

Table 54. (continued).

COPC	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Am-241	7.38E-06	----	1.30E-05	----	----	----	----	----	----	----	7.53E-05	----
Co-60	1.05E-07	----	1.64E-03	----	----	----	----	----	----	----	----	----
Cs-134	3.37E-08	----	----	----	----	----	----	----	----	----	2.49E-04	----
Cs-137	1.43E-02	----	1.43E-04	----	----	----	----	----	----	----	2.49E-04	----
Eu-152	2.40E-07	----	----	----	----	----	----	----	----	----	----	----
Eu-154	8.59E-08	----	----	----	----	----	----	----	----	----	----	----
Np-237	----	----	----	----	----	----	----	----	----	----	----	----
Pu-238	----	----	1.34E-05	----	----	----	----	----	----	----	3.90E-05	----
Pu-239/240	1.91E-06	----	----	----	----	----	----	----	----	----	----	----
Ra-226	1.79E-03	----	----	----	----	----	----	----	----	----	----	----
Sr-90	1.23E-02	----	----	----	----	----	----	----	----	----	----	----
Tc-99	----	----	----	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----	----	2.99E-21	----
Th-230	7.47E-04	----	----	----	----	----	----	----	----	----	3.22E-04	----
Th-232	----	----	----	----	----	----	----	----	----	----	1.52E-04	----
U-234	----	----	7.82E-05	----	----	----	----	----	----	----	1.68E-03	----
U-235	6.11E-05	----	----	----	----	----	----	----	----	----	1.36E-03	----
U-238	----	----	7.36E-05	----	----	----	----	----	----	----	1.48E-03	----

Note: "----" = not applicable.

Table B-55. Intakes (noncarcinogenic)—future worker at year 100, ingestion of soil (mg/kg-day).

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Aroclor-1242	----	----	---	----	---	----	---	----	---	----	---	----	---	----
Aroclor-1254	----	----	----	----	---	----	---	----	---	----	---	----	---	6.36E-06
Bis(2-ethylhexyl)phthalate	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Diethylphthalate	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Diethylether	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Methylmethacrylate	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Antimony	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Arsenic	1.08E-05	----	----	----	---	----	---	----	---	----	---	----	3.29E-06	----
Barium	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Cadmium	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Chromium(III)	----	----	----	----	2.29E-04	----	---	----	---	----	---	----	---	----
Chromium(VI)	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Cobalt	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Copper	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Lead	1.24E-05	----	----	----	7.73E-05	----	---	----	---	----	1.57E-05	----	8.90E-06	2.10E-05
Manganese	----	----	----	----	1.87E-04	----	---	----	---	----	---	----	1.91E-04	----
Mercury	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Nickel	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Selenium	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Silver	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Thallium	1.82E-05	----	----	----	---	----	---	----	---	----	---	----	---	----
Vanadium	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Zinc	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Chloride	----	----	----	----	---	6.26E-07	----	----	---	----	---	----	---	----
Orthophosphate	----	----	----	----	---	----	---	----	---	----	---	----	---	----
Sulfate	----	----	----	----	---	2.91E-06	----	----	---	----	---	----	---	----

Note: "----" = not applicable.

Table B-56. Intake (noncarcinogenic)—future worker at year 100, inhalation (mg/kg-day).

COPC	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Aroclor-1242	----	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	----	----	----	----	8.12E-09	----
Bis(2-ethylhexyl)phthalate	----	0.00E+00	----	0.00E+00	----	0.00E+00	----	0.00E+00	----	0.00E+00	----	0.00E+00
Diethylphthalate	----	----	----	----	----	----	----	----	----	----	----	----
Diethylether	----	----	----	----	----	----	----	----	----	----	----	----
Methylmethacrylate	----	0.00E+00	----	0.00E+00	----	0.00E+00	----	0.00E+00	----	0.00E+00	----	0.00E+00
Antimony	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	2.99E-10	----	----	----	----	----	----	----	----	----	1.04E-09	----
Barium	----	----	----	----	----	----	----	----	----	----	----	----
Cadmium	----	----	----	----	----	----	----	----	----	----	----	----
Chromium(III)	----	----	4.78E-08	----	----	----	----	----	----	----	----	----
Chromium(VI)	----	----	----	----	----	----	----	----	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----	----	----	----
Copper	----	----	----	----	----	----	----	----	----	----	----	----
Lead	3.43E-10	----	1.61E-08	----	----	----	2.49E-08	----	----	----	2.97E-08	----
Manganese	----	----	3.90E-08	----	----	----	----	----	----	----	6.07E-08	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----
Nickel	----	----	----	----	----	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----	----	----	----
Silver	----	----	----	----	----	----	----	----	----	----	----	----
Thallium	5.05E-10	----	----	----	----	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----	----	----	----
Chloride	3.56E-13	----	----	----	----	----	----	----	----	----	----	----
Orthophosphate	----	----	----	----	----	----	----	----	----	----	----	----
Sulfate	1.65E-12	----	----	----	----	----	----	----	----	----	----	----

Note: "----" = not applicable..

Table B-57. Intakes (carcinogenic)—future resident at year 100, ingestion of soil (mg/kgXday or pCi).

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Aroclor-1242	----	----	2.69E-06	----	----	----	----	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	----	----	----	----	----	----	----	1.95E-05
Bis(2-ethylhexyl)phthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Diethylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Diethylether	----	----	6.14E-09	----	----	----	----	----	----	----	----	----	----	----
Methylmethacrylate	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Antimony	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	3.31E-05	5.34E-06	1.06E-05	----	----	----	----	----	----	----	----	----	1.21E-05	1.15E-05
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cadmium	----	----	1.95E-05	----	----	----	----	----	----	----	----	----	----	----
Chromium(III)	----	----	3.16E-04	----	2.59E-04	----	----	----	----	----	----	----	----	----
Chromium(VI)	----	----	3.16E-04	----	2.59E-04	----	----	----	----	----	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Copper	----	----	5.05E-04	----	----	----	----	----	----	----	----	----	----	----
Lead	4.13E-05	----	1.75E-04	----	8.11E-05	----	----	----	----	----	4.79E-05	----	2.10E-05	3.56E-05
Manganese	----	----	----	----	5.45E-04	----	----	----	----	----	----	----	4.58E-04	----
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Nickel	----	----	6.95E-04	----	----	----	----	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Silver	----	----	9.76E-05	----	----	----	----	----	----	----	----	----	----	----
Thallium	5.36E-05	----	----	----	----	----	----	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chloride	----	----	----	----	----	1.92E-07	----	----	----	----	----	2.19E-06	----	----
Orthophosphate	----	----	----	----	----	----	----	----	----	----	----	2.32E-06	----	----
Sulfate	----	----	----	----	----	8.91E-07	----	----	----	----	----	4.36E-06	----	----
Ag-108m	----	----	1.55E+01	----	1.40E+04	1.00E+01	----	----	----	----	----	----	----	----
Am-241	5.26E+01	----	2.88E+02	----	3.59E+02	----	4.77E+00	----	----	----	----	----	5.57E+02	----
Co-60	----	----	5.82E-03	----	4.79E-03	7.59E-05	----	----	----	4.37E-05	----	7.53E-04	----	----

Table B-57. (continued).

