

Table D.4. Surface Soil COPCs

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
1	1	Aluminum	9380	mg/kg	7	7	13000	4410	NoB
1	1	Arsenic	6.56	mg/kg	7	6	12	0.238	NoB
1	1	Barium	110	mg/kg	7	7	200	140	NoAB
1	1	Beryllium	7.8	mg/kg	7	6	0.67	0.00567	Yes
1	1	Bis(2-ethylhexyl)phthalate	0.16	mg/kg	4	2		12.5	NoA
1	1	Cadmium	1.1	mg/kg	7	1	0.21	0.811	Yes
1	1	Calcium	5190	mg/kg	7	7	200000		NoB
1	1	Carbon disulfide	0.001	mg/kg	3	1		14.8	NoA
1	1	Chloroform	0.004	mg/kg	3	1		0.122	NoA
1	1	Chromium	16.8	mg/kg	7	7	16	15.6	Yes
1	1	Cobalt	13.7	mg/kg	7	7	14	1.37	NoB
1	1	Copper	9.7	mg/kg	7	7	19	184	NoAB
1	1	Di-n-butyl phthalate	0.067	mg/kg	4	2		326	NoA
1	1	Iron	15800	mg/kg	7	7	28000	3220	NoB
1	1	Lead	22.2	mg/kg	7	5	36	400	NoAB
1	1	Magnesium	1400	mg/kg	7	7	7700		NoB
1	1	Manganese	1060	mg/kg	7	7	1500	419	NoB
1	1	Mercury	0.0282	mg/kg	7	1	0.2	0.213	NoAB
1	1	Nickel	14.9	mg/kg	7	7	21	10.4	NoB
1	1	PCB, Total	0.199	mg/kg	37	1		0.0648	Yes
1	1	Selenium	0.3	mg/kg	7	2	0.8	23	NoAB
1	1	Sodium	71.7	mg/kg	7	4	320		NoB
1	1	Toluene	0.004	mg/kg	3	1		96.07	NoA
1	1	Trichloroethene	0.001	mg/kg	6	1		0.0234	NoA
1	1	Uranium	9.86	mg/kg	3	3	4.9	13.8	NoA
1	1	Vanadium	27.1	mg/kg	7	7	38	0.0365	NoB
1	1	Zinc	39	mg/kg	7	7	65	1380	NoAB
1	1	Americium-241	0.998	pCi/g	3	3		1.5	NoA
1	1	Cesium-137	0.753	pCi/g	3	3	0.49	0.0267	Yes
1	1	Cobalt-60	0.00537	pCi/g	3	3		0.00547	NoA
1	1	Neptunium-237	0.663	pCi/g	3	3	0.1	0.0839	Yes
1	1	Plutonium-238	0.111	pCi/g	3	3	0.073	3.21	NoA
1	1	Plutonium-239/240	9.05	pCi/g	3	3	0.025	3.15	Yes
1	1	Technetium-99	8.29	pCi/g	3	3	2.5	101	NoA
1	1	Thorium-228	0.764	pCi/g	3	3	1.6		NoB
1	1	Thorium-230	65	pCi/g	3	3	1.5	4.1	Yes
1	1	Thorium-232	0.794	pCi/g	3	3	1.5		NoB
1	1	Uranium-234	3.44	pCi/g	3	3	1.2	5.47	NoA
1	1	Uranium-235	0.193	pCi/g	3	3	0.06	0.122	Yes
1	1	Uranium-238	3.31	pCi/g	3	3	1.2	0.517	Yes
1	2	Aluminum	12400	mg/kg	2	2	13000	4410	NoB
1	2	Arsenic	9	mg/kg	2	2	12	0.238	NoB
1	2	Barium	159	mg/kg	2	2	200	140	NoB
1	2	Beryllium	10.5	mg/kg	2	2	0.67	0.00567	Yes
1	2	Bis(2-ethylhexyl)phthalate	0.4	mg/kg	2	1		12.5	NoA
1	2	Cadmium	6.5	mg/kg	2	2	0.21	0.811	Yes
1	2	Calcium	7410	mg/kg	2	2	200000		NoB
1	2	Chromium	258	mg/kg	2	2	16	15.6	Yes
1	2	Cobalt	8.6	mg/kg	2	2	14	1.37	NoB
1	2	Copper	231	mg/kg	2	2	19	184	Yes
1	2	Iron	18300	mg/kg	2	2	28000	3220	NoB
1	2	Lead	323	mg/kg	2	2	36	400	NoA
1	2	Magnesium	1610	mg/kg	2	2	7700		NoB
1	2	Manganese	748	mg/kg	2	2	1500	419	NoB
1	2	Mercury	7.7	mg/kg	2	1	0.2	0.213	Yes
1	2	Nickel	85.4	mg/kg	2	2	21	10.4	Yes
1	2	PCB, Total	35	mg/kg	39	19		0.0648	Yes

SWMU = solid waste management unit
 EU = exposure unit
 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
1	2	Selenium	0.98	mg/kg	2	1	0.8	23	NoA
1	2	Silver	42.5	mg/kg	2	1	2.3	2.61	Yes
1	2	Sodium	80.3	mg/kg	2	1	320		NoB
1	2	Thallium	0.37	mg/kg	2	1	0.21	0.368	Yes
1	2	Vanadium	42.1	mg/kg	2	2	38	0.0365	Yes
1	2	Zinc	390	mg/kg	2	2	65	1380	NoA
1	3	Aluminum	10500	mg/kg	2	2	13000	4410	NoB
1	3	Arsenic	6.28	mg/kg	5	2	12	0.238	NoB
1	3	Barium	99.6	mg/kg	5	5	200	140	NoAB
1	3	Beryllium	0.484	mg/kg	2	1	0.67	0.00567	NoB
1	3	Calcium	7650	mg/kg	2	2	200000		NoB
1	3	Chromium	17.1	mg/kg	5	5	16	15.6	Yes
1	3	Cobalt	4.72	mg/kg	2	2	14	1.37	NoB
1	3	Copper	17.3	mg/kg	2	2	19	184	NoAB
1	3	Iron	11900	mg/kg	2	2	28000	3220	NoB
1	3	Lead	19.7	mg/kg	5	2	36	400	NoAB
1	3	Magnesium	1040	mg/kg	2	2	7700		NoB
1	3	Manganese	670	mg/kg	2	2	1500	419	NoB
1	3	Mercury	0.176	mg/kg	5	1	0.2	0.213	NoAB
1	3	Nickel	13.1	mg/kg	5	1	21	10.4	NoB
1	3	PCB, Total	0.365	mg/kg	19	5		0.0648	Yes
1	3	Selenium	0.227	mg/kg	5	1	0.8	23	NoAB
1	3	Sodium	181	mg/kg	2	2	320		NoB
1	3	Trichloroethene	0.015	mg/kg	4	2		0.0234	NoA
1	3	Uranium	5.15	mg/kg	1	1	4.9	13.8	NoA
1	3	Vanadium	24	mg/kg	2	2	38	0.0365	NoB
1	3	Zinc	59.2	mg/kg	2	2	65	1380	NoAB
1	3	Americium-241	-0.0194	pCi/g	1	1		1.5	NoA
1	3	Cesium-137	0.112	pCi/g	1	1	0.49	0.0267	NoB
1	3	Cobalt-60	-0.0226	pCi/g	1	1		0.00547	NoA
1	3	Neptunium-237	-0.00333	pCi/g	1	1	0.1	0.0839	NoAB
1	3	Plutonium-238	-0.00159	pCi/g	1	1	0.073	3.21	NoAB
1	3	Plutonium-239/240	0.00959	pCi/g	1	1	0.025	3.15	NoAB
1	3	Technetium-99	0.343	pCi/g	1	1	2.5	101	NoAB
1	3	Thorium-228	0.35	pCi/g	1	1	1.6		NoB
1	3	Thorium-230	0.46	pCi/g	1	1	1.5	4.1	NoAB
1	3	Thorium-232	0.418	pCi/g	1	1	1.5		NoB
1	3	Uranium-234	1.27	pCi/g	1	1	1.2	5.47	NoA
1	3	Uranium-235	0.0793	pCi/g	1	1	0.06	0.122	NoA
1	3	Uranium-238	1.73	pCi/g	1	1	1.2	0.517	Yes
1	4	Aluminum	11100	mg/kg	3	3	13000	4410	NoB
1	4	Arsenic	5.81	mg/kg	3	2	12	0.238	NoB
1	4	Barium	124	mg/kg	3	3	200	140	NoAB
1	4	Beryllium	0.95	mg/kg	3	2	0.67	0.00567	Yes
1	4	Cadmium	0.79	mg/kg	3	1	0.21	0.811	NoA
1	4	Calcium	8840	mg/kg	3	3	200000		NoB
1	4	Chromium	137	mg/kg	3	3	16	15.6	Yes
1	4	Cobalt	6.29	mg/kg	3	3	14	1.37	NoB
1	4	Copper	46.6	mg/kg	3	3	19	184	NoA
1	4	Fluoranthene	0.62	mg/kg	3	1		109	NoA
1	4	Iron	17300	mg/kg	3	3	28000	3220	NoB
1	4	Lead	18	mg/kg	3	2	36	400	NoAB
1	4	Magnesium	1720	mg/kg	3	3	7700		NoB
1	4	Manganese	359	mg/kg	3	3	1500	419	NoAB
1	4	Mercury	0.18	mg/kg	3	2	0.2	0.213	NoAB
1	4	Nickel	63.8	mg/kg	3	3	21	10.4	Yes
1	4	PCB, Total	0.13	mg/kg	15	1		0.0648	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
1	4	Phenanthrene	0.6	mg/kg	3	1			NoC
1	4	Phenol	1.8	mg/kg	2	1		498	NoA
1	4	Pyrene	0.68	mg/kg	3	1		81.2	NoA
1	4	Selenium	0.171	mg/kg	3	1	0.8	23	NoAB
1	4	Sodium	122	mg/kg	3	2	320		NoB
1	4	Uranium	3.04	mg/kg	1	1	4.9	13.8	NoAB
1	4	Vanadium	23.9	mg/kg	3	3	38	0.0365	NoB
1	4	Zinc	55.1	mg/kg	3	3	65	1380	NoAB
1	4	Americium-241	0.0992	pCi/g	1	1		1.5	NoA
1	4	Cesium-137	0.337	pCi/g	1	1	0.49	0.0267	NoB
1	4	Cobalt-60	0.022	pCi/g	1	1		0.00547	Yes
1	4	Neptunium-237	0.000571	pCi/g	1	1	0.1	0.0839	NoAB
1	4	Plutonium-238	-0.00225	pCi/g	1	1	0.073	3.21	NoAB
1	4	Plutonium-239/240	0.919	pCi/g	1	1	0.025	3.15	NoA
1	4	Technetium-99	4.86	pCi/g	1	1	2.5	101	NoA
1	4	Thorium-228	0.435	pCi/g	1	1	1.6		NoB
1	4	Thorium-230	5.03	pCi/g	1	1	1.5	4.1	Yes
1	4	Thorium-232	0.504	pCi/g	1	1	1.5		NoB
1	4	Uranium-234	0.47	pCi/g	1	1	1.2	5.47	NoAB
1	4	Uranium-235	0.0226	pCi/g	1	1	0.06	0.122	NoAB
1	4	Uranium-238	0.597	pCi/g	1	1	1.2	0.517	NoB
1	5	2-Methylnaphthalene	0.09	mg/kg	5	1		13.04	NoA
1	5	Aluminum	9150	mg/kg	6	6	13000	4410	NoB
1	5	Arsenic	8.3	mg/kg	6	6	12	0.238	NoB
1	5	Barium	117	mg/kg	6	6	200	140	NoAB
1	5	Beryllium	8.3	mg/kg	6	5	0.67	0.00567	Yes
1	5	Bis(2-ethylhexyl)phthalate	0.09	mg/kg	5	2		12.5	NoA
1	5	Cadmium	1.2	mg/kg	6	1	0.21	0.811	Yes
1	5	Calcium	31000	mg/kg	6	6	200000		NoB
1	5	Chromium	13.8	mg/kg	6	6	16	15.6	NoAB
1	5	Cobalt	10.1	mg/kg	6	6	14	1.37	NoB
1	5	Copper	15.2	mg/kg	6	6	19	184	NoAB
1	5	Fluoranthene	0.62	mg/kg	6	3		109	NoA
1	5	Iron	16300	mg/kg	6	6	28000	3220	NoB
1	5	Lead	18.9	mg/kg	6	5	36	400	NoAB
1	5	Magnesium	11200	mg/kg	6	6	7700		NoE
1	5	Manganese	763	mg/kg	6	6	1500	419	NoB
1	5	Mercury	0.0461	mg/kg	6	2	0.2	0.213	NoAB
1	5	Methylene chloride	0.006	mg/kg	3	1		3.65	NoA
1	5	Molybdenum	14.2	mg/kg	1	1		23	NoA
1	5	Naphthalene	0.063	mg/kg	6	1		1.15	NoA
1	5	Nickel	40.7	mg/kg	6	6	21	10.4	Yes
1	5	PCB, Total	0.27	mg/kg	19	2		0.0648	Yes
1	5	Phenanthrene	0.055	mg/kg	6	2			NoC
1	5	Pyrene	0.49	mg/kg	6	3		81.2	NoA
1	5	Selenium	0.5	mg/kg	6	3	0.8	23	NoAB
1	5	Sodium	142	mg/kg	6	4	320		NoB
1	5	Total PAH	0.098307	mg/kg	6	3		0.0197	Yes
1	5	Uranium	2.86	mg/kg	1	1	4.9	13.8	NoAB
1	5	Vanadium	25.5	mg/kg	6	6	38	0.0365	NoB
1	5	Zinc	87.2	mg/kg	6	6	65	1380	NoA
1	5	Americium-241	0.000857	pCi/g	1	1		1.5	NoA
1	5	Cesium-137	0.0878	pCi/g	1	1	0.49	0.0267	NoB
1	5	Cobalt-60	-0.00558	pCi/g	1	1		0.00547	NoA
1	5	Neptunium-237	-0.00169	pCi/g	1	1	0.1	0.0839	NoAB
1	5	Plutonium-238	-0.00863	pCi/g	1	1	0.073	3.21	NoAB
1	5	Plutonium-239/240	0.00221	pCi/g	1	1	0.025	3.15	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
1	5	Technetium-99	3.33	pCi/g	1	1	2.5	101	NoA
1	5	Thorium-228	0.252	pCi/g	1	1	1.6		NoB
1	5	Thorium-230	0.337	pCi/g	1	1	1.5	4.1	NoAB
1	5	Thorium-232	0.159	pCi/g	1	1	1.5		NoB
1	5	Uranium-234	0.947	pCi/g	1	1	1.2	5.47	NoAB
1	5	Uranium-235	0.0621	pCi/g	1	1	0.06	0.122	NoA
1	5	Uranium-238	0.65	pCi/g	1	1	1.2	0.517	NoB
99B	1	Aluminum	8820	mg/kg	2	2	13000	4410	NoB
99B	1	Arsenic	9.08	mg/kg	16	8	12	0.238	NoB
99B	1	Barium	76.7	mg/kg	2	2	200	140	NoAB
99B	1	Calcium	43000	mg/kg	2	2	200000		NoB
99B	1	Chromium	55.1	mg/kg	16	8	16	15.6	Yes
99B	1	Cobalt	5.23	mg/kg	2	2	14	1.37	NoB
99B	1	Copper	9.28	mg/kg	16	2	19	184	NoAB
99B	1	Iron	13744.91	mg/kg	16	16	28000	3220	NoB
99B	1	Lead	16.61	mg/kg	16	14	36	400	NoAB
99B	1	Magnesium	2350	mg/kg	2	2	7700		NoB
99B	1	Manganese	601.33	mg/kg	16	16	1500	419	NoB
99B	1	Mercury	9.53	mg/kg	16	1	0.2	0.213	Yes
99B	1	Molybdenum	16	mg/kg	16	2		23	NoA
99B	1	Nickel	70.21	mg/kg	16	3	21	10.4	Yes
99B	1	Silver	10.3	mg/kg	16	1	2.3	2.61	Yes
99B	1	Uranium	4.53	mg/kg	16	2	4.9	13.8	NoAB
99B	1	Vanadium	23.6	mg/kg	2	2	38	0.0365	NoB
99B	1	Zinc	471.82	mg/kg	16	16	65	1380	NoA
99B	1	Americium-241	-0.0138	pCi/g	2	2		1.5	NoA
99B	1	Cesium-137	0.202	pCi/g	2	2	0.49	0.0267	NoB
99B	1	Cobalt-60	0.0212	pCi/g	2	2		0.00547	Yes
99B	1	Neptunium-237	0.00503	pCi/g	2	2	0.1	0.0839	NoAB
99B	1	Plutonium-238	-0.00818	pCi/g	2	2	0.073	3.21	NoAB
99B	1	Plutonium-239/240	0.0103	pCi/g	2	2	0.025	3.15	NoAB
99B	1	Technetium-99	3.73	pCi/g	2	2	2.5	101	NoA
99B	1	Thorium-228	0.333	pCi/g	2	2	1.6		NoB
99B	1	Thorium-230	0.302	pCi/g	2	2	1.5	4.1	NoAB
99B	1	Thorium-232	0.3	pCi/g	2	2	1.5		NoB
99B	1	Uranium-234	0.506	pCi/g	2	2	1.2	5.47	NoAB
99B	1	Uranium-235	0.0425	pCi/g	2	2	0.06	0.122	NoAB
99B	1	Uranium-238	1.3	pCi/g	2	2	1.2	0.517	Yes
194	1	Aluminum	7800	mg/kg	1	1	13000	4410	NoB
194	1	Antimony	1.5	mg/kg	1	1	0.21	0.552	Yes
194	1	Arsenic	8	mg/kg	19	5	12	0.238	NoB
194	1	Barium	97.1	mg/kg	1	1	200	140	NoAB
194	1	Beryllium	0.5	mg/kg	1	1	0.67	0.00567	NoB
194	1	Cadmium	0.067	mg/kg	1	1	0.21	0.811	NoAB
194	1	Calcium	902	mg/kg	1	1	200000		NoB
194	1	Chromium	38.71	mg/kg	19	5	16	15.6	Yes
194	1	Cobalt	7.6	mg/kg	1	1	14	1.37	NoB
194	1	Copper	21.24	mg/kg	19	3	19	184	NoA
194	1	Iron	13900	mg/kg	19	19	28000	3220	NoB
194	1	Lead	47.39	mg/kg	19	19	36	400	NoA
194	1	Magnesium	894	mg/kg	1	1	7700		NoB
194	1	Manganese	1030	mg/kg	19	19	1500	419	NoB
194	1	Mercury	6.71	mg/kg	19	2	0.2	0.213	Yes
194	1	Molybdenum	0.71	mg/kg	19	1		23	NoA
194	1	Nickel	58.42	mg/kg	19	2	21	10.4	Yes
194	1	Selenium	1.1	mg/kg	19	1	0.8	23	NoA
194	1	Silver	10.93	mg/kg	19	3	2.3	2.61	Yes

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SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	1	Sodium	28.2	mg/kg	1	1	320		NoB
194	1	Uranium	3.41	mg/kg	19	1	4.9	13.8	NoAB
194	1	Vanadium	29.3	mg/kg	1	1	38	0.0365	NoB
194	1	Zinc	33.58	mg/kg	19	19	65	1380	NoAB
194	1	Americium-241	0.0069	pCi/g	1	1		1.5	NoA
194	1	Cesium-137	0.19	pCi/g	1	1	0.49	0.0267	NoB
194	1	Neptunium-237	0.05	pCi/g	1	1	0.1	0.0839	NoAB
194	1	Plutonium-238	0.017	pCi/g	1	1	0.073	3.21	NoAB
194	1	Plutonium-239/240	0.011	pCi/g	1	1	0.025	3.15	NoAB
194	1	Technetium-99	0.12	pCi/g	1	1	2.5	101	NoAB
194	1	Thorium-228	1.01	pCi/g	1	1	1.6		NoB
194	1	Thorium-230	0.99	pCi/g	1	1	1.5	4.1	NoAB
194	1	Thorium-232	0.94	pCi/g	1	1	1.5		NoB
194	1	Uranium-234	0.91	pCi/g	1	1	1.2	5.47	NoAB
194	1	Uranium-235	0.041	pCi/g	1	1	0.06	0.122	NoAB
194	1	Uranium-238	1.14	pCi/g	1	1	1.2	0.517	NoB
194	2	Aluminum	8430	mg/kg	1	1	13000	4410	NoB
194	2	Antimony	0.4	mg/kg	1	1	0.21	0.552	NoA
194	2	Arsenic	8.07	mg/kg	13	3	12	0.238	NoB
194	2	Barium	126	mg/kg	1	1	200	140	NoAB
194	2	Beryllium	0.55	mg/kg	1	1	0.67	0.00567	NoB
194	2	Cadmium	0.13	mg/kg	1	1	0.21	0.811	NoAB
194	2	Calcium	24100	mg/kg	1	1	200000		NoB
194	2	Chromium	59.6	mg/kg	13	5	16	15.6	Yes
194	2	Cobalt	6.8	mg/kg	1	1	14	1.37	NoB
194	2	Copper	26.02	mg/kg	13	2	19	184	NoA
194	2	Iron	14700	mg/kg	13	13	28000	3220	NoB
194	2	Lead	23.33	mg/kg	13	13	36	400	NoAB
194	2	Magnesium	1410	mg/kg	1	1	7700		NoB
194	2	Manganese	744.03	mg/kg	13	13	1500	419	NoB
194	2	Mercury	0.0347	mg/kg	13	1	0.2	0.213	NoAB
194	2	Molybdenum	0.46	mg/kg	13	1		23	NoA
194	2	Nickel	14.2	mg/kg	13	1	21	10.4	NoB
194	2	Selenium	1.1	mg/kg	13	1	0.8	23	NoA
194	2	Silver	13.91	mg/kg	13	2	2.3	2.61	Yes
194	2	Sodium	54.7	mg/kg	1	1	320		NoB
194	2	Uranium	33.64	mg/kg	13	2	4.9	13.8	Yes
194	2	Vanadium	25.6	mg/kg	1	1	38	0.0365	NoB
194	2	Zinc	39.76	mg/kg	13	13	65	1380	NoAB
194	2	Americium-241	0.008	pCi/g	1	1		1.5	NoA
194	2	Cesium-137	0.146	pCi/g	1	1	0.49	0.0267	NoB
194	2	Neptunium-237	0.051	pCi/g	1	1	0.1	0.0839	NoAB
194	2	Plutonium-238	0.0043	pCi/g	1	1	0.073	3.21	NoAB
194	2	Plutonium-239/240	0.018	pCi/g	1	1	0.025	3.15	NoAB
194	2	Technetium-99	-1.05	pCi/g	1	1	2.5	101	NoAB
194	2	Thorium-228	0.91	pCi/g	1	1	1.6		NoB
194	2	Thorium-230	1	pCi/g	1	1	1.5	4.1	NoAB
194	2	Thorium-232	0.89	pCi/g	1	1	1.5		NoB
194	2	Uranium-234	0.91	pCi/g	1	1	1.2	5.47	NoAB
194	2	Uranium-235	0.066	pCi/g	1	1	0.06	0.122	NoA
194	2	Uranium-238	1.42	pCi/g	1	1	1.2	0.517	Yes
194	3	Aluminum	10400	mg/kg	1	1	13000	4410	NoB
194	3	Antimony	0.69	mg/kg	1	1	0.21	0.552	Yes
194	3	Arsenic	28.55	mg/kg	10	4	12	0.238	Yes
194	3	Barium	147	mg/kg	1	1	200	140	NoB
194	3	Beryllium	0.6	mg/kg	1	1	0.67	0.00567	NoB
194	3	Cadmium	0.083	mg/kg	1	1	0.21	0.811	NoAB

SWMU = solid waste management unit
 EU = exposure unit
 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	3	Calcium	4960	mg/kg	1	1	200000		NoB
194	3	Chromium	38.98	mg/kg	10	5	16	15.6	Yes
194	3	Cobalt	6.6	mg/kg	1	1	14	1.37	NoB
194	3	Copper	15.79	mg/kg	10	2	19	184	NoAB
194	3	Fluoranthene	0.052	mg/kg	2	1		109	NoA
194	3	Iron	17400	mg/kg	10	10	28000	3220	NoB
194	3	Lead	357.64	mg/kg	10	10	36	400	NoA
194	3	Magnesium	1230	mg/kg	1	1	7700		NoB
194	3	Manganese	678.38	mg/kg	10	10	1500	419	NoB
194	3	Mercury	0.0252	mg/kg	10	1	0.2	0.213	NoAB
194	3	Molybdenum	0.43	mg/kg	10	1		23	NoA
194	3	Nickel	66.58	mg/kg	10	3	21	10.4	Yes
194	3	Selenium	1.3	mg/kg	10	1	0.8	23	NoA
194	3	Silver	0.033	mg/kg	10	1	2.3	2.61	NoAB
194	3	Sodium	440	mg/kg	1	1	320		NoE
194	3	Total PAH	0.041	mg/kg	2	2		0.0197	Yes
194	3	Uranium	3.93	mg/kg	11	2	4.9	13.8	NoAB
194	3	Vanadium	28.1	mg/kg	1	1	38	0.0365	NoB
194	3	Zinc	74.95	mg/kg	10	10	65	1380	NoA
194	3	Americium-241	0.011	pCi/g	2	2		1.5	NoA
194	3	Cesium-137	0.327	pCi/g	2	2	0.49	0.0267	NoB
194	3	Neptunium-237	0.01	pCi/g	2	2	0.1	0.0839	NoAB
194	3	Plutonium-238	0.008	pCi/g	2	2	0.073	3.21	NoAB
194	3	Plutonium-239/240	0.017	pCi/g	2	2	0.025	3.15	NoAB
194	3	Technetium-99	0.46	pCi/g	2	2	2.5	101	NoAB
194	3	Thorium-228	1.01	pCi/g	2	2	1.6		NoB
194	3	Thorium-230	1.12	pCi/g	2	2	1.5	4.1	NoAB
194	3	Thorium-232	0.99	pCi/g	2	2	1.5		NoB
194	3	Uranium-234	1.02	pCi/g	2	2	1.2	5.47	NoAB
194	3	Uranium-235	0.046	pCi/g	2	2	0.06	0.122	NoAB
194	3	Uranium-238	1.31	pCi/g	2	2	1.2	0.517	Yes
194	4	Aluminum	5090	mg/kg	1	1	13000	4410	NoB
194	4	Antimony	0.2	mg/kg	1	1	0.21	0.552	NoAB
194	4	Arsenic	10.54	mg/kg	24	5	12	0.238	NoB
194	4	Barium	63.5	mg/kg	1	1	200	140	NoAB
194	4	Beryllium	0.34	mg/kg	1	1	0.67	0.00567	NoB
194	4	Cadmium	0.18	mg/kg	1	1	0.21	0.811	NoAB
194	4	Calcium	4600	mg/kg	1	1	200000		NoB
194	4	Chromium	48.41	mg/kg	24	4	16	15.6	Yes
194	4	Cobalt	4.8	mg/kg	1	1	14	1.37	NoB
194	4	Copper	6.9	mg/kg	24	1	19	184	NoAB
194	4	Fluoranthene	0.13	mg/kg	1	1		109	NoA
194	4	Iron	17416.62	mg/kg	24	24	28000	3220	NoB
194	4	Lead	29.76	mg/kg	24	24	36	400	NoAB
194	4	Magnesium	702	mg/kg	1	1	7700		NoB
194	4	Manganese	427.75	mg/kg	24	24	1500	419	NoB
194	4	Mercury	8.92	mg/kg	24	2	0.2	0.213	Yes
194	4	Molybdenum	0.52	mg/kg	24	1		23	NoA
194	4	Nickel	91.72	mg/kg	24	5	21	10.4	Yes
194	4	Phenanthrene	0.099	mg/kg	1	1			NoC
194	4	Pyrene	0.094	mg/kg	1	1		81.2	NoA
194	4	Selenium	1	mg/kg	24	1	0.8	23	NoA
194	4	Silver	12.35	mg/kg	24	5	2.3	2.61	Yes
194	4	Sodium	196	mg/kg	1	1	320		NoB
194	4	Thallium	0.17	mg/kg	1	1	0.21	0.368	NoAB
194	4	Total PAH	0.072955	mg/kg	1	1		0.0197	Yes
194	4	Uranium	6.4	mg/kg	24	2	4.9	13.8	NoA

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	4	Vanadium	14.7	mg/kg	1	1	38	0.0365	NoB
194	4	Zinc	169.07	mg/kg	24	24	65	1380	NoA
194	4	Americium-241	0.0036	pCi/g	1	1		1.5	NoA
194	4	Cesium-137	0.348	pCi/g	1	1	0.49	0.0267	NoB
194	4	Neptunium-237	-0.0018	pCi/g	1	1	0.1	0.0839	NoAB
194	4	Plutonium-238	0.021	pCi/g	1	1	0.073	3.21	NoAB
194	4	Plutonium-239/240	0.024	pCi/g	1	1	0.025	3.15	NoAB
194	4	Technetium-99	0.33	pCi/g	1	1	2.5	101	NoAB
194	4	Thorium-228	0.778	pCi/g	1	1	1.6		NoB
194	4	Thorium-230	1	pCi/g	1	1	1.5	4.1	NoAB
194	4	Thorium-232	0.796	pCi/g	1	1	1.5		NoB
194	4	Uranium-234	1.11	pCi/g	1	1	1.2	5.47	NoAB
194	4	Uranium-235	0.068	pCi/g	1	1	0.06	0.122	NoA
194	4	Uranium-238	1.73	pCi/g	1	1	1.2	0.517	Yes
194	5	Aluminum	5380	mg/kg	1	1	13000	4410	NoB
194	5	Antimony	0.53	mg/kg	1	1	0.21	0.552	NoA
194	5	Arsenic	8.3	mg/kg	20	8	12	0.238	NoB
194	5	Barium	78.1	mg/kg	1	1	200	140	NoAB
194	5	Beryllium	0.38	mg/kg	1	1	0.67	0.00567	NoB
194	5	Cadmium	0.088	mg/kg	1	1	0.21	0.811	NoAB
194	5	Calcium	17700	mg/kg	1	1	200000		NoB
194	5	Chromium	45.8	mg/kg	20	6	16	15.6	Yes
194	5	Cobalt	3.7	mg/kg	1	1	14	1.37	NoB
194	5	Copper	33.01	mg/kg	20	5	19	184	NoA
194	5	Iron	16513.56	mg/kg	20	20	28000	3220	NoB
194	5	Lead	25.59	mg/kg	20	19	36	400	NoAB
194	5	Magnesium	931	mg/kg	1	1	7700		NoB
194	5	Manganese	567.68	mg/kg	20	20	1500	419	NoB
194	5	Mercury	8.69	mg/kg	20	2	0.2	0.213	Yes
194	5	Molybdenum	0.36	mg/kg	20	1		23	NoA
194	5	Nickel	75.64	mg/kg	20	3	21	10.4	Yes
194	5	Selenium	1.2	mg/kg	20	1	0.8	23	NoA
194	5	Silver	15.49	mg/kg	20	4	2.3	2.61	Yes
194	5	Sodium	51.7	mg/kg	1	1	320		NoB
194	5	Thallium	0.17	mg/kg	1	1	0.21	0.368	NoAB
194	5	Total PAH	0.0237	mg/kg	1	1		0.0197	Yes
194	5	Uranium	9.55	mg/kg	20	3	4.9	13.8	NoA
194	5	Vanadium	17.5	mg/kg	1	1	38	0.0365	NoB
194	5	Zinc	69.28	mg/kg	20	20	65	1380	NoA
194	5	Americium-241	0.005	pCi/g	1	1		1.5	NoA
194	5	Cesium-137	0.183	pCi/g	1	1	0.49	0.0267	NoB
194	5	Neptunium-237	0.002	pCi/g	1	1	0.1	0.0839	NoAB
194	5	Plutonium-238	0.011	pCi/g	1	1	0.073	3.21	NoAB
194	5	Plutonium-239/240	0.0111	pCi/g	1	1	0.025	3.15	NoAB
194	5	Technetium-99	0.45	pCi/g	1	1	2.5	101	NoAB
194	5	Thorium-228	1.3	pCi/g	1	1	1.6		NoB
194	5	Thorium-230	1.27	pCi/g	1	1	1.5	4.1	NoAB
194	5	Thorium-232	1.14	pCi/g	1	1	1.5		NoB
194	5	Uranium-234	1.07	pCi/g	1	1	1.2	5.47	NoAB
194	5	Uranium-235	0.063	pCi/g	1	1	0.06	0.122	NoA
194	5	Uranium-238	1.38	pCi/g	1	1	1.2	0.517	Yes
194	6	Aluminum	10400	mg/kg	1	1	13000	4410	NoB
194	6	Antimony	0.28	mg/kg	1	1	0.21	0.552	NoA
194	6	Arsenic	7.82	mg/kg	8	2	12	0.238	NoB
194	6	Barium	115	mg/kg	1	1	200	140	NoAB
194	6	Beryllium	0.53	mg/kg	1	1	0.67	0.00567	NoB
194	6	Cadmium	0.034	mg/kg	1	1	0.21	0.811	NoAB

