00E-07	7.47E-08
U240	1.61E-03	1.926	4.47E+00	NA	NA	2.54E-20	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Y90	7.31E-03	49.860	1.74E+00	NA	60	2.29E-05	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Y91	1.60E-01	49.860	1.96E+00	NA	90	4.14E-46	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Zn65	6.68E-01	18.528	2.69E+00	NA	300	2.70E-18	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Zr93	1.53E+06	174.600	2.83E+01	NA	2000	8.57E-10	1.00E+06	6.58E-08	4.30E+08	NA	3.04E+10	4.30E-04	5.00E-07	7.47E-08
Zr95	1.75E-01	174.600	6.85E+00	NA	200	2.93E-34	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit

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Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
Sb126m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Sc-46	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Se 79	5.75E-07	1.22E-06	1.56E-08	1.22E-06	NA	NA	NA	NA	NA	NA	NA	NA
Sm146	5.75E-07	6.25E-08	7.83E-16	6.25E-08	NA	NA	NA	NA	NA	NA	1.07E-06	1.07E-06
Sm147	5.75E-07	6.85E-08	6.89E-12	6.85E-08	NA	NA	NA	NA	NA	NA	1.06E-06	1.06E-06
Sm148	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.06E-06	No Limit
Sm149	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.06E-06	No Limit
Sm151	5.75E-07	1.02E+37	3.81E-48	No Limit	NA	NA	NA	NA	NA	NA	1.56E+38	No Limit
Sn117m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Sn119m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Sn121m	5.75E-07	3.45E+55	8.95E-71	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Sn123	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Sn125	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Sn126	5.75E-07	8.48E-07	2.00E-08	8.48E-07	NA	NA	NA	NA	NA	NA	NA	NA
Sr89	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Sr90	5.75E-07	5.29E+93	4.97E-103	No Limit	NA	NA	NA	NA	NA	NA	6.55E+94	No Limit
Tb160	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Tb161	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Te123	5.75E-07	6.23E-07	8.35E-22	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Te123m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Te125m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Te127	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Te127m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Te129	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Te129m	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Th226	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Th227	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Th228	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Th229	5.75E-07	1.03E-03	5.72E-18	1.03E-03	NA	NA	NA	NA	NA	NA	9.57E-02	9.57E-02
Th230	5.75E-07	3.46E-07	5.76E-08	3.46E-07	NA	NA	NA	NA	NA	NA	1.31E-05	1.31E-05
Th231	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Th232	5.75E-07	2.53E-08	7.07E-07	2.53E-08	NA	NA	NA	NA	NA	NA	1.06E-06	1.06E-06
Th234	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Tl207	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tl208	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tl209	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tm170	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Tm171	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
U230	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
U232	5.75E-07	1.11E+14	5.53E-31	No Limit	NA	NA	NA	NA	NA	NA	1.35E+16	No Limit
U233	5.75E-07	3.53E-09	8.35E-10	3.53E-09	NA	NA	NA	NA	NA	NA	1.05E-07	1.05E-07
U234	5.75E-07	3.10E-09	2.23E-04	3.10E-09	NA	NA	NA	NA	NA	NA	9.11E-08	9.11E-08
U235	5.75E-07	2.40E-09	5.29E-06	2.40E-09	NA	NA	NA	NA	NA	NA	6.92E-08	6.92E-08
U236	5.75E-07	2.50E-09	9.31E-06	2.50E-09	NA	NA	NA	NA	NA	NA	6.94E-08	6.94E-08
U237	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
U238	5.75E-07	2.60E-09	8.62E-05	2.60E-09	NA	NA	NA	NA	NA	NA	6.92E-08	6.92E-08
U240	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Y90	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Y91	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Zn65	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Zr93	5.75E-07	4.95E-04	1.99E-10	4.95E-04	NA	NA	NA	NA	NA	NA	3.04E-02	3.04E-02
Zr95	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit

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Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
3-Methyl Butanal	NA	NA	NA	NA	NA	2.23E-04	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	5.457	NA	NA	NA	1.14E-02	380000	5.37E-05	NA	NA	NA	NA	NA	NA
Acenaphthene	3.1E-01	2.273	NA	2.08E-03	NA	2.02E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Anthracene	1.4E+00	9.470	NA	1.55E-02	NA	3.20E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Aramite	NA	4.976	7.8E-03	NA	NA	1.15E-04	380000	5.37E-05	1.44E+02	NA	NA	1.44E+02	5.00E-07	7.47E-08
Aroclor-1016	7.0E+00	10.593	NA	9.47E-06	5.00E-04	7.69E-03	No Arrival	0.00E+00	NA	No Limit	No Limit	NA	NA	NA
Aroclor-1254	7.0E+00	10.593	NA	4.03E-06	5.00E-04	1.28E-01	No Arrival	0.00E+00	NA	No Limit	No Limit	NA	NA	NA
Aroclor-1260	7.0E+00	10.593	3.5E-05	NA	5.00E-04	7.21E-01	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Aroclor-1268	7.0E+00	10.593	3.5E-05	NA	5.00E-04	6.22E-02	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Benzo(a)anthracene	2.1E+00	127.758	1.2E-04	NA	NA	2.53E-01	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Benzo(a)pyrene	1.6E+00	327.420	9.0E-06	NA	2.00E-04	1.05E-01	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Benzo(b)fluoranthene	2.7E+00	394.830	9.0E-05	NA	NA	1.79E-01	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Benzo(g,h,i)perylene	3.4E+00	1238.469	NA	2.31E-03	NA	1.14E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Benzo(k)fluoranthene	8.4E+00	394.830	1.4E-03	NA	NA	1.86E-02	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
bis(2-Ethylhexyl)phthalate	5.5E-01	4847.100	1.4E-02	NA	6.00E-03	1.47E-01	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Butylbenzylphthalate	2.5E-01	18.458	NA	5.86E-02	NA	6.79E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Chrysene	3.8E+00	127.758	2.8E-02	NA	NA	2.65E-01	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Decane, 3,4-Dimethyl	NA	NA	NA	NA	NA	1.61E-04	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	3.6E+00	1219.800	4.8E-06	NA	NA	1.14E-02	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Dibenzofuran	4.8E-02	2.491	NA	2.11E-04	NA	3.24E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Dimethyl Disulfide	NA	NA	NA	NA	NA	2.96E-03	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	5.0E-01	10.882	NA	5.47E-03	NA	2.39E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Di-n-octylphthalate	5.2E-01	26707.200	NA	1.19E-04	NA	2.62E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Eicosane	7.2E-02	562000.000	NA	NA	NA	2.83E-03	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Ethyl cyanide	NA	NA	NA	NA	NA	1.88E-05	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
Fluoranthene	1.6E+00	34.347	NA	7.98E-03	NA	7.62E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Fluorene	2.5E-01	4.430	NA	9.08E-03	NA	1.84E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Heptadecane, 2,6,10,15-Tetra	NA	NA	NA	NA	NA	3.44E-03	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	8.4E+00	17.655	9.5E-05	NA	1.00E-03	1.14E-02	No Arrival	0.00E+00	No Limit	NA	No Limit	No Limit	No Limit	No Limit
Hexachlorobutadiene	5.3E-01	17.238	NA	8.14E-05	NA	2.07E-02	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Hexachlorocyclopentadiene	3.3E-01	64.200	NA	2.20E-03	5.00E-02	1.14E-02	No Arrival	0.00E+00	NA	No Limit	No Limit	NA	NA	NA
Indeno(1,2,3-cd)pyrene	8.7E-02	1113.870	6.4E-05	NA	NA	1.14E-02	No Arrival	0.00E+00	No Limit	NA	NA	No Limit	No Limit	No Limit
Kepone	1.4E+00	17.655	NA	NA	NA	9.92E-02	No Arrival	0.00E+00	NA	NA	NA	NA	NA	NA
Octane,2,3,7-Trimethyl	NA	NA	NA	NA	NA	1.61E-04	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
o-Toluenesulfonamide	NA	NA	NA	NA	NA	5.06E-03	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
p-Toluenesulfonamide	NA	NA	NA	NA	NA	5.06E-03	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
Pyrene	5.8E+00	33.705	NA	6.26E-03	NA	2.53E-01	No Arrival	0.00E+00	NA	No Limit	NA	NA	NA	NA
Tributylphosphate	1.2E+00	NA	NA	NA	NA	3.64E-01	17.7174	8.0336E-19	NA	NA	NA	NA	NA	NA
Undecane,4,6-Dimethyl-	NA	NA	NA	NA	NA	1.61E-04	3772.29	0.008043137	NA	NA	NA	NA	NA	NA
Aluminum	NA	66	NA	3.31E-01	5.00E-02	7.08E+03	580000	1.41E-05	NA	2.34E+04	3.54E+03	NA	NA	NA
Antimony	NA	14.400	NA	1.31E-04	6.00E-03	5.83E+00	380000	5.37E-05	NA	2.44E+00	1.12E+02	NA	NA	NA
Barium	NA	13.200	NA	2.26E-02	2.00E+00	1.79E+02	380000	5.37E-05	NA	4.21E+02	3.72E+04	NA	NA	NA
Beryllium	NA	72.300	NA	5.25E-04	4.00E-03	2.87E-01	580000	1.41E-05	NA	3.72E+01	2.83E+02	NA	NA	NA
Cadmium	NA	4.908	NA	1.60E-04	5.00E-03	3.59E+00	380000	5.37E-05	NA	2.97E+00	9.31E+01	NA	NA	NA
Chromium	NA	16.740	NA	NA	0.1	4.12E+01	380000	5.37E-05	NA	NA	1.86E+03	NA	NA	NA
Cobalt	NA	5.880	NA	1.98E-02	NA	6.04E+00	380000	5.37E-05	NA	3.69E+02	NA	NA	NA	NA
Copper	NA	5.280	NA	1.23E-02	1.00E+00	2.99E+01	380000	5.37E-05	NA	2.29E+02	1.86E+04	NA	NA	NA
Dysprosium	NA	63.360	NA	NA	NA	5.93E+01	580000	1.41E-05	NA	NA	NA	NA	NA	NA
Iron	NA	57.750	NA	9.92E-02	3.00E-01	1.02E+04	580000	1.41E-05	NA	7.03E+03	2.13E+04	NA	NA	NA
Lead	NA	30.060	NA	NA	1.50E-02	5.76E+01	580000	1.41E-05	NA	NA	1.06E+03	NA	NA	NA
Manganese	NA	13.980	NA	7.71E-03	5.00E-02	2.07E+02	380000	5.37E-05	NA	1.44E+02	9.31E+02	NA	NA	NA