COPC	ARA-02		ARA-02	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
	ARA-01	Soils	Seepage Pit											
Cs-134	----	----	1.23E-14	----	----	1.55E-14	----	----	----	----	----	----	----	----
Cs-137	1.40E+02	----	1.38E+03	4.75E+02	7.68E+01	2.92E+03	3.75E+02	----	4.82E+02	4.28E+02	----	2.63E+02	6.55E+01	7.06E+02
Eu-152	----	----	6.48E+00	----	----	5.33E-01	----	----	----	----	----	----	----	----
Eu-154	----	----	3.89E-02	----	----	8.87E-03	----	----	----	----	----	----	----	----
Np-237	----	----	8.97E+01	----	----	----	----	----	----	----	----	----	----	----
Pu-238	3.74E+00	----	1.67E+01	----	7.13E+01	----	----	5.09E+00	----	4.59E+02	----	----	2.71E+02	5.60E+00
Pu-239/240	1.62E+02	----	4.63E+02	----	----	----	----	----	----	----	----	----	2.94E+02	----
Ra-226	3.69E+03	2.05E+03	1.15E+04	----	----	1.99E+03	7.24E+02	----	----	----	----	----	----	----
Sr-90	3.40E+01	5.39E+02	1.71E+03	----	----	1.75E+03	2.36E+02	----	----	2.54E+01	----	----	----	----
Tc-99	----	----	7.65E+03	----	----	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----	----	----	----	1.73E-12	----
Th-230	----	----	5.16E+02	----	----	----	3.52E+02	----	----	----	----	----	3.10E+03	----
Th-232	----	----	----	----	----	----	----	----	----	----	----	----	2.44E+03	----
U-234	----	1.14E+03	1.59E+05	----	1.28E+03	----	----	----	----	4.53E+03	----	8.21E+02	3.02E+03	4.28E+03
U-235	5.38E+01	4.76E+01	1.51E+04	----	----	----	1.88E+01	----	----	2.77E+02	----	3.78E+01	----	4.28E+03
U-238	----	----	2.44E+04	----	1.34E+03	----	----	----	----	3.40E+02	----	7.36E+02	2.03E+03	4.28E+03

Note: "----" = not applicable.

Table B-58. Intakes (carcinogenic)—future resident at year 100, ingestion of homegrown produce (mg/kg-day or pCi).

COPC	ARA-02			ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
	ARA-01	Soils	Seepage Pit											
Aroclor-1242	5.62E-13	5.62E-13	4.56E-06	5.62E-13	----	5.62E-13	5.62E-13	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	----	----	----	----	----	----	7.03E-12	1.25E-05
Bis(2-ethylhexyl)phthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Diethylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Diethylether	4.20E-11	4.20E-11	2.21E-08	4.20E-11	----	4.20E-11	4.20E-11	----	----	----	----	----	----	----
Methylmethacrylate	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Antimony	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	3.75E-06	6.10E-07	1.21E-06	4.52E-09	----	4.52E-09	4.52E-09	----	----	----	----	----	1.42E-06	1.35E-06
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Cadmium	4.56E-09	4.56E-09	5.81E-05	4.56E-09	----	4.56E-09	4.56E-09	----	----	----	----	----	----	----
Chromium(III)	1.65E-10	1.65E-10	4.04E-07	1.65E-10	3.43E-07	1.65E-10	1.65E-10	1.22E-08	----	----	----	----	----	----
Chromium(VI)	1.65E-10	1.65E-10	4.04E-07	1.65E-10	3.43E-07	1.65E-10	1.65E-10	1.22E-08	----	----	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Copper	1.43E-07	1.43E-07	6.98E-03	1.43E-07	----	1.43E-07	1.43E-07	----	----	----	----	----	----	----
Lead	4.16E-05	1.44E-09	1.76E-04	1.44E-09	8.17E-05	1.44E-09	1.44E-09	2.23E-08	----	----	4.83E-05	----	2.11E-05	3.59E-05
Manganese	----	----	----	----	3.71E-02	----	----	2.25E-05	----	----	----	----	3.12E-02	4.55E-05
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Nickel	6.36E-09	6.36E-09	2.10E-03	6.36E-09	----	6.36E-09	6.36E-09	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Silver	2.09E-11	2.09E-11	6.13E-06	2.09E-11	----	2.09E-11	2.09E-11	----	----	----	----	----	----	----
Thallium	5.22E-08	7.03E-10	7.03E-10	7.03E-10	----	7.03E-10	7.03E-10	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chloride	6.43E-11	6.43E-11	6.43E-11	6.43E-11	----	4.61E-08	6.43E-11	----	----	----	----	5.46E-07	----	----
Orthophosphate	----	----	----	----	----	----	----	----	----	----	----	5.80E-07	----	----
Sulfate	2.98E-10	2.98E-10	2.98E-10	2.98E-10	----	2.14E-07	2.98E-10	----	----	----	----	1.09E-06	----	----
Ag-108m	7.26E-10	7.26E-10	4.60E-02	7.26E-10	4.16E+01	2.98E-02	7.26E-10	4.02E-05	----	----	----	----	----	----
Am-241	9.01E-01	3.09E-07	4.93E+00	3.09E-07	6.15E+00	3.09E-07	8.16E-02	9.75E-07	----	----	----	----	9.54E+00	3.63E-06
Co-60	1.73E-05	1.73E-05	1.79E-04	1.73E-05	1.41E-03	1.94E-05	1.73E-05	1.28E-03	9.21E-08	1.31E-06	----	6.79E-05	----	----

Table 58. (continued).