SWMU = solid waste management unit

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	6	Calcium	2770	mg/kg	1	1	200000		NoB
194	6	Chromium	37.01	mg/kg	8	2	16	15.6	Yes
194	6	Cobalt	6.2	mg/kg	1	1	14	1.37	NoB
194	6	Copper	42.29	mg/kg	8	3	19	184	NoA
194	6	Iron	17838.96	mg/kg	8	8	28000	3220	NoB
194	6	Lead	25.32	mg/kg	8	8	36	400	NoAB
194	6	Magnesium	1200	mg/kg	1	1	7700		NoB
194	6	Manganese	2806.97	mg/kg	8	8	1500	419	Yes
194	6	Mercury	0.021	mg/kg	8	1	0.2	0.213	NoAB
194	6	Molybdenum	0.21	mg/kg	8	1		23	NoA
194	6	Nickel	80.6	mg/kg	8	3	21	10.4	Yes
194	6	Selenium	1.3	mg/kg	8	1	0.8	23	NoA
194	6	Silver	9.89	mg/kg	8	2	2.3	2.61	Yes
194	6	Sodium	49.2	mg/kg	1	1	320		NoB
194	6	Total PAH	0.009	mg/kg	1	1		0.0197	NoA
194	6	Uranium	3.97	mg/kg	8	1	4.9	13.8	NoAB
194	6	Vanadium	26.3	mg/kg	1	1	38	0.0365	NoB
194	6	Zinc	71.73	mg/kg	8	8	65	1380	NoA
194	6	Americium-241	0.014	pCi/g	1	1		1.5	NoA
194	6	Cesium-137	0.259	pCi/g	1	1	0.49	0.0267	NoB
194	6	Neptunium-237	0.0003	pCi/g	1	1	0.1	0.0839	NoAB
194	6	Plutonium-238	0.0164	pCi/g	1	1	0.073	3.21	NoAB
194	6	Plutonium-239/240	0.0145	pCi/g	1	1	0.025	3.15	NoAB
194	6	Technetium-99	0.45	pCi/g	1	1	2.5	101	NoAB
194	6	Thorium-228	0.96	pCi/g	1	1	1.6		NoB
194	6	Thorium-230	1.14	pCi/g	1	1	1.5	4.1	NoAB
194	6	Thorium-232	1.04	pCi/g	1	1	1.5		NoB
194	6	Uranium-234	1.21	pCi/g	1	1	1.2	5.47	NoA
194	6	Uranium-235	0.06	pCi/g	1	1	0.06	0.122	NoA
194	6	Uranium-238	1.32	pCi/g	1	1	1.2	0.517	Yes
194	7	Aluminum	8690	mg/kg	1	1	13000	4410	NoB
194	7	Antimony	0.3	mg/kg	1	1	0.21	0.552	NoA
194	7	Arsenic	10.89	mg/kg	14	6	12	0.238	NoB
194	7	Barium	116	mg/kg	1	1	200	140	NoAB
194	7	Beryllium	0.43	mg/kg	1	1	0.67	0.00567	NoB
194	7	Cadmium	0.07	mg/kg	1	1	0.21	0.811	NoAB
194	7	Calcium	1560	mg/kg	1	1	200000		NoB
194	7	Chromium	53.2	mg/kg	14	5	16	15.6	Yes
194	7	Cobalt	9.5	mg/kg	1	1	14	1.37	NoB
194	7	Copper	22.31	mg/kg	14	2	19	184	NoA
194	7	Iron	14696.65	mg/kg	14	14	28000	3220	NoB
194	7	Lead	26.14	mg/kg	14	14	36	400	NoAB
194	7	Magnesium	1050	mg/kg	1	1	7700		NoB
194	7	Manganese	1410	mg/kg	14	14	1500	419	NoB
194	7	Mercury	0.0474	mg/kg	14	1	0.2	0.213	NoAB
194	7	Molybdenum	0.84	mg/kg	14	1		23	NoA
194	7	Nickel	77.14	mg/kg	14	2	21	10.4	Yes
194	7	Selenium	3.46	mg/kg	14	2	0.8	23	NoA
194	7	Silver	13.53	mg/kg	14	3	2.3	2.61	Yes
194	7	Sodium	37.5	mg/kg	1	1	320		NoB
194	7	Thallium	0.18	mg/kg	1	1	0.21	0.368	NoAB
194	7	Uranium	2.69	mg/kg	14	1	4.9	13.8	NoAB
194	7	Vanadium	27.2	mg/kg	1	1	38	0.0365	NoB
194	7	Zinc	274.99	mg/kg	14	14	65	1380	NoA
194	7	Americium-241	0.005	pCi/g	1	1		1.5	NoA
194	7	Cesium-137	0.125	pCi/g	1	1	0.49	0.0267	NoB
194	7	Neptunium-237	-0.0014	pCi/g	1	1	0.1	0.0839	NoAB

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	7	Plutonium-238	0.015	pCi/g	1	1	0.073	3.21	NoAB
194	7	Plutonium-239/240	0.01	pCi/g	1	1	0.025	3.15	NoAB
194	7	Technetium-99	0.22	pCi/g	1	1	2.5	101	NoAB
194	7	Thorium-228	0.74	pCi/g	1	1	1.6		NoB
194	7	Thorium-230	0.9	pCi/g	1	1	1.5	4.1	NoAB
194	7	Thorium-232	0.77	pCi/g	1	1	1.5		NoB
194	7	Uranium-234	0.85	pCi/g	1	1	1.2	5.47	NoAB
194	7	Uranium-235	0.038	pCi/g	1	1	0.06	0.122	NoAB
194	7	Uranium-238	0.9	pCi/g	1	1	1.2	0.517	NoB
194	8	Acenaphthene	0.043	mg/kg	1	1		117	NoA
194	8	Aluminum	6310	mg/kg	1	1	13000	4410	NoB
194	8	Anthracene	0.095	mg/kg	1	1		747	NoA
194	8	Antimony	0.46	mg/kg	1	1	0.21	0.552	NoA
194	8	Arsenic	9.29	mg/kg	9	5	12	0.238	NoB
194	8	Barium	79.6	mg/kg	1	1	200	140	NoAB
194	8	Benzo(ghi)perylene	0.17	mg/kg	1	1			NoC
194	8	Beryllium	0.46	mg/kg	1	1	0.67	0.00567	NoB
194	8	Bis(2-ethylhexyl)phthalate	15	mg/kg	1	1		12.5	Yes
194	8	Cadmium	0.094	mg/kg	1	1	0.21	0.811	NoAB
194	8	Calcium	2590	mg/kg	1	1	200000		NoB
194	8	Chromium	53.58	mg/kg	9	6	16	15.6	Yes
194	8	Cobalt	4.8	mg/kg	1	1	14	1.37	NoB
194	8	Copper	10.2	mg/kg	9	1	19	184	NoAB
194	8	Di-n-butyl phthalate	0.82	mg/kg	1	1		326	NoA
194	8	Di-n-octylphthalate	0.054	mg/kg	1	1		130	NoA
194	8	Fluoranthene	0.8	mg/kg	1	1		109	NoA
194	8	Fluorene	0.056	mg/kg	1	1		91.5	NoA
194	8	Iron	12500	mg/kg	9	9	28000	3220	NoB
194	8	Lead	20.5	mg/kg	9	9	36	400	NoAB
194	8	Magnesium	708	mg/kg	1	1	7700		NoB
194	8	Manganese	1822.56	mg/kg	9	9	1500	419	Yes
194	8	Mercury	0.0309	mg/kg	9	1	0.2	0.213	NoAB
194	8	Molybdenum	0.53	mg/kg	9	1		23	NoA
194	8	Nickel	7	mg/kg	9	1	21	10.4	NoAB
194	8	Phenanthrene	0.6	mg/kg	1	1			NoC
194	8	Pyrene	0.6	mg/kg	1	1		81.2	NoA
194	8	Selenium	1.2	mg/kg	9	1	0.8	23	NoA
194	8	Silver	0.057	mg/kg	9	1	2.3	2.61	NoAB
194	8	Sodium	31.2	mg/kg	1	1	320		NoB
194	8	Thallium	0.13	mg/kg	1	1	0.21	0.368	NoAB
194	8	Total PAH	0.48503	mg/kg	1	1		0.0197	Yes
194	8	Uranium	4.19	mg/kg	9	1	4.9	13.8	NoAB
194	8	Vanadium	25.1	mg/kg	1	1	38	0.0365	NoB
194	8	Zinc	130.64	mg/kg	9	9	65	1380	NoA
194	8	Americium-241	0.005	pCi/g	1	1		1.5	NoA
194	8	Cesium-137	0.36	pCi/g	1	1	0.49	0.0267	NoB
194	8	Neptunium-237	0.023	pCi/g	1	1	0.1	0.0839	NoAB
194	8	Plutonium-238	0.013	pCi/g	1	1	0.073	3.21	NoAB
194	8	Plutonium-239/240	0.011	pCi/g	1	1	0.025	3.15	NoAB
194	8	Technetium-99	0.5	pCi/g	1	1	2.5	101	NoAB
194	8	Thorium-228	0.75	pCi/g	1	1	1.6		NoB
194	8	Thorium-230	0.99	pCi/g	1	1	1.5	4.1	NoAB
194	8	Thorium-232	1	pCi/g	1	1	1.5		NoB
194	8	Uranium-234	1.1	pCi/g	1	1	1.2	5.47	NoAB
194	8	Uranium-235	0.086	pCi/g	1	1	0.06	0.122	NoA
194	8	Uranium-238	1.39	pCi/g	1	1	1.2	0.517	Yes
194	9	Aluminum	5660	mg/kg	1	1	13000	4410	NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	9	Antimony	0.4	mg/kg	1	1	0.21	0.552	NoA
194	9	Arsenic	14	mg/kg	10	4	12	0.238	Yes
194	9	Barium	135	mg/kg	1	1	200	140	NoAB
194	9	Beryllium	0.64	mg/kg	1	1	0.67	0.00567	NoB
194	9	Cadmium	0.11	mg/kg	1	1	0.21	0.811	NoAB
194	9	Calcium	1320	mg/kg	1	1	200000		NoB
194	9	Chromium	51.65	mg/kg	10	5	16	15.6	Yes
194	9	Cobalt	12.8	mg/kg	1	1	14	1.37	NoB
194	9	Copper	12.8	mg/kg	10	1	19	184	NoAB
194	9	Iron	21000	mg/kg	10	10	28000	3220	NoB
194	9	Lead	53.16	mg/kg	10	10	36	400	NoA
194	9	Magnesium	678	mg/kg	1	1	7700		NoB
194	9	Manganese	1080	mg/kg	10	10	1500	419	NoB
194	9	Mercury	0.0212	mg/kg	10	1	0.2	0.213	NoAB
194	9	Molybdenum	1.8	mg/kg	10	1		23	NoA
194	9	Nickel	9.4	mg/kg	10	1	21	10.4	NoAB
194	9	Selenium	1.4	mg/kg	10	1	0.8	23	NoA
194	9	Silver	0.033	mg/kg	10	1	2.3	2.61	NoAB
194	9	Sodium	33	mg/kg	1	1	320		NoB
194	9	Thallium	0.16	mg/kg	1	1	0.21	0.368	NoAB
194	9	Total PAH	0.0151	mg/kg	1	1		0.0197	NoA
194	9	Uranium	9.89	mg/kg	10	2	4.9	13.8	NoA
194	9	Vanadium	33.6	mg/kg	1	1	38	0.0365	NoB
194	9	Zinc	211.57	mg/kg	10	10	65	1380	NoA
194	9	Americium-241	0.0052	pCi/g	1	1		1.5	NoA
194	9	Cesium-137	0.26	pCi/g	1	1	0.49	0.0267	NoB
194	9	Neptunium-237	0.0012	pCi/g	1	1	0.1	0.0839	NoAB
194	9	Plutonium-238	0.014	pCi/g	1	1	0.073	3.21	NoAB
194	9	Plutonium-239/240	0.014	pCi/g	1	1	0.025	3.15	NoAB
194	9	Technetium-99	0.2	pCi/g	1	1	2.5	101	NoAB
194	9	Thorium-228	1.08	pCi/g	1	1	1.6		NoB
194	9	Thorium-230	1.06	pCi/g	1	1	1.5	4.1	NoAB
194	9	Thorium-232	1.01	pCi/g	1	1	1.5		NoB
194	9	Uranium-234	0.87	pCi/g	1	1	1.2	5.47	NoAB
194	9	Uranium-235	0.047	pCi/g	1	1	0.06	0.122	NoAB
194	9	Uranium-238	1.1	pCi/g	1	1	1.2	0.517	NoB
194	10	Aluminum	4880	mg/kg	1	1	13000	4410	NoB
194	10	Antimony	0.3	mg/kg	1	1	0.21	0.552	NoA
194	10	Arsenic	14.08	mg/kg	8	3	12	0.238	Yes
194	10	Barium	55.9	mg/kg	1	1	200	140	NoAB
194	10	Benzo(ghi)perylene	0.097	mg/kg	1	1			NoC
194	10	Beryllium	0.36	mg/kg	1	1	0.67	0.00567	NoB
194	10	Cadmium	0.29	mg/kg	1	1	0.21	0.811	NoA
194	10	Calcium	56000	mg/kg	1	1	200000		NoB
194	10	Chromium	36.29	mg/kg	8	2	16	15.6	Yes
194	10	Cobalt	5	mg/kg	1	1	14	1.37	NoB
194	10	Copper	8.3	mg/kg	8	1	19	184	NoAB
194	10	Fluoranthene	0.25	mg/kg	1	1		109	NoA
194	10	Iron	14297.32	mg/kg	8	8	28000	3220	NoB
194	10	Lead	98.86	mg/kg	8	8	36	400	NoA
194	10	Magnesium	3010	mg/kg	1	1	7700		NoB
194	10	Manganese	273	mg/kg	8	8	1500	419	NoAB
194	10	Mercury	0.0385	mg/kg	8	1	0.2	0.213	NoAB
194	10	Molybdenum	0.78	mg/kg	8	1		23	NoA
194	10	Nickel	75.99	mg/kg	8	3	21	10.4	Yes
194	10	Phenanthrene	0.082	mg/kg	1	1			NoC
194	10	Pyrene	0.18	mg/kg	1	1		81.2	NoA

SWMU = solid waste management unit
 EU = exposure unit
 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	10	Selenium	0.93	mg/kg	8	1	0.8	23	NoA
194	10	Silver	0.054	mg/kg	8	1	2.3	2.61	NoAB
194	10	Sodium	180	mg/kg	1	1	320		NoB
194	10	Thallium	0.098	mg/kg	1	1	0.21	0.368	NoAB
194	10	Total PAH	0.25715	mg/kg	1	1		0.0197	Yes
194	10	Uranium	7.21	mg/kg	8	2	4.9	13.8	NoA
194	10	Vanadium	18.5	mg/kg	1	1	38	0.0365	NoB
194	10	Zinc	315.61	mg/kg	8	8	65	1380	NoA
194	10	Americium-241	0.01	pCi/g	1	1		1.5	NoA
194	10	Cesium-137	0.581	pCi/g	1	1	0.49	0.0267	Yes
194	10	Neptunium-237	-0.0033	pCi/g	1	1	0.1	0.0839	NoAB
194	10	Plutonium-238	0.0089	pCi/g	1	1	0.073	3.21	NoAB
194	10	Plutonium-239/240	0.048	pCi/g	1	1	0.025	3.15	NoA
194	10	Technetium-99	0.31	pCi/g	1	1	2.5	101	NoAB
194	10	Thorium-228	0.778	pCi/g	1	1	1.6		NoB
194	10	Thorium-230	1	pCi/g	1	1	1.5	4.1	NoAB
194	10	Thorium-232	0.724	pCi/g	1	1	1.5		NoB
194	10	Uranium-234	1	pCi/g	1	1	1.2	5.47	NoAB
194	10	Uranium-235	0.054	pCi/g	1	1	0.06	0.122	NoAB
194	10	Uranium-238	1.49	pCi/g	1	1	1.2	0.517	Yes
194	11	Aluminum	4340	mg/kg	1	1	13000	4410	NoAB
194	11	Antimony	0.16	mg/kg	1	1	0.21	0.552	NoAB
194	11	Arsenic	9.45	mg/kg	12	2	12	0.238	NoB
194	11	Barium	90.8	mg/kg	1	1	200	140	NoAB
194	11	Beryllium	0.23	mg/kg	1	1	0.67	0.00567	NoB
194	11	Cadmium	0.5	mg/kg	1	1	0.21	0.811	NoA
194	11	Calcium	262000	mg/kg	1	1	200000		NoE
194	11	Chromium	32.68	mg/kg	12	3	16	15.6	Yes
194	11	Cobalt	3	mg/kg	1	1	14	1.37	NoB
194	11	Copper	26.6	mg/kg	12	2	19	184	NoA
194	11	Fluoranthene	0.14	mg/kg	1	1		109	NoA
194	11	Iron	13873.81	mg/kg	12	12	28000	3220	NoB
194	11	Lead	26.26	mg/kg	12	10	36	400	NoAB
194	11	Magnesium	12800	mg/kg	1	1	7700		NoE
194	11	Manganese	317.37	mg/kg	12	10	1500	419	NoAB
194	11	Mercury	8.09	mg/kg	12	2	0.2	0.213	Yes
194	11	Molybdenum	0.74	mg/kg	12	1		23	NoA
194	11	Nickel	100.68	mg/kg	12	7	21	10.4	Yes
194	11	PCB, Total	0.084	mg/kg	12	1		0.0648	Yes
194	11	Phenanthrene	0.067	mg/kg	1	1			NoC
194	11	Pyrene	0.096	mg/kg	1	1		81.2	NoA
194	11	Selenium	0.73	mg/kg	12	1	0.8	23	NoAB
194	11	Silver	13.29	mg/kg	12	3	2.3	2.61	Yes
194	11	Sodium	176	mg/kg	1	1	320		NoB
194	11	Total PAH	0.079526	mg/kg	1	1		0.0197	Yes
194	11	Uranium	2.98	mg/kg	12	1	4.9	13.8	NoAB
194	11	Vanadium	12.1	mg/kg	1	1	38	0.0365	NoB
194	11	Zinc	368.09	mg/kg	12	12	65	1380	NoA
194	11	Americium-241	0.0007	pCi/g	1	1		1.5	NoA
194	11	Cesium-137	0.003	pCi/g	1	1	0.49	0.0267	NoAB
194	11	Neptunium-237	-0.0056	pCi/g	1	1	0.1	0.0839	NoAB
194	11	Plutonium-238	0.0174	pCi/g	1	1	0.073	3.21	NoAB
194	11	Plutonium-239/240	0.0061	pCi/g	1	1	0.025	3.15	NoAB
194	11	Technetium-99	0.04	pCi/g	1	1	2.5	101	NoAB
194	11	Thorium-228	0.365	pCi/g	1	1	1.6		NoB
194	11	Thorium-230	0.68	pCi/g	1	1	1.5	4.1	NoAB
194	11	Thorium-232	0.319	pCi/g	1	1	1.5		NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	11	Uranium-234	0.89	pCi/g	1	1	1.2	5.47	NoAB
194	11	Uranium-235	0.02	pCi/g	1	1	0.06	0.122	NoAB
194	11	Uranium-238	1	pCi/g	1	1	1.2	0.517	NoB
194	12	Acenaphthene	0.11	mg/kg	1	1		117	NoA
194	12	Aluminum	5760	mg/kg	1	1	13000	4410	NoB
194	12	Anthracene	0.23	mg/kg	1	1		747	NoA
194	12	Antimony	0.39	mg/kg	1	1	0.21	0.552	NoA
194	12	Arsenic	7.9	mg/kg	8	3	12	0.238	NoB
194	12	Barium	98	mg/kg	1	1	200	140	NoAB
194	12	Benzo(ghi)perylene	0.62	mg/kg	1	1			NoC
194	12	Beryllium	0.52	mg/kg	1	1	0.67	0.00567	NoB
194	12	Cadmium	0.14	mg/kg	1	1	0.21	0.811	NoAB
194	12	Calcium	47900	mg/kg	1	1	200000		NoB
194	12	Chromium	63.36	mg/kg	8	4	16	15.6	Yes
194	12	Cobalt	6.2	mg/kg	1	1	14	1.37	NoB
194	12	Copper	10	mg/kg	8	1	19	184	NoAB
194	12	Fluoranthene	1.9	mg/kg	1	1		109	NoA
194	12	Fluorene	0.084	mg/kg	1	1		91.5	NoA
194	12	Iron	16900	mg/kg	8	8	28000	3220	NoB
194	12	Lead	16.99	mg/kg	8	8	36	400	NoAB
194	12	Magnesium	2790	mg/kg	1	1	7700		NoB
194	12	Manganese	524.79	mg/kg	8	8	1500	419	NoB
194	12	Mercury	0.0169	mg/kg	8	1	0.2	0.213	NoAB
194	12	Molybdenum	0.81	mg/kg	8	1		23	NoA
194	12	Nickel	78.6	mg/kg	8	3	21	10.4	Yes
194	12	Phenanthrene	1	mg/kg	1	1			NoC
194	12	Pyrene	1.6	mg/kg	1	1		81.2	NoA
194	12	Selenium	1.2	mg/kg	8	1	0.8	23	NoA
194	12	Silver	11.98	mg/kg	8	2	2.3	2.61	Yes
194	12	Sodium	42.8	mg/kg	1	1	320		NoB
194	12	Thallium	0.2	mg/kg	1	1	0.21	0.368	NoAB
194	12	Total PAH	0.89142	mg/kg	1	1		0.0197	Yes
194	12	Uranium	2.24	mg/kg	8	1	4.9	13.8	NoAB
194	12	Vanadium	25.2	mg/kg	1	1	38	0.0365	NoB
194	12	Zinc	57.63	mg/kg	8	8	65	1380	NoAB
194	12	Americium-241	0.0083	pCi/g	1	1		1.5	NoA
194	12	Cesium-137	-0.001	pCi/g	1	1	0.49	0.0267	NoAB
194	12	Neptunium-237	-0.0036	pCi/g	1	1	0.1	0.0839	NoAB
194	12	Plutonium-238	0.012	pCi/g	1	1	0.073	3.21	NoAB
194	12	Plutonium-239/240	-0.0008	pCi/g	1	1	0.025	3.15	NoAB
194	12	Technetium-99	-0.1	pCi/g	1	1	2.5	101	NoAB
194	12	Thorium-228	0.8	pCi/g	1	1	1.6		NoB
194	12	Thorium-230	1	pCi/g	1	1	1.5	4.1	NoAB
194	12	Thorium-232	0.81	pCi/g	1	1	1.5		NoB
194	12	Uranium-234	0.646	pCi/g	1	1	1.2	5.47	NoAB
194	12	Uranium-235	0.033	pCi/g	1	1	0.06	0.122	NoAB
194	12	Uranium-238	0.75	pCi/g	1	1	1.2	0.517	NoB
194	13	Aluminum	5750	mg/kg	1	1	13000	4410	NoB
194	13	Antimony	0.32	mg/kg	1	1	0.21	0.552	NoA
194	13	Arsenic	9.9	mg/kg	9	3	12	0.238	NoB
194	13	Barium	118	mg/kg	1	1	200	140	NoAB
194	13	Beryllium	0.55	mg/kg	1	1	0.67	0.00567	NoB
194	13	Bis(2-ethylhexyl)phthalate	0.14	mg/kg	1	1		12.5	NoA
194	13	Cadmium	0.26	mg/kg	1	1	0.21	0.811	NoA
194	13	Calcium	98700	mg/kg	1	1	200000		NoB
194	13	Chromium	47.65	mg/kg	9	4	16	15.6	Yes
194	13	Cobalt	8.5	mg/kg	1	1	14	1.37	NoB

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A = <Child Resident NAL B = <Background

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	13	Copper	41.61	mg/kg	9	2	19	184	NoA
194	13	Fluoranthene	0.056	mg/kg	1	1		109	NoA
194	13	Iron	24000	mg/kg	9	9	28000	3220	NoB
194	13	Lead	25.8	mg/kg	9	9	36	400	NoAB
194	13	Magnesium	2690	mg/kg	1	1	7700		NoB
194	13	Manganese	562	mg/kg	9	9	1500	419	NoB
194	13	Mercury	0.0327	mg/kg	9	1	0.2	0.213	NoAB
194	13	Molybdenum	0.76	mg/kg	9	1		23	NoA
194	13	Nickel	60.31	mg/kg	9	2	21	10.4	Yes
194	13	Pyrene	0.049	mg/kg	1	1		81.2	NoA
194	13	Selenium	1.3	mg/kg	9	1	0.8	23	NoA
194	13	Silver	0.12	mg/kg	9	1	2.3	2.61	NoAB
194	13	Sodium	74.1	mg/kg	1	1	320		NoB
194	13	Thallium	0.19	mg/kg	1	1	0.21	0.368	NoAB
194	13	Total PAH	0.091347	mg/kg	1	1		0.0197	Yes
194	13	Uranium	2.02	mg/kg	9	1	4.9	13.8	NoAB
194	13	Vanadium	26.3	mg/kg	1	1	38	0.0365	NoB
194	13	Zinc	64.03	mg/kg	9	9	65	1380	NoAB
194	13	Americium-241	-0.0006	pCi/g	1	1		1.5	NoA
194	13	Cesium-137	0.028	pCi/g	1	1	0.49	0.0267	NoB
194	13	Neptunium-237	-0.0043	pCi/g	1	1	0.1	0.0839	NoAB
194	13	Plutonium-238	0.0012	pCi/g	1	1	0.073	3.21	NoAB
194	13	Plutonium-239/240	0.0123	pCi/g	1	1	0.025	3.15	NoAB
194	13	Technetium-99	0.16	pCi/g	1	1	2.5	101	NoAB
194	13	Thorium-228	0.762	pCi/g	1	1	1.6		NoB
194	13	Thorium-230	1.04	pCi/g	1	1	1.5	4.1	NoAB
194	13	Thorium-232	0.8	pCi/g	1	1	1.5		NoB
194	13	Uranium-234	0.599	pCi/g	1	1	1.2	5.47	NoAB
194	13	Uranium-235	0.023	pCi/g	1	1	0.06	0.122	NoAB
194	13	Uranium-238	0.677	pCi/g	1	1	1.2	0.517	NoB
194	14	Aluminum	11500	mg/kg	1	1	13000	4410	NoB
194	14	Antimony	0.39	mg/kg	1	1	0.21	0.552	NoA
194	14	Arsenic	10.15	mg/kg	14	8	12	0.238	NoB
194	14	Barium	128	mg/kg	1	1	200	140	NoAB
194	14	Beryllium	0.53	mg/kg	1	1	0.67	0.00567	NoB
194	14	Cadmium	0.032	mg/kg	1	1	0.21	0.811	NoAB
194	14	Calcium	214	mg/kg	1	1	200000		NoB
194	14	Chromium	52.12	mg/kg	14	8	16	15.6	Yes
194	14	Cobalt	11.2	mg/kg	1	1	14	1.37	NoB
194	14	Copper	9.4	mg/kg	14	1	19	184	NoAB
194	14	Iron	17200	mg/kg	14	14	28000	3220	NoB
194	14	Lead	21.45	mg/kg	14	14	36	400	NoAB
194	14	Magnesium	1370	mg/kg	1	1	7700		NoB
194	14	Manganese	1420	mg/kg	14	14	1500	419	NoB
194	14	Mercury	8.14	mg/kg	14	2	0.2	0.213	Yes
194	14	Molybdenum	0.92	mg/kg	14	1		23	NoA
194	14	Nickel	11	mg/kg	14	1	21	10.4	NoB
194	14	Selenium	1	mg/kg	14	1	0.8	23	NoA
194	14	Silver	0.036	mg/kg	14	1	2.3	2.61	NoAB
194	14	Sodium	36.8	mg/kg	1	1	320		NoB
194	14	Thallium	0.25	mg/kg	1	1	0.21	0.368	NoA
194	14	Uranium	2.91	mg/kg	14	1	4.9	13.8	NoAB
194	14	Vanadium	30.8	mg/kg	1	1	38	0.0365	NoB
194	14	Zinc	60.78	mg/kg	14	14	65	1380	NoAB
194	14	Americium-241	-0.002	pCi/g	1	1		1.5	NoA
194	14	Cesium-137	0.00007	pCi/g	1	1	0.49	0.0267	NoAB
194	14	Neptunium-237	0	pCi/g	1	1	0.1	0.0839	NoAB