Table B-2. 0.001 mpyr

Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
3-Methyl Butanal	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Anthracene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Aramite	5.75E-07	1.66E+02	7.93E-11	1.66E+02	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit
Aroclor-1254	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit
Aroclor-1260	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Aroclor-1268	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Benzo(a)anthracene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Benzo(b)fluoranthene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Benzo(k)fluoranthene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Butylbenzylphthalate	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Chrysene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Decane, 3,4-Dimethyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Dimethyl Disulfide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Di-n-octylphthalate	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Eicosane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Fluorene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Heptadecane, 2,6,10,15-Tetra	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	No Limit	No Limit
Hexachlorobutadiene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit
Indeno(1,2,3-cd)pyrene	No Limit	No Limit	No Limit	No Limit	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane,2,3,7-Trimethyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Toluenesulfonamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Toluenesulfonamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	NA	NA
Tributylphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Undecane,4,6-Dimethyl-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	6.58E+04	3.02E-01	6.58E+04	3.54E+03	3.54E+03
Antimony	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	6.84E+00	2.39E+00	6.84E+00	1.12E+02	1.12E+02
Barium	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.18E+03	4.27E-01	1.18E+03	3.72E+04	3.72E+04
Beryllium	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.04E+02	7.72E-03	1.04E+02	2.83E+02	2.83E+02
Cadmium	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	8.35E+00	1.21E+00	8.35E+00	9.31E+01	9.31E+01
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.86E+03	1.86E+03
Cobalt	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.04E+03	1.63E-02	1.04E+03	NA	NA
Copper	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	6.42E+02	1.31E-01	6.42E+02	1.86E+04	1.86E+04
Dysprosium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.97E+04	1.46E+00	1.97E+04	2.13E+04	2.13E+04
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.06E+03	1.06E+03
Manganese	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	4.03E+02	1.44E+00	4.03E+02	9.31E+02	9.31E+02