COPC	ARA-02														
	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26	
Cs-134	1.79E-09	1.79E-09	1.79E-09	1.79E-09	----	1.79E-09	1.79E-09	----	----	----	----	----	----	----	
Cs-137	3.56E+01	2.78E-03	3.49E+02	1.21E+02	1.95E+01	7.40E+02	9.52E+01	2.54E-05	1.22E+02	1.08E+02	----	6.68E+01	1.66E+01	1.79E+02	
Eu-152	4.39E-09	4.39E-09	1.61E-02	4.39E-09	----	1.32E-03	4.39E-09	----	----	----	----	----	----	----	
Eu-154	4.04E-10	4.04E-10	6.25E-05	4.04E-10	----	1.43E-05	4.04E-10	----	----	----	----	----	----	----	
Np-237	7.49E-06	7.49E-06	1.30E+02	7.49E-06	----	7.49E-06	7.49E-06	----	----	----	----	----	----	----	
Pu-238	2.53E-02	2.52E-10	1.13E-01	2.52E-10	4.82E-01	2.52E-10	2.52E-10	3.44E-02	1.90E-09	3.10E+00	----	----	1.83E+00	3.79E-02	
Pu-239/240	2.31E+01	6.34E-08	6.60E+01	6.34E-08	----	6.34E-08	6.34E-08	----	----	----	----	----	4.18E+01	2.48E-06	
Ra-226	1.61E+02	8.94E+01	5.01E+02	1.31E-01	----	8.67E+01	3.16E+01	----	----	----	----	----	----	----	
Sr-90	5.28E+01	8.35E+02	2.65E+03	2.55E-01	----	2.70E+03	3.66E+02	----	9.63E-06	3.93E+01	----	----	----	----	
Tc-99	1.68E+01	1.68E+01	8.78E+06	1.68E+01	----	1.68E+01	1.68E+01	----	----	----	----	----	----	----	
Th-228	----	----	----	----	----	----	----	----	----	----	----	----	1.68E-04	1.68E-04	
Th-230	7.42E-03	7.42E-03	1.79E+03	7.42E-03	----	7.42E-03	1.22E+03	----	----	----	----	----	1.07E+04	6.98E-03	
Th-232	----	----	----	----	----	----	----	----	----	----	----	----	8.84E+03	5.65E-03	
U-234	1.73E-03	1.59E+02	2.22E+04	1.73E-03	1.79E+02	1.73E-03	1.73E-03	1.26E-03	3.52E-05	6.33E+02	----	1.15E+02	4.22E+02	5.98E+02	
U-235	7.53E+00	6.66E+00	2.12E+03	----	----	----	2.63E+00	----	2.16E-06	3.88E+01	----	5.29E+00	2.01E-04	5.99E+02	
U-238	5.84E-04	5.84E-04	3.42E+03	5.84E-04	1.87E+02	5.84E-04	5.84E-04	1.32E-03	2.64E-06	4.76E+01	----	1.03E+02	2.84E+02	5.99E+02	

Note: "----" = not applicable.

Table B-59. Intakes (carcinogenic)—future resident at year 100, external radiation exposure (pCi-year/g).

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Ag-108m	----	----	3.53E-01	----	3.19E+02	2.29E-01	----	----	----	----	----	----	----	----
Am-241	1.20E+00	----	6.57E+00	----	8.19E+00	----	1.09E-01	----	----	----	----	----	1.27E+01	----
Co-60	----	----	1.33E-04	----	1.09E-04	1.73E-06	----	----	----	9.97E-07	----	1.72E-05	----	----
Cs-134	----	----	2.80E-16	----	----	3.54E-16	----	----	----	----	----	----	----	----
Cs-137	3.20E+00	----	3.14E+01	1.08E+01	1.75E+00	6.65E+01	8.56E+00	----	1.10E+01	9.75E+00	----	6.00E+00	1.49E+00	1.61E+01
Eu-152	----	----	1.48E-01	----	----	1.22E-02	----	----	----	----	----	----	----	----
Eu-154	----	----	8.86E-04	----	----	2.02E-04	----	----	----	----	----	----	----	----
Np-237	----	----	2.05E+00	----	----	----	----	----	----	----	----	----	----	----
Pu-238	8.54E-02	----	3.80E-01	----	1.63E+00	----	----	1.16E-01	----	1.05E+01	----	----	6.18E+00	1.28E-01
Pu-239/240	3.69E+00	----	1.06E+01	----	----	----	----	----	----	----	----	----	6.70E+00	----
Ra-226	8.42E+01	4.67E+01	2.62E+02	----	----	4.54E+01	1.65E+01	----	----	----	----	----	----	----
Sr-90	7.74E-01	1.23E+01	3.91E+01	----	----	3.98E+01	5.39E+00	----	----	5.79E-01	----	----	----	----
Tc-99	----	----	1.74E+02	----	----	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----	----	----	----	3.95E-14	----
Th-230	----	----	1.18E+01	----	----	----	8.04E+00	----	----	----	----	----	7.06E+01	----
Th-232	----	----	----	----	----	----	----	----	----	----	----	----	5.57E+01	----
U-234	----	2.59E+01	3.62E+03	----	2.93E+01	----	----	----	----	1.03E+02	----	1.87E+01	6.89E+01	9.76E+01
U-235	1.23E+00	1.09E+00	3.45E+02	----	----	----	4.28E-01	----	----	6.32E+00	----	8.62E-01	----	9.77E+01
U-238	----	----	5.57E+02	----	3.05E+01	----	----	----	----	7.76E+00	----	1.68E+01	4.63E+01	9.77E+01

Note: ---- = not applicable.

Table B-60. Intakes (carcinogenic)—future resident at year 100, inhalation. (mg/kg-day or pCi/g).

Contaminant	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Aroclor-1242	1.23E-12	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	1.46E-08	---
Bis(2-ethylhexyl)phthalate	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	2.80E-15	---	---	---	---	---	---	---	---	---	---	---
Methylmethacrylate	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00
Antimony	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	5.50E-10	---	---	---	---	---	---	---	---	---	1.09E-08	---
Barium	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	8.87E-12	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	1.44E-10	---	3.18E-08	---	---	---	---	---	---	---	---	---
Chromium(VI)	1.44E-10	---	3.18E-08	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---
Copper	2.30E-10	---	---	---	---	---	---	---	---	---	---	---
Lead	7.52E-10	---	9.95E-09	---	---	---	4.49E-08	---	---	---	3.07E-08	---
Manganese	---	---	6.68E-08	---	---	---	---	---	---	---	8.55E-08	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	3.17E-10	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---
Silver	4.45E-11	---	---	---	---	---	---	---	---	---	---	---
Thallium	8.72E-10	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	6.40E-14	---	---	---	---	---	---	---	2.05E-09	---	---	---
Orthophosphate	---	---	---	---	---	---	---	---	2.18E-09	---	---	---
Sulfate	2.98E-13	---	---	---	---	---	---	---	4.08E-09	---	---	---
Ag-108m	4.14E-08	---	6.83E-03	---	---	---	---	---	---	---	---	---
Am-241	1.37E-05	---	1.13E-04	---	---	---	---	---	---	---	2.66E-04	---

Table B-60. (continued).