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	14	Plutonium-238	0.017	pCi/g	1	1	0.073	3.21	NoAB
194	14	Plutonium-239/240	0.0015	pCi/g	1	1	0.025	3.15	NoAB
194	14	Technetium-99	0.32	pCi/g	1	1	2.5	101	NoAB
194	14	Thorium-228	0.99	pCi/g	1	1	1.6		NoB
194	14	Thorium-230	1.04	pCi/g	1	1	1.5	4.1	NoAB
194	14	Thorium-232	0.92	pCi/g	1	1	1.5		NoB
194	14	Uranium-234	0.838	pCi/g	1	1	1.2	5.47	NoAB
194	14	Uranium-235	0.054	pCi/g	1	1	0.06	0.122	NoAB
194	14	Uranium-238	0.97	pCi/g	1	1	1.2	0.517	NoB
194	15	Arsenic	11.74	mg/kg	13	6	12	0.238	NoB
194	15	Chromium	53.33	mg/kg	13	5	16	15.6	Yes
194	15	Iron	15440.02	mg/kg	13	13	28000	3220	NoB
194	15	Lead	29.22	mg/kg	13	12	36	400	NoAB
194	15	Manganese	827.74	mg/kg	13	13	1500	419	NoB
194	15	Silver	11.68	mg/kg	13	1	2.3	2.61	Yes
194	15	Zinc	53.19	mg/kg	13	13	65	1380	NoAB
194	16	Aluminum	6230	mg/kg	1	1	13000	4410	NoB
194	16	Antimony	0.74	mg/kg	1	1	0.21	0.552	Yes
194	16	Arsenic	17.8	mg/kg	18	6	12	0.238	Yes
194	16	Barium	71.8	mg/kg	1	1	200	140	NoAB
194	16	Beryllium	0.87	mg/kg	1	1	0.67	0.00567	Yes
194	16	Cadmium	0.13	mg/kg	1	1	0.21	0.811	NoAB
194	16	Calcium	11300	mg/kg	1	1	200000		NoB
194	16	Chromium	53.24	mg/kg	18	10	16	15.6	Yes
194	16	Cobalt	6.9	mg/kg	1	1	14	1.37	NoB
194	16	Copper	11.5	mg/kg	18	1	19	184	NoAB
194	16	Iron	26700	mg/kg	18	18	28000	3220	NoB
194	16	Lead	22.72	mg/kg	18	18	36	400	NoAB
194	16	Magnesium	1170	mg/kg	1	1	7700		NoB
194	16	Manganese	849	mg/kg	18	18	1500	419	NoB
194	16	Mercury	0.0262	mg/kg	18	1	0.2	0.213	NoAB
194	16	Molybdenum	1.9	mg/kg	18	1		23	NoA
194	16	Nickel	72.03	mg/kg	18	4	21	10.4	Yes
194	16	Selenium	1.4	mg/kg	18	1	0.8	23	NoA
194	16	Silver	0.033	mg/kg	18	1	2.3	2.61	NoAB
194	16	Sodium	33.6	mg/kg	1	1	320		NoB
194	16	Thallium	0.63	mg/kg	1	1	0.21	0.368	Yes
194	16	Total PAH	0.0062	mg/kg	1	1		0.0197	NoA
194	16	Uranium	3.17	mg/kg	18	1	4.9	13.8	NoAB
194	16	Vanadium	41.1	mg/kg	1	1	38	0.0365	Yes
194	16	Zinc	69.31	mg/kg	18	18	65	1380	NoA
194	16	Americium-241	0.001	pCi/g	1	1		1.5	NoA
194	16	Cesium-137	0.239	pCi/g	1	1	0.49	0.0267	NoB
194	16	Neptunium-237	0.01	pCi/g	1	1	0.1	0.0839	NoAB
194	16	Plutonium-238	0.022	pCi/g	1	1	0.073	3.21	NoAB
194	16	Plutonium-239/240	0.012	pCi/g	1	1	0.025	3.15	NoAB
194	16	Technetium-99	0.34	pCi/g	1	1	2.5	101	NoAB
194	16	Thorium-228	0.89	pCi/g	1	1	1.6		NoB
194	16	Thorium-230	1.07	pCi/g	1	1	1.5	4.1	NoAB
194	16	Thorium-232	0.97	pCi/g	1	1	1.5		NoB
194	16	Uranium-234	1.12	pCi/g	1	1	1.2	5.47	NoAB
194	16	Uranium-235	0.056	pCi/g	1	1	0.06	0.122	NoAB
194	16	Uranium-238	1.06	pCi/g	1	1	1.2	0.517	NoB
194	17	Aluminum	2230	mg/kg	1	1	13000	4410	NoAB
194	17	Antimony	0.15	mg/kg	1	1	0.21	0.552	NoAB
194	17	Arsenic	13.96	mg/kg	8	5	12	0.238	Yes
194	17	Barium	30.7	mg/kg	1	1	200	140	NoAB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	17	Benzo(ghi)perylene	0.054	mg/kg	1	1			NoC
194	17	Beryllium	0.26	mg/kg	1	1	0.67	0.00567	NoB
194	17	Bis(2-ethylhexyl)phthalate	0.094	mg/kg	1	1		12.5	NoA
194	17	Cadmium	1.1	mg/kg	1	1	0.21	0.811	Yes
194	17	Calcium	112000	mg/kg	1	1	200000		NoB
194	17	Chromium	46.48	mg/kg	8	5	16	15.6	Yes
194	17	Cobalt	3.2	mg/kg	1	1	14	1.37	NoB
194	17	Copper	24.27	mg/kg	8	2	19	184	NoA
194	17	Fluoranthene	0.2	mg/kg	1	1		109	NoA
194	17	Iron	20461.47	mg/kg	8	8	28000	3220	NoB
194	17	Lead	101.67	mg/kg	8	8	36	400	NoA
194	17	Magnesium	7460	mg/kg	1	1	7700		NoB
194	17	Manganese	341.97	mg/kg	8	8	1500	419	NoAB
194	17	Molybdenum	1.2	mg/kg	8	1		23	NoA
194	17	Nickel	7.7	mg/kg	8	1	21	10.4	NoAB
194	17	Phenanthrene	0.064	mg/kg	1	1			NoC
194	17	Pyrene	0.14	mg/kg	1	1		81.2	NoA
194	17	Selenium	0.57	mg/kg	8	1	0.8	23	NoAB
194	17	Silver	0.056	mg/kg	8	1	2.3	2.61	NoAB
194	17	Sodium	148	mg/kg	1	1	320		NoB
194	17	Thallium	0.084	mg/kg	1	1	0.21	0.368	NoAB
194	17	Total PAH	0.15866	mg/kg	1	1		0.0197	Yes
194	17	Uranium	7.51	mg/kg	8	2	4.9	13.8	NoA
194	17	Vanadium	15.8	mg/kg	1	1	38	0.0365	NoB
194	17	Zinc	640.18	mg/kg	8	8	65	1380	NoA
194	17	Americium-241	0.0017	pCi/g	1	1		1.5	NoA
194	17	Cesium-137	0.332	pCi/g	1	1	0.49	0.0267	NoB
194	17	Neptunium-237	0.008	pCi/g	1	1	0.1	0.0839	NoAB
194	17	Plutonium-238	0.0097	pCi/g	1	1	0.073	3.21	NoAB
194	17	Plutonium-239/240	0.02	pCi/g	1	1	0.025	3.15	NoAB
194	17	Technetium-99	0.03	pCi/g	1	1	2.5	101	NoAB
194	17	Thorium-228	0.156	pCi/g	1	1	1.6		NoB
194	17	Thorium-230	0.7	pCi/g	1	1	1.5	4.1	NoAB
194	17	Thorium-232	0.179	pCi/g	1	1	1.5		NoB
194	17	Uranium-234	0.75	pCi/g	1	1	1.2	5.47	NoAB
194	17	Uranium-235	0.04	pCi/g	1	1	0.06	0.122	NoAB
194	17	Uranium-238	0.98	pCi/g	1	1	1.2	0.517	NoB
194	18	Aluminum	11800	mg/kg	1	1	13000	4410	NoB
194	18	Antimony	0.49	mg/kg	1	1	0.21	0.552	NoA
194	18	Arsenic	13.5	mg/kg	12	10	12	0.238	Yes
194	18	Barium	128	mg/kg	1	1	200	140	NoAB
194	18	Beryllium	0.74	mg/kg	1	1	0.67	0.00567	Yes
194	18	Cadmium	0.1	mg/kg	1	1	0.21	0.811	NoAB
194	18	Calcium	3180	mg/kg	1	1	200000		NoB
194	18	Chromium	68.48	mg/kg	12	5	16	15.6	Yes
194	18	Cobalt	9.9	mg/kg	1	1	14	1.37	NoB
194	18	Copper	31.21	mg/kg	12	2	19	184	NoA
194	18	Iron	21300	mg/kg	12	12	28000	3220	NoB
194	18	Lead	19.4	mg/kg	12	11	36	400	NoAB
194	18	Magnesium	1620	mg/kg	1	1	7700		NoB
194	18	Manganese	974.49	mg/kg	12	12	1500	419	NoB
194	18	Mercury	0.0604	mg/kg	12	1	0.2	0.213	NoAB
194	18	Molybdenum	1	mg/kg	12	1		23	NoA
194	18	Nickel	57.79	mg/kg	12	2	21	10.4	Yes
194	18	Selenium	1	mg/kg	12	1	0.8	23	NoA
194	18	Silver	0.62	mg/kg	12	1	2.3	2.61	NoAB
194	18	Sodium	26.4	mg/kg	1	1	320		NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	18	Thallium	0.2	mg/kg	1	1	0.21	0.368	NoAB
194	18	Uranium	7.93	mg/kg	12	2	4.9	13.8	NoA
194	18	Vanadium	35.8	mg/kg	1	1	38	0.0365	NoB
194	18	Zinc	54.61	mg/kg	12	12	65	1380	NoAB
194	18	Americium-241	-0.0023	pCi/g	1	1		1.5	NoA
194	18	Cesium-137	0.139	pCi/g	1	1	0.49	0.0267	NoB
194	18	Neptunium-237	-0.0008	pCi/g	1	1	0.1	0.0839	NoAB
194	18	Plutonium-238	0.014	pCi/g	1	1	0.073	3.21	NoAB
194	18	Plutonium-239/240	0.022	pCi/g	1	1	0.025	3.15	NoAB
194	18	Technetium-99	0.25	pCi/g	1	1	2.5	101	NoAB
194	18	Thorium-228	0.82	pCi/g	1	1	1.6		NoB
194	18	Thorium-230	0.87	pCi/g	1	1	1.5	4.1	NoAB
194	18	Thorium-232	0.77	pCi/g	1	1	1.5		NoB
194	18	Uranium-234	0.73	pCi/g	1	1	1.2	5.47	NoAB
194	18	Uranium-235	0.05	pCi/g	1	1	0.06	0.122	NoAB
194	18	Uranium-238	0.86	pCi/g	1	1	1.2	0.517	NoB
194	19	Aluminum	9970	mg/kg	1	1	13000	4410	NoB
194	19	Antimony	0.49	mg/kg	1	1	0.21	0.552	NoA
194	19	Arsenic	12	mg/kg	9	4	12	0.238	Yes
194	19	Barium	110	mg/kg	1	1	200	140	NoAB
194	19	Beryllium	0.54	mg/kg	1	1	0.67	0.00567	NoB
194	19	Bis(2-ethylhexyl)phthalate	0.095	mg/kg	1	1		12.5	NoA
194	19	Cadmium	0.063	mg/kg	1	1	0.21	0.811	NoAB
194	19	Calcium	2500	mg/kg	1	1	200000		NoB
194	19	Chromium	48.35	mg/kg	9	5	16	15.6	Yes
194	19	Cobalt	5.8	mg/kg	1	1	14	1.37	NoB
194	19	Copper	25.1	mg/kg	9	2	19	184	NoA
194	19	Iron	15606.53	mg/kg	9	9	28000	3220	NoB
194	19	Lead	38.22	mg/kg	9	8	36	400	NoA
194	19	Magnesium	1320	mg/kg	1	1	7700		NoB
194	19	Manganese	754.79	mg/kg	9	8	1500	419	NoB
194	19	Mercury	0.0306	mg/kg	9	1	0.2	0.213	NoAB
194	19	Molybdenum	19.56	mg/kg	9	2		23	NoA
194	19	Nickel	58.38	mg/kg	9	2	21	10.4	Yes
194	19	Selenium	1.3	mg/kg	9	1	0.8	23	NoA
194	19	Silver	0.04	mg/kg	9	1	2.3	2.61	NoAB
194	19	Sodium	31.7	mg/kg	1	1	320		NoB
194	19	Thallium	0.14	mg/kg	1	1	0.21	0.368	NoAB
194	19	Total PAH	0.0096	mg/kg	1	1		0.0197	NoA
194	19	Uranium	2.86	mg/kg	9	1	4.9	13.8	NoAB
194	19	Vanadium	25.2	mg/kg	1	1	38	0.0365	NoB
194	19	Zinc	51.39	mg/kg	9	8	65	1380	NoAB
194	19	Americium-241	0.016	pCi/g	1	1		1.5	NoA
194	19	Cesium-137	0.206	pCi/g	1	1	0.49	0.0267	NoB
194	19	Neptunium-237	-0.005	pCi/g	1	1	0.1	0.0839	NoAB
194	19	Plutonium-238	0.011	pCi/g	1	1	0.073	3.21	NoAB
194	19	Plutonium-239/240	0.007	pCi/g	1	1	0.025	3.15	NoAB
194	19	Technetium-99	0.35	pCi/g	1	1	2.5	101	NoAB
194	19	Thorium-228	1	pCi/g	1	1	1.6		NoB
194	19	Thorium-230	1.09	pCi/g	1	1	1.5	4.1	NoAB
194	19	Thorium-232	0.91	pCi/g	1	1	1.5		NoB
194	19	Uranium-234	0.93	pCi/g	1	1	1.2	5.47	NoAB
194	19	Uranium-235	0.04	pCi/g	1	1	0.06	0.122	NoAB
194	19	Uranium-238	0.96	pCi/g	1	1	1.2	0.517	NoB
194	20	Aluminum	8610	mg/kg	1	1	13000	4410	NoB
194	20	Antimony	0.37	mg/kg	1	1	0.21	0.552	NoA
194	20	Arsenic	16.4	mg/kg	13	6	12	0.238	Yes

SWMU = solid waste management unit

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A = <Child Resident NAL B = <Background

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	20	Barium	326	mg/kg	1	1	200	140	Yes
194	20	Beryllium	1.1	mg/kg	1	1	0.67	0.00567	Yes
194	20	Bis(2-ethylhexyl)phthalate	0.36	mg/kg	1	1		12.5	NoA
194	20	Cadmium	0.25	mg/kg	1	1	0.21	0.811	NoA
194	20	Calcium	1910	mg/kg	1	1	200000		NoB
194	20	Chromium	52.36	mg/kg	13	7	16	15.6	Yes
194	20	Cobalt	21.1	mg/kg	1	1	14	1.37	Yes
194	20	Copper	29.4	mg/kg	13	3	19	184	NoA
194	20	Iron	27800	mg/kg	13	13	28000	3220	NoB
194	20	Lead	46.5	mg/kg	13	13	36	400	NoA
194	20	Magnesium	1050	mg/kg	1	1	7700		NoB
194	20	Manganese	4670	mg/kg	13	13	1500	419	Yes
194	20	Mercury	7.28	mg/kg	13	2	0.2	0.213	Yes
194	20	Molybdenum	1.2	mg/kg	13	1		23	NoA
194	20	Nickel	65.7	mg/kg	13	2	21	10.4	Yes
194	20	Selenium	2.4	mg/kg	13	1	0.8	23	NoA
194	20	Silver	12.22	mg/kg	13	2	2.3	2.61	Yes
194	20	Sodium	41.3	mg/kg	1	1	320		NoB
194	20	Thallium	0.22	mg/kg	1	1	0.21	0.368	NoA
194	20	Total PAH	0.031	mg/kg	1	1		0.0197	Yes
194	20	Uranium	7.17	mg/kg	13	2	4.9	13.8	NoA
194	20	Vanadium	38.1	mg/kg	1	1	38	0.0365	Yes
194	20	Zinc	52.82	mg/kg	13	13	65	1380	NoAB
194	20	Americium-241	0.033	pCi/g	1	1		1.5	NoA
194	20	Cesium-137	0.217	pCi/g	1	1	0.49	0.0267	NoB
194	20	Neptunium-237	-0.0062	pCi/g	1	1	0.1	0.0839	NoAB
194	20	Plutonium-238	0.014	pCi/g	1	1	0.073	3.21	NoAB
194	20	Plutonium-239/240	0.01	pCi/g	1	1	0.025	3.15	NoAB
194	20	Technetium-99	0.1	pCi/g	1	1	2.5	101	NoAB
194	20	Thorium-228	0.92	pCi/g	1	1	1.6		NoB
194	20	Thorium-230	1.03	pCi/g	1	1	1.5	4.1	NoAB
194	20	Thorium-232	0.98	pCi/g	1	1	1.5		NoB
194	20	Uranium-234	0.86	pCi/g	1	1	1.2	5.47	NoAB
194	20	Uranium-235	0.043	pCi/g	1	1	0.06	0.122	NoAB
194	20	Uranium-238	0.97	pCi/g	1	1	1.2	0.517	NoB
194	21	Aluminum	5000	mg/kg	1	1	13000	4410	NoB
194	21	Antimony	0.93	mg/kg	1	1	0.21	0.552	Yes
194	21	Arsenic	6.97	mg/kg	4	2	12	0.238	NoB
194	21	Barium	48.2	mg/kg	1	1	200	140	NoAB
194	21	Beryllium	0.3	mg/kg	1	1	0.67	0.00567	NoB
194	21	Cadmium	0.21	mg/kg	1	1	0.21	0.811	NoA
194	21	Calcium	226000	mg/kg	1	1	200000		NoE
194	21	Chromium	55.09	mg/kg	4	3	16	15.6	Yes
194	21	Cobalt	3.9	mg/kg	1	1	14	1.37	NoB
194	21	Copper	5.6	mg/kg	4	1	19	184	NoAB
194	21	Iron	14049.51	mg/kg	4	4	28000	3220	NoB
194	21	Lead	16.63	mg/kg	4	4	36	400	NoAB
194	21	Magnesium	5770	mg/kg	1	1	7700		NoB
194	21	Manganese	293	mg/kg	4	4	1500	419	NoAB
194	21	Mercury	6.62	mg/kg	4	2	0.2	0.213	Yes
194	21	Molybdenum	1.2	mg/kg	4	1		23	NoA
194	21	Nickel	70.12	mg/kg	4	2	21	10.4	Yes
194	21	Selenium	4.03	mg/kg	4	2	0.8	23	NoA
194	21	Silver	0.076	mg/kg	4	1	2.3	2.61	NoAB
194	21	Sodium	174	mg/kg	1	1	320		NoB
194	21	Thallium	0.64	mg/kg	1	1	0.21	0.368	Yes
194	21	Total PAH	0.0141	mg/kg	1	1		0.0197	NoA

SWMU = solid waste management unit
 EU = exposure unit
 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	21	Uranium	2.77	mg/kg	4	1	4.9	13.8	NoAB
194	21	Vanadium	15.2	mg/kg	1	1	38	0.0365	NoB
194	21	Zinc	42.89	mg/kg	4	4	65	1380	NoAB
194	21	Americium-241	0.0007	pCi/g	1	1		1.5	NoA
194	21	Cesium-137	0.226	pCi/g	1	1	0.49	0.0267	NoB
194	21	Neptunium-237	-0.0024	pCi/g	1	1	0.1	0.0839	NoAB
194	21	Plutonium-238	0.041	pCi/g	1	1	0.073	3.21	NoAB
194	21	Plutonium-239/240	-0.0013	pCi/g	1	1	0.025	3.15	NoAB
194	21	Technetium-99	0.24	pCi/g	1	1	2.5	101	NoAB
194	21	Thorium-228	0.84	pCi/g	1	1	1.6		NoB
194	21	Thorium-230	1.29	pCi/g	1	1	1.5	4.1	NoAB
194	21	Thorium-232	0.86	pCi/g	1	1	1.5		NoB
194	21	Uranium-234	0.94	pCi/g	1	1	1.2	5.47	NoAB
194	21	Uranium-235	0.028	pCi/g	1	1	0.06	0.122	NoAB
194	21	Uranium-238	0.93	pCi/g	1	1	1.2	0.517	NoB
194	22	Aluminum	10500	mg/kg	1	1	13000	4410	NoB
194	22	Antimony	0.38	mg/kg	1	1	0.21	0.552	NoA
194	22	Arsenic	10.62	mg/kg	8	6	12	0.238	NoB
194	22	Barium	148	mg/kg	1	1	200	140	NoB
194	22	Benzoic acid	0.48	mg/kg	1	1		13036	NoA
194	22	Beryllium	0.61	mg/kg	1	1	0.67	0.00567	NoB
194	22	Cadmium	0.1	mg/kg	1	1	0.21	0.811	NoAB
194	22	Calcium	1110	mg/kg	1	1	200000		NoB
194	22	Chromium	48.98	mg/kg	8	6	16	15.6	Yes
194	22	Cobalt	13.9	mg/kg	1	1	14	1.37	NoB
194	22	Copper	21.81	mg/kg	8	2	19	184	NoA
194	22	Iron	17700	mg/kg	8	8	28000	3220	NoB
194	22	Lead	23.6	mg/kg	8	8	36	400	NoAB
194	22	Magnesium	1340	mg/kg	1	1	7700		NoB
194	22	Manganese	1700	mg/kg	8	8	1500	419	Yes
194	22	Mercury	0.0551	mg/kg	8	1	0.2	0.213	NoAB
194	22	Molybdenum	0.86	mg/kg	8	1		23	NoA
194	22	Nickel	14	mg/kg	8	1	21	10.4	NoB
194	22	PCB, Total	18	mg/kg	10	1		0.0648	Yes
194	22	Selenium	1.1	mg/kg	8	1	0.8	23	NoA
194	22	Silver	0.085	mg/kg	8	1	2.3	2.61	NoAB
194	22	Sodium	24.1	mg/kg	1	1	320		NoB
194	22	Thallium	0.23	mg/kg	1	1	0.21	0.368	NoA
194	22	Uranium	3.05	mg/kg	20	13	4.9	13.8	NoAB
194	22	Vanadium	31.7	mg/kg	1	1	38	0.0365	NoB
194	22	Zinc	41.2	mg/kg	8	8	65	1380	NoAB
194	22	Americium-241	-0.004	pCi/g	1	1		1.5	NoA
194	22	Cesium-137	0.288	pCi/g	2	2	0.49	0.0267	NoB
194	22	Neptunium-237	0.003	pCi/g	1	1	0.1	0.0839	NoAB
194	22	Plutonium-238	0.011	pCi/g	1	1	0.073	3.21	NoAB
194	22	Plutonium-239/240	0.018	pCi/g	1	1	0.025	3.15	NoAB
194	22	Technetium-99	0.37	pCi/g	2	2	2.5	101	NoAB
194	22	Thorium-228	0.71	pCi/g	1	1	1.6		NoB
194	22	Thorium-230	0.84	pCi/g	1	1	1.5	4.1	NoAB
194	22	Thorium-232	0.67	pCi/g	1	1	1.5		NoB
194	22	Uranium-234	0.95	pCi/g	2	2	1.2	5.47	NoAB
194	22	Uranium-235	0.011	pCi/g	2	2	0.06	0.122	NoAB
194	22	Uranium-238	1.02	pCi/g	2	2	1.2	0.517	NoB
194	23	Aluminum	9520	mg/kg	1	1	13000	4410	NoB
194	23	Antimony	0.41	mg/kg	1	1	0.21	0.552	NoA
194	23	Arsenic	18.03	mg/kg	12	7	12	0.238	Yes
194	23	Barium	88.1	mg/kg	1	1	200	140	NoAB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	23	Beryllium	0.55	mg/kg	1	1	0.67	0.00567	NoB
194	23	Cadmium	0.053	mg/kg	1	1	0.21	0.811	NoAB
194	23	Calcium	529	mg/kg	1	1	200000		NoB
194	23	Chromium	65.97	mg/kg	12	7	16	15.6	Yes
194	23	Cobalt	7.2	mg/kg	1	1	14	1.37	NoB
194	23	Copper	29.31	mg/kg	12	3	19	184	NoA
194	23	Iron	33875.03	mg/kg	12	12	28000	3220	Yes
194	23	Lead	53.74	mg/kg	12	12	36	400	NoA
194	23	Magnesium	1190	mg/kg	1	1	7700		NoB
194	23	Manganese	767.45	mg/kg	12	12	1500	419	NoB
194	23	Mercury	0.0236	mg/kg	12	1	0.2	0.213	NoAB
194	23	Molybdenum	0.69	mg/kg	12	1		23	NoA
194	23	Nickel	88.92	mg/kg	12	5	21	10.4	Yes
194	23	Selenium	1.4	mg/kg	12	1	0.8	23	NoA
194	23	Silver	11.48	mg/kg	12	2	2.3	2.61	Yes
194	23	Sodium	29.1	mg/kg	1	1	320		NoB
194	23	Thallium	0.16	mg/kg	1	1	0.21	0.368	NoAB
194	23	Total PAH	0.0099	mg/kg	1	1		0.0197	NoA
194	23	Uranium	8	mg/kg	12	2	4.9	13.8	NoA
194	23	Vanadium	31.5	mg/kg	1	1	38	0.0365	NoB
194	23	Zinc	226.89	mg/kg	12	12	65	1380	NoA
194	23	Americium-241	0.0007	pCi/g	1	1		1.5	NoA
194	23	Cesium-137	0.283	pCi/g	1	1	0.49	0.0267	NoB
194	23	Neptunium-237	-0.002	pCi/g	1	1	0.1	0.0839	NoAB
194	23	Plutonium-238	0.023	pCi/g	1	1	0.073	3.21	NoAB
194	23	Plutonium-239/240	0.01	pCi/g	1	1	0.025	3.15	NoAB
194	23	Technetium-99	0.19	pCi/g	1	1	2.5	101	NoAB
194	23	Thorium-228	0.9	pCi/g	1	1	1.6		NoB
194	23	Thorium-230	1.01	pCi/g	1	1	1.5	4.1	NoAB
194	23	Thorium-232	0.97	pCi/g	1	1	1.5		NoB
194	23	Uranium-234	0.83	pCi/g	1	1	1.2	5.47	NoAB
194	23	Uranium-235	0.081	pCi/g	1	1	0.06	0.122	NoA
194	23	Uranium-238	0.96	pCi/g	1	1	1.2	0.517	NoB
194	24	Aluminum	10600	mg/kg	1	1	13000	4410	NoB
194	24	Antimony	0.55	mg/kg	1	1	0.21	0.552	NoA
194	24	Arsenic	9.37	mg/kg	13	8	12	0.238	NoB
194	24	Barium	115	mg/kg	1	1	200	140	NoAB
194	24	Beryllium	0.63	mg/kg	1	1	0.67	0.00567	NoB
194	24	Cadmium	0.11	mg/kg	1	1	0.21	0.811	NoAB
194	24	Calcium	8780	mg/kg	1	1	200000		NoB
194	24	Chromium	50.21	mg/kg	13	8	16	15.6	Yes
194	24	Cobalt	9	mg/kg	1	1	14	1.37	NoB
194	24	Copper	21.79	mg/kg	13	3	19	184	NoA
194	24	Iron	20100	mg/kg	13	13	28000	3220	NoB
194	24	Lead	16.77	mg/kg	13	12	36	400	NoAB
194	24	Magnesium	1790	mg/kg	1	1	7700		NoB
194	24	Manganese	983.61	mg/kg	13	13	1500	419	NoB
194	24	Mercury	0.0351	mg/kg	13	1	0.2	0.213	NoAB
194	24	Molybdenum	0.93	mg/kg	13	1		23	NoA
194	24	Nickel	84.13	mg/kg	13	2	21	10.4	Yes
194	24	Selenium	1.4	mg/kg	13	1	0.8	23	NoA
194	24	Silver	0.046	mg/kg	13	1	2.3	2.61	NoAB
194	24	Sodium	36.4	mg/kg	1	1	320		NoB
194	24	Thallium	0.21	mg/kg	1	1	0.21	0.368	NoA
194	24	Total PAH	0.0228	mg/kg	1	1		0.0197	Yes
194	24	Uranium	6.43	mg/kg	13	2	4.9	13.8	NoA
194	24	Vanadium	29.9	mg/kg	1	1	38	0.0365	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	24	Zinc	49.08	mg/kg	13	13	65	1380	NoAB
194	24	Americium-241	0.01	pCi/g	1	1		1.5	NoA
194	24	Cesium-137	0.32	pCi/g	1	1	0.49	0.0267	NoB
194	24	Neptunium-237	-0.0028	pCi/g	1	1	0.1	0.0839	NoAB
194	24	Plutonium-238	0.013	pCi/g	1	1	0.073	3.21	NoAB
194	24	Plutonium-239/240	0.025	pCi/g	1	1	0.025	3.15	NoA
194	24	Technetium-99	0.23	pCi/g	1	1	2.5	101	NoAB
194	24	Thorium-228	0.75	pCi/g	1	1	1.6		NoB
194	24	Thorium-230	1.04	pCi/g	1	1	1.5	4.1	NoAB
194	24	Thorium-232	0.94	pCi/g	1	1	1.5		NoB
194	24	Uranium-234	0.84	pCi/g	1	1	1.2	5.47	NoAB
194	24	Uranium-235	0.051	pCi/g	1	1	0.06	0.122	NoAB
194	24	Uranium-238	1.02	pCi/g	1	1	1.2	0.517	NoB
194	25	Aluminum	7470	mg/kg	1	1	13000	4410	NoB
194	25	Antimony	0.33	mg/kg	1	1	0.21	0.552	NoA
194	25	Arsenic	10.9	mg/kg	5	1	12	0.238	NoB
194	25	Barium	300	mg/kg	1	1	200	140	Yes
194	25	Beryllium	0.65	mg/kg	1	1	0.67	0.00567	NoB
194	25	Cadmium	0.093	mg/kg	1	1	0.21	0.811	NoAB
194	25	Calcium	2340	mg/kg	1	1	200000		NoB
194	25	Chromium	61.25	mg/kg	5	4	16	15.6	Yes
194	25	Cobalt	9.6	mg/kg	1	1	14	1.37	NoB
194	25	Copper	10.2	mg/kg	5	1	19	184	NoAB
194	25	Iron	19200	mg/kg	5	5	28000	3220	NoB
194	25	Lead	24.6	mg/kg	5	5	36	400	NoAB
194	25	Magnesium	1180	mg/kg	1	1	7700		NoB
194	25	Manganese	1800	mg/kg	5	5	1500	419	Yes
194	25	Mercury	0.029	mg/kg	5	1	0.2	0.213	NoAB
194	25	Molybdenum	0.78	mg/kg	5	1		23	NoA
194	25	Nickel	63.32	mg/kg	5	2	21	10.4	Yes
194	25	Selenium	1.4	mg/kg	5	1	0.8	23	NoA
194	25	Silver	0.034	mg/kg	5	1	2.3	2.61	NoAB
194	25	Sodium	41.8	mg/kg	1	1	320		NoB
194	25	Thallium	0.17	mg/kg	1	1	0.21	0.368	NoAB
194	25	Total PAH	0.0206	mg/kg	1	1		0.0197	Yes
194	25	Uranium	3.22	mg/kg	5	1	4.9	13.8	NoAB
194	25	Vanadium	29.8	mg/kg	1	1	38	0.0365	NoB
194	25	Zinc	42.77	mg/kg	5	5	65	1380	NoAB
194	25	Americium-241	0.0049	pCi/g	1	1		1.5	NoA
194	25	Cesium-137	0.142	pCi/g	1	1	0.49	0.0267	NoB
194	25	Neptunium-237	0.005	pCi/g	1	1	0.1	0.0839	NoAB
194	25	Plutonium-238	0.0106	pCi/g	1	1	0.073	3.21	NoAB
194	25	Plutonium-239/240	0.0069	pCi/g	1	1	0.025	3.15	NoAB
194	25	Technetium-99	-0.06	pCi/g	1	1	2.5	101	NoAB
194	25	Thorium-228	1.1	pCi/g	1	1	1.6		NoB
194	25	Thorium-230	1.2	pCi/g	1	1	1.5	4.1	NoAB
194	25	Thorium-232	1.08	pCi/g	1	1	1.5		NoB
194	25	Uranium-234	0.83	pCi/g	1	1	1.2	5.47	NoAB
194	25	Uranium-235	0.043	pCi/g	1	1	0.06	0.122	NoAB
194	25	Uranium-238	1.07	pCi/g	1	1	1.2	0.517	NoB
194	26	Aluminum	11400	mg/kg	1	1	13000	4410	NoB
194	26	Antimony	0.45	mg/kg	1	1	0.21	0.552	NoA
194	26	Arsenic	9.09	mg/kg	10	4	12	0.238	NoB
194	26	Barium	117	mg/kg	1	1	200	140	NoAB
194	26	Beryllium	0.7	mg/kg	1	1	0.67	0.00567	Yes
194	26	Cadmium	0.029	mg/kg	1	1	0.21	0.811	NoAB
194	26	Calcium	683	mg/kg	1	1	200000		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	26	Chromium	41.82	mg/kg	10	3	16	15.6	Yes
194	26	Cobalt	9.4	mg/kg	1	1	14	1.37	NoB
194	26	Copper	19.14	mg/kg	10	2	19	184	NoA
194	26	Iron	16300	mg/kg	10	10	28000	3220	NoB
194	26	Lead	33.11	mg/kg	10	9	36	400	NoAB
194	26	Magnesium	1320	mg/kg	1	1	7700		NoB
194	26	Manganese	868	mg/kg	10	10	1500	419	NoB
194	26	Mercury	0.0401	mg/kg	10	1	0.2	0.213	NoAB
194	26	Molybdenum	0.74	mg/kg	10	1		23	NoA
194	26	Nickel	12.2	mg/kg	10	1	21	10.4	NoB
194	26	Selenium	1	mg/kg	10	1	0.8	23	NoA
194	26	Silver	10.27	mg/kg	10	2	2.3	2.61	Yes
194	26	Sodium	53.4	mg/kg	1	1	320		NoB
194	26	Thallium	0.39	mg/kg	1	1	0.21	0.368	Yes
194	26	Uranium	2.18	mg/kg	10	1	4.9	13.8	NoAB
194	26	Vanadium	29.5	mg/kg	1	1	38	0.0365	NoB
194	26	Zinc	42.07	mg/kg	10	10	65	1380	NoAB
194	26	Americium-241	0.0008	pCi/g	1	1		1.5	NoA
194	26	Cesium-137	-0.003	pCi/g	1	1	0.49	0.0267	NoAB
194	26	Neptunium-237	-0.0044	pCi/g	1	1	0.1	0.0839	NoAB
194	26	Plutonium-238	0.002	pCi/g	1	1	0.073	3.21	NoAB
194	26	Plutonium-239/240	0.009	pCi/g	1	1	0.025	3.15	NoAB
194	26	Technetium-99	0.06	pCi/g	1	1	2.5	101	NoAB
194	26	Thorium-228	0.88	pCi/g	1	1	1.6		NoB
194	26	Thorium-230	0.9	pCi/g	1	1	1.5	4.1	NoAB
194	26	Thorium-232	0.89	pCi/g	1	1	1.5		NoB
194	26	Uranium-234	0.69	pCi/g	1	1	1.2	5.47	NoAB
194	26	Uranium-235	0.021	pCi/g	1	1	0.06	0.122	NoAB
194	26	Uranium-238	0.73	pCi/g	1	1	1.2	0.517	NoB
194	27	Aluminum	7370	mg/kg	1	1	13000	4410	NoB
194	27	Antimony	0.27	mg/kg	1	1	0.21	0.552	NoA
194	27	Arsenic	10.71	mg/kg	9	3	12	0.238	NoB
194	27	Barium	107	mg/kg	1	1	200	140	NoAB
194	27	Beryllium	0.48	mg/kg	1	1	0.67	0.00567	NoB
194	27	Cadmium	0.097	mg/kg	1	1	0.21	0.811	NoAB
194	27	Calcium	1400	mg/kg	1	1	200000		NoB
194	27	Chromium	52.17	mg/kg	9	7	16	15.6	Yes
194	27	Cobalt	6.9	mg/kg	1	1	14	1.37	NoB
194	27	Copper	9.8	mg/kg	9	1	19	184	NoAB
194	27	Iron	13892.41	mg/kg	9	9	28000	3220	NoB
194	27	Lead	17.09	mg/kg	9	9	36	400	NoAB
194	27	Magnesium	1390	mg/kg	1	1	7700		NoB
194	27	Manganese	631.28	mg/kg	9	9	1500	419	NoB
194	27	Mercury	0.0243	mg/kg	9	1	0.2	0.213	NoAB
194	27	Molybdenum	0.47	mg/kg	9	1		23	NoA
194	27	Nickel	65.5	mg/kg	9	2	21	10.4	Yes
194	27	Selenium	1.2	mg/kg	9	1	0.8	23	NoA
194	27	Silver	10.12	mg/kg	9	2	2.3	2.61	Yes
194	27	Sodium	51.2	mg/kg	1	1	320		NoB
194	27	Thallium	0.075	mg/kg	1	1	0.21	0.368	NoAB
194	27	Total PAH	0.0083	mg/kg	1	1		0.0197	NoA
194	27	Uranium	2.59	mg/kg	9	1	4.9	13.8	NoAB
194	27	Vanadium	25	mg/kg	1	1	38	0.0365	NoB
194	27	Zinc	41.65	mg/kg	9	9	65	1380	NoAB
194	27	Americium-241	0.012	pCi/g	1	1		1.5	NoA
194	27	Cesium-137	0.22	pCi/g	1	1	0.49	0.0267	NoB
194	27	Neptunium-237	-0.0042	pCi/g	1	1	0.1	0.0839	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	27	Plutonium-238	0.019	pCi/g	1	1	0.073	3.21	NoAB
194	27	Plutonium-239/240	0.012	pCi/g	1	1	0.025	3.15	NoAB
194	27	Technetium-99	0.03	pCi/g	1	1	2.5	101	NoAB
194	27	Thorium-228	0.7	pCi/g	1	1	1.6		NoB
194	27	Thorium-230	0.98	pCi/g	1	1	1.5	4.1	NoAB
194	27	Thorium-232	0.74	pCi/g	1	1	1.5		NoB
194	27	Uranium-234	0.7	pCi/g	1	1	1.2	5.47	NoAB
194	27	Uranium-235	0.032	pCi/g	1	1	0.06	0.122	NoAB
194	27	Uranium-238	0.87	pCi/g	1	1	1.2	0.517	NoB
194	28	Aluminum	7760	mg/kg	1	1	13000	4410	NoB
194	28	Antimony	0.48	mg/kg	1	1	0.21	0.552	NoA
194	28	Arsenic	14.8	mg/kg	12	4	12	0.238	Yes
194	28	Barium	143	mg/kg	1	1	200	140	NoB
194	28	Beryllium	0.71	mg/kg	1	1	0.67	0.00567	Yes
194	28	Cadmium	0.098	mg/kg	1	1	0.21	0.811	NoAB
194	28	Calcium	42500	mg/kg	1	1	200000		NoB
194	28	Chromium	72.27	mg/kg	12	10	16	15.6	Yes
194	28	Cobalt	11.3	mg/kg	1	1	14	1.37	NoB
194	28	Copper	10.2	mg/kg	12	1	19	184	NoAB
194	28	Iron	21800	mg/kg	12	12	28000	3220	NoB
194	28	Lead	26.1	mg/kg	12	12	36	400	NoAB
194	28	Magnesium	2090	mg/kg	1	1	7700		NoB
194	28	Manganese	2400	mg/kg	12	12	1500	419	Yes
194	28	Mercury	0.0232	mg/kg	12	1	0.2	0.213	NoAB
194	28	Molybdenum	1.1	mg/kg	12	1		23	NoA
194	28	Nickel	69.74	mg/kg	12	4	21	10.4	Yes
194	28	Selenium	1.5	mg/kg	12	1	0.8	23	NoA
194	28	Silver	11.83	mg/kg	12	4	2.3	2.61	Yes
194	28	Sodium	92	mg/kg	1	1	320		NoB
194	28	Thallium	0.17	mg/kg	1	1	0.21	0.368	NoAB
194	28	Total PAH	0.0051	mg/kg	1	1		0.0197	NoA
194	28	Uranium	2.82	mg/kg	12	1	4.9	13.8	NoAB
194	28	Vanadium	40.6	mg/kg	1	1	38	0.0365	Yes
194	28	Zinc	47.15	mg/kg	12	12	65	1380	NoAB
194	28	Americium-241	0.013	pCi/g	1	1		1.5	NoA
194	28	Cesium-137	0.071	pCi/g	1	1	0.49	0.0267	NoB
194	28	Neptunium-237	-0.0056	pCi/g	1	1	0.1	0.0839	NoAB
194	28	Plutonium-238	0.026	pCi/g	1	1	0.073	3.21	NoAB
194	28	Plutonium-239/240	0.0012	pCi/g	1	1	0.025	3.15	NoAB
194	28	Technetium-99	0.22	pCi/g	1	1	2.5	101	NoAB
194	28	Thorium-228	0.91	pCi/g	1	1	1.6		NoB
194	28	Thorium-230	1.09	pCi/g	1	1	1.5	4.1	NoAB
194	28	Thorium-232	0.8	pCi/g	1	1	1.5		NoB
194	28	Uranium-234	0.77	pCi/g	1	1	1.2	5.47	NoAB
194	28	Uranium-235	0.053	pCi/g	1	1	0.06	0.122	NoAB
194	28	Uranium-238	0.94	pCi/g	1	1	1.2	0.517	NoB
194	29	Aluminum	11900	mg/kg	1	1	13000	4410	NoB
194	29	Antimony	0.71	mg/kg	1	1	0.21	0.552	Yes
194	29	Arsenic	9.8	mg/kg	5	3	12	0.238	NoB
194	29	Barium	119	mg/kg	1	1	200	140	NoAB
194	29	Beryllium	0.56	mg/kg	1	1	0.67	0.00567	NoB
194	29	Cadmium	0.025	mg/kg	1	1	0.21	0.811	NoAB
194	29	Calcium	1450	mg/kg	1	1	200000		NoB
194	29	Chromium	50.56	mg/kg	5	4	16	15.6	Yes
194	29	Cobalt	6.6	mg/kg	1	1	14	1.37	NoB
194	29	Copper	11.9	mg/kg	5	1	19	184	NoAB
194	29	Iron	20200	mg/kg	5	5	28000	3220	NoB