Table B-2. 0.001 mpyr

Constituent	Half-Life	Vadose Zone Weighted Average K_d	Carcinogenic 10^{-4} Preliminary RBC	Non-carcinogenic HI=1 Preliminary RBC	MCL	Design Inventory	Arrival Time of Peak Concentration	Simulated Long Term Groundwater Contaminant Peak Concentration (Dilution/ Attenuation Factor)	Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic RBC-based Waste Soil Concentration	MCL-based Waste Soil Concentration	Carcinogenic RBC based Waste Soil Concentration	Fractional Carcinogenic Risk at Preliminary RBC	Available Carcinogenic Risk to be Added (Redistributed) to Preliminary Risk
	(yr)	(mL/g)	pCi/L or mg/L	mg/L	pCi/L or mg/L	Ci/kg or mg/kg	years	kg/L	pCi/kg or mg/kg	mg/kg	pCi/kg or mg/kg	Ci/kg or mg/kg		
Mercury	NA	30.060	NA	9.68E-05	2.00E-03	9.45E+00	580000	1.41E-05	NA	6.86E+00	1.42E+02	NA	NA	NA
Molybdenum	NA	3.120	NA	1.65E-03	NA	1.02E+01	100000	1.65E-04	NA	1.00E+01	NA	NA	NA	NA
Nickel	NA	29.700	NA	6.33E-03	NA	1.97E+01	580000	1.41E-05	NA	4.49E+02	NA	NA	NA	NA
Potassium	NA	4.320	NA	NA	NA	1.13E+03	100000	1.65E-04	NA	NA	NA	NA	NA	NA
Selenium	NA	5.472	NA	1.65E-03	5.00E-02	8.46E-01	380000	5.37E-05	NA	3.08E+01	9.31E+02	NA	NA	NA
Silver	NA	24.300	NA	1.58E-03	0.1	9.84E+00	580000	1.41E-05	NA	1.12E+02	7.09E+03	NA	NA	NA
Sodium	NA	20.064	NA	NA	NA	2.11E+02	580000	1.41E-05	NA	NA	NA	NA	NA	NA
Strontium	NA	4.524	NA	1.98E-01	NA	1.82E+01	380000	5.37E-05	NA	3.69E+03	NA	NA	NA	NA
Terbium	NA	63.360	NA	NA	NA	5.73E+02	580000	1.41E-05	NA	NA	NA	NA	NA	NA
Thallium	NA	26.400	NA	2.18E-05	2.00E-02	3.70E-01	580000	1.41E-05	NA	1.55E+00	1.42E+03	NA	NA	NA
Ytterbium	NA	63.360	NA	NA	NA	1.95E+02	580000	1.41E-05	NA	NA	NA	NA	NA	NA
Zinc	NA	18.528	NA	9.92E-02	5.00E+00	2.08E+02	580000	1.41E-05	NA	7.03E+03	3.54E+05	NA	NA	NA
Zirconium	NA	174.600	NA	NA	NA	6.91E+01	1000000	1.03E-07	NA	NA	NA	NA	NA	NA

NA= Not available

a. Water ingestion slope factor values taken from slope factor document. http://www.epa.gov/radiation/heast/

b. Radioactive half-lives taken from slope factor document. All values converted to years. http://www.epa.gov/radiation/heast/

c. Radioactive half-lives from CRC Handbook of Chemistry and Physics, "Table of Isotopes", CRC Press, 77th Edition, 1996-1997. All values converted to years.

d. Atomic masses from CRC Handbook of Chemistry and Physics, "Table of Isotopes", CRC Press, 77th Edition, 1996-1997.

e. EPA guidance recommends using a default Kp of $1x10^3$ cm/hr for inorganic compounds unless otherwise noted. Source: Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual, Supplemental Guidance, Dermal Risk Assessment, Interim Guidance, EPA, November 6, 1998..

f. Modified design inventory with analytical data - radionuclides (revision 1)

Table B-2. 0.001 mpyr

Constituent	Adjusted Fractional Carcinogenic Risk	Adjusted Carcinogenic RBC based Waste Soil Concentration	Carcinogenic Risk at Design Inventory	Is the Adjusted Carcinogenic RBC based Waste Soil Concentration greater than unity? If so, "No Limit"	Non-Carcinogenic Hazard Index at Preliminary RBC	Available Non-carcinogenic Fractional Hazard Index to be Added (Redistributed) to Preliminary Hazard Index	Adjusted Non-carcinogenic Fractional Hazard Index	Adjusted Non-Carcinogenic RBC based Waste Soil Concentration	Non-carcinogenic HI at DI	Is the Adjusted Non-Carcinogenic RBC-based Waste Soil Concentration greater than unity? If so, then "No Limit"	MCL-based Waste Soil Concentration	Is the MCL-based Waste Soil Concentration greater than unity? If so, then "No Limit"
		Ci/kg or mg/kg						mg/kg			Ci/kg or mg/kg	
Mercury	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.93E+01	1.38E+00	1.93E+01	1.42E+02	1.42E+02
Molybdenum	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	2.82E+01	1.01E+00	2.82E+01	NA	NA
Nickel	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.26E+03	4.38E-02	1.26E+03	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	8.64E+01	2.75E-02	8.64E+01	9.31E+02	9.31E+02
Silver	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	3.15E+02	8.77E-02	3.15E+02	7.09E+03	7.09E+03
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.04E+04	4.93E-03	1.04E+04	NA	NA
Terbium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	4.34E+00	2.39E-01	4.34E+00	1.42E+03	1.42E+03
Ytterbium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	1.15E-02	2.08E-02	3.23E-02	1.97E+04	2.96E-02	1.97E+04	3.54E+05	3.54E+05
Zirconium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NA= Not available
a. Water ingestion slope factor
b. Radioactive half-lives taken
c. Radioactive half-lives from C
d. Atomic masses from CRC H
e. EPA guidance recommends
f. Modified design inventory wi