Contaminant	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Co-60	1.18E-05	---	2.59E-03	---	6.02E-06	---	---	---	3.11E-03	---	---	---
Cs-134	9.50E-08	---	---	---	---	---	---	---	---	---	---	---
Cs-137	1.02E-02	---	2.75E-04	---	1.31E-02	---	---	---	7.20E-03	---	1.58E-02	---
Eu-152	2.12E-06	---	---	---	---	---	---	---	---	---	---	---
Eu-154	3.02E-07	---	---	---	---	---	---	---	---	---	---	---
Np-237	8.69E-08	---	---	---	---	---	---	---	---	---	---	---
Pu-238	3.60E-07	---	6.78E-05	---	7.52E-05	---	---	---	---	---	2.88E-04	---
Pu-239/240	6.07E-06	---	---	---	---	---	---	---	---	---	1.17E-04	---
Ra-226	1.64E-03	---	---	---	---	---	---	---	---	---	---	---
Sr-90	7.42E-03	---	---	---	2.67E-05	---	---	---	---	---	---	---
Tc-99	7.41E-06	---	---	---	---	---	---	---	---	---	---	---
Th-228	---	---	---	---	---	---	---	---	---	---	6.86E-19	---
Th-230	6.89E-04	---	---	---	---	---	---	---	---	---	1.23E-03	---
Th-232	---	---	---	---	---	---	---	---	---	---	9.69E-04	---
U-234	1.57E-04	---	3.35E-04	---	3.01E-04	---	---	---	1.64E-03	---	8.03E-03	---
U-235	5.33E-05	---	---	---	1.84E-05	---	---	---	7.53E-05	---	6.84E-03	---
U-238	2.37E-05	---	3.48E-04	---	2.26E-05	---	---	---	1.47E-03	---	7.64E-03	---

Table B-61. Intakes (carcinogenic)—future resident at year 100, groundwater use, Groups 1, 2, and 3 (mg/kg-day).

COPC	Group 1			Group 2			Group 3		
	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation
Aroclor-1242	9.78E-11	----	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	----	----	----
Bis(2-ethylhexyl)phthalate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Diethylphthalate	----	----	----	----	----	----	----	----	----
Diethylether	1.21E-09	----	----	----	----	----	----	----	----
Methylmethacrylate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Antimony	----	----	----	----	----	----	----	----	----
Arsenic	4.25E-06	9.03E-09	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----
Cadmium	1.69E-07	3.59E-10	----	----	----	----	----	----	----
Chromium(III)	1.35E-05	2.87E-08	----	9.93E-04	2.11E-06	----	----	----	----
Chromium(VI)	1.35E-05	2.87E-08	----	9.93E-04	2.11E-06	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----
Copper	1.36E-06	2.89E-09	----	----	----	----	----	----	----
Lead	2.56E-07	5.44E-10	----	3.97E-06	8.43E-09	----	----	----	----
Manganese	----	----	----	5.32E-05	1.13E-07	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----
Nickel	3.77E-07	8.01E-10	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----
Silver	5.87E-08	1.25E-10	----	----	----	----	----	----	----
Thallium	7.54E-05	1.60E-07	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----
Chloride	2.76E-08	----	----	----	----	----	----	----	----
Orthophosphate	----	----	----	----	----	----	----	----	----
Sulfate	1.28E-07	----	----	----	----	----	----	----	----
Ag-108m	5.46E-05	----	----	3.02E+00	----	----	----	----	----
Am-241	4.20E-03	4.99E-12	----	1.33E-02	1.57E-11	----	----	----	----

Table B-61. (continued).

COPC	Group 1			Group 2			Group 3		
	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation
Co-60	1.37E-01	1.63E-10	----	1.01E+01	1.20E-08	----	7.29E-04	8.66E-13	----
Cs-134	2.27E-05	2.69E-14	----	----	----	----	----	----	----
Cs-137	2.42E+00	2.87E-09	----	2.21E-02	2.62E-11	----	3.26E-02	3.87E-11	----
Eu-152	3.89E-04	----	----	----	----	----	----	----	----
Eu-154	5.52E-05	6.56E-14	----	----	----	----	----	----	----
Np-237	1.25E-03	1.49E-12	----	----	----	----	----	----	----
Pu-238	8.30E-06	9.86E-15	----	2.06E-03	2.45E-12	----	6.24E-05	7.41E-14	----
Pu-239/240	1.26E-04	----	----	----	----	----	----	----	----
Ra-226	6.59E+02	7.83E-07	----	----	----	----	----	----	----
Sr-90	3.63E+01	4.32E-08	----	----	----	----	1.37E-03	1.63E-12	----
Tc-99	3.19E+00	3.79E-09	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----
Th-230	8.23E-01	9.78E-10	----	----	----	----	----	----	----
Th-232	----	----	----	----	----	----	----	----	----
U-234	2.94E+00	3.49E-09	----	2.14E+00	2.55E-09	----	5.96E-02	7.09E-11	----
U-235	----	----	----	----	----	----	3.65E-03	4.34E-12	----
U-238	9.87E-01	1.17E-09	----	2.23E+00	2.64E-09	----	4.47E-03	5.31E-12	----

Note: "----" = not applicable.

Table B-62. Intakes (carcinogenic)—future resident at year 100, groundwater use, Groups 4, 5, and 6 (mg/kg-day or pCi).

COPC	Group 4			Group 5			Group 6		
	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation
Aroclor-1242	----	----	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	3.05E-09	4.91E-09	----
Bis(2-ethylhexyl)phthalate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Diethylphthalate	----	----	----	----	----	----	----	----	----
Diethylether	----	----	----	----	----	----	----	----	----
Methylmethacrylate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Antimony	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	4.46E-05	9.48E-08	----
Barium	----	----	----	----	----	----	----	----	----
Cadmium	----	----	----	----	----	----	----	----	----
Chromium(III)	----	----	----	----	----	----	----	----	----
Chromium(VI)	----	----	----	----	----	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----
Copper	----	----	----	----	----	----	----	----	----
Lead	3.56E-06	7.56E-09	----	----	----	----	2.54E-06	5.39E-09	----
Manganese	----	----	----	----	----	----	1.07E-04	2.28E-07	----
Mercury	----	----	----	----	----	----	----	----	----
Nickel	----	----	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----
Silver	----	----	----	----	----	----	----	----	----
Thallium	----	----	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----
Chloride	----	----	----	9.22E-06	----	----	----	----	----
Orthophosphate	----	----	----	9.84E-06	----	----	----	----	----
Sulfate	----	----	----	1.84E-05	----	----	----	----	----
Ag-108m	----	----	----	----	----	----	----	----	----
Am-241	----	----	----	----	----	----	4.94E-02	5.86E-11	----

Table B-62. (continued).