SWMU = solid waste management unit

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COPC = chemical of potential concern

NAL = no action limit

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C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	29	Lead	23.56	mg/kg	5	5	36	400	NoAB
194	29	Magnesium	1430	mg/kg	1	1	7700		NoB
194	29	Manganese	674	mg/kg	5	5	1500	419	NoB
194	29	Mercury	0.0365	mg/kg	5	1	0.2	0.213	NoAB
194	29	Molybdenum	0.7	mg/kg	5	1		23	NoA
194	29	Nickel	65.1	mg/kg	5	3	21	10.4	Yes
194	29	Selenium	1.2	mg/kg	5	1	0.8	23	NoA
194	29	Silver	9.77	mg/kg	5	2	2.3	2.61	Yes
194	29	Sodium	132	mg/kg	1	1	320		NoB
194	29	Thallium	0.29	mg/kg	1	1	0.21	0.368	NoA
194	29	Uranium	2.27	mg/kg	5	1	4.9	13.8	NoAB
194	29	Vanadium	34.6	mg/kg	1	1	38	0.0365	NoB
194	29	Zinc	42.26	mg/kg	5	5	65	1380	NoAB
194	29	Americium-241	0.009	pCi/g	1	1		1.5	NoA
194	29	Cesium-137	-0.012	pCi/g	1	1	0.49	0.0267	NoAB
194	29	Neptunium-237	-0.0022	pCi/g	1	1	0.1	0.0839	NoAB
194	29	Plutonium-238	0.0004	pCi/g	1	1	0.073	3.21	NoAB
194	29	Plutonium-239/240	0.0014	pCi/g	1	1	0.025	3.15	NoAB
194	29	Technetium-99	-0.88	pCi/g	1	1	2.5	101	NoAB
194	29	Thorium-228	0.83	pCi/g	1	1	1.6		NoB
194	29	Thorium-230	0.96	pCi/g	1	1	1.5	4.1	NoAB
194	29	Thorium-232	0.81	pCi/g	1	1	1.5		NoB
194	29	Uranium-234	0.87	pCi/g	1	1	1.2	5.47	NoAB
194	29	Uranium-235	0.036	pCi/g	1	1	0.06	0.122	NoAB
194	29	Uranium-238	0.76	pCi/g	1	1	1.2	0.517	NoB
194	30	Aluminum	6630	mg/kg	1	1	13000	4410	NoB
194	30	Antimony	0.31	mg/kg	1	1	0.21	0.552	NoA
194	30	Arsenic	9.11	mg/kg	10	7	12	0.238	NoB
194	30	Barium	91.3	mg/kg	1	1	200	140	NoAB
194	30	Beryllium	0.34	mg/kg	1	1	0.67	0.00567	NoB
194	30	Cadmium	0.096	mg/kg	1	1	0.21	0.811	NoAB
194	30	Calcium	2530	mg/kg	1	1	200000		NoB
194	30	Chromium	56.57	mg/kg	10	7	16	15.6	Yes
194	30	Cobalt	4.5	mg/kg	1	1	14	1.37	NoB
194	30	Copper	23.12	mg/kg	10	3	19	184	NoA
194	30	Iron	18062.04	mg/kg	10	10	28000	3220	NoB
194	30	Lead	28.41	mg/kg	10	10	36	400	NoAB
194	30	Magnesium	914	mg/kg	1	1	7700		NoB
194	30	Manganese	1240.56	mg/kg	10	10	1500	419	NoB
194	30	Mercury	8.8	mg/kg	10	1	0.2	0.213	Yes
194	30	Molybdenum	0.39	mg/kg	10	1		23	NoA
194	30	Nickel	69.87	mg/kg	10	5	21	10.4	Yes
194	30	Selenium	1.2	mg/kg	10	1	0.8	23	NoA
194	30	Silver	9.76	mg/kg	10	3	2.3	2.61	Yes
194	30	Sodium	28.9	mg/kg	1	1	320		NoB
194	30	Thallium	0.11	mg/kg	1	1	0.21	0.368	NoAB
194	30	Total PAH	0.0185	mg/kg	1	1		0.0197	NoA
194	30	Uranium	3.23	mg/kg	10	1	4.9	13.8	NoAB
194	30	Vanadium	16.8	mg/kg	1	1	38	0.0365	NoB
194	30	Zinc	42.06	mg/kg	10	10	65	1380	NoAB
194	30	Americium-241	0.0025	pCi/g	1	1		1.5	NoA
194	30	Cesium-137	0.262	pCi/g	1	1	0.49	0.0267	NoB
194	30	Neptunium-237	0.003	pCi/g	1	1	0.1	0.0839	NoAB
194	30	Plutonium-238	0.011	pCi/g	1	1	0.073	3.21	NoAB
194	30	Plutonium-239/240	0.0161	pCi/g	1	1	0.025	3.15	NoAB
194	30	Technetium-99	0.1	pCi/g	1	1	2.5	101	NoAB
194	30	Thorium-228	1.04	pCi/g	1	1	1.6		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
194	30	Thorium-230	1.17	pCi/g	1	1	1.5	4.1	NoAB
194	30	Thorium-232	1.05	pCi/g	1	1	1.5		NoB
194	30	Uranium-234	0.87	pCi/g	1	1	1.2	5.47	NoAB
194	30	Uranium-235	0.037	pCi/g	1	1	0.06	0.122	NoAB
194	30	Uranium-238	1.08	pCi/g	1	1	1.2	0.517	NoB
194	31	Aluminum	4380	mg/kg	1	1	13000	4410	NoAB
194	31	Barium	41.7	mg/kg	1	1	200	140	NoAB
194	31	Calcium	2400	mg/kg	1	1	200000		NoB
194	31	Chromium	8.26	mg/kg	1	1	16	15.6	NoAB
194	31	Copper	6.47	mg/kg	1	1	19	184	NoAB
194	31	Di-n-butyl phthalate	12	mg/kg	1	1		326	NoA
194	31	Nickel	7.41	mg/kg	1	1	21	10.4	NoAB
194	31	Uranium	5.15	mg/kg	1	1	4.9	13.8	NoA
194	31	Vanadium	11.6	mg/kg	1	1	38	0.0365	NoB
194	31	Zinc	134	mg/kg	1	1	65	1380	NoA
194	31	Americium-241	0.008	pCi/g	2	2		1.5	NoA
194	31	Cesium-137	0.57	pCi/g	2	2	0.49	0.0267	Yes
194	31	Cobalt-60	0.00458	pCi/g	1	1		0.00547	NoA
194	31	Neptunium-237	0.00681	pCi/g	2	2	0.1	0.0839	NoAB
194	31	Plutonium-238	0.006	pCi/g	2	2	0.073	3.21	NoAB
194	31	Plutonium-239/240	0.012	pCi/g	2	2	0.025	3.15	NoAB
194	31	Technetium-99	0.494	pCi/g	2	2	2.5	101	NoAB
194	31	Thorium-228	0.87	pCi/g	2	2	1.6		NoB
194	31	Thorium-230	1	pCi/g	2	2	1.5	4.1	NoAB
194	31	Thorium-232	0.82	pCi/g	2	2	1.5		NoB
194	31	Uranium-234	1.29	pCi/g	1	1	1.2	5.47	NoA
194	31	Uranium-235	0.09	pCi/g	2	2	0.06	0.122	NoA
194	31	Uranium-238	1.72	pCi/g	1	1	1.2	0.517	Yes
196	1	Aluminum	10900	mg/kg	1	1	13000	4410	NoB
196	1	Antimony	0.59	mg/kg	1	1	0.21	0.552	Yes
196	1	Arsenic	5.1	mg/kg	1	1	12	0.238	NoB
196	1	Barium	143	mg/kg	1	1	200	140	NoB
196	1	Beryllium	0.4	mg/kg	1	1	0.67	0.00567	NoB
196	1	Bis(2-ethylhexyl)phthalate	0.12	mg/kg	1	1		12.5	NoA
196	1	Cadmium	0.4	mg/kg	1	1	0.21	0.811	NoA
196	1	Calcium	212000	mg/kg	1	1	200000		NoE
196	1	Chromium	19.6	mg/kg	1	1	16	15.6	Yes
196	1	Cobalt	8.3	mg/kg	1	1	14	1.37	NoB
196	1	Copper	12	mg/kg	1	1	19	184	NoAB
196	1	Iron	11200	mg/kg	1	1	28000	3220	NoB
196	1	Lead	10.6	mg/kg	1	1	36	400	NoAB
196	1	Magnesium	11300	mg/kg	1	1	7700		NoE
196	1	Manganese	680	mg/kg	1	1	1500	419	NoB
196	1	Mercury	0.0272	mg/kg	1	1	0.2	0.213	NoAB
196	1	Molybdenum	1.3	mg/kg	1	1		23	NoA
196	1	Nickel	556	mg/kg	1	1	21	10.4	Yes
196	1	Selenium	0.93	mg/kg	1	1	0.8	23	NoA
196	1	Silver	0.094	mg/kg	1	1	2.3	2.61	NoAB
196	1	Sodium	357	mg/kg	1	1	320		NoE
196	1	Thallium	0.19	mg/kg	1	1	0.21	0.368	NoAB
196	1	Uranium	23.3	mg/kg	1	1	4.9	13.8	Yes
196	1	Vanadium	25.6	mg/kg	1	1	38	0.0365	NoB
196	1	Zinc	78	mg/kg	1	1	65	1380	NoA
196	1	Americium-241	0.006	pCi/g	1	1		1.5	NoA
196	1	Cesium-137	0	pCi/g	1	1	0.49	0.0267	NoAB
196	1	Neptunium-237	0.311	pCi/g	1	1	0.1	0.0839	Yes
196	1	Plutonium-238	0.013	pCi/g	1	1	0.073	3.21	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
196	1	Plutonium-239/240	0.032	pCi/g	1	1	0.025	3.15	NoA
196	1	Technetium-99	7.31	pCi/g	1	1	2.5	101	NoA
196	1	Thorium-228	0.586	pCi/g	1	1	1.6		NoB
196	1	Thorium-230	0.89	pCi/g	1	1	1.5	4.1	NoAB
196	1	Thorium-232	0.632	pCi/g	1	1	1.5		NoB
196	1	Uranium-234	1.29	pCi/g	1	1	1.2	5.47	NoA
196	1	Uranium-235	0.083	pCi/g	1	1	0.06	0.122	NoA
196	1	Uranium-238	1.54	pCi/g	1	1	1.2	0.517	Yes
196	2	Acenaphthylene	0.347	mg/kg	15	1			NoC
196	2	Aluminum	11300	mg/kg	2	2	13000	4410	NoB
196	2	Anthracene	1.343	mg/kg	15	1		747	NoA
196	2	Antimony	0.374	mg/kg	2	2	0.21	0.552	NoA
196	2	Arsenic	7.33	mg/kg	8	4	12	0.238	NoB
196	2	Barium	202	mg/kg	8	8	200	140	Yes
196	2	Beryllium	0.258	mg/kg	2	1	0.67	0.00567	NoB
196	2	Cadmium	2.53	mg/kg	8	2	0.21	0.811	Yes
196	2	Calcium	22500	mg/kg	2	2	200000		NoB
196	2	Chromium	20.7	mg/kg	8	8	16	15.6	Yes
196	2	Cobalt	6.53	mg/kg	2	2	14	1.37	NoB
196	2	Copper	20.9	mg/kg	2	2	19	184	NoA
196	2	Iron	14900	mg/kg	2	2	28000	3220	NoB
196	2	Lead	27.5	mg/kg	8	3	36	400	NoAB
196	2	Magnesium	1860	mg/kg	2	2	7700		NoB
196	2	Manganese	278	mg/kg	2	2	1500	419	NoAB
196	2	Mercury	0.0521	mg/kg	8	2	0.2	0.213	NoAB
196	2	Nickel	73.6	mg/kg	2	2	21	10.4	Yes
196	2	PCB, Total	1.51	mg/kg	11	2		0.0648	Yes
196	2	Pyrene	0.33	mg/kg	15	1		81.2	NoA
196	2	Selenium	0.352	mg/kg	8	1	0.8	23	NoAB
196	2	Sodium	423	mg/kg	2	2	320		NoE
196	2	Thallium	0.157	mg/kg	2	2	0.21	0.368	NoAB
196	2	Total PAH	0.68	mg/kg	15	1		0.0197	Yes
196	2	Uranium	6.63	mg/kg	1	1	4.9	13.8	NoA
196	2	Vanadium	17.3	mg/kg	2	2	38	0.0365	NoB
196	2	Zinc	222	mg/kg	2	2	65	1380	NoA
196	2	Americium-241	0.0035	pCi/g	1	1		1.5	NoA
196	2	Cesium-137	0.038	pCi/g	1	1	0.49	0.0267	NoB
196	2	Neptunium-237	0.083	pCi/g	1	1	0.1	0.0839	NoAB
196	2	Plutonium-238	0.034	pCi/g	1	1	0.073	3.21	NoAB
196	2	Plutonium-239/240	0.017	pCi/g	1	1	0.025	3.15	NoAB
196	2	Technetium-99	0.58	pCi/g	1	1	2.5	101	NoAB
196	2	Thorium-228	0.141	pCi/g	1	1	1.6		NoB
196	2	Thorium-230	0.99	pCi/g	1	1	1.5	4.1	NoAB
196	2	Thorium-232	0.145	pCi/g	1	1	1.5		NoB
196	2	Uranium-234	1.72	pCi/g	1	1	1.2	5.47	NoA
196	2	Uranium-235	0.11	pCi/g	1	1	0.06	0.122	NoA
196	2	Uranium-238	2.21	pCi/g	1	1	1.2	0.517	Yes
489	1	Aluminum	7080	mg/kg	1	1	13000	4410	NoB
489	1	Antimony	0.27	mg/kg	1	1	0.21	0.552	NoA
489	1	Arsenic	6.86	mg/kg	2	2	12	0.238	NoB
489	1	Barium	100	mg/kg	1	1	200	140	NoAB
489	1	Beryllium	0.44	mg/kg	1	1	0.67	0.00567	NoB
489	1	Cadmium	0.085	mg/kg	1	1	0.21	0.811	NoAB
489	1	Calcium	12700	mg/kg	1	1	200000		NoB
489	1	Chromium	41.63	mg/kg	2	1	16	15.6	Yes
489	1	Cobalt	6.5	mg/kg	1	1	14	1.37	NoB
489	1	Copper	9.5	mg/kg	2	1	19	184	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
489	1	Fluoranthene	0.14	mg/kg	1	1		109	NoA
489	1	Iron	12600	mg/kg	2	2	28000	3220	NoB
489	1	Lead	13.9	mg/kg	2	2	36	400	NoAB
489	1	Magnesium	1330	mg/kg	1	1	7700		NoB
489	1	Manganese	383	mg/kg	2	2	1500	419	NoAB
489	1	Mercury	0.0339	mg/kg	2	1	0.2	0.213	NoAB
489	1	Methylene chloride	0.018	mg/kg	1	1		3.65	NoA
489	1	Molybdenum	0.5	mg/kg	2	1		23	NoA
489	1	Nickel	78.82	mg/kg	2	2	21	10.4	Yes
489	1	Phenanthrene	0.081	mg/kg	1	1			NoC
489	1	Pyrene	0.12	mg/kg	1	1		81.2	NoA
489	1	Selenium	1.4	mg/kg	2	1	0.8	23	NoA
489	1	Silver	0.041	mg/kg	2	1	2.3	2.61	NoAB
489	1	Sodium	227	mg/kg	1	1	320		NoB
489	1	Thallium	0.27	mg/kg	1	1	0.21	0.368	NoA
489	1	Total PAH	0.082183	mg/kg	1	1		0.0197	Yes
489	1	Uranium	4.41	mg/kg	2	1	4.9	13.8	NoAB
489	1	Vanadium	23.5	mg/kg	1	1	38	0.0365	NoB
489	1	Zinc	44.3	mg/kg	2	2	65	1380	NoAB
489	1	Americium-241	0.011	pCi/g	1	1		1.5	NoA
489	1	Cesium-137	0.032	pCi/g	1	1	0.49	0.0267	NoB
489	1	Neptunium-237	0.007	pCi/g	1	1	0.1	0.0839	NoAB
489	1	Plutonium-238	0.01	pCi/g	1	1	0.073	3.21	NoAB
489	1	Plutonium-239/240	0.011	pCi/g	1	1	0.025	3.15	NoAB
489	1	Technetium-99	0.28	pCi/g	1	1	2.5	101	NoAB
489	1	Thorium-228	0.88	pCi/g	1	1	1.6		NoB
489	1	Thorium-230	0.95	pCi/g	1	1	1.5	4.1	NoAB
489	1	Thorium-232	0.99	pCi/g	1	1	1.5		NoB
489	1	Uranium-234	1.26	pCi/g	1	1	1.2	5.47	NoA
489	1	Uranium-235	0.084	pCi/g	1	1	0.06	0.122	NoA
489	1	Uranium-238	1.47	pCi/g	1	1	1.2	0.517	Yes
531	1	Aluminum	1090	mg/kg	1	1	13000	4410	NoAB
531	1	Antimony	1	mg/kg	1	1	0.21	0.552	Yes
531	1	Arsenic	46.82	mg/kg	7	5	12	0.238	Yes
531	1	Barium	24.7	mg/kg	1	1	200	140	NoAB
531	1	Beryllium	0.32	mg/kg	1	1	0.67	0.00567	NoB
531	1	Bis(2-ethylhexyl)phthalate	0.047	mg/kg	1	1		12.5	NoA
531	1	Cadmium	3.1	mg/kg	1	1	0.21	0.811	Yes
531	1	Calcium	104000	mg/kg	1	1	200000		NoB
531	1	Chromium	50.45	mg/kg	7	2	16	15.6	Yes
531	1	Cobalt	3.2	mg/kg	1	1	14	1.37	NoB
531	1	Copper	7.8	mg/kg	7	1	19	184	NoAB
531	1	Fluoranthene	0.068	mg/kg	1	1		109	NoA
531	1	Iron	56840.49	mg/kg	7	7	28000	3220	Yes
531	1	Lead	531.14	mg/kg	7	7	36	400	Yes
531	1	Magnesium	3550	mg/kg	1	1	7700		NoB
531	1	Manganese	865.47	mg/kg	7	7	1500	419	NoB
531	1	Mercury	0.014	mg/kg	7	1	0.2	0.213	NoAB
531	1	Molybdenum	1.1	mg/kg	7	1		23	NoA
531	1	Nickel	162.23	mg/kg	7	4	21	10.4	Yes
531	1	Pyrene	0.06	mg/kg	1	1		81.2	NoA
531	1	Selenium	0.56	mg/kg	7	1	0.8	23	NoAB
531	1	Silver	0.1	mg/kg	7	1	2.3	2.61	NoAB
531	1	Sodium	134	mg/kg	1	1	320		NoB
531	1	Total PAH	0.053374	mg/kg	1	1		0.0197	Yes
531	1	Uranium	24.07	mg/kg	7	3	4.9	13.8	Yes
531	1	Vanadium	9	mg/kg	1	1	38	0.0365	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
531	1	Zinc	2451.69	mg/kg	7	7	65	1380	Yes
531	1	Americium-241	0.015	pCi/g	1	1		1.5	NoA
531	1	Cesium-137	0.226	pCi/g	1	1	0.49	0.0267	NoB
531	1	Neptunium-237	0.033	pCi/g	1	1	0.1	0.0839	NoAB
531	1	Plutonium-238	0.02	pCi/g	1	1	0.073	3.21	NoAB
531	1	Plutonium-239/240	0.013	pCi/g	1	1	0.025	3.15	NoAB
531	1	Technetium-99	1.17	pCi/g	1	1	2.5	101	NoAB
531	1	Thorium-228	0.136	pCi/g	1	1	1.6		NoB
531	1	Thorium-230	0.453	pCi/g	1	1	1.5	4.1	NoAB
531	1	Thorium-232	0.134	pCi/g	1	1	1.5		NoB
531	1	Uranium-234	3.12	pCi/g	1	1	1.2	5.47	NoA
531	1	Uranium-235	0.138	pCi/g	1	1	0.06	0.122	Yes
531	1	Uranium-238	3.48	pCi/g	1	1	1.2	0.517	Yes
200	1	Aluminum	4140	mg/kg	1	1	13000	4410	NoAB
200	1	Antimony	0.56	mg/kg	1	1	0.21	0.552	Yes
200	1	Arsenic	10.17	mg/kg	32	10	12	0.238	NoB
200	1	Barium	46.3	mg/kg	1	1	200	140	NoAB
200	1	Beryllium	0.3	mg/kg	1	1	0.67	0.00567	NoB
200	1	Cadmium	0.31	mg/kg	1	1	0.21	0.811	NoA
200	1	Calcium	173000	mg/kg	1	1	200000		NoB
200	1	Chromium	57.53	mg/kg	32	11	16	15.6	Yes
200	1	Cobalt	4.1	mg/kg	1	1	14	1.37	NoB
200	1	Copper	44.22	mg/kg	32	18	19	184	NoA
200	1	Iron	19396.89	mg/kg	32	32	28000	3220	NoB
200	1	Lead	32.04	mg/kg	32	31	36	400	NoAB
200	1	Magnesium	5020	mg/kg	1	1	7700		NoB
200	1	Manganese	438.53	mg/kg	32	32	1500	419	NoB
200	1	Mercury	6.71	mg/kg	32	2	0.2	0.213	Yes
200	1	Molybdenum	0.57	mg/kg	32	1		23	NoA
200	1	Nickel	259.54	mg/kg	32	14	21	10.4	Yes
200	1	PCB, Total	2.6	mg/kg	15	2		0.0648	Yes
200	1	Selenium	5.84	mg/kg	32	4	0.8	23	NoA
200	1	Silver	0.084	mg/kg	32	1	2.3	2.61	NoAB
200	1	Sodium	76.9	mg/kg	1	1	320		NoB
200	1	Thallium	0.3	mg/kg	1	1	0.21	0.368	NoA
200	1	Total PAH	0.0284	mg/kg	1	1		0.0197	Yes
200	1	Uranium	49.25	mg/kg	33	16	4.9	13.8	Yes
200	1	Vanadium	14.4	mg/kg	1	1	38	0.0365	NoB
200	1	Zinc	248.34	mg/kg	32	32	65	1380	NoA
200	1	Americium-241	0.029	pCi/g	2	2		1.5	NoA
200	1	Cesium-137	0.9	pCi/g	2	2	0.49	0.0267	Yes
200	1	Neptunium-237	0.045	pCi/g	2	2	0.1	0.0839	NoAB
200	1	Plutonium-238	0.018	pCi/g	2	2	0.073	3.21	NoAB
200	1	Plutonium-239/240	0.127	pCi/g	2	2	0.025	3.15	NoA
200	1	Technetium-99	2.42	pCi/g	2	2	2.5	101	NoAB
200	1	Thorium-228	0.633	pCi/g	2	2	1.6		NoB
200	1	Thorium-230	3.75	pCi/g	2	2	1.5	4.1	NoA
200	1	Thorium-232	0.74	pCi/g	2	2	1.5		NoB
200	1	Uranium-234	2.21	pCi/g	2	2	1.2	5.47	NoA
200	1	Uranium-235	0.161	pCi/g	2	2	0.06	0.122	Yes
200	1	Uranium-238	3.77	pCi/g	2	2	1.2	0.517	Yes
212	1	Aluminum	9890	mg/kg	3	3	13000	4410	NoB
212	1	Antimony	0.52	mg/kg	3	1	0.21	0.552	NoA
212	1	Arsenic	14.42	mg/kg	5	4	12	0.238	Yes
212	1	Barium	105	mg/kg	3	3	200	140	NoAB
212	1	Beryllium	0.81	mg/kg	3	2	0.67	0.00567	Yes
212	1	Cadmium	0.28	mg/kg	3	1	0.21	0.811	NoA

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
212	1	Calcium	21900	mg/kg	3	3	200000		NoB
212	1	Chromium	35.8	mg/kg	5	3	16	15.6	Yes
212	1	Cobalt	9.9	mg/kg	3	3	14	1.37	NoB
212	1	Copper	20.9	mg/kg	5	4	19	184	NoA
212	1	Iron	41400.78	mg/kg	5	5	28000	3220	Yes
212	1	Lead	17.1	mg/kg	5	4	36	400	NoAB
212	1	Magnesium	2140	mg/kg	3	3	7700		NoB
212	1	Manganese	669.27	mg/kg	5	5	1500	419	NoB
212	1	Mercury	0.0299	mg/kg	5	2	0.2	0.213	NoAB
212	1	Molybdenum	1.3	mg/kg	4	1		23	NoA
212	1	Nickel	86.91	mg/kg	5	4	21	10.4	Yes
212	1	PCB, Total	0.18	mg/kg	14	1		0.0648	Yes
212	1	Selenium	0.85	mg/kg	5	1	0.8	23	NoA
212	1	Silver	0.035	mg/kg	5	1	2.3	2.61	NoAB
212	1	Sodium	53.6	mg/kg	3	2	320		NoB
212	1	Thallium	0.1	mg/kg	3	1	0.21	0.368	NoAB
212	1	Uranium	23	mg/kg	5	4	4.9	13.8	Yes
212	1	Vanadium	24.5	mg/kg	3	3	38	0.0365	NoB
212	1	Zinc	68.79	mg/kg	5	5	65	1380	NoA
212	1	Americium-241	0.93	pCi/g	3	3		1.5	NoA
212	1	Cesium-137	0.601	pCi/g	3	3	0.49	0.0267	Yes
212	1	Cobalt-60	0.00876	pCi/g	1	1		0.00547	Yes
212	1	Neptunium-237	4	pCi/g	3	3	0.1	0.0839	Yes
212	1	Plutonium-238	0.098	pCi/g	3	3	0.073	3.21	NoA
212	1	Plutonium-239/240	6.71	pCi/g	3	3	0.025	3.15	Yes
212	1	Technetium-99	5.78	pCi/g	3	3	2.5	101	NoA
212	1	Thorium-228	1.4	pCi/g	3	3	1.6		NoB
212	1	Thorium-230	260	pCi/g	3	3	1.5	4.1	Yes
212	1	Thorium-232	1	pCi/g	3	3	1.5		NoB
212	1	Uranium-234	2.59	pCi/g	3	3	1.2	5.47	NoA
212	1	Uranium-235	0.209	pCi/g	3	3	0.06	0.122	Yes
212	1	Uranium-238	3.17	pCi/g	3	3	1.2	0.517	Yes
213	1	Aluminum	4180	mg/kg	1	1	13000	4410	NoAB
213	1	Antimony	0.85	mg/kg	1	1	0.21	0.552	Yes
213	1	Arsenic	9.21	mg/kg	6	4	12	0.238	NoB
213	1	Barium	78.5	mg/kg	1	1	200	140	NoAB
213	1	Benzo(ghi)perylene	0.079	mg/kg	1	1			NoC
213	1	Beryllium	0.25	mg/kg	1	1	0.67	0.00567	NoB
213	1	Cadmium	0.51	mg/kg	1	1	0.21	0.811	NoA
213	1	Calcium	124000	mg/kg	1	1	200000		NoB
213	1	Chromium	47.81	mg/kg	6	2	16	15.6	Yes
213	1	Cobalt	3.8	mg/kg	1	1	14	1.37	NoB
213	1	Copper	7	mg/kg	6	1	19	184	NoAB
213	1	Fluoranthene	0.66	mg/kg	1	1		109	NoA
213	1	Iron	24576.19	mg/kg	6	6	28000	3220	NoB
213	1	Lead	18.4	mg/kg	6	3	36	400	NoAB
213	1	Magnesium	9150	mg/kg	1	1	7700		NoE
213	1	Manganese	906.25	mg/kg	6	6	1500	419	NoB
213	1	Mercury	0.0375	mg/kg	6	1	0.2	0.213	NoAB
213	1	Molybdenum	0.61	mg/kg	6	1		23	NoA
213	1	Nickel	66.73	mg/kg	6	2	21	10.4	Yes
213	1	PCB, Total	0.073	mg/kg	6	1		0.0648	Yes
213	1	Phenanthrene	0.096	mg/kg	1	1			NoC
213	1	Pyrene	0.49	mg/kg	1	1		81.2	NoA
213	1	Selenium	0.77	mg/kg	6	1	0.8	23	NoAB
213	1	Silver	13.17	mg/kg	6	3	2.3	2.61	Yes
213	1	Sodium	144	mg/kg	1	1	320		NoB

SWMU = solid waste management unit
 EU = exposure unit
 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
213	1	Thallium	0.17	mg/kg	1	1	0.21	0.368	NoAB
213	1	Total PAH	0.17186	mg/kg	1	1		0.0197	Yes
213	1	Uranium	6.98	mg/kg	6	1	4.9	13.8	NoA
213	1	Vanadium	13.1	mg/kg	1	1	38	0.0365	NoB
213	1	Zinc	117.36	mg/kg	6	6	65	1380	NoA
213	1	Americium-241	0.01	pCi/g	1	1		1.5	NoA
213	1	Cesium-137	0.273	pCi/g	1	1	0.49	0.0267	NoB
213	1	Neptunium-237	0.029	pCi/g	1	1	0.1	0.0839	NoAB
213	1	Plutonium-238	0.022	pCi/g	1	1	0.073	3.21	NoAB
213	1	Plutonium-239/240	0.051	pCi/g	1	1	0.025	3.15	NoA
213	1	Technetium-99	0.26	pCi/g	1	1	2.5	101	NoAB
213	1	Thorium-228	0.263	pCi/g	1	1	1.6		NoB
213	1	Thorium-230	2.06	pCi/g	1	1	1.5	4.1	NoA
213	1	Thorium-232	0.255	pCi/g	1	1	1.5		NoB
213	1	Uranium-234	1.99	pCi/g	1	1	1.2	5.47	NoA
213	1	Uranium-235	0.11	pCi/g	1	1	0.06	0.122	NoA
213	1	Uranium-238	2.33	pCi/g	1	1	1.2	0.517	Yes
213	2	Arsenic	5.77	mg/kg	4	1	12	0.238	NoB
213	2	Chromium	44.81	mg/kg	4	2	16	15.6	Yes
213	2	Copper	26.36	mg/kg	4	1	19	184	NoA
213	2	Iron	13919.77	mg/kg	4	4	28000	3220	NoB
213	2	Lead	12.53	mg/kg	4	3	36	400	NoAB
213	2	Manganese	322.23	mg/kg	4	4	1500	419	NoAB
213	2	Nickel	90.98	mg/kg	4	1	21	10.4	Yes
213	2	Silver	11.26	mg/kg	4	1	2.3	2.61	Yes
213	2	Uranium	8.89	mg/kg	5	3	4.9	13.8	NoA
213	2	Zinc	99.54	mg/kg	4	4	65	1380	NoA
213	2	Americium-241	0.002	pCi/g	1	1		1.5	NoA
213	2	Cesium-137	0.005	pCi/g	1	1	0.49	0.0267	NoAB
213	2	Neptunium-237	-0.0031	pCi/g	1	1	0.1	0.0839	NoAB
213	2	Plutonium-238	0.01	pCi/g	1	1	0.073	3.21	NoAB
213	2	Plutonium-239/240	0.007	pCi/g	1	1	0.025	3.15	NoAB
213	2	Technetium-99	0.11	pCi/g	1	1	2.5	101	NoAB
213	2	Thorium-228	0.065	pCi/g	1	1	1.6		NoB
213	2	Thorium-230	0.69	pCi/g	1	1	1.5	4.1	NoAB
213	2	Thorium-232	0.069	pCi/g	1	1	1.5		NoB
213	2	Uranium-234	0.96	pCi/g	1	1	1.2	5.47	NoAB
213	2	Uranium-235	0.053	pCi/g	1	1	0.06	0.122	NoAB
213	2	Uranium-238	0.82	pCi/g	1	1	1.2	0.517	NoB
214	1	Aluminum	5230	mg/kg	1	1	13000	4410	NoB
214	1	Antimony	0.57	mg/kg	1	1	0.21	0.552	Yes
214	1	Arsenic	11.52	mg/kg	2	2	12	0.238	NoB
214	1	Barium	90.8	mg/kg	1	1	200	140	NoAB
214	1	Beryllium	0.27	mg/kg	1	1	0.67	0.00567	NoB
214	1	Butyl benzyl phthalate	0.044	mg/kg	1	1		91.8	NoA
214	1	Cadmium	0.28	mg/kg	1	1	0.21	0.811	NoA
214	1	Calcium	214000	mg/kg	1	1	200000		NoE
214	1	Chromium	14.3	mg/kg	2	1	16	15.6	NoAB
214	1	Cobalt	4.7	mg/kg	1	1	14	1.37	NoB
214	1	Copper	4.2	mg/kg	2	1	19	184	NoAB
214	1	Iron	12362.46	mg/kg	2	2	28000	3220	NoB
214	1	Lead	14.91	mg/kg	2	2	36	400	NoAB
214	1	Magnesium	12600	mg/kg	1	1	7700		NoE
214	1	Manganese	611.76	mg/kg	2	2	1500	419	NoB
214	1	Mercury	0.0416	mg/kg	2	1	0.2	0.213	NoAB
214	1	Molybdenum	0.45	mg/kg	2	1		23	NoA
214	1	Nickel	6.9	mg/kg	2	1	21	10.4	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
214	1	Selenium	0.67	mg/kg	2	1	0.8	23	NoAB
214	1	Silver	0.021	mg/kg	2	1	2.3	2.61	NoAB
214	1	Sodium	222	mg/kg	1	1	320		NoB
214	1	Uranium	2.96	mg/kg	3	2	4.9	13.8	NoAB
214	1	Vanadium	17	mg/kg	1	1	38	0.0365	NoB
214	1	Zinc	61.96	mg/kg	2	2	65	1380	NoAB
214	1	Americium-241	0.007	pCi/g	2	2		1.5	NoA
214	1	Cesium-137	0.02	pCi/g	2	2	0.49	0.0267	NoAB
214	1	Neptunium-237	0.001	pCi/g	2	2	0.1	0.0839	NoAB
214	1	Plutonium-238	0.019	pCi/g	2	2	0.073	3.21	NoAB
214	1	Plutonium-239/240	0.009	pCi/g	2	2	0.025	3.15	NoAB
214	1	Technetium-99	0.17	pCi/g	2	2	2.5	101	NoAB
214	1	Thorium-228	0.85	pCi/g	2	2	1.6		NoB
214	1	Thorium-230	1.16	pCi/g	2	2	1.5	4.1	NoAB
214	1	Thorium-232	0.95	pCi/g	2	2	1.5		NoB
214	1	Uranium-234	0.97	pCi/g	2	2	1.2	5.47	NoAB
214	1	Uranium-235	0.066	pCi/g	2	2	0.06	0.122	NoA
214	1	Uranium-238	0.99	pCi/g	2	2	1.2	0.517	NoB
215	1	Aluminum	4370	mg/kg	2	2	13000	4410	NoAB
215	1	Antimony	0.68	mg/kg	2	2	0.21	0.552	Yes
215	1	Arsenic	8.3	mg/kg	11	7	12	0.238	NoB
215	1	Barium	61.9	mg/kg	2	2	200	140	NoAB
215	1	Benzo(ghi)perylene	0.048	mg/kg	1	1			NoC
215	1	Beryllium	0.31	mg/kg	2	2	0.67	0.00567	NoB
215	1	Cadmium	0.39	mg/kg	2	2	0.21	0.811	NoA
215	1	Calcium	172000	mg/kg	2	2	200000		NoB
215	1	Chromium	57.32	mg/kg	11	6	16	15.6	Yes
215	1	Cobalt	5.1	mg/kg	2	2	14	1.37	NoB
215	1	Copper	23.98	mg/kg	11	3	19	184	NoA
215	1	Fluoranthene	0.15	mg/kg	1	1		109	NoA
215	1	Iron	38688.75	mg/kg	11	11	28000	3220	Yes
215	1	Lead	19.62	mg/kg	11	11	36	400	NoAB
215	1	Magnesium	9950	mg/kg	2	2	7700		NoE
215	1	Manganese	672	mg/kg	11	11	1500	419	NoB
215	1	Mercury	0.0283	mg/kg	11	2	0.2	0.213	NoAB
215	1	Molybdenum	0.76	mg/kg	11	2		23	NoA
215	1	Nickel	73.16	mg/kg	11	3	21	10.4	Yes
215	1	Phenanthrene	0.085	mg/kg	1	1			NoC
215	1	Pyrene	0.13	mg/kg	1	1		81.2	NoA
215	1	Selenium	0.92	mg/kg	11	2	0.8	23	NoA
215	1	Silver	0.064	mg/kg	11	2	2.3	2.61	NoAB
215	1	Sodium	317	mg/kg	2	2	320		NoB
215	1	Thallium	0.21	mg/kg	2	2	0.21	0.368	NoA
215	1	Total PAH	0.080885	mg/kg	1	1		0.0197	Yes
215	1	Uranium	2.85	mg/kg	12	3	4.9	13.8	NoAB
215	1	Vanadium	14.8	mg/kg	2	2	38	0.0365	NoB
215	1	Zinc	573.24	mg/kg	11	11	65	1380	NoA
215	1	Americium-241	0.017	pCi/g	2	2		1.5	NoA
215	1	Cesium-137	0.271	pCi/g	2	2	0.49	0.0267	NoB
215	1	Neptunium-237	0.01	pCi/g	2	2	0.1	0.0839	NoAB
215	1	Plutonium-238	0.01	pCi/g	2	2	0.073	3.21	NoAB
215	1	Plutonium-239/240	0.029	pCi/g	2	2	0.025	3.15	NoA
215	1	Technetium-99	0.01	pCi/g	2	2	2.5	101	NoAB
215	1	Thorium-228	0.413	pCi/g	2	2	1.6		NoB
215	1	Thorium-230	0.73	pCi/g	2	2	1.5	4.1	NoAB
215	1	Thorium-232	0.394	pCi/g	2	2	1.5		NoB
215	1	Uranium-234	0.86	pCi/g	2	2	1.2	5.47	NoAB

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 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
215	1	Uranium-235	0.031	pCi/g	2	2	0.06	0.122	NoAB
215	1	Uranium-238	0.95	pCi/g	2	2	1.2	0.517	NoB
216	1	Aluminum	7260	mg/kg	1	1	13000	4410	NoB
216	1	Antimony	0.34	mg/kg	1	1	0.21	0.552	NoA
216	1	Arsenic	8.6	mg/kg	1	1	12	0.238	NoB
216	1	Barium	79.3	mg/kg	1	1	200	140	NoAB
216	1	Benzo(ghi)perylene	0.089	mg/kg	1	1			NoC
216	1	Beryllium	0.5	mg/kg	1	1	0.67	0.00567	NoB
216	1	Cadmium	0.42	mg/kg	1	1	0.21	0.811	NoA
216	1	Calcium	9660	mg/kg	1	1	200000		NoB
216	1	Chromium	23.8	mg/kg	1	1	16	15.6	Yes
216	1	Cobalt	6	mg/kg	1	1	14	1.37	NoB
216	1	Copper	9	mg/kg	1	1	19	184	NoAB
216	1	Fluoranthene	0.13	mg/kg	1	1		109	NoA
216	1	Iron	15500	mg/kg	1	1	28000	3220	NoB
216	1	Lead	17.8	mg/kg	1	1	36	400	NoAB
216	1	Magnesium	4010	mg/kg	1	1	7700		NoB
216	1	Manganese	664	mg/kg	1	1	1500	419	NoB
216	1	Mercury	0.0349	mg/kg	1	1	0.2	0.213	NoAB
216	1	Molybdenum	0.71	mg/kg	1	1		23	NoA
216	1	Nickel	8.8	mg/kg	1	1	21	10.4	NoAB
216	1	Phenol	0.13	mg/kg	1	1		498	NoA
216	1	Pyrene	0.12	mg/kg	1	1		81.2	NoA
216	1	Selenium	1.3	mg/kg	1	1	0.8	23	NoA
216	1	Silver	0.034	mg/kg	1	1	2.3	2.61	NoAB
216	1	Sodium	39.7	mg/kg	1	1	320		NoB
216	1	Thallium	0.21	mg/kg	1	1	0.21	0.368	NoA
216	1	Total PAH	0.14932	mg/kg	1	1		0.0197	Yes
216	1	Uranium	8.43	mg/kg	2	2	4.9	13.8	NoA
216	1	Vanadium	26.6	mg/kg	1	1	38	0.0365	NoB
216	1	Zinc	33	mg/kg	1	1	65	1380	NoAB
216	1	Americium-241	0.016	pCi/g	2	2		1.5	NoA
216	1	Cesium-137	0.41	pCi/g	2	2	0.49	0.0267	NoB
216	1	Neptunium-237	0.053	pCi/g	2	2	0.1	0.0839	NoAB
216	1	Plutonium-238	0.006	pCi/g	2	2	0.073	3.21	NoAB
216	1	Plutonium-239/240	0.018	pCi/g	2	2	0.025	3.15	NoAB
216	1	Technetium-99	0.35	pCi/g	2	2	2.5	101	NoAB
216	1	Thorium-228	1.03	pCi/g	2	2	1.6		NoB
216	1	Thorium-230	1.01	pCi/g	2	2	1.5	4.1	NoAB
216	1	Thorium-232	0.96	pCi/g	2	2	1.5		NoB
216	1	Uranium-234	1.15	pCi/g	2	2	1.2	5.47	NoAB
216	1	Uranium-235	0.065	pCi/g	2	2	0.06	0.122	NoA
216	1	Uranium-238	1.33	pCi/g	2	2	1.2	0.517	Yes
217	1	Aluminum	5980	mg/kg	2	2	13000	4410	NoB
217	1	Antimony	0.3	mg/kg	2	2	0.21	0.552	NoA
217	1	Arsenic	9.58	mg/kg	13	9	12	0.238	NoB
217	1	Barium	115	mg/kg	2	2	200	140	NoAB
217	1	Beryllium	0.38	mg/kg	2	2	0.67	0.00567	NoB
217	1	Cadmium	0.16	mg/kg	2	2	0.21	0.811	NoAB
217	1	Calcium	21100	mg/kg	2	2	200000		NoB
217	1	Chromium	88.9	mg/kg	13	4	16	15.6	Yes
217	1	Cobalt	25	mg/kg	2	2	14	1.37	Yes
217	1	Copper	25.9	mg/kg	13	3	19	184	NoA
217	1	Iron	23242.97	mg/kg	13	13	28000	3220	NoB
217	1	Lead	10.68	mg/kg	13	10	36	400	NoAB
217	1	Magnesium	862	mg/kg	2	2	7700		NoB
217	1	Manganese	1956.03	mg/kg	13	13	1500	419	Yes

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
217	1	Mercury	0.0153	mg/kg	13	2	0.2	0.213	NoAB
217	1	Molybdenum	0.84	mg/kg	13	2		23	NoA
217	1	Nickel	130.42	mg/kg	13	8	21	10.4	Yes
217	1	Selenium	0.48	mg/kg	13	2	0.8	23	NoAB
217	1	Silver	13.45	mg/kg	13	4	2.3	2.61	Yes
217	1	Sodium	67.2	mg/kg	2	2	320		NoB
217	1	Thallium	0.23	mg/kg	2	2	0.21	0.368	NoA
217	1	Total PAH	0.0052	mg/kg	1	1		0.0197	NoA
217	1	Uranium	3.8	mg/kg	14	3	4.9	13.8	NoAB
217	1	Vanadium	21	mg/kg	2	2	38	0.0365	NoB
217	1	Zinc	81.66	mg/kg	13	13	65	1380	NoA
217	1	Americium-241	0.009	pCi/g	2	2		1.5	NoA
217	1	Cesium-137	0.113	pCi/g	2	2	0.49	0.0267	NoB
217	1	Neptunium-237	0.023	pCi/g	2	2	0.1	0.0839	NoAB
217	1	Plutonium-238	0.01	pCi/g	2	2	0.073	3.21	NoAB
217	1	Plutonium-239/240	0.019	pCi/g	2	2	0.025	3.15	NoAB
217	1	Technetium-99	1.59	pCi/g	2	2	2.5	101	NoAB
217	1	Thorium-228	0.244	pCi/g	2	2	1.6		NoB
217	1	Thorium-230	0.496	pCi/g	2	2	1.5	4.1	NoAB
217	1	Thorium-232	0.262	pCi/g	2	2	1.5		NoB
217	1	Uranium-234	0.98	pCi/g	2	2	1.2	5.47	NoAB
217	1	Uranium-235	0.067	pCi/g	2	2	0.06	0.122	NoA
217	1	Uranium-238	1.27	pCi/g	2	2	1.2	0.517	Yes
217	2	Aluminum	8190	mg/kg	6	6	13000	4410	NoB
217	2	Antimony	1.7	mg/kg	6	3	0.21	0.552	Yes
217	2	Arsenic	21.3	mg/kg	20	11	12	0.238	Yes
217	2	Barium	86.6	mg/kg	6	6	200	140	NoAB
217	2	Benzene	0.002	mg/kg	3	1		0.333	NoA
217	2	Benzo(ghi)perylene	0.27	mg/kg	4	1			NoC
217	2	Beryllium	0.52	mg/kg	6	5	0.67	0.00567	NoB
217	2	Cadmium	0.69	mg/kg	6	3	0.21	0.811	NoA
217	2	Calcium	25800	mg/kg	6	6	200000		NoB
217	2	Chromium	108.22	mg/kg	20	8	16	15.6	Yes
217	2	Cobalt	27	mg/kg	6	6	14	1.37	Yes
217	2	Copper	37.2	mg/kg	20	7	19	184	NoA
217	2	Di-n-butyl phthalate	0.22	mg/kg	4	1		326	NoA
217	2	Fluoranthene	0.34	mg/kg	4	1		109	NoA
217	2	Iron	60384.46	mg/kg	20	20	28000	3220	Yes
217	2	Lead	43.53	mg/kg	20	15	36	400	NoA
217	2	Magnesium	1210	mg/kg	6	6	7700		NoB
217	2	Manganese	2054.22	mg/kg	20	20	1500	419	Yes
217	2	Mercury	8.59	mg/kg	20	3	0.2	0.213	Yes
217	2	Molybdenum	5.89	mg/kg	16	3		23	NoA
217	2	Nickel	131.45	mg/kg	20	12	21	10.4	Yes
217	2	Phenanthrene	0.079	mg/kg	4	1			NoC
217	2	Pyrene	0.28	mg/kg	4	1		81.2	NoA
217	2	Selenium	1.67	mg/kg	18	3	0.8	23	NoA
217	2	Silver	16.09	mg/kg	20	5	2.3	2.61	Yes
217	2	Sodium	86.7	mg/kg	5	5	320		NoB
217	2	Thallium	0.25	mg/kg	6	3	0.21	0.368	NoA
217	2	Total PAH	0.73675	mg/kg	4	2		0.0197	Yes
217	2	Trichloroethene	0.004	mg/kg	3	1		0.0234	NoA
217	2	Uranium	7.9	mg/kg	17	3	4.9	13.8	NoA
217	2	Vanadium	26.8	mg/kg	6	6	38	0.0365	NoB
217	2	Zinc	589.19	mg/kg	20	20	65	1380	NoA
217	2	Americium-241	0.0181	pCi/g	2	2		1.5	NoA
217	2	Cesium-137	0.014	pCi/g	2	2	0.49	0.0267	NoAB

SWMU = solid waste management unit

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
217	2	Cobalt-60	-0.00272	pCi/g	1	1		0.00547	NoA
217	2	Neptunium-237	0.0146	pCi/g	2	2	0.1	0.0839	NoAB
217	2	Plutonium-238	-0.0002	pCi/g	2	2	0.073	3.21	NoAB
217	2	Plutonium-239/240	0.0019	pCi/g	2	2	0.025	3.15	NoAB
217	2	Technetium-99	1.89	pCi/g	2	2	2.5	101	NoAB
217	2	Thorium-228	0.42	pCi/g	2	2	1.6		NoB
217	2	Thorium-230	0.438	pCi/g	2	2	1.5	4.1	NoAB
217	2	Thorium-232	0.404	pCi/g	2	2	1.5		NoB
217	2	Uranium-234	0.924	pCi/g	2	2	1.2	5.47	NoAB
217	2	Uranium-235	0.0438	pCi/g	2	2	0.06	0.122	NoAB
217	2	Uranium-238	0.772	pCi/g	2	2	1.2	0.517	NoB
221	1	Acenaphthylene	0.15	mg/kg	1	1			NoC
221	1	Aluminum	4170	mg/kg	1	1	13000	4410	NoAB
221	1	Anthracene	0.095	mg/kg	1	1		747	NoA
221	1	Antimony	0.3	mg/kg	1	1	0.21	0.552	NoA
221	1	Arsenic	10.78	mg/kg	18	8	12	0.238	NoB
221	1	Barium	221	mg/kg	1	1	200	140	Yes
221	1	Benzo(ghi)perylene	0.46	mg/kg	1	1			NoC
221	1	Beryllium	0.17	mg/kg	1	1	0.67	0.00567	NoB
221	1	Bis(2-ethylhexyl)phthalate	0.14	mg/kg	1	1		12.5	NoA
221	1	Cadmium	0.39	mg/kg	1	1	0.21	0.811	NoA
221	1	Calcium	243000	mg/kg	1	1	200000		NoE
221	1	Chromium	72.82	mg/kg	18	13	16	15.6	Yes
221	1	Cobalt	2.2	mg/kg	1	1	14	1.37	NoB
221	1	Copper	28.92	mg/kg	18	8	19	184	NoA
221	1	Di-n-butyl phthalate	0.096	mg/kg	1	1		326	NoA
221	1	Fluoranthene	0.76	mg/kg	1	1		109	NoA
221	1	Iron	43475.53	mg/kg	18	18	28000	3220	Yes
221	1	Lead	45.81	mg/kg	18	17	36	400	NoA
221	1	Magnesium	13800	mg/kg	1	1	7700		NoE
221	1	Manganese	497.77	mg/kg	18	18	1500	419	NoB
221	1	Mercury	0.0121	mg/kg	18	1	0.2	0.213	NoAB
221	1	Molybdenum	0.43	mg/kg	18	1		23	NoA
221	1	Nickel	80.29	mg/kg	18	3	21	10.4	Yes
221	1	PCB, Total	0.5	mg/kg	12	1		0.0648	Yes
221	1	Phenanthrene	0.096	mg/kg	1	1			NoC
221	1	Pyrene	0.75	mg/kg	1	1		81.2	NoA
221	1	Selenium	0.77	mg/kg	18	1	0.8	23	NoAB
221	1	Silver	0.043	mg/kg	18	1	2.3	2.61	NoAB
221	1	Sodium	188	mg/kg	1	1	320		NoB
221	1	Thallium	0.13	mg/kg	1	1	0.21	0.368	NoAB
221	1	Total PAH	1.02258	mg/kg	1	1		0.0197	Yes
221	1	Uranium	16.37	mg/kg	18	10	4.9	13.8	Yes
221	1	Vanadium	10.4	mg/kg	1	1	38	0.0365	NoB
221	1	Zinc	161.35	mg/kg	18	18	65	1380	NoA
221	1	Americium-241	0.01	pCi/g	1	1		1.5	NoA
221	1	Cesium-137	0.022	pCi/g	1	1	0.49	0.0267	NoAB
221	1	Neptunium-237	0.07	pCi/g	1	1	0.1	0.0839	NoAB
221	1	Plutonium-238	0.016	pCi/g	1	1	0.073	3.21	NoAB
221	1	Plutonium-239/240	0.0017	pCi/g	1	1	0.025	3.15	NoAB
221	1	Technetium-99	0.22	pCi/g	1	1	2.5	101	NoAB
221	1	Thorium-228	0.243	pCi/g	1	1	1.6		NoB
221	1	Thorium-230	0.84	pCi/g	1	1	1.5	4.1	NoAB
221	1	Thorium-232	0.263	pCi/g	1	1	1.5		NoB
221	1	Uranium-234	1.2	pCi/g	1	1	1.2	5.47	NoA
221	1	Uranium-235	0.067	pCi/g	1	1	0.06	0.122	NoA
221	1	Uranium-238	1.93	pCi/g	1	1	1.2	0.517	Yes