COPC	Group 4			Group 5			Group 6		
	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation
Co-60	----	----	----	3.72E-01	4.42E-10	----	----	----	----
Cs-134	----	----	----	----	----	----	----	----	----
Cs-137	----	----	----	2.46E-02	2.92E-11	----	5.48E-02	6.51E-11	----
Eu-152	----	----	----	----	----	----	----	----	----
Eu-154	----	----	----	----	----	----	----	----	----
Np-237	----	----	----	----	----	----	----	----	----
Pu-238	----	----	----	----	----	----	1.12E-02	1.33E-11	----
Pu-239/240	----	----	----	----	----	----	4.91E-03	----	----
Ra-226	----	----	----	----	----	----	----	----	----
Sr-90	----	----	----	----	----	----	----	----	----
Tc-99	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	2.71E+01	----	----
Th-230	----	----	----	----	----	----	7.75E-01	9.21E-10	----
Th-232	----	----	----	----	----	----	6.11E-01	----	----
U-234	----	----	----	3.21E-01	3.82E-10	----	1.24E+01	1.48E-08	----
U-235	----	----	----	1.47E-02	1.75E-11	----	3.40E-01	4.04E-10	----
U-238	----	----	----	2.86E-01	3.39E-10	----	8.42E+00	1.00E-08	----

Note: "----" = not applicable.

Table B-63. Intakes (noncarcinogenic)—future resident at year 100, ingestion of soil (mg/kg-day).

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Aroclor-1242	---	---	6.29E-06	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	---	---	---	4.54E-05
Bis(2-ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	---	---	1.43E-08	---	---	---	---	---	---	---	---	---	---	---
Methylmethacrylate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Antimony	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	7.72E-05	1.25E-05	2.48E-05	---	---	---	---	---	---	---	---	---	2.83E-05	2.69E-05
Barium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	---	---	4.54E-05	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	---	---	7.37E-04	---	6.04E-04	---	---	---	---	---	---	---	---	---
Chromium(VI)	---	---	7.37E-04	---	6.04E-04	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper	---	---	1.18E-03	---	---	---	---	---	---	---	---	---	---	---
Lead	9.64E-05	---	4.09E-04	---	1.89E-04	---	---	---	---	---	1.12E-04	---	4.89E-05	8.31E-05
Manganese	---	---	---	---	1.27E-03	---	---	---	---	---	---	---	1.07E-03	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	1.62E-03	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	---	---	2.28E-04	---	---	---	---	---	---	---	---	---	---	---
Thallium	1.25E-04	---	---	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	---	---	---	---	---	4.47E-07	---	---	---	---	---	5.10E-06	---	---
Orthophosphate	---	---	---	---	---	---	---	---	---	---	---	5.41E-06	---	---
Sulfate	---	---	---	---	---	2.08E-06	---	---	---	---	---	1.02E-05	---	---

Note: "—" = not applicable.

Table B-64. Intakes (noncarcinogenic)—future resident at year 100, ingestion of homegrown produce (mg/kg-day).

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Aroclor-1242	1.31E-12	1.31E-12	1.06E-05	1.31E-12	---	1.31E-12	1.31E-12	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	---	---	1.64E-11	2.91E-05
Bis(2-ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	9.78E-11	9.78E-11	5.14E-08	9.78E-11	---	9.78E-11	9.78E-11	---	---	---	---	---	---	---
Methylmethacrylate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Antimony	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	8.73E-06	1.42E-06	2.81E-06	1.05E-08	---	1.05E-08	1.05E-08	---	---	---	---	---	3.31E-06	3.15E-06
Barium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	1.06E-08	1.06E-08	1.35E-04	1.06E-08	---	1.06E-08	1.06E-08	---	---	---	---	---	---	---
Chromium(III)	3.85E-10	3.85E-10	9.39E-07	3.85E-10	7.98E-07	3.85E-10	3.85E-10	2.83E-08	---	---	---	---	---	---
Chromium(VI)	3.85E-10	3.85E-10	9.39E-07	3.85E-10	7.98E-07	3.85E-10	3.85E-10	2.83E-08	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper	3.34E-07	3.34E-07	1.62E-02	3.34E-07	---	3.34E-07	3.34E-07	---	---	---	---	---	---	---
Lead	9.68E-05	3.35E-09	4.10E-04	3.35E-09	1.90E-04	3.35E-09	3.35E-09	5.19E-08	---	---	1.12E-04	---	4.91E-05	8.35E-05
Manganese	---	---	---	---	8.63E-02	---	---	5.24E-05	---	---	---	---	7.26E-02	1.06E-04
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	1.48E-08	1.48E-08	4.88E-03	1.48E-08	---	1.48E-08	1.48E-08	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	4.86E-11	4.86E-11	1.43E-05	4.86E-11	---	4.86E-11	4.86E-11	---	---	---	---	---	---	---
Thallium	1.21E-07	1.64E-09	1.64E-09	1.64E-09	---	1.64E-09	1.64E-09	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	1.50E-10	1.50E-10	1.50E-10	1.50E-10	---	1.07E-07	1.50E-10	---	---	---	---	1.27E-06	---	---
Orthophosphate	---	---	---	---	---	---	---	---	---	---	---	1.35E-06	---	---
Sulfate	6.95E-10	6.95E-10	6.95E-10	6.95E-10	---	4.98E-07	6.95E-10	---	---	---	---	2.53E-06	---	---

Note: "—" = not applicable.

Table B-65. Intakes (noncarcinogenic)—future resident at year 100, inhalation (mg/kg-day).

COPC	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Aroclor-1242	6.82E-13	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	8.12E-09	---
Bis(2-ethylhexyl)phthalate	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	1.55E-15	---	---	---	---	---	---	---	---	---	---	---
Methylmethacrylate	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00	---	0.00E+00
Antimony	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	3.05E-10	---	---	---	---	---	---	---	---	---	6.07E-09	---
Barium	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	4.93E-12	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	8.00E-11	---	1.76E-08	---	---	---	---	---	---	---	---	---
Chromium(VI)	8.00E-11	---	1.76E-08	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---
Copper	1.28E-10	---	---	---	---	---	---	---	---	---	---	---
Lead	4.18E-10	---	5.53E-09	---	---	---	2.49E-08	---	---	---	1.70E-08	---
Manganese	---	---	3.71E-08	---	---	---	---	---	---	---	4.75E-08	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	1.76E-10	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---
Silver	2.47E-11	---	---	---	---	---	---	---	---	---	---	---
Thallium	4.85E-10	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	3.56E-14	---	---	---	---	---	---	---	1.14E-09	---	---	---
Orthophosphate	---	---	---	---	---	---	---	---	1.21E-09	---	---	---
Sulfate	1.29E-14	---	2.12E-09	---	---	---	---	---	---	---	---	---

Note: "—" = not applicable.

Table B-66. Intakes (noncarcinogenic)—future resident at year 100, groundwater use, Groups 1, 2, and 3 (mg/kg-day).

COPC	Group 1			Group 2			Group 3		
	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation
Aroclor-1242	2.28E-10	2.91E-11	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	----	----	----
Bis(2-ethylhexyl)phthalate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Diethylphthalate	----	----	----	----	----	----	----	----	----
Diethylether	2.82E-09	6.00E-10	----	----	----	----	----	----	----
Methylmethacrylate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Antimony	----	----	----	----	----	----	----	----	----
Arsenic	9.92E-06	6.32E-07	----	----	----	----	----	----	----
Barium	----	----	----	----	----	----	----	----	----
Cadmium	3.95E-07	8.38E-09	----	----	----	----	----	----	----
Chromium(III)	3.15E-05	6.70E-07	----	2.32E-03	4.93E-05	----	----	----	----
Chromium(VI)	3.15E-05	6.70E-07	----	2.32E-03	4.93E-05	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----
Copper	3.18E-06	6.75E-08	----	----	----	----	----	----	----
Lead	5.97E-07	1.27E-08	----	9.26E-06	1.97E-07	----	----	----	----
Manganese	----	----	----	1.24E-04	2.64E-06	----	----	----	----
Mercury	----	----	----	----	----	----	----	----	----
Nickel	8.79E-07	1.87E-08	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----
Silver	1.37E-07	2.91E-09	----	----	----	----	----	----	----
Thallium	1.76E-04	3.74E-06	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----
Chloride	6.44E-08	1.37E-08	----	----	----	----	----	----	----
Orthophosphate	----	----	----	----	----	----	----	----	----
Sulfate	2.99E-07	6.35E-08	----	----	----	----	----	----	----

Note: "----" = not applicable.

Table B-67. Intakes (noncarcinogenic)—future resident at year 100, groundwater use, Groups 4, 5, and 6.

COPC	Group 4			Group 5			Group 6		
	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation	Ingestion	Dermal Absorption	Volatile Inhalation
Aroclor-1242	----	----	----	----	----	----	----	----	----
Aroclor-1254	----	----	----	----	----	----	7.12E-09	1.48E-11	----
Bis(2-ethylhexyl)phthalate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Diethylphthalate	----	----	----	----	----	----	----	----	----
Diethylether	----	----	----	----	----	----	----	----	----
Methylmethacrylate	----	----	0.00E+00	----	----	0.00E+00	----	----	0.00E+00
Antimony	----	----	----	----	----	----	----	----	----
Arsenic	----	----	----	----	----	----	1.04E-04	6.64E-06	----
Barium	----	----	----	----	----	----	----	----	----
Cadmium	----	----	----	----	----	----	----	----	----
Chromium(III)	----	----	----	----	----	----	----	----	----
Chromium(VI)	----	----	----	----	----	----	----	----	----
Cobalt	----	----	----	----	----	----	----	----	----
Copper	----	----	----	----	----	----	----	----	----
Lead	8.30E-06	1.76E-07	----	----	----	----	5.92E-06	1.26E-07	----
Manganese	----	----	----	----	----	----	2.51E-04	5.33E-06	----
Mercury	----	----	----	----	----	----	----	----	----
Nickel	----	----	----	----	----	----	----	----	----
Selenium	----	----	----	----	----	----	----	----	----
Silver	----	----	----	----	----	----	----	----	----
Thallium	----	----	----	----	----	----	----	----	----
Vanadium	----	----	----	----	----	----	----	----	----
Zinc	----	----	----	----	----	----	----	----	----
Chloride	----	----	----	2.15E-05	4.57E-06	----	----	----	----
Orthophosphate	----	----	----	2.30E-05	4.88E-06	----	----	----	----
Sulfate	----	----	----	4.30E-05	9.14E-06	----	----	----	----

Note: "----" = not applicable.

Table B-68. Risks—current worker at year 0, ingestion of soil.

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Aroclor-1242	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	---	---	---	9E-07
Bis(2-ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methylmethacrylate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Antimony	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	6E-06	---	---	---	---	---	---	---	---	---	---	---	2E-06	---
Barium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	---	---	---	---	NTD	---	---	---	---	---	---	---	---	---
Chromium(VI)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	NTD	---	---	---	NTD	---	---	---	---	---	NTD	---	NTD	NTD
Manganese	---	---	---	---	NTD	---	---	---	---	---	---	---	NTD	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	NTD	---	---	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	---	---	---	---	---	NTD	---	---	---	---	---	---	---	---
Orthophosphate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	---	NTD	---	---	---	---	---	---	---	---
Ag-108m	---	---	---	---	1E-07	3E-10	---	---	---	---	---	---	---	---

Table B-68. (continued).

COPC	ARA-01	ARA-02 Soils	ARA-02 Seepage Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
Am-241	7E-09	----	----	----	2E-08	----	1E-09	----	----	----	----	----	9E-08	----
Co-60	----	----	----	----	4E-08	1E-09	----	----	----	----	----	----	----	----
Cs-134	----	----	----	----	----	3E-10	----	----	----	----	----	----	----	----
Cs-137	1E-08	----	----	----	2E-08	9E-07	2E-07	----	----	----	----	----	1E-08	6E-08
Eu-152	----	----	----	----	----	1E-09	----	----	----	----	----	----	----	----
Eu-154	----	----	----	----	----	6E-10	----	----	----	----	----	----	----	----
Np-237	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Pu-238	----	----	----	----	1E-08	----	----	8E-10	----	----	----	----	8E-08	9E-10
Pu-239/240	2E-08	----	----	----	----	----	----	----	----	----	----	----	----	----
Ra-226	3E-07	----	----	----	----	4E-07	3E-07	----	----	----	----	----	----	----
Sr-90	8E-09	----	----	----	----	1E-06	3E-07	----	----	----	----	----	----	----
Tc-99	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----	----	----	----	1E-08	----
Th-230	----	----	----	----	----	----	2E-08	----	----	----	----	----	4E-08	----
Th-232	----	----	----	----	----	----	----	----	----	----	----	----	2E-08	----
U-234	----	----	----	----	2E-08	----	----	----	----	----	----	----	4E-08	5E-08
U-235	9E-10	----	----	----	----	----	2E-09	----	----	----	----	----	----	5E-08
U-238	----	----	----	----	2E-08	----	----	----	----	----	----	----	2E-08	7E-08
Total risks														
by pathway and site	6E-06	0E+00	0E+00	0E+00	2E-07	2E-06	9E-07	8E-10	0E+00	0E+00	0E+00	0E+00	2E-06	1E-06

Notes:

NTD indicates that toxicity data are not available.