SWMU = solid waste management unit

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A = <Child Resident NAL B = <Background

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
222	1	Aluminum	8640	mg/kg	2	2	13000	4410	NoB
222	1	Antimony	0.39	mg/kg	2	1	0.21	0.552	NoA
222	1	Arsenic	9.6	mg/kg	13	4	12	0.238	NoB
222	1	Barium	79	mg/kg	2	2	200	140	NoAB
222	1	Benzo(ghi)perylene	0.22	mg/kg	1	1			NoC
222	1	Beryllium	0.51	mg/kg	2	2	0.67	0.00567	NoB
222	1	Bis(2-ethylhexyl)phthalate	0.24	mg/kg	1	1		12.5	NoA
222	1	Cadmium	0.55	mg/kg	2	2	0.21	0.811	NoA
222	1	Calcium	315000	mg/kg	2	2	200000		NoE
222	1	Chromium	47.31	mg/kg	13	4	16	15.6	Yes
222	1	Cobalt	7.1	mg/kg	2	2	14	1.37	NoB
222	1	Copper	24.51	mg/kg	13	3	19	184	NoA
222	1	Fluoranthene	0.27	mg/kg	1	1		109	NoA
222	1	Iron	18900	mg/kg	13	13	28000	3220	NoB
222	1	Lead	32.5	mg/kg	13	11	36	400	NoAB
222	1	Magnesium	7040	mg/kg	2	2	7700		NoB
222	1	Manganese	855.2	mg/kg	13	13	1500	419	NoB
222	1	Molybdenum	1.2	mg/kg	13	2		23	NoA
222	1	Nickel	91.9	mg/kg	13	5	21	10.4	Yes
222	1	PCB, Total	1.4	mg/kg	1	1		0.0648	Yes
222	1	Phenanthrene	0.085	mg/kg	1	1			NoC
222	1	Pyrene	0.21	mg/kg	1	1		81.2	NoA
222	1	Selenium	1.4	mg/kg	13	2	0.8	23	NoA
222	1	Silver	0.045	mg/kg	13	2	2.3	2.61	NoAB
222	1	Sodium	146	mg/kg	2	2	320		NoB
222	1	Thallium	0.35	mg/kg	2	2	0.21	0.368	NoA
222	1	Total PAH	0.17716	mg/kg	1	1		0.0197	Yes
222	1	Uranium	58.6	mg/kg	15	6	4.9	13.8	Yes
222	1	Vanadium	30	mg/kg	2	2	38	0.0365	NoB
222	1	Zinc	94.49	mg/kg	13	13	65	1380	NoA
222	1	Americium-241	0.053	pCi/g	3	3		1.5	NoA
222	1	Cesium-137	0.393	pCi/g	3	3	0.49	0.0267	NoB
222	1	Neptunium-237	0.063	pCi/g	2	2	0.1	0.0839	NoAB
222	1	Plutonium-238	0.019	pCi/g	3	3	0.073	3.21	NoAB
222	1	Plutonium-239/240	0.278	pCi/g	3	3	0.025	3.15	NoA
222	1	Technetium-99	10.4	pCi/g	3	3	2.5	101	NoA
222	1	Thorium-228	0.79	pCi/g	3	3	1.6		NoB
222	1	Thorium-230	3.38	pCi/g	3	3	1.5	4.1	NoA
222	1	Thorium-232	0.82	pCi/g	3	3	1.5		NoB
222	1	Uranium-234	10.4	pCi/g	3	3	1.2	5.47	Yes
222	1	Uranium-235	0.71	pCi/g	3	3	0.06	0.122	Yes
222	1	Uranium-238	19.6	pCi/g	3	3	1.2	0.517	Yes
227	1	Aluminum	11200	mg/kg	6	6	13000	4410	NoB
227	1	Arsenic	9.84	mg/kg	21	8	12	0.238	NoB
227	1	Barium	106	mg/kg	6	6	200	140	NoAB
227	1	Benzo(ghi)perylene	0.117	mg/kg	7	1			NoC
227	1	Beryllium	0.79	mg/kg	6	3	0.67	0.00567	Yes
227	1	Cadmium	0.19	mg/kg	6	1	0.21	0.811	NoAB
227	1	Calcium	104000	mg/kg	6	6	200000		NoB
227	1	Chromium	47.14	mg/kg	21	13	16	15.6	Yes
227	1	Cobalt	6.8	mg/kg	6	5	14	1.37	NoB
227	1	Copper	157.89	mg/kg	21	13	19	184	NoA
227	1	Di-n-butyl phthalate	0.76	mg/kg	4	1		326	NoA
227	1	Fluoranthene	0.249	mg/kg	6	2		109	NoA
227	1	Iron	18400	mg/kg	21	21	28000	3220	NoB
227	1	Lead	60.3	mg/kg	21	16	36	400	NoA
227	1	Magnesium	3530	mg/kg	6	6	7700		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
227	1	Manganese	746.6	mg/kg	21	21	1500	419	NoB
227	1	Mercury	0.0122	mg/kg	21	1	0.2	0.213	NoAB
227	1	Molybdenum	0.76	mg/kg	18	1		23	NoA
227	1	Nickel	653	mg/kg	21	12	21	10.4	Yes
227	1	PCB, Total	4.77	mg/kg	49	17		0.0648	Yes
227	1	Pyrene	0.269	mg/kg	7	1		81.2	NoA
227	1	Selenium	1.4	mg/kg	21	2	0.8	23	NoA
227	1	Silver	0.044	mg/kg	21	1	2.3	2.61	NoAB
227	1	Sodium	211	mg/kg	5	4	320		NoB
227	1	Total PAH	0.337817	mg/kg	7	3		0.0197	Yes
227	1	Uranium	438	mg/kg	20	14	4.9	13.8	Yes
227	1	Vanadium	31.1	mg/kg	6	6	38	0.0365	NoB
227	1	Zinc	164	mg/kg	21	20	65	1380	NoA
227	1	Americium-241	0.0322	pCi/g	6	6		1.5	NoA
227	1	Cesium-137	0.51	pCi/g	6	6	0.49	0.0267	Yes
227	1	Cobalt-60	0.0153	pCi/g	3	3		0.00547	Yes
227	1	Neptunium-237	2.53	pCi/g	4	4	0.1	0.0839	Yes
227	1	Plutonium-238	0.022	pCi/g	6	6	0.073	3.21	NoAB
227	1	Plutonium-239/240	0.102	pCi/g	6	6	0.025	3.15	NoA
227	1	Technetium-99	152	pCi/g	8	8	2.5	101	Yes
227	1	Thorium-228	0.97	pCi/g	6	6	1.6		NoB
227	1	Thorium-230	1.21	pCi/g	6	6	1.5	4.1	NoAB
227	1	Thorium-232	0.92	pCi/g	6	6	1.5		NoB
227	1	Uranium-234	48.1	pCi/g	6	6	1.2	5.47	Yes
227	1	Uranium-235	4.7	pCi/g	6	6	0.06	0.122	Yes
227	1	Uranium-238	146	pCi/g	6	6	1.2	0.517	Yes
227	2	Aluminum	7650	mg/kg	6	6	13000	4410	NoB
227	2	Arsenic	9.55	mg/kg	17	3	12	0.238	NoB
227	2	Barium	160	mg/kg	6	6	200	140	NoB
227	2	Benzo(ghi)perylene	0.066	mg/kg	6	1			NoC
227	2	Beryllium	0.7	mg/kg	6	1	0.67	0.00567	Yes
227	2	Cadmium	0.63	mg/kg	6	1	0.21	0.811	NoA
227	2	Calcium	136000	mg/kg	6	6	200000		NoB
227	2	Chromium	56.31	mg/kg	17	10	16	15.6	Yes
227	2	Cobalt	14.8	mg/kg	6	6	14	1.37	Yes
227	2	Copper	62.27	mg/kg	17	8	19	184	NoA
227	2	Fluoranthene	1.2	mg/kg	5	3		109	NoA
227	2	Iron	17000	mg/kg	17	17	28000	3220	NoB
227	2	Lead	98.7	mg/kg	17	12	36	400	NoA
227	2	Magnesium	4920	mg/kg	6	6	7700		NoB
227	2	Manganese	1150	mg/kg	17	17	1500	419	NoB
227	2	Mercury	8.41	mg/kg	17	1	0.2	0.213	Yes
227	2	Molybdenum	5.21	mg/kg	16	2		23	NoA
227	2	Nickel	192.4	mg/kg	17	14	21	10.4	Yes
227	2	PCB, Total	12.6	mg/kg	61	37		0.0648	Yes
227	2	Phenanthrene	0.64	mg/kg	6	2			NoC
227	2	Pyrene	0.83	mg/kg	6	3		81.2	NoA
227	2	Selenium	1.1	mg/kg	17	1	0.8	23	NoA
227	2	Silver	0.2	mg/kg	17	1	2.3	2.61	NoAB
227	2	Sodium	199	mg/kg	5	2	320		NoB
227	2	Total PAH	0.11568	mg/kg	6	2		0.0197	Yes
227	2	Uranium	15.05	mg/kg	17	10	4.9	13.8	Yes
227	2	Vanadium	27.8	mg/kg	6	6	38	0.0365	NoB
227	2	Zinc	198.95	mg/kg	17	17	65	1380	NoA
227	2	Americium-241	0.0422	pCi/g	6	6		1.5	NoA
227	2	Cesium-137	0.123	pCi/g	6	6	0.49	0.0267	NoB
227	2	Cobalt-60	0.0347	pCi/g	5	5		0.00547	Yes

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 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
227	2	Neptunium-237	0.085	pCi/g	6	6	0.1	0.0839	NoB
227	2	Plutonium-238	0.0136	pCi/g	5	5	0.073	3.21	NoAB
227	2	Plutonium-239/240	0.027	pCi/g	6	6	0.025	3.15	NoA
227	2	Technetium-99	7.08	pCi/g	6	6	2.5	101	NoA
227	2	Thorium-228	0.605	pCi/g	6	6	1.6		NoB
227	2	Thorium-230	0.91	pCi/g	6	6	1.5	4.1	NoAB
227	2	Thorium-232	0.639	pCi/g	6	6	1.5		NoB
227	2	Uranium-234	1.4	pCi/g	6	6	1.2	5.47	NoA
227	2	Uranium-235	0.0668	pCi/g	6	6	0.06	0.122	NoA
227	2	Uranium-238	2.45	pCi/g	6	6	1.2	0.517	Yes
228	1	Aluminum	3120	mg/kg	1	1	13000	4410	NoAB
228	1	Antimony	0.63	mg/kg	1	1	0.21	0.552	Yes
228	1	Arsenic	11.55	mg/kg	11	3	12	0.238	NoB
228	1	Barium	109	mg/kg	1	1	200	140	NoAB
228	1	Benzo(ghi)perylene	0.045	mg/kg	1	1			NoC
228	1	Beryllium	0.19	mg/kg	1	1	0.67	0.00567	NoB
228	1	Cadmium	3.9	mg/kg	1	1	0.21	0.811	Yes
228	1	Calcium	268000	mg/kg	1	1	200000		NoE
228	1	Chromium	188.9	mg/kg	11	3	16	15.6	Yes
228	1	Cobalt	2.5	mg/kg	1	1	14	1.37	NoB
228	1	Copper	97.99	mg/kg	11	2	19	184	NoA
228	1	Fluoranthene	0.07	mg/kg	1	1		109	NoA
228	1	Iron	13722.35	mg/kg	11	11	28000	3220	NoB
228	1	Lead	60.85	mg/kg	11	11	36	400	NoA
228	1	Magnesium	11000	mg/kg	1	1	7700		NoE
228	1	Manganese	448.79	mg/kg	11	11	1500	419	NoB
228	1	Mercury	9.37	mg/kg	11	2	0.2	0.213	Yes
228	1	Molybdenum	1.2	mg/kg	11	1		23	NoA
228	1	Nickel	79.16	mg/kg	11	4	21	10.4	Yes
228	1	Pyrene	0.065	mg/kg	1	1		81.2	NoA
228	1	Selenium	3.97	mg/kg	11	2	0.8	23	NoA
228	1	Silver	11.63	mg/kg	11	2	2.3	2.61	Yes
228	1	Sodium	140	mg/kg	1	1	320		NoB
228	1	Thallium	0.085	mg/kg	1	1	0.21	0.368	NoAB
228	1	Total PAH	0.066874	mg/kg	1	1		0.0197	Yes
228	1	Uranium	15.13	mg/kg	12	3	4.9	13.8	Yes
228	1	Vanadium	7.2	mg/kg	1	1	38	0.0365	NoB
228	1	Zinc	191.11	mg/kg	11	11	65	1380	NoA
228	1	Americium-241	0.097	pCi/g	2	2		1.5	NoA
228	1	Cesium-137	0.004	pCi/g	2	2	0.49	0.0267	NoAB
228	1	Neptunium-237	0.8	pCi/g	2	2	0.1	0.0839	Yes
228	1	Plutonium-238	0.023	pCi/g	2	2	0.073	3.21	NoAB
228	1	Plutonium-239/240	0.604	pCi/g	2	2	0.025	3.15	NoA
228	1	Technetium-99	18.8	pCi/g	2	2	2.5	101	NoA
228	1	Thorium-228	0.228	pCi/g	2	2	1.6		NoB
228	1	Thorium-230	3.18	pCi/g	2	2	1.5	4.1	NoA
228	1	Thorium-232	0.22	pCi/g	2	2	1.5		NoB
228	1	Uranium-234	2.91	pCi/g	2	2	1.2	5.47	NoA
228	1	Uranium-235	0.178	pCi/g	2	2	0.06	0.122	Yes
228	1	Uranium-238	3.77	pCi/g	2	2	1.2	0.517	Yes
76	1	Acenaphthene	0.11	mg/kg	1	1		117	NoA
76	1	Acenaphthylene	0.29	mg/kg	1	1			NoC
76	1	Aluminum	5990	mg/kg	1	1	13000	4410	NoB
76	1	Anthracene	0.62	mg/kg	1	1		747	NoA
76	1	Arsenic	7.8	mg/kg	1	1	12	0.238	NoB
76	1	Barium	269	mg/kg	1	1	200	140	Yes
76	1	Benzo(ghi)perylene	0.54	mg/kg	1	1			NoC

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
76	1	Beryllium	0.3	mg/kg	1	1	0.67	0.00567	NoB
76	1	Cadmium	0.26	mg/kg	1	1	0.21	0.811	NoA
76	1	Calcium	138000	mg/kg	1	1	200000		NoB
76	1	Chromium	15.6	mg/kg	1	1	16	15.6	NoB
76	1	Cobalt	4.8	mg/kg	1	1	14	1.37	NoB
76	1	Copper	7.9	mg/kg	1	1	19	184	NoAB
76	1	Dibenzofuran	0.077	mg/kg	1	1		3.26	NoA
76	1	Fluoranthene	2.3	mg/kg	1	1		109	NoA
76	1	Fluorene	0.12	mg/kg	1	1		91.5	NoA
76	1	Iron	12000	mg/kg	1	1	28000	3220	NoB
76	1	Lead	22.1	mg/kg	1	1	36	400	NoAB
76	1	Magnesium	4010	mg/kg	1	1	7700		NoB
76	1	Manganese	437	mg/kg	1	1	1500	419	NoB
76	1	Mercury	0.0222	mg/kg	1	1	0.2	0.213	NoAB
76	1	Nickel	9.4	mg/kg	1	1	21	10.4	NoAB
76	1	PCB, Total	0.26	mg/kg	1	1		0.0648	Yes
76	1	Phenanthrene	0.81	mg/kg	1	1			NoC
76	1	Pyrene	1.8	mg/kg	1	1		81.2	NoA
76	1	Selenium	0.97	mg/kg	1	1	0.8	23	NoA
76	1	Silver	0.063	mg/kg	1	1	2.3	2.61	NoAB
76	1	Sodium	92.3	mg/kg	1	1	320		NoB
76	1	Thallium	0.18	mg/kg	1	1	0.21	0.368	NoAB
76	1	Total PAH	1.7582	mg/kg	1	1		0.0197	Yes
76	1	Uranium	4.36	mg/kg	1	1	4.9	13.8	NoAB
76	1	Vanadium	24.4	mg/kg	1	1	38	0.0365	NoB
76	1	Zinc	68.27	mg/kg	1	1	65	1380	NoA
76	1	Americium-241	0.011	pCi/g	1	1		1.5	NoA
76	1	Cesium-137	0.018	pCi/g	1	1	0.49	0.0267	NoAB
76	1	Neptunium-237	0.0029	pCi/g	1	1	0.1	0.0839	NoAB
76	1	Plutonium-238	0.008	pCi/g	1	1	0.073	3.21	NoAB
76	1	Plutonium-239/240	0.015	pCi/g	1	1	0.025	3.15	NoAB
76	1	Technetium-99	0.42	pCi/g	1	1	2.5	101	NoAB
76	1	Thorium-228	0.73	pCi/g	1	1	1.6		NoB
76	1	Thorium-230	0.93	pCi/g	1	1	1.5	4.1	NoAB
76	1	Thorium-232	0.69	pCi/g	1	1	1.5		NoB
76	1	Uranium-234	1.01	pCi/g	1	1	1.2	5.47	NoAB
76	1	Uranium-235	0.091	pCi/g	1	1	0.06	0.122	NoA
76	1	Uranium-238	1.45	pCi/g	1	1	1.2	0.517	Yes
165	1	2-Methylnaphthalene	0.37	mg/kg	2	1		13.04	NoA
165	1	Acenaphthene	0.37	mg/kg	6	1		117	NoA
165	1	Acenaphthylene	0.36	mg/kg	6	1			NoC
165	1	Acetone	0.11	mg/kg	6	1		1339	NoA
165	1	Aluminum	7460	mg/kg	4	4	13000	4410	NoB
165	1	Anthracene	0.63	mg/kg	6	3		747	NoA
165	1	Antimony	2.2	mg/kg	4	1	0.21	0.552	Yes
165	1	Arsenic	130.36	mg/kg	16	15	12	0.238	Yes
165	1	Barium	1140	mg/kg	15	15	200	140	Yes
165	1	Benzo(ghi)perylene	0.93	mg/kg	6	3			NoC
165	1	Beryllium	1.08	mg/kg	4	4	0.67	0.00567	Yes
165	1	Butyl benzyl phthalate	0.36	mg/kg	2	1		91.8	NoA
165	1	Cadmium	0.22	mg/kg	16	2	0.21	0.811	NoA
165	1	Calcium	83000	mg/kg	3	3	200000		NoB
165	1	Carbazole	0.37	mg/kg	2	1		8.72	NoA
165	1	Chromium	66.62	mg/kg	16	16	16	15.6	Yes
165	1	Cobalt	5.6	mg/kg	3	3	14	1.37	NoB
165	1	Copper	66	mg/kg	4	4	19	184	NoA
165	1	Dibenzofuran	0.37	mg/kg	2	1		3.26	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
165	1	Di-n-butyl phthalate	0.37	mg/kg	2	2		326	NoA
165	1	Fluoranthene	4	mg/kg	6	4		109	NoA
165	1	Iron	13400	mg/kg	4	4	28000	3220	NoB
165	1	Lead	51.53	mg/kg	16	11	36	400	NoA
165	1	Magnesium	4410	mg/kg	3	3	7700		NoB
165	1	Manganese	434	mg/kg	4	4	1500	419	NoB
165	1	Mercury	0.9	mg/kg	15	5	0.2	0.213	Yes
165	1	Methylene chloride	0.006	mg/kg	6	2		3.65	NoA
165	1	Naphthalene	4.7	mg/kg	6	3		1.15	Yes
165	1	Nickel	39.2	mg/kg	16	16	21	10.4	Yes
165	1	PCB, Total	51	mg/kg	196	34		0.0648	Yes
165	1	Phenanthrene	3.8	mg/kg	6	4			NoC
165	1	Pyrene	2.9	mg/kg	6	4		81.2	NoA
165	1	Selenium	12.5	mg/kg	16	14	0.8	23	NoA
165	1	Silver	83.3	mg/kg	16	7	2.3	2.61	Yes
165	1	Sodium	333	mg/kg	3	3	320		NoE
165	1	Thallium	0.11	mg/kg	12	2	0.21	0.368	NoAB
165	1	Toluene	0.21	mg/kg	6	2		96.07	NoA
165	1	Total PAH	1.8683	mg/kg	20	4		0.0197	Yes
165	1	Uranium	268	mg/kg	10	10	4.9	13.8	Yes
165	1	Vanadium	24.7	mg/kg	4	4	38	0.0365	NoB
165	1	Zinc	122	mg/kg	3	3	65	1380	NoA
165	1	Americium-241	0.491	pCi/g	3	3		1.5	NoA
165	1	Cesium-137	8.65	pCi/g	3	3	0.49	0.0267	Yes
165	1	Cobalt-60	-0.0142	pCi/g	1	1		0.00547	NoA
165	1	Neptunium-237	0.56	pCi/g	6	6	0.1	0.0839	Yes
165	1	Plutonium-238	0.128	pCi/g	3	3	0.073	3.21	NoA
165	1	Plutonium-239	0.39	pCi/g	2	2	0.025	3.15	NoA
165	1	Plutonium-239/240	7.78	pCi/g	3	3	0.025	3.15	Yes
165	1	Technetium-99	60	pCi/g	6	6	2.5	101	NoA
165	1	Thorium-228	1.3	pCi/g	3	3	1.6		NoB
165	1	Thorium-230	11.4	pCi/g	6	6	1.5	4.1	Yes
165	1	Thorium-232	1.21	pCi/g	3	3	1.5		NoB
165	1	Uranium-234	140	pCi/g	7	7	1.2	5.47	Yes
165	1	Uranium-235	4.7	pCi/g	7	7	0.06	0.122	Yes
165	1	Uranium-238	150	pCi/g	7	7	1.2	0.517	Yes
170	1	Uranium	4.57	mg/kg	1	1	4.9	13.8	NoAB
170	1	Americium-241	0.015	pCi/g	1	1		1.5	NoA
170	1	Cesium-137	0.335	pCi/g	1	1	0.49	0.0267	NoB
170	1	Neptunium-237	0.115	pCi/g	1	1	0.1	0.0839	Yes
170	1	Plutonium-238	0.01	pCi/g	1	1	0.073	3.21	NoAB
170	1	Plutonium-239/240	0.027	pCi/g	1	1	0.025	3.15	NoA
170	1	Technetium-99	0.91	pCi/g	1	1	2.5	101	NoAB
170	1	Thorium-228	0.81	pCi/g	1	1	1.6		NoB
170	1	Thorium-230	0.93	pCi/g	1	1	1.5	4.1	NoAB
170	1	Thorium-232	0.77	pCi/g	1	1	1.5		NoB
170	1	Uranium-234	1.05	pCi/g	1	1	1.2	5.47	NoAB
170	1	Uranium-235	0.067	pCi/g	1	1	0.06	0.122	NoA
170	1	Uranium-238	1.53	pCi/g	1	1	1.2	0.517	Yes
158	1	Acenaphthene	0.083	mg/kg	3	1		117	NoA
158	1	Aluminum	8970	mg/kg	4	4	13000	4410	NoB
158	1	Anthracene	0.13	mg/kg	3	2		747	NoA
158	1	Antimony	0.7	mg/kg	4	3	0.21	0.552	Yes
158	1	Arsenic	12.83	mg/kg	27	15	12	0.238	Yes
158	1	Barium	292	mg/kg	4	4	200	140	Yes
158	1	Benzo(ghi)perylene	0.26	mg/kg	3	2			NoC
158	1	Beryllium	0.63	mg/kg	4	4	0.67	0.00567	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
158	1	Cadmium	0.39	mg/kg	4	4	0.21	0.811	NoA
158	1	Calcium	7320	mg/kg	4	4	200000		NoB
158	1	Chromium	61.58	mg/kg	27	13	16	15.6	Yes
158	1	Cobalt	36.5	mg/kg	4	4	14	1.37	Yes
158	1	Copper	43.42	mg/kg	27	10	19	184	NoA
158	1	Fluoranthene	1	mg/kg	3	2		109	NoA
158	1	Fluorene	0.057	mg/kg	3	1		91.5	NoA
158	1	Iron	20900	mg/kg	27	27	28000	3220	NoB
158	1	Lead	94.32	mg/kg	27	26	36	400	NoA
158	1	Magnesium	1530	mg/kg	4	4	7700		NoB
158	1	Manganese	1860	mg/kg	27	27	1500	419	Yes
158	1	Mercury	10.46	mg/kg	27	5	0.2	0.213	Yes
158	1	Molybdenum	1.2	mg/kg	27	4		23	NoA
158	1	Nickel	131.86	mg/kg	27	9	21	10.4	Yes
158	1	Phenanthrene	0.78	mg/kg	3	2			NoC
158	1	Pyrene	0.95	mg/kg	3	2		81.2	NoA
158	1	Selenium	2.2	mg/kg	27	4	0.8	23	NoA
158	1	Silver	0.31	mg/kg	27	4	2.3	2.61	NoAB
158	1	Sodium	1420	mg/kg	4	4	320		NoE
158	1	Thallium	0.42	mg/kg	4	4	0.21	0.368	Yes
158	1	Total PAH	0.47836	mg/kg	3	2		0.0197	Yes
158	1	Uranium	30.24	mg/kg	27	14	4.9	13.8	Yes
158	1	Vanadium	30.6	mg/kg	4	4	38	0.0365	NoB
158	1	Zinc	98.92	mg/kg	27	27	65	1380	NoA
158	1	Americium-241	0.01	pCi/g	3	3		1.5	NoA
158	1	Cesium-137	0.078	pCi/g	3	3	0.49	0.0267	NoB
158	1	Neptunium-237	0.089	pCi/g	3	3	0.1	0.0839	NoB
158	1	Plutonium-238	0.017	pCi/g	3	3	0.073	3.21	NoAB
158	1	Plutonium-239/240	0.029	pCi/g	3	3	0.025	3.15	NoA
158	1	Technetium-99	2.44	pCi/g	3	3	2.5	101	NoAB
158	1	Thorium-228	1	pCi/g	3	3	1.6		NoB
158	1	Thorium-230	1.1	pCi/g	3	3	1.5	4.1	NoAB
158	1	Thorium-232	0.98	pCi/g	3	3	1.5		NoB
158	1	Uranium-234	4	pCi/g	3	3	1.2	5.47	NoA
158	1	Uranium-235	0.259	pCi/g	3	3	0.06	0.122	Yes
158	1	Uranium-238	6.5	pCi/g	3	3	1.2	0.517	Yes
169	1	Aluminum	14200	mg/kg	5	5	13000	4410	Yes
169	1	Anthracene	0.066	mg/kg	1	1		747	NoA
169	1	Antimony	1.3	mg/kg	5	2	0.21	0.552	Yes
169	1	Arsenic	20.3	mg/kg	17	12	12	0.238	Yes
169	1	Barium	148	mg/kg	5	5	200	140	NoB
169	1	Benzenemethanol	0.059	mg/kg	1	1		326	NoA
169	1	Benzo(ghi)perylene	2.8	mg/kg	1	1			NoC
169	1	Beryllium	0.8	mg/kg	5	5	0.67	0.00567	Yes
169	1	Bis(2-ethylhexyl)phthalate	0.27	mg/kg	1	1		12.5	NoA
169	1	Cadmium	0.61	mg/kg	5	3	0.21	0.811	NoA
169	1	Calcium	179000	mg/kg	5	5	200000		NoB
169	1	Chromium	214.93	mg/kg	17	13	16	15.6	Yes
169	1	Cobalt	6.3	mg/kg	5	3	14	1.37	NoB
169	1	Copper	374.35	mg/kg	17	15	19	184	Yes
169	1	Fluoranthene	2	mg/kg	1	1		109	NoA
169	1	Iron	41561.81	mg/kg	17	17	28000	3220	Yes
169	1	Lead	153.61	mg/kg	17	17	36	400	NoA
169	1	Magnesium	6200	mg/kg	5	5	7700		NoB
169	1	Manganese	608	mg/kg	17	16	1500	419	NoB
169	1	Mercury	7.87	mg/kg	17	3	0.2	0.213	Yes
169	1	Molybdenum	6.27	mg/kg	14	3		23	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
169	1	Nickel	548.66	mg/kg	17	11	21	10.4	Yes
169	1	PCB, Total	10	mg/kg	8	5		0.0648	Yes
169	1	Phenanthrene	0.36	mg/kg	1	1			NoC
169	1	Pyrene	1.8	mg/kg	1	1		81.2	NoA
169	1	Selenium	1.5	mg/kg	17	5	0.8	23	NoA
169	1	Silver	0.079	mg/kg	17	2	2.3	2.61	NoAB
169	1	Sodium	418	mg/kg	5	5	320		NoE
169	1	Thallium	0.46	mg/kg	5	3	0.21	0.368	Yes
169	1	Total PAH	4.5859	mg/kg	1	1		0.0197	Yes
169	1	Uranium	50.31	mg/kg	15	12	4.9	13.8	Yes
169	1	Vanadium	37.4	mg/kg	5	5	38	0.0365	NoB
169	1	Zinc	473.08	mg/kg	17	17	65	1380	NoA
169	1	Americium-241	0.013	pCi/g	2	2		1.5	NoA
169	1	Cesium-137	0.215	pCi/g	2	2	0.49	0.0267	NoB
169	1	Neptunium-237	0.032	pCi/g	2	2	0.1	0.0839	NoAB
169	1	Plutonium-238	0.027	pCi/g	2	2	0.073	3.21	NoAB
169	1	Plutonium-239/240	0.053	pCi/g	2	2	0.025	3.15	NoA
169	1	Technetium-99	4.69	pCi/g	2	2	2.5	101	NoA
169	1	Thorium-228	1.05	pCi/g	2	2	1.6		NoB
169	1	Thorium-230	1.27	pCi/g	2	2	1.5	4.1	NoAB
169	1	Thorium-232	0.95	pCi/g	2	2	1.5		NoB
169	1	Uranium-234	6.55	pCi/g	2	2	1.2	5.47	Yes
169	1	Uranium-235	0.46	pCi/g	2	2	0.06	0.122	Yes
169	1	Uranium-238	8.12	pCi/g	2	2	1.2	0.517	Yes
19	1	Aluminum	8490	mg/kg	4	4	13000	4410	NoB
19	1	Anthracene	1.4	mg/kg	4	1		747	NoA
19	1	Arsenic	6.4	mg/kg	4	4	12	0.238	NoB
19	1	Barium	87.6	mg/kg	4	4	200	140	NoAB
19	1	Benzo(ghi)perylene	2.1	mg/kg	4	4			NoC
19	1	Beryllium	1.1	mg/kg	4	4	0.67	0.00567	Yes
19	1	Cadmium	1.2	mg/kg	4	1	0.21	0.811	Yes
19	1	Calcium	267000	mg/kg	4	4	200000		NoE
19	1	Chromium	15.6	mg/kg	4	3	16	15.6	NoB
19	1	Copper	50.9	mg/kg	4	4	19	184	NoA
19	1	Fluoranthene	9.1	mg/kg	4	4		109	NoA
19	1	Iron	12000	mg/kg	4	4	28000	3220	NoB
19	1	Lead	50.8	mg/kg	4	4	36	400	NoA
19	1	Magnesium	15900	mg/kg	4	4	7700		NoE
19	1	Manganese	723	mg/kg	4	4	1500	419	NoB
19	1	Mercury	0.101	mg/kg	4	3	0.2	0.213	NoAB
19	1	Naphthalene	1.1	mg/kg	4	1		1.15	NoA
19	1	Nickel	14.9	mg/kg	4	2	21	10.4	NoB
19	1	Phenanthrene	8.1	mg/kg	4	4			NoC
19	1	Pyrene	8.6	mg/kg	4	4		81.2	NoA
19	1	Selenium	0.42	mg/kg	4	1	0.8	23	NoAB
19	1	Sodium	432	mg/kg	4	4	320		NoE
19	1	Thallium	0.98	mg/kg	4	3	0.21	0.368	Yes
19	1	Total PAH	5.2264	mg/kg	4	4		0.0197	Yes
19	1	Vanadium	22.5	mg/kg	4	4	38	0.0365	NoB
19	1	Zinc	203	mg/kg	4	4	65	1380	NoA
138	1	Aluminum	9030	mg/kg	2	2	13000	4410	NoB
138	1	Antimony	7.34	mg/kg	15	3	0.21	0.552	Yes
138	1	Arsenic	15.45	mg/kg	38	21	12	0.238	Yes
138	1	Barium	174	mg/kg	14	14	200	140	NoB
138	1	Beryllium	0.54	mg/kg	2	2	0.67	0.00567	NoB
138	1	Cadmium	7.3	mg/kg	15	5	0.21	0.811	Yes
138	1	Calcium	207000	mg/kg	2	2	200000		NoE

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
138	1	Chromium	53.85	mg/kg	41	18	16	15.6	Yes
138	1	Cobalt	9.4	mg/kg	2	2	14	1.37	NoB
138	1	Copper	41.31	mg/kg	28	10	19	184	NoA
138	1	Fluoranthene	0.1	mg/kg	1	1		109	NoA
138	1	Iron	23500	mg/kg	28	28	28000	3220	NoB
138	1	Lead	280.5	mg/kg	41	41	36	400	NoA
138	1	Magnesium	3790	mg/kg	2	2	7700		NoB
138	1	Manganese	671.67	mg/kg	28	28	1500	419	NoB
138	1	Mercury	21.3	mg/kg	41	15	0.2	0.213	Yes
138	1	Molybdenum	0.64	mg/kg	28	2		23	NoA
138	1	Nickel	101.69	mg/kg	41	12	21	10.4	Yes
138	1	PCB, Total	0.5	mg/kg	26	5		0.0648	Yes
138	1	Phenanthrene	0.059	mg/kg	1	1			NoC
138	1	Pyrene	0.096	mg/kg	1	1		81.2	NoA
138	1	Selenium	1.66	mg/kg	41	13	0.8	23	NoA
138	1	Silver	10.09	mg/kg	41	3	2.3	2.61	Yes
138	1	Sodium	93.9	mg/kg	2	2	320		NoB
138	1	Thallium	0.23	mg/kg	15	2	0.21	0.368	NoA
138	1	Total PAH	0.097432	mg/kg	1	1		0.0197	Yes
138	1	Uranium	9.09	mg/kg	28	3	4.9	13.8	NoA
138	1	Vanadium	29.3	mg/kg	2	2	38	0.0365	NoB
138	1	Zinc	91.83	mg/kg	28	28	65	1380	NoA
138	1	Americium-241	0.0021	pCi/g	1	1		1.5	NoA
138	1	Cesium-137	0.196	pCi/g	1	1	0.49	0.0267	NoB
138	1	Neptunium-237	-0.002	pCi/g	1	1	0.1	0.0839	NoAB
138	1	Plutonium-238	0.0085	pCi/g	1	1	0.073	3.21	NoAB
138	1	Plutonium-239/240	0.0055	pCi/g	1	1	0.025	3.15	NoAB
138	1	Technetium-99	0.07	pCi/g	1	1	2.5	101	NoAB
138	1	Thorium-228	0.496	pCi/g	1	1	1.6		NoB
138	1	Thorium-230	0.77	pCi/g	1	1	1.5	4.1	NoAB
138	1	Thorium-232	0.412	pCi/g	1	1	1.5		NoB
138	1	Uranium-234	0.589	pCi/g	1	1	1.2	5.47	NoAB
138	1	Uranium-235	0.039	pCi/g	1	1	0.06	0.122	NoAB
138	1	Uranium-238	0.645	pCi/g	1	1	1.2	0.517	NoB
138	2	Aluminum	5670	mg/kg	1	1	13000	4410	NoB
138	2	Antimony	0.36	mg/kg	1	1	0.21	0.552	NoA
138	2	Arsenic	11.82	mg/kg	20	4	12	0.238	NoB
138	2	Barium	145	mg/kg	1	1	200	140	NoB
138	2	Beryllium	0.37	mg/kg	1	1	0.67	0.00567	NoB
138	2	Bis(2-ethylhexyl)phthalate	0.093	mg/kg	1	1		12.5	NoA
138	2	Cadmium	0.42	mg/kg	1	1	0.21	0.811	NoA
138	2	Calcium	161000	mg/kg	1	1	200000		NoB
138	2	Chromium	12.5	mg/kg	20	1	16	15.6	NoAB
138	2	Cobalt	8	mg/kg	1	1	14	1.37	NoB
138	2	Copper	39.32	mg/kg	20	7	19	184	NoA
138	2	Iron	20300	mg/kg	20	20	28000	3220	NoB
138	2	Lead	56.8	mg/kg	20	20	36	400	NoA
138	2	Magnesium	2930	mg/kg	1	1	7700		NoB
138	2	Manganese	738.42	mg/kg	20	20	1500	419	NoB
138	2	Mercury	0.108	mg/kg	20	1	0.2	0.213	NoAB
138	2	Molybdenum	0.61	mg/kg	20	1		23	NoA
138	2	Nickel	113.2	mg/kg	20	6	21	10.4	Yes
138	2	PCB, Total	0.092	mg/kg	15	1		0.0648	Yes
138	2	Selenium	1.2	mg/kg	20	1	0.8	23	NoA
138	2	Silver	12.67	mg/kg	20	3	2.3	2.61	Yes
138	2	Sodium	80	mg/kg	1	1	320		NoB
138	2	Thallium	0.23	mg/kg	1	1	0.21	0.368	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
138	2	Total PAH	0.0384	mg/kg	3	1		0.0197	Yes
138	2	Uranium	3.12	mg/kg	21	2	4.9	13.8	NoAB
138	2	Vanadium	17.1	mg/kg	1	1	38	0.0365	NoB
138	2	Zinc	90.15	mg/kg	20	20	65	1380	NoA
138	2	Americium-241	0.015	pCi/g	2	2		1.5	NoA
138	2	Cesium-137	0.105	pCi/g	2	2	0.49	0.0267	NoB
138	2	Neptunium-237	0.0016	pCi/g	2	2	0.1	0.0839	NoAB
138	2	Plutonium-238	0.005	pCi/g	2	2	0.073	3.21	NoAB
138	2	Plutonium-239/240	0.0085	pCi/g	2	2	0.025	3.15	NoAB
138	2	Technetium-99	0.29	pCi/g	2	2	2.5	101	NoAB
138	2	Thorium-228	0.86	pCi/g	2	2	1.6		NoB
138	2	Thorium-230	0.87	pCi/g	2	2	1.5	4.1	NoAB
138	2	Thorium-232	0.87	pCi/g	2	2	1.5		NoB
138	2	Uranium-234	0.87	pCi/g	2	2	1.2	5.47	NoAB
138	2	Uranium-235	0.051	pCi/g	2	2	0.06	0.122	NoAB
138	2	Uranium-238	1.04	pCi/g	2	2	1.2	0.517	NoB
180	1	Aluminum	10300	mg/kg	1	1	13000	4410	NoB
180	1	Antimony	0.58	mg/kg	1	1	0.21	0.552	Yes
180	1	Arsenic	137.97	mg/kg	12	8	12	0.238	Yes
180	1	Barium	109	mg/kg	1	1	200	140	NoAB
180	1	Beryllium	0.54	mg/kg	1	1	0.67	0.00567	NoB
180	1	Cadmium	0.071	mg/kg	1	1	0.21	0.811	NoAB
180	1	Calcium	3110	mg/kg	1	1	200000		NoB
180	1	Chromium	55.44	mg/kg	12	6	16	15.6	Yes
180	1	Cobalt	8	mg/kg	1	1	14	1.37	NoB
180	1	Copper	94.19	mg/kg	12	6	19	184	NoA
180	1	Iron	19775.19	mg/kg	12	12	28000	3220	NoB
180	1	Lead	1992.17	mg/kg	12	12	36	400	Yes
180	1	Magnesium	1810	mg/kg	1	1	7700		NoB
180	1	Manganese	603.24	mg/kg	12	12	1500	419	NoB
180	1	Mercury	8.28	mg/kg	12	2	0.2	0.213	Yes
180	1	Molybdenum	0.67	mg/kg	12	1		23	NoA
180	1	Nickel	90.33	mg/kg	12	3	21	10.4	Yes
180	1	Selenium	1.4	mg/kg	12	1	0.8	23	NoA
180	1	Silver	0.033	mg/kg	12	1	2.3	2.61	NoAB
180	1	Sodium	55.7	mg/kg	1	1	320		NoB
180	1	Thallium	0.16	mg/kg	1	1	0.21	0.368	NoAB
180	1	Total PAH	0.0056	mg/kg	1	1		0.0197	NoA
180	1	Uranium	2.6	mg/kg	13	2	4.9	13.8	NoAB
180	1	Vanadium	31.2	mg/kg	1	1	38	0.0365	NoB
180	1	Zinc	61.25	mg/kg	12	12	65	1380	NoAB
180	1	Americium-241	0.0029	pCi/g	2	2		1.5	NoA
180	1	Cesium-137	0.163	pCi/g	2	2	0.49	0.0267	NoB
180	1	Neptunium-237	0	pCi/g	2	2	0.1	0.0839	NoAB
180	1	Plutonium-238	0.017	pCi/g	2	2	0.073	3.21	NoAB
180	1	Plutonium-239/240	0.0073	pCi/g	2	2	0.025	3.15	NoAB
180	1	Technetium-99	0.28	pCi/g	2	2	2.5	101	NoAB
180	1	Thorium-228	0.91	pCi/g	2	2	1.6		NoB
180	1	Thorium-230	0.94	pCi/g	2	2	1.5	4.1	NoAB
180	1	Thorium-232	0.91	pCi/g	2	2	1.5		NoB
180	1	Uranium-234	0.85	pCi/g	2	2	1.2	5.47	NoAB
180	1	Uranium-235	0.054	pCi/g	2	2	0.06	0.122	NoAB
180	1	Uranium-238	0.87	pCi/g	2	2	1.2	0.517	NoB
180	2	Aluminum	8700	mg/kg	2	2	13000	4410	NoB
180	2	Antimony	0.59	mg/kg	2	2	0.21	0.552	Yes
180	2	Arsenic	18.65	mg/kg	12	5	12	0.238	Yes
180	2	Barium	110	mg/kg	2	2	200	140	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
180	2	Beryllium	0.53	mg/kg	2	2	0.67	0.00567	NoB
180	2	Cadmium	0.18	mg/kg	2	2	0.21	0.811	NoAB
180	2	Calcium	2280	mg/kg	2	2	200000		NoB
180	2	Chromium	44.63	mg/kg	12	6	16	15.6	Yes
180	2	Cobalt	8.6	mg/kg	2	2	14	1.37	NoB
180	2	Copper	18.92	mg/kg	12	3	19	184	NoAB
180	2	Fluoranthene	0.054	mg/kg	1	1		109	NoA
180	2	Iron	15300	mg/kg	12	12	28000	3220	NoB
180	2	Lead	125.12	mg/kg	12	12	36	400	NoA
180	2	Magnesium	1400	mg/kg	2	2	7700		NoB
180	2	Manganese	749	mg/kg	12	11	1500	419	NoB
180	2	Mercury	0.0354	mg/kg	12	2	0.2	0.213	NoAB
180	2	Molybdenum	0.47	mg/kg	12	2		23	NoA
180	2	Nickel	84.16	mg/kg	12	4	21	10.4	Yes
180	2	Pyrene	0.056	mg/kg	1	1		81.2	NoA
180	2	Selenium	1.3	mg/kg	12	2	0.8	23	NoA
180	2	Silver	0.035	mg/kg	12	2	2.3	2.61	NoAB
180	2	Sodium	228	mg/kg	2	2	320		NoB
180	2	Thallium	0.16	mg/kg	2	2	0.21	0.368	NoAB
180	2	Total PAH	0.091854	mg/kg	1	1		0.0197	Yes
180	2	Uranium	2.13	mg/kg	12	2	4.9	13.8	NoAB
180	2	Vanadium	25.6	mg/kg	2	2	38	0.0365	NoB
180	2	Zinc	68.63	mg/kg	12	12	65	1380	NoA
180	2	Americium-241	0.0002	pCi/g	1	1		1.5	NoA
180	2	Cesium-137	0.119	pCi/g	1	1	0.49	0.0267	NoB
180	2	Neptunium-237	0.008	pCi/g	1	1	0.1	0.0839	NoAB
180	2	Plutonium-238	0.0014	pCi/g	1	1	0.073	3.21	NoAB
180	2	Plutonium-239/240	0.005	pCi/g	1	1	0.025	3.15	NoAB
180	2	Technetium-99	0.22	pCi/g	1	1	2.5	101	NoAB
180	2	Thorium-228	0.92	pCi/g	1	1	1.6		NoB
180	2	Thorium-230	0.98	pCi/g	1	1	1.5	4.1	NoAB
180	2	Thorium-232	0.8	pCi/g	1	1	1.5		NoB
180	2	Uranium-234	0.703	pCi/g	1	1	1.2	5.47	NoAB
180	2	Uranium-235	0.05	pCi/g	1	1	0.06	0.122	NoAB
180	2	Uranium-238	0.709	pCi/g	1	1	1.2	0.517	NoB
180	3	Aluminum	8190	mg/kg	1	1	13000	4410	NoB
180	3	Antimony	0.33	mg/kg	1	1	0.21	0.552	NoA
180	3	Arsenic	30.3	mg/kg	17	9	12	0.238	Yes
180	3	Barium	131	mg/kg	1	1	200	140	NoAB
180	3	Beryllium	0.48	mg/kg	1	1	0.67	0.00567	NoB
180	3	Cadmium	0.042	mg/kg	1	1	0.21	0.811	NoAB
180	3	Calcium	2510	mg/kg	1	1	200000		NoB
180	3	Chromium	46.94	mg/kg	17	4	16	15.6	Yes
180	3	Cobalt	5.9	mg/kg	1	1	14	1.37	NoB
180	3	Copper	18.75	mg/kg	17	2	19	184	NoAB
180	3	Iron	13582.67	mg/kg	17	17	28000	3220	NoB
180	3	Lead	193.29	mg/kg	17	17	36	400	NoA
180	3	Magnesium	1300	mg/kg	1	1	7700		NoB
180	3	Manganese	1002.39	mg/kg	17	17	1500	419	NoB
180	3	Mercury	0.0288	mg/kg	17	1	0.2	0.213	NoAB
180	3	Molybdenum	0.49	mg/kg	17	1		23	NoA
180	3	Nickel	68.91	mg/kg	17	4	21	10.4	Yes
180	3	Selenium	1.2	mg/kg	17	1	0.8	23	NoA
180	3	Silver	11.4	mg/kg	17	3	2.3	2.61	Yes
180	3	Sodium	91.2	mg/kg	1	1	320		NoB
180	3	Thallium	0.11	mg/kg	1	1	0.21	0.368	NoAB
180	3	Total PAH	0.0108	mg/kg	1	1		0.0197	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
180	3	Uranium	1.54	mg/kg	17	1	4.9	13.8	NoAB
180	3	Vanadium	24.8	mg/kg	1	1	38	0.0365	NoB
180	3	Zinc	64.69	mg/kg	17	17	65	1380	NoAB
180	3	Americium-241	0.0021	pCi/g	1	1		1.5	NoA
180	3	Cesium-137	0.034	pCi/g	1	1	0.49	0.0267	NoB
180	3	Neptunium-237	-0.0032	pCi/g	1	1	0.1	0.0839	NoAB
180	3	Plutonium-238	0.0094	pCi/g	1	1	0.073	3.21	NoAB
180	3	Plutonium-239/240	0.0051	pCi/g	1	1	0.025	3.15	NoAB
180	3	Technetium-99	0.14	pCi/g	1	1	2.5	101	NoAB
180	3	Thorium-228	0.504	pCi/g	1	1	1.6		NoB
180	3	Thorium-230	0.706	pCi/g	1	1	1.5	4.1	NoAB
180	3	Thorium-232	0.422	pCi/g	1	1	1.5		NoB
180	3	Uranium-234	0.444	pCi/g	1	1	1.2	5.47	NoAB
180	3	Uranium-235	0.03	pCi/g	1	1	0.06	0.122	NoAB
180	3	Uranium-238	0.512	pCi/g	1	1	1.2	0.517	NoAB
180	4	Aluminum	6280	mg/kg	1	1	13000	4410	NoB
180	4	Antimony	0.29	mg/kg	1	1	0.21	0.552	NoA
180	4	Arsenic	19.2	mg/kg	15	6	12	0.238	Yes
180	4	Barium	213	mg/kg	1	1	200	140	Yes
180	4	Beryllium	1.6	mg/kg	1	1	0.67	0.00567	Yes
180	4	Cadmium	0.059	mg/kg	1	1	0.21	0.811	NoAB
180	4	Calcium	1210	mg/kg	1	1	200000		NoB
180	4	Chromium	60.01	mg/kg	15	7	16	15.6	Yes
180	4	Cobalt	13.2	mg/kg	1	1	14	1.37	NoB
180	4	Copper	11.2	mg/kg	15	1	19	184	NoAB
180	4	Iron	35300	mg/kg	15	15	28000	3220	Yes
180	4	Lead	19.94	mg/kg	15	15	36	400	NoAB
180	4	Magnesium	670	mg/kg	1	1	7700		NoB
180	4	Manganese	1990	mg/kg	15	15	1500	419	Yes
180	4	Mercury	0.0197	mg/kg	15	1	0.2	0.213	NoAB
180	4	Molybdenum	1.4	mg/kg	15	1		23	NoA
180	4	Nickel	64.61	mg/kg	15	4	21	10.4	Yes
180	4	Selenium	1.8	mg/kg	15	1	0.8	23	NoA
180	4	Silver	9.68	mg/kg	15	2	2.3	2.61	Yes
180	4	Sodium	29	mg/kg	1	1	320		NoB
180	4	Thallium	0.21	mg/kg	1	1	0.21	0.368	NoA
180	4	Total PAH	0.0215	mg/kg	1	1		0.0197	Yes
180	4	Uranium	1.55	mg/kg	15	1	4.9	13.8	NoAB
180	4	Vanadium	48.5	mg/kg	1	1	38	0.0365	Yes
180	4	Zinc	47.8	mg/kg	15	15	65	1380	NoAB
180	4	Americium-241	0.01	pCi/g	1	1		1.5	NoA
180	4	Cesium-137	0.055	pCi/g	1	1	0.49	0.0267	NoB
180	4	Neptunium-237	-0.001	pCi/g	1	1	0.1	0.0839	NoAB
180	4	Plutonium-238	0.007	pCi/g	1	1	0.073	3.21	NoAB
180	4	Plutonium-239/240	0.0071	pCi/g	1	1	0.025	3.15	NoAB
180	4	Technetium-99	0.09	pCi/g	1	1	2.5	101	NoAB
180	4	Thorium-228	0.764	pCi/g	1	1	1.6		NoB
180	4	Thorium-230	0.69	pCi/g	1	1	1.5	4.1	NoAB
180	4	Thorium-232	0.727	pCi/g	1	1	1.5		NoB
180	4	Uranium-234	0.47	pCi/g	1	1	1.2	5.47	NoAB
180	4	Uranium-235	0.031	pCi/g	1	1	0.06	0.122	NoAB
180	4	Uranium-238	0.517	pCi/g	1	1	1.2	0.517	NoB
181	1	Aluminum	9470	mg/kg	16	16	13000	4410	NoB
181	1	Anthracene	0.0057	mg/kg	5	2		747	NoA
181	1	Antimony	0.28	mg/kg	16	5	0.21	0.552	NoA
181	1	Arsenic	6.9	mg/kg	16	12	12	0.238	NoB
181	1	Barium	141	mg/kg	16	16	200	140	NoB