“----” indicates that the contaminant is not a contaminant of potential concern (COPC) in the medium or at the site.

Table B-69. Risks—current worker at year 0, external radiation exposure.

COPC	ARA-02		ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
	Soils	Seepage Pit											
Ag-108m	---	---	---	1E-03	1E-06	---	---	---	---	---	---	---	---
Am-241	1E-09	2E-10	---	1E-08	---	3E-10	---	---	---	---	---	2E-08	---
Co-60	---	---	---	2E-04	4E-06	---	---	---	---	---	---	---	---
Cs-134	---	---	---	---	2E-07	---	---	---	---	---	---	---	---
Cs-137	1E-05	1E-06	5E-05	1E-05	3E-04	9E-05	---	---	---	---	---	8E-06	7E-05
Eu-152	---	---	---	---	4E-06	---	---	---	---	---	---	---	---
Eu-154	---	---	---	---	1E-06	---	---	---	---	---	---	---	---
Np-237	---	---	---	---	---	---	---	---	---	---	---	---	---
Pu-238	7E-13	---	---	1E-11	---	---	1E-12	---	---	---	---	6E-11	1E-12
Pu-239/240	9E-12	---	---	---	---	---	---	---	---	---	---	1E-11	---
Ra-226	1E-04	4E-05	1E-05	---	7E-05	6E-05	---	---	---	---	---	---	---
Sr-90	NTD	---	---	---	NTD	NTD	---	---	---	---	---	---	---
Tc-99	---	---	---	---	---	---	---	---	---	---	---	---	---
Th-228	---	---	---	---	---	---	---	---	---	---	---	1E-06	---
Th-230	---	---	---	---	---	2E-10	---	---	---	---	---	7E-10	---
Th-232	---	---	---	---	---	---	---	---	---	---	---	2E-10	---
U-234	---	4E-11	5E-11	1E-10	---	---	---	---	---	---	---	4E-10	4E-10
U-235	6E-08	4E-08	4E-08	---	---	6E-08	---	---	---	---	---	---	5E-06
U-238	---	---	1E-07	3E-07	---	---	---	---	---	---	---	4E-07	1E-06
Total risks by pathway and site	1E-04	4E-05	1E-05	1E-03	4E-04	2E-04	1E-12	0E+00	0E+00	0E+00	0E+00	1E-05	8E-05

Notes:

NTD indicates that toxicity data are not available.

“---” indicates that the contaminant is not a contaminant of potential concern (COPC) in the medium or at the site.

Table B-70. Risks—current worker at year 0, inhalation.

COPC	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Aroclor-1242	---	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	3E-09	---
Bis(2-ethylhexyl)phthalate	---	NTD	---	NTD	---	NTD	---	NTD	---	NTD	---	NTD
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	---	---	---	---	---	---	---	---	---	---	---	---
Methylmethacrylate	---	NTD	---	NTD	---	NTD	---	NTD	---	NTD	---	NTD
Antimony	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	5E-09	---	---	---	---	---	---	---	---	---	2E-08	---
Barium	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	---	---	3E-07	---	---	---	---	---	---	---	---	---
Chromium(VI)	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---
Copper	---	---	---	---	---	---	---	---	---	---	---	---
Lead	NTD	---	NTD	---	---	---	NTD	---	---	---	NTD	---
Manganese	---	---	NTD	---	---	---	---	---	---	---	NTD	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	NTD	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	NTD	---	---	---	---	---	---	---	---	---	---	---
Orthophosphate	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate	NTD	---	---	---	---	---	---	---	---	---	---	---
Ag-108m	1E-24	---	2E-19	---	---	---	---	---	---	---	---	---
Am-241	2E-19	---	3E-19	---	---	---	---	---	---	---	2E-18	---
Co-60	4E-24	---	6E-20	---	---	---	---	---	---	---	---	---
Cs-134	5E-25	---	---	---	---	---	---	---	---	---	---	---
Cs-137	2E-19	---	2E-21	---	---	---	---	---	---	---	3E-20	---
Eu-152	1E-23	---	---	---	---	---	---	---	---	---	---	---
Eu-154	4E-24	---	---	---	---	---	---	---	---	---	---	---
Np-237	---	---	---	---	---	---	---	---	---	---	---	---

Table B-70. (continued).

COPC	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Pu-238	----	----	2E-19	----	----	----	----	----	----	----	1E-18	----
Pu-239/240	3E-20	----	----	----	----	----	----	----	----	----	----	----
Ra-226	3E-18	----	----	----	----	----	----	----	----	----	----	----
Sr-90	5E-19	----	----	----	----	----	----	----	----	----	----	----
Tc-99	----	----	----	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----	----	9E-19	----
Th-230	7E-18	----	----	----	----	----	----	----	----	----	3E-18	----
Th-232	----	----	----	----	----	----	----	----	----	----	2E-18	----
U-234	----	----	6E-19	----	----	----	----	----	----	----	1E-17	----
U-235	4E-19	----	----	----	----	----	----	----	----	----	1E-17	----
U-238	----	----	5E-19	----	----	----	----	----	----	----	1E-17	----
Total risks by pathway and group	5E-09	0E+00	3E-07	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	2E-08	0E+00

Notes:

NTD indicates that toxicity data are not available.

“----” indicates that the contaminant is not a contaminant of potential concern (COPC) in the medium or at the site.

Table B-71. Risks—current worker at year 0, total risks.

COPC	ARA-02 Seepage														
	ARA-01	ARA-02 Soils	Pit	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26	
Aroclor-1242	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Aroclor-1254	----	----	----	----	----	----	----	----	----	----	----	----	3E-09	2E-05	
Bis(2-ethylhexyl)phthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Diethylphthalate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Diethylether	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Methylmethacrylate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Antimony	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Arsenic	8E-05	5E-09	5E-09	5E-09	----	5E-09	5E-09	----	----	----	----	----	2E-05	2E-08	
Barium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Cadmium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Chromium(III)	----	----	----	----	3E-07	----	----	3E-07	----	----	----	----	----	----	
Chromium(VI)	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Cobalt	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Copper	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Lead	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Manganese	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Mercury	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Nickel	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Selenium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Silver	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Thallium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Vanadium	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Zinc	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Chloride	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Orthophosphate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Sulfate	----	----	----	----	----	----	----	----	----	----	----	----	----	----	
Ag-108m	1E-24	1E-24	1E-24	1E-24	1E-03	1E-06	1E-24	2E-19	----	----	----	----	----	----	
Am-241	9E-09	2E-19	2E-10	2E-19	3E-08	2E-19	2E-09	3E-19	----	----	----	----	1E-07	2E-18	
Co-60	4E-24	4E-24	4E-24	4E-24	2E-04	4E-06	4E-24	6E-20	----	----	----	----	----	----	
Cs-134	5E-25	5E-25	5E-25	5E-25	----	2E-07	5E-25	----	----	----	----	----	----	----	
Cs-137	1E-05	2E-19	1E-06	5E-05	1E-05	3E-04	9E-05	2E-21	----	----	----	----	8E-06	7E-05	
Eu-152	1E-23	1E-23	1E-23	1E-23	----	4E-06	1E-23	----	----	----	----	----	----	----	
Eu-154	4E-24	4E-24	4E-24	4E-24	----	1E-06	4E-24	----	----	----	----	----	----	----	
Np-237	----	----	----	----	----	----	----	----	----	----	----	----	----	----	

Table B-71. (continued).

COPC	ARA-01	ARA-02	ARA-02	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PBF-16	PBF-21	PBF-22	PBF-26
		Soils	Seepage											
Pu-238	7E-13	----	----	----	1E-08	----	----	8E-10	----	----	----	----	8E-08	9E-10
Pu-239/240	2E-08	3E-20	3E-20	3E-20	----	3E-20	3E-20	----	----	----	----	----	1E-11	----
Ra-226	1E-04	4E-05	1E-05	3E-18	----	7E-05	6E-05	----	----	----	----	----	----	----
Sr-90	8E-09	5E-19	5E-19	5E-19	----	1E-06	3E-07	----	----	----	----	----	----	----
Tc-99	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Th-228	----	----	----	----	----	----	----	----	----	----	----	----	1E-06	9E-19
Th-230	7E-18	7E-18	7E-18	7E-18	----	7E-18	2E-08	----	----	----	----	----	4E-08	3E-18
Th-232	----	----	----	----	----	----	----	----	----	----	----	----	2E-08	2E-18
U-234	----	4E-11	5E-11	----	2E-08	----	----	6E-19	----	----	----	----	5E-08	5E-08
U-235	7E-08	4E-08	4E-08	4E-19	----	4E-19	6E-08	----	----	----	----	----	1E-17	5E-06
U-238	----	----	1E-07	----	4E-07	----	----	5E-19	----	----	----	----	4E-07	1E-06
Total risks by site	2E-04	4E-05	1E-05	5E-05	1E-03	4E-04	2E-04	3E-07	0E+00	0E+00	0E+00	0E+00	3E-05	1E-04

Note: "----" indicates that the contaminant is not a contaminant of potential concern (COPC) in the medium or at the site or that toxicity data are not available.

Table B-72. Hazard quotients—current worker at year 0, ingestion of soil.

COPC	ARA-02 Seepage Pit											Total HQ by pathway and site		
	ARA-01	ARA-02 Soils	ARA-03	ARA-12	ARA-16	ARA-23	ARA-24	PBF-10	PBF-12	PF-16	PBF-21		PBF-22	PBF-26
Aroclor-1242	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	---	---	---	3E-01
Bis(2-ethylhexyl)phthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Diethyl ether	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Methyl methacrylate	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Antimony	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	4E-02	---	---	---	---	---	---	---	---	---	---	1E-02	---	---
Barium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium(VI)	---	---	---	2E-04	---	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Copper	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	NTD	---	---	---	---	---	---	---	---	---	---	---	---	---
Manganese	---	---	---	---	---	---	---	---	---	NTD	---	---	---	NTD
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	1E-03
Nickel	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	NTD	---	---	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Orthophosphate	---	---	---	---	NTD	---	---	---	---	---	---	---	---	---
Sulfate	---	---	---	---	NTD	---	---	---	---	---	---	---	---	---
Total HQ by pathway and site	4E-02	0E+00	0E+00	2E-03	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	1E-02	0E+00	3E-01

Notes:

NTD indicates that toxicity data are not available.

"---" indicates that the contaminant is not a contaminant of potential concern (COPC) in the medium or at the site.

Table B-73. Hazard quotients—current worker at year 0, inhalation.

COPC	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6	
	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles	Fugitive Dust	Volatiles
Aroclor-1242	---	---	---	---	---	---	---	---	---	---	---	---
Aroclor-1254	---	---	---	---	---	---	---	---	---	---	NTD	---
Bis(2-ethylhexyl)phthalate	---	NTD	---	NTD	---	NTD	---	NTD	---	---	---	NTD
Diethylphthalate	---	---	---	---	---	---	---	---	---	---	---	---
Diethylether	---	---	---	---	---	---	---	---	---	---	---	---
Methylmethacrylate	---	NTD	---	NTD	---	NTD	---	NTD	---	---	---	NTD
Antimony	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	NTD	---	---	---	---	---	---	---	---	---	NTD	---
Barium	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	---	---	---	---	---	---	---	---	---	---	---	---
Chromium(III)	---	---	NTD	---	---	---	---	---	---	---	---	---
Chromium(VI)	---	---	---	---	---	---	---	---	---	---	---	---
Cobalt	---	---	---	---	---	---	---	---	---	---	---	---
Copper	---	---	---	---	---	---	---	---	---	---	---	---
Lead	NTD	---	NTD	---	---	---	NTD	---	---	---	NTD	---
Manganese	---	---	5E-04	---	---	---	---	---	---	---	8E-04	---
Mercury	---	---	---	---	---	---	---	---	---	---	---	---
Nickel	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	---	---	---	---	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	NTD	---	---	---	---	---	---	---	---	---	---	---
Vanadium	---	---	---	---	---	---	---	---	---	---	---	---
Zinc	---	---	---	---	---	---	---	---	---	---	---	---
Chloride	NTD	---	---	---	---	---	---	---	---	---	---	---
Orthophosphate	---	---	---	---	---	---	---	---	---	---	---	---
Sulfate	NTD	---	---	---	---	---	---	---	---	---	---	---
Total HQ by pathway and group	0E+00	0E+00	5E-04	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	0E+00	8E-04	0E+00

Notes:

NTD indicates that toxicity data are not available.

"---" indicates that the contaminant is not a contaminant of potential concern (COPC) in the medium or at the site.