SWMU = solid waste management unit

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COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
181	1	Benzo(ghi)perylene	0.02	mg/kg	5	5			NoC
181	1	Beryllium	0.48	mg/kg	16	5	0.67	0.00567	NoB
181	1	Cadmium	0.695	mg/kg	16	9	0.21	0.811	NoA
181	1	Calcium	182000	mg/kg	16	16	200000		NoB
181	1	Chromium	31.2	mg/kg	16	16	16	15.6	Yes
181	1	Cobalt	8.4	mg/kg	16	16	14	1.37	NoB
181	1	Copper	44.7	mg/kg	16	16	19	184	NoA
181	1	Fluoranthene	0.046	mg/kg	5	5		109	NoA
181	1	Iron	24600	mg/kg	16	16	28000	3220	NoB
181	1	Lead	35	mg/kg	16	16	36	400	NoAB
181	1	Magnesium	4060	mg/kg	16	16	7700		NoB
181	1	Manganese	512	mg/kg	16	16	1500	419	NoB
181	1	Mercury	0.13	mg/kg	16	16	0.2	0.213	NoAB
181	1	Naphthalene	0.0053	mg/kg	5	5		1.15	NoA
181	1	Nickel	10.3	mg/kg	16	16	21	10.4	NoAB
181	1	Phenanthrene	0.033	mg/kg	5	5			NoC
181	1	Pyrene	0.06	mg/kg	5	5		81.2	NoA
181	1	Silver	0.16	mg/kg	16	5	2.3	2.61	NoAB
181	1	Sodium	254	mg/kg	16	5	320		NoB
181	1	Thallium	3.5	mg/kg	16	1	0.21	0.368	Yes
181	1	Total PAH	0.039144	mg/kg	6	6		0.0197	Yes
181	1	Uranium	2.37	mg/kg	12	1	4.9	13.8	NoAB
181	1	Vanadium	25	mg/kg	16	16	38	0.0365	NoB
181	1	Zinc	85.5	mg/kg	16	16	65	1380	NoA
181	1	Americium-241	-0.000675	pCi/g	9	9		1.5	NoA
181	1	Cesium-137	0.0953	pCi/g	12	12	0.49	0.0267	NoB
181	1	Neptunium-237	0.0113	pCi/g	11	11	0.1	0.0839	NoAB
181	1	Plutonium-238	0.019	pCi/g	12	12	0.073	3.21	NoAB
181	1	Plutonium-239/240	0.00303	pCi/g	9	9	0.025	3.15	NoAB
181	1	Technetium-99	1.18	pCi/g	12	12	2.5	101	NoAB
181	1	Thorium-228	0.84	pCi/g	12	12	1.6		NoB
181	1	Thorium-230	0.8	pCi/g	12	12	1.5	4.1	NoAB
181	1	Thorium-232	0.71	pCi/g	12	12	1.5		NoB
181	1	Uranium-234	0.74	pCi/g	12	12	1.2	5.47	NoAB
181	1	Uranium-235	0.022	pCi/g	12	12	0.06	0.122	NoAB
181	1	Uranium-238	0.79	pCi/g	12	12	1.2	0.517	NoB
195	1	Aluminum	9020	mg/kg	1	1	13000	4410	NoB
195	1	Antimony	0.15	mg/kg	1	1	0.21	0.552	NoAB
195	1	Arsenic	6.1	mg/kg	10	2	12	0.238	NoB
195	1	Barium	93.3	mg/kg	1	1	200	140	NoAB
195	1	Beryllium	0.49	mg/kg	1	1	0.67	0.00567	NoB
195	1	Cadmium	0.13	mg/kg	1	1	0.21	0.811	NoAB
195	1	Calcium	6880	mg/kg	1	1	200000		NoB
195	1	Chromium	63.27	mg/kg	10	3	16	15.6	Yes
195	1	Cobalt	8.4	mg/kg	1	1	14	1.37	NoB
195	1	Copper	30.72	mg/kg	10	2	19	184	NoA
195	1	Iron	21482.34	mg/kg	10	10	28000	3220	NoB
195	1	Lead	20.64	mg/kg	10	10	36	400	NoAB
195	1	Magnesium	1470	mg/kg	1	1	7700		NoB
195	1	Manganese	480	mg/kg	10	10	1500	419	NoB
195	1	Mercury	0.0294	mg/kg	10	1	0.2	0.213	NoAB
195	1	Molybdenum	0.55	mg/kg	10	1		23	NoA
195	1	Nickel	70.2	mg/kg	10	3	21	10.4	Yes
195	1	Selenium	1.3	mg/kg	10	1	0.8	23	NoA
195	1	Silver	9.37	mg/kg	10	2	2.3	2.61	Yes
195	1	Sodium	33.5	mg/kg	1	1	320		NoB
195	1	Thallium	0.11	mg/kg	1	1	0.21	0.368	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	1	Total PAH	0.0071	mg/kg	1	1		0.0197	NoA
195	1	Uranium	3.13	mg/kg	10	1	4.9	13.8	NoAB
195	1	Vanadium	26	mg/kg	1	1	38	0.0365	NoB
195	1	Zinc	41.06	mg/kg	10	10	65	1380	NoAB
195	1	Americium-241	0.0017	pCi/g	1	1		1.5	NoA
195	1	Cesium-137	0.44	pCi/g	1	1	0.49	0.0267	NoB
195	1	Neptunium-237	-0.0042	pCi/g	1	1	0.1	0.0839	NoAB
195	1	Plutonium-238	0.011	pCi/g	1	1	0.073	3.21	NoAB
195	1	Plutonium-239/240	0.016	pCi/g	1	1	0.025	3.15	NoAB
195	1	Technetium-99	0.21	pCi/g	1	1	2.5	101	NoAB
195	1	Thorium-228	0.87	pCi/g	1	1	1.6		NoB
195	1	Thorium-230	0.86	pCi/g	1	1	1.5	4.1	NoAB
195	1	Thorium-232	0.81	pCi/g	1	1	1.5		NoB
195	1	Uranium-234	0.94	pCi/g	1	1	1.2	5.47	NoAB
195	1	Uranium-235	0.044	pCi/g	1	1	0.06	0.122	NoAB
195	1	Uranium-238	1.04	pCi/g	1	1	1.2	0.517	NoB
195	2	Aluminum	5730	mg/kg	1	1	13000	4410	NoB
195	2	Antimony	0.31	mg/kg	1	1	0.21	0.552	NoA
195	2	Arsenic	7.6	mg/kg	13	4	12	0.238	NoB
195	2	Barium	95.3	mg/kg	1	1	200	140	NoAB
195	2	Beryllium	0.22	mg/kg	1	1	0.67	0.00567	NoB
195	2	Cadmium	0.049	mg/kg	1	1	0.21	0.811	NoAB
195	2	Calcium	4460	mg/kg	1	1	200000		NoB
195	2	Chromium	45.2	mg/kg	13	7	16	15.6	Yes
195	2	Cobalt	4.7	mg/kg	1	1	14	1.37	NoB
195	2	Copper	24.65	mg/kg	13	2	19	184	NoA
195	2	Iron	10766.96	mg/kg	13	13	28000	3220	NoB
195	2	Lead	18.1	mg/kg	13	13	36	400	NoAB
195	2	Magnesium	776	mg/kg	1	1	7700		NoB
195	2	Manganese	289	mg/kg	13	13	1500	419	NoAB
195	2	Mercury	0.0319	mg/kg	13	1	0.2	0.213	NoAB
195	2	Molybdenum	5.6	mg/kg	13	2		23	NoA
195	2	Nickel	7.2	mg/kg	13	1	21	10.4	NoAB
195	2	Selenium	0.17	mg/kg	13	1	0.8	23	NoAB
195	2	Silver	9.48	mg/kg	13	2	2.3	2.61	Yes
195	2	Sodium	27.8	mg/kg	1	1	320		NoB
195	2	Total PAH	0.0268	mg/kg	1	1		0.0197	Yes
195	2	Uranium	2.72	mg/kg	13	1	4.9	13.8	NoAB
195	2	Vanadium	19.3	mg/kg	1	1	38	0.0365	NoB
195	2	Zinc	39.51	mg/kg	13	13	65	1380	NoAB
195	2	Americium-241	0.0109	pCi/g	1	1		1.5	NoA
195	2	Cesium-137	0.26	pCi/g	1	1	0.49	0.0267	NoB
195	2	Neptunium-237	-0.0013	pCi/g	1	1	0.1	0.0839	NoAB
195	2	Plutonium-238	0.0103	pCi/g	1	1	0.073	3.21	NoAB
195	2	Plutonium-239/240	0.0134	pCi/g	1	1	0.025	3.15	NoAB
195	2	Technetium-99	0.22	pCi/g	1	1	2.5	101	NoAB
195	2	Thorium-228	0.93	pCi/g	1	1	1.6		NoB
195	2	Thorium-230	0.87	pCi/g	1	1	1.5	4.1	NoAB
195	2	Thorium-232	0.92	pCi/g	1	1	1.5		NoB
195	2	Uranium-234	0.735	pCi/g	1	1	1.2	5.47	NoAB
195	2	Uranium-235	0.044	pCi/g	1	1	0.06	0.122	NoAB
195	2	Uranium-238	0.91	pCi/g	1	1	1.2	0.517	NoB
195	3	Aluminum	8990	mg/kg	1	1	13000	4410	NoB
195	3	Antimony	0.26	mg/kg	1	1	0.21	0.552	NoA
195	3	Arsenic	11.08	mg/kg	12	4	12	0.238	NoB
195	3	Barium	92.1	mg/kg	1	1	200	140	NoAB
195	3	Beryllium	0.33	mg/kg	1	1	0.67	0.00567	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	3	Cadmium	0.041	mg/kg	1	1	0.21	0.811	NoAB
195	3	Calcium	4390	mg/kg	1	1	200000		NoB
195	3	Chromium	50.3	mg/kg	12	6	16	15.6	Yes
195	3	Cobalt	6.5	mg/kg	1	1	14	1.37	NoB
195	3	Copper	21.7	mg/kg	12	1	19	184	NoA
195	3	Fluoranthene	0.077	mg/kg	1	1		109	NoA
195	3	Iron	19200	mg/kg	12	12	28000	3220	NoB
195	3	Lead	14.95	mg/kg	12	10	36	400	NoAB
195	3	Magnesium	1330	mg/kg	1	1	7700		NoB
195	3	Manganese	371	mg/kg	12	12	1500	419	NoAB
195	3	Mercury	0.0313	mg/kg	12	1	0.2	0.213	NoAB
195	3	Molybdenum	0.8	mg/kg	12	1		23	NoA
195	3	Nickel	52.15	mg/kg	12	2	21	10.4	Yes
195	3	Pyrene	0.067	mg/kg	1	1		81.2	NoA
195	3	Selenium	0.15	mg/kg	12	1	0.8	23	NoAB
195	3	Silver	0.059	mg/kg	12	1	2.3	2.61	NoAB
195	3	Sodium	38.8	mg/kg	1	1	320		NoB
195	3	Total PAH	0.0406	mg/kg	1	1		0.0197	Yes
195	3	Uranium	3.04	mg/kg	12	1	4.9	13.8	NoAB
195	3	Vanadium	35.1	mg/kg	1	1	38	0.0365	NoB
195	3	Zinc	36.64	mg/kg	12	12	65	1380	NoAB
195	3	Americium-241	0.006	pCi/g	1	1		1.5	NoA
195	3	Cesium-137	0.27	pCi/g	1	1	0.49	0.0267	NoB
195	3	Neptunium-237	0.016	pCi/g	1	1	0.1	0.0839	NoAB
195	3	Plutonium-238	0.008	pCi/g	1	1	0.073	3.21	NoAB
195	3	Plutonium-239/240	0.0134	pCi/g	1	1	0.025	3.15	NoAB
195	3	Technetium-99	0.25	pCi/g	1	1	2.5	101	NoAB
195	3	Thorium-228	0.81	pCi/g	1	1	1.6		NoB
195	3	Thorium-230	0.81	pCi/g	1	1	1.5	4.1	NoAB
195	3	Thorium-232	0.82	pCi/g	1	1	1.5		NoB
195	3	Uranium-234	0.841	pCi/g	1	1	1.2	5.47	NoAB
195	3	Uranium-235	0.054	pCi/g	1	1	0.06	0.122	NoAB
195	3	Uranium-238	1.01	pCi/g	1	1	1.2	0.517	NoB
195	4	Aluminum	8560	mg/kg	1	1	13000	4410	NoB
195	4	Antimony	0.41	mg/kg	1	1	0.21	0.552	NoA
195	4	Arsenic	10.05	mg/kg	13	5	12	0.238	NoB
195	4	Barium	79.9	mg/kg	1	1	200	140	NoAB
195	4	Beryllium	0.46	mg/kg	1	1	0.67	0.00567	NoB
195	4	Cadmium	0.076	mg/kg	1	1	0.21	0.811	NoAB
195	4	Calcium	2970	mg/kg	1	1	200000		NoB
195	4	Chromium	52.9	mg/kg	13	7	16	15.6	Yes
195	4	Cobalt	4.8	mg/kg	1	1	14	1.37	NoB
195	4	Copper	9.1	mg/kg	13	1	19	184	NoAB
195	4	Iron	12700	mg/kg	13	13	28000	3220	NoB
195	4	Lead	18.19	mg/kg	13	12	36	400	NoAB
195	4	Magnesium	1140	mg/kg	1	1	7700		NoB
195	4	Manganese	266	mg/kg	13	12	1500	419	NoAB
195	4	Mercury	0.0263	mg/kg	13	1	0.2	0.213	NoAB
195	4	Molybdenum	0.45	mg/kg	13	1		23	NoA
195	4	Nickel	62.28	mg/kg	13	2	21	10.4	Yes
195	4	Selenium	1.3	mg/kg	13	1	0.8	23	NoA
195	4	Silver	0.036	mg/kg	13	1	2.3	2.61	NoAB
195	4	Sodium	28.2	mg/kg	1	1	320		NoB
195	4	Total PAH	0.011	mg/kg	1	1		0.0197	NoA
195	4	Uranium	3.14	mg/kg	13	1	4.9	13.8	NoAB
195	4	Vanadium	22.8	mg/kg	1	1	38	0.0365	NoB
195	4	Zinc	112.75	mg/kg	13	13	65	1380	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	4	Americium-241	0.0088	pCi/g	1	1		1.5	NoA
195	4	Cesium-137	0.263	pCi/g	1	1	0.49	0.0267	NoB
195	4	Neptunium-237	-0.002	pCi/g	1	1	0.1	0.0839	NoAB
195	4	Plutonium-238	0.018	pCi/g	1	1	0.073	3.21	NoAB
195	4	Plutonium-239/240	0.019	pCi/g	1	1	0.025	3.15	NoAB
195	4	Technetium-99	0.008	pCi/g	1	1	2.5	101	NoAB
195	4	Thorium-228	0.87	pCi/g	1	1	1.6		NoB
195	4	Thorium-230	0.96	pCi/g	1	1	1.5	4.1	NoAB
195	4	Thorium-232	0.91	pCi/g	1	1	1.5		NoB
195	4	Uranium-234	0.84	pCi/g	1	1	1.2	5.47	NoAB
195	4	Uranium-235	0.02	pCi/g	1	1	0.06	0.122	NoAB
195	4	Uranium-238	1.05	pCi/g	1	1	1.2	0.517	NoB
195	5	Aluminum	8130	mg/kg	1	1	13000	4410	NoB
195	5	Antimony	0.41	mg/kg	2	2	0.21	0.552	NoA
195	5	Arsenic	8.8	mg/kg	12	4	12	0.238	NoB
195	5	Barium	92	mg/kg	1	1	200	140	NoAB
195	5	Beryllium	0.51	mg/kg	1	1	0.67	0.00567	NoB
195	5	Bis(2-ethylhexyl)phthalate	0.13	mg/kg	2	1		12.5	NoA
195	5	Cadmium	0.12	mg/kg	1	1	0.21	0.811	NoAB
195	5	Calcium	4580	mg/kg	1	1	200000		NoB
195	5	Chromium	57.41	mg/kg	12	7	16	15.6	Yes
195	5	Cobalt	6.5	mg/kg	1	1	14	1.37	NoB
195	5	Copper	9.9	mg/kg	12	1	19	184	NoAB
195	5	Fluoranthene	0.059	mg/kg	2	2		109	NoA
195	5	Iron	15600	mg/kg	12	12	28000	3220	NoB
195	5	Lead	17.47	mg/kg	12	9	36	400	NoAB
195	5	Magnesium	1310	mg/kg	1	1	7700		NoB
195	5	Manganese	409	mg/kg	12	12	1500	419	NoAB
195	5	Mercury	0.0153	mg/kg	12	1	0.2	0.213	NoAB
195	5	Molybdenum	0.72	mg/kg	12	1		23	NoA
195	5	Nickel	81.1	mg/kg	12	2	21	10.4	Yes
195	5	Phenanthrene	0.043	mg/kg	2	1			NoC
195	5	Pyrene	0.047	mg/kg	2	2		81.2	NoA
195	5	Selenium	1.3	mg/kg	12	1	0.8	23	NoA
195	5	Silver	0.032	mg/kg	12	1	2.3	2.61	NoAB
195	5	Sodium	21.9	mg/kg	1	1	320		NoB
195	5	Thallium	0.31	mg/kg	1	1	0.21	0.368	NoA
195	5	Total PAH	0.024	mg/kg	2	2		0.0197	Yes
195	5	Uranium	3.05	mg/kg	12	2	4.9	13.8	NoAB
195	5	Vanadium	26.9	mg/kg	1	1	38	0.0365	NoB
195	5	Zinc	48.2	mg/kg	12	12	65	1380	NoAB
195	5	Americium-241	0.012	pCi/g	2	2		1.5	NoA
195	5	Cesium-137	0.341	pCi/g	2	2	0.49	0.0267	NoB
195	5	Neptunium-237	0.005	pCi/g	2	2	0.1	0.0839	NoAB
195	5	Plutonium-238	0.013	pCi/g	2	2	0.073	3.21	NoAB
195	5	Plutonium-239/240	0.02	pCi/g	2	2	0.025	3.15	NoAB
195	5	Technetium-99	-0.13	pCi/g	2	2	2.5	101	NoAB
195	5	Thorium-228	0.88	pCi/g	2	2	1.6		NoB
195	5	Thorium-230	0.93	pCi/g	2	2	1.5	4.1	NoAB
195	5	Thorium-232	0.88	pCi/g	2	2	1.5		NoB
195	5	Uranium-234	0.8	pCi/g	2	2	1.2	5.47	NoAB
195	5	Uranium-235	0.042	pCi/g	2	2	0.06	0.122	NoAB
195	5	Uranium-238	1.02	pCi/g	2	2	1.2	0.517	NoB
195	6	Aluminum	7800	mg/kg	1	1	13000	4410	NoB
195	6	Anthracene	0.052	mg/kg	1	1		747	NoA
195	6	Antimony	0.15	mg/kg	1	1	0.21	0.552	NoAB
195	6	Arsenic	8.94	mg/kg	12	3	12	0.238	NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	6	Barium	80.8	mg/kg	1	1	200	140	NoAB
195	6	Benzo(ghi)perylene	0.11	mg/kg	1	1			NoC
195	6	Beryllium	0.48	mg/kg	1	1	0.67	0.00567	NoB
195	6	Cadmium	0.11	mg/kg	1	1	0.21	0.811	NoAB
195	6	Calcium	4560	mg/kg	1	1	200000		NoB
195	6	Chromium	44.54	mg/kg	12	8	16	15.6	Yes
195	6	Cobalt	6.1	mg/kg	1	1	14	1.37	NoB
195	6	Copper	10	mg/kg	12	1	19	184	NoAB
195	6	Fluoranthene	0.46	mg/kg	1	1		109	NoA
195	6	Iron	14900	mg/kg	12	12	28000	3220	NoB
195	6	Lead	18.23	mg/kg	12	12	36	400	NoAB
195	6	Magnesium	1200	mg/kg	1	1	7700		NoB
195	6	Manganese	305	mg/kg	12	12	1500	419	NoAB
195	6	Mercury	0.0365	mg/kg	12	1	0.2	0.213	NoAB
195	6	Molybdenum	0.52	mg/kg	12	1		23	NoA
195	6	Nickel	98.09	mg/kg	12	2	21	10.4	Yes
195	6	Phenanthrene	0.18	mg/kg	1	1			NoC
195	6	Pyrene	0.35	mg/kg	1	1		81.2	NoA
195	6	Selenium	1.2	mg/kg	12	1	0.8	23	NoA
195	6	Silver	0.033	mg/kg	12	1	2.3	2.61	NoAB
195	6	Sodium	21.5	mg/kg	1	1	320		NoB
195	6	Total PAH	0.2477	mg/kg	1	1		0.0197	Yes
195	6	Uranium	2.81	mg/kg	12	1	4.9	13.8	NoAB
195	6	Vanadium	24	mg/kg	1	1	38	0.0365	NoB
195	6	Zinc	41.17	mg/kg	12	12	65	1380	NoAB
195	6	Americium-241	0.009	pCi/g	1	1		1.5	NoA
195	6	Cesium-137	0.298	pCi/g	1	1	0.49	0.0267	NoB
195	6	Neptunium-237	0.002	pCi/g	1	1	0.1	0.0839	NoAB
195	6	Plutonium-238	0.018	pCi/g	1	1	0.073	3.21	NoAB
195	6	Plutonium-239/240	0.0057	pCi/g	1	1	0.025	3.15	NoAB
195	6	Technetium-99	0.15	pCi/g	1	1	2.5	101	NoAB
195	6	Thorium-228	0.95	pCi/g	1	1	1.6		NoB
195	6	Thorium-230	0.96	pCi/g	1	1	1.5	4.1	NoAB
195	6	Thorium-232	0.94	pCi/g	1	1	1.5		NoB
195	6	Uranium-234	0.746	pCi/g	1	1	1.2	5.47	NoAB
195	6	Uranium-235	0.05	pCi/g	1	1	0.06	0.122	NoAB
195	6	Uranium-238	0.94	pCi/g	1	1	1.2	0.517	NoB
195	7	Aluminum	8900	mg/kg	1	1	13000	4410	NoB
195	7	Antimony	0.24	mg/kg	1	1	0.21	0.552	NoA
195	7	Arsenic	8.09	mg/kg	12	2	12	0.238	NoB
195	7	Barium	112	mg/kg	1	1	200	140	NoAB
195	7	Beryllium	0.52	mg/kg	1	1	0.67	0.00567	NoB
195	7	Cadmium	0.089	mg/kg	1	1	0.21	0.811	NoAB
195	7	Calcium	2780	mg/kg	1	1	200000		NoB
195	7	Chromium	49.26	mg/kg	12	7	16	15.6	Yes
195	7	Cobalt	7.3	mg/kg	1	1	14	1.37	NoB
195	7	Copper	11	mg/kg	12	1	19	184	NoAB
195	7	Iron	15500	mg/kg	12	12	28000	3220	NoB
195	7	Lead	18.22	mg/kg	12	11	36	400	NoAB
195	7	Magnesium	1150	mg/kg	1	1	7700		NoB
195	7	Manganese	688	mg/kg	12	12	1500	419	NoB
195	7	Mercury	0.0277	mg/kg	12	1	0.2	0.213	NoAB
195	7	Molybdenum	0.56	mg/kg	12	1		23	NoA
195	7	Nickel	11.5	mg/kg	12	1	21	10.4	NoB
195	7	Selenium	1.4	mg/kg	12	1	0.8	23	NoA
195	7	Silver	8.06	mg/kg	12	2	2.3	2.61	Yes
195	7	Sodium	25.5	mg/kg	1	1	320		NoB

SWMU = solid waste management unit
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 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	7	Thallium	0.086	mg/kg	1	1	0.21	0.368	NoAB
195	7	Total PAH	0.014	mg/kg	1	1		0.0197	NoA
195	7	Uranium	2.96	mg/kg	12	1	4.9	13.8	NoAB
195	7	Vanadium	26.4	mg/kg	1	1	38	0.0365	NoB
195	7	Zinc	39.16	mg/kg	12	12	65	1380	NoAB
195	7	Americium-241	0.014	pCi/g	1	1		1.5	NoA
195	7	Cesium-137	0.222	pCi/g	1	1	0.49	0.0267	NoB
195	7	Neptunium-237	-0.001	pCi/g	1	1	0.1	0.0839	NoAB
195	7	Plutonium-238	0.0053	pCi/g	1	1	0.073	3.21	NoAB
195	7	Plutonium-239/240	0.0118	pCi/g	1	1	0.025	3.15	NoAB
195	7	Technetium-99	0.06	pCi/g	1	1	2.5	101	NoAB
195	7	Thorium-228	0.89	pCi/g	1	1	1.6		NoB
195	7	Thorium-230	0.85	pCi/g	1	1	1.5	4.1	NoAB
195	7	Thorium-232	0.92	pCi/g	1	1	1.5		NoB
195	7	Uranium-234	0.86	pCi/g	1	1	1.2	5.47	NoAB
195	7	Uranium-235	0.032	pCi/g	1	1	0.06	0.122	NoAB
195	7	Uranium-238	0.99	pCi/g	1	1	1.2	0.517	NoB
195	8	Aluminum	9770	mg/kg	1	1	13000	4410	NoB
195	8	Antimony	0.18	mg/kg	1	1	0.21	0.552	NoAB
195	8	Arsenic	13.8	mg/kg	12	3	12	0.238	Yes
195	8	Barium	153	mg/kg	1	1	200	140	NoB
195	8	Benzo(ghi)perylene	0.084	mg/kg	1	1			NoC
195	8	Beryllium	0.74	mg/kg	1	1	0.67	0.00567	Yes
195	8	Cadmium	0.14	mg/kg	1	1	0.21	0.811	NoAB
195	8	Calcium	3190	mg/kg	1	1	200000		NoB
195	8	Chromium	67.93	mg/kg	12	7	16	15.6	Yes
195	8	Cobalt	18.2	mg/kg	1	1	14	1.37	Yes
195	8	Copper	11.5	mg/kg	12	1	19	184	NoAB
195	8	Fluoranthene	0.4	mg/kg	1	1		109	NoA
195	8	Iron	24100	mg/kg	12	12	28000	3220	NoB
195	8	Lead	20	mg/kg	12	10	36	400	NoAB
195	8	Magnesium	1280	mg/kg	1	1	7700		NoB
195	8	Manganese	1180	mg/kg	12	12	1500	419	NoB
195	8	Mercury	0.0256	mg/kg	12	1	0.2	0.213	NoAB
195	8	Molybdenum	0.96	mg/kg	12	1		23	NoA
195	8	Nickel	81.74	mg/kg	12	2	21	10.4	Yes
195	8	Phenanthrene	0.15	mg/kg	1	1			NoC
195	8	Pyrene	0.33	mg/kg	1	1		81.2	NoA
195	8	Selenium	1.8	mg/kg	12	1	0.8	23	NoA
195	8	Silver	0.033	mg/kg	12	1	2.3	2.61	NoAB
195	8	Sodium	29.4	mg/kg	1	1	320		NoB
195	8	Thallium	0.091	mg/kg	1	1	0.21	0.368	NoAB
195	8	Total PAH	0.21558	mg/kg	1	1		0.0197	Yes
195	8	Uranium	3.13	mg/kg	12	1	4.9	13.8	NoAB
195	8	Vanadium	40.4	mg/kg	1	1	38	0.0365	Yes
195	8	Zinc	49.96	mg/kg	12	12	65	1380	NoAB
195	8	Americium-241	0.012	pCi/g	1	1		1.5	NoA
195	8	Cesium-137	0.37	pCi/g	1	1	0.49	0.0267	NoB
195	8	Neptunium-237	0.016	pCi/g	1	1	0.1	0.0839	NoAB
195	8	Plutonium-238	0.0048	pCi/g	1	1	0.073	3.21	NoAB
195	8	Plutonium-239/240	0.0051	pCi/g	1	1	0.025	3.15	NoAB
195	8	Technetium-99	0.06	pCi/g	1	1	2.5	101	NoAB
195	8	Thorium-228	0.88	pCi/g	1	1	1.6		NoB
195	8	Thorium-230	1.03	pCi/g	1	1	1.5	4.1	NoAB
195	8	Thorium-232	0.92	pCi/g	1	1	1.5		NoB
195	8	Uranium-234	0.79	pCi/g	1	1	1.2	5.47	NoAB
195	8	Uranium-235	0.047	pCi/g	1	1	0.06	0.122	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	8	Uranium-238	1.04	pCi/g	1	1	1.2	0.517	NoB
195	9	Aluminum	4940	mg/kg	1	1	13000	4410	NoB
195	9	Antimony	0.095	mg/kg	1	1	0.21	0.552	NoAB
195	9	Arsenic	10.13	mg/kg	10	3	12	0.238	NoB
195	9	Barium	79.9	mg/kg	1	1	200	140	NoAB
195	9	Beryllium	0.18	mg/kg	1	1	0.67	0.00567	NoB
195	9	Bis(2-ethylhexyl)phthalate	0.2	mg/kg	1	1		12.5	NoA
195	9	Cadmium	0.088	mg/kg	1	1	0.21	0.811	NoAB
195	9	Calcium	3720	mg/kg	1	1	200000		NoB
195	9	Chromium	60.8	mg/kg	10	7	16	15.6	Yes
195	9	Cobalt	4.7	mg/kg	1	1	14	1.37	NoB
195	9	Copper	8.7	mg/kg	10	1	19	184	NoAB
195	9	Iron	13448.67	mg/kg	10	10	28000	3220	NoB
195	9	Lead	18	mg/kg	10	9	36	400	NoAB
195	9	Magnesium	647	mg/kg	1	1	7700		NoB
195	9	Manganese	277.91	mg/kg	10	10	1500	419	NoAB
195	9	Mercury	0.0348	mg/kg	10	1	0.2	0.213	NoAB
195	9	Molybdenum	0.54	mg/kg	10	1		23	NoA
195	9	Nickel	79.27	mg/kg	10	2	21	10.4	Yes
195	9	Selenium	0.27	mg/kg	10	1	0.8	23	NoAB
195	9	Silver	0.045	mg/kg	10	1	2.3	2.61	NoAB
195	9	Sodium	21.3	mg/kg	1	1	320		NoB
195	9	Thallium	0.1	mg/kg	1	1	0.21	0.368	NoAB
195	9	Total PAH	0.0089	mg/kg	1	1		0.0197	NoA
195	9	Uranium	2.44	mg/kg	10	1	4.9	13.8	NoAB
195	9	Vanadium	18.5	mg/kg	1	1	38	0.0365	NoB
195	9	Zinc	38.8	mg/kg	10	10	65	1380	NoAB
195	9	Americium-241	0.0023	pCi/g	1	1		1.5	NoA
195	9	Cesium-137	0.167	pCi/g	1	1	0.49	0.0267	NoB
195	9	Neptunium-237	0.004	pCi/g	1	1	0.1	0.0839	NoAB
195	9	Plutonium-238	0.01	pCi/g	1	1	0.073	3.21	NoAB
195	9	Plutonium-239/240	0.024	pCi/g	1	1	0.025	3.15	NoAB
195	9	Technetium-99	0.35	pCi/g	1	1	2.5	101	NoAB
195	9	Thorium-228	0.82	pCi/g	1	1	1.6		NoB
195	9	Thorium-230	0.92	pCi/g	1	1	1.5	4.1	NoAB
195	9	Thorium-232	0.83	pCi/g	1	1	1.5		NoB
195	9	Uranium-234	0.726	pCi/g	1	1	1.2	5.47	NoAB
195	9	Uranium-235	0.038	pCi/g	1	1	0.06	0.122	NoAB
195	9	Uranium-238	0.81	pCi/g	1	1	1.2	0.517	NoB
195	10	Aluminum	4890	mg/kg	1	1	13000	4410	NoB
195	10	Antimony	0.24	mg/kg	1	1	0.21	0.552	NoA
195	10	Arsenic	9.83	mg/kg	12	6	12	0.238	NoB
195	10	Barium	62.6	mg/kg	1	1	200	140	NoAB
195	10	Beryllium	0.49	mg/kg	1	1	0.67	0.00567	NoB
195	10	Cadmium	0.04	mg/kg	1	1	0.21	0.811	NoAB
195	10	Calcium	7400	mg/kg	1	1	200000		NoB
195	10	Chromium	45.07	mg/kg	12	7	16	15.6	Yes
195	10	Cobalt	3	mg/kg	1	1	14	1.37	NoB
195	10	Copper	29.72	mg/kg	12	3	19	184	NoA
195	10	Iron	15619.06	mg/kg	12	12	28000	3220	NoB
195	10	Lead	34.21	mg/kg	12	10	36	400	NoAB
195	10	Magnesium	755	mg/kg	1	1	7700		NoB
195	10	Manganese	892.32	mg/kg	12	11	1500	419	NoB
195	10	Mercury	0.0248	mg/kg	12	1	0.2	0.213	NoAB
195	10	Molybdenum	0.4	mg/kg	12	1		23	NoA
195	10	Nickel	74.02	mg/kg	12	2	21	10.4	Yes
195	10	Selenium	0.1	mg/kg	12	1	0.8	23	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	10	Silver	13.11	mg/kg	12	2	2.3	2.61	Yes
195	10	Sodium	38.7	mg/kg	1	1	320		NoB
195	10	Thallium	0.36	mg/kg	1	1	0.21	0.368	NoA
195	10	Total PAH	0.0056	mg/kg	1	1		0.0197	NoA
195	10	Uranium	2.87	mg/kg	12	1	4.9	13.8	NoAB
195	10	Vanadium	15	mg/kg	1	1	38	0.0365	NoB
195	10	Zinc	42.22	mg/kg	12	12	65	1380	NoAB
195	10	Americium-241	0.0083	pCi/g	1	1		1.5	NoA
195	10	Cesium-137	0.275	pCi/g	1	1	0.49	0.0267	NoB
195	10	Neptunium-237	0.001	pCi/g	1	1	0.1	0.0839	NoAB
195	10	Plutonium-238	0.017	pCi/g	1	1	0.073	3.21	NoAB
195	10	Plutonium-239/240	0.019	pCi/g	1	1	0.025	3.15	NoAB
195	10	Technetium-99	0.45	pCi/g	1	1	2.5	101	NoAB
195	10	Thorium-228	0.81	pCi/g	1	1	1.6		NoB
195	10	Thorium-230	0.92	pCi/g	1	1	1.5	4.1	NoAB
195	10	Thorium-232	0.9	pCi/g	1	1	1.5		NoB
195	10	Uranium-234	0.81	pCi/g	1	1	1.2	5.47	NoAB
195	10	Uranium-235	0.039	pCi/g	1	1	0.06	0.122	NoAB
195	10	Uranium-238	0.96	pCi/g	1	1	1.2	0.517	NoB
195	11	Aluminum	28100	mg/kg	1	1	13000	4410	Yes
195	11	Antimony	0.1	mg/kg	1	1	0.21	0.552	NoAB
195	11	Arsenic	24.6	mg/kg	12	5	12	0.238	Yes
195	11	Barium	453	mg/kg	1	1	200	140	Yes
195	11	Beryllium	0.11	mg/kg	1	1	0.67	0.00567	NoB
195	11	Cadmium	0.32	mg/kg	1	1	0.21	0.811	NoA
195	11	Calcium	3020	mg/kg	1	1	200000		NoB
195	11	Chromium	50.5	mg/kg	12	7	16	15.6	Yes
195	11	Cobalt	27.7	mg/kg	1	1	14	1.37	Yes
195	11	Copper	44.6	mg/kg	12	1	19	184	NoA
195	11	Iron	46000	mg/kg	12	12	28000	3220	Yes
195	11	Lead	16.75	mg/kg	12	12	36	400	NoAB
195	11	Magnesium	4000	mg/kg	1	1	7700		NoB
195	11	Manganese	1270	mg/kg	12	12	1500	419	NoB
195	11	Mercury	0.03	mg/kg	12	1	0.2	0.213	NoAB
195	11	Molybdenum	2.3	mg/kg	12	1		23	NoA
195	11	Nickel	73.09	mg/kg	12	2	21	10.4	Yes
195	11	Selenium	0.83	mg/kg	12	1	0.8	23	NoA
195	11	Silver	0.24	mg/kg	12	1	2.3	2.61	NoAB
195	11	Sodium	108	mg/kg	1	1	320		NoB
195	11	Thallium	0.66	mg/kg	1	1	0.21	0.368	Yes
195	11	Uranium	8.4	mg/kg	12	1	4.9	13.8	NoA
195	11	Vanadium	79.7	mg/kg	1	1	38	0.0365	Yes
195	11	Zinc	41.8	mg/kg	12	12	65	1380	NoAB
195	11	Americium-241	-0.0009	pCi/g	1	1		1.5	NoA
195	11	Cesium-137	0.325	pCi/g	1	1	0.49	0.0267	NoB
195	11	Neptunium-237	0.0003	pCi/g	1	1	0.1	0.0839	NoAB
195	11	Plutonium-238	0.02	pCi/g	1	1	0.073	3.21	NoAB
195	11	Plutonium-239/240	0.024	pCi/g	1	1	0.025	3.15	NoAB
195	11	Technetium-99	0.37	pCi/g	1	1	2.5	101	NoAB
195	11	Thorium-228	0.86	pCi/g	1	1	1.6		NoB
195	11	Thorium-230	0.94	pCi/g	1	1	1.5	4.1	NoAB
195	11	Thorium-232	0.89	pCi/g	1	1	1.5		NoB
195	11	Uranium-234	0.79	pCi/g	1	1	1.2	5.47	NoAB
195	11	Uranium-235	0.041	pCi/g	1	1	0.06	0.122	NoAB
195	11	Uranium-238	1.08	pCi/g	1	1	1.2	0.517	NoB
195	12	Aluminum	8450	mg/kg	1	1	13000	4410	NoB
195	12	Antimony	0.51	mg/kg	1	1	0.21	0.552	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	12	Arsenic	11.5	mg/kg	15	1	12	0.238	NoB
195	12	Barium	128	mg/kg	1	1	200	140	NoAB
195	12	Beryllium	0.75	mg/kg	1	1	0.67	0.00567	Yes
195	12	Cadmium	0.098	mg/kg	1	1	0.21	0.811	NoAB
195	12	Calcium	3000	mg/kg	1	1	200000		NoB
195	12	Chromium	74.38	mg/kg	15	9	16	15.6	Yes
195	12	Cobalt	9.3	mg/kg	1	1	14	1.37	NoB
195	12	Copper	23.24	mg/kg	15	2	19	184	NoA
195	12	Iron	20800	mg/kg	15	15	28000	3220	NoB
195	12	Lead	41.69	mg/kg	15	15	36	400	NoA
195	12	Magnesium	1280	mg/kg	1	1	7700		NoB
195	12	Manganese	913	mg/kg	15	15	1500	419	NoB
195	12	Mercury	0.0237	mg/kg	15	1	0.2	0.213	NoAB
195	12	Molybdenum	0.86	mg/kg	15	1		23	NoA
195	12	Nickel	68.97	mg/kg	15	3	21	10.4	Yes
195	12	Selenium	1.7	mg/kg	15	1	0.8	23	NoA
195	12	Silver	0.035	mg/kg	15	1	2.3	2.61	NoAB
195	12	Sodium	59.3	mg/kg	1	1	320		NoB
195	12	Thallium	0.12	mg/kg	1	1	0.21	0.368	NoAB
195	12	Total PAH	0.017	mg/kg	1	1		0.0197	NoA
195	12	Uranium	3.4	mg/kg	15	1	4.9	13.8	NoAB
195	12	Vanadium	37.9	mg/kg	1	1	38	0.0365	NoB
195	12	Zinc	57.56	mg/kg	15	15	65	1380	NoAB
195	12	Americium-241	0.006	pCi/g	1	1		1.5	NoA
195	12	Cesium-137	0.216	pCi/g	1	1	0.49	0.0267	NoB
195	12	Neptunium-237	-0.0042	pCi/g	1	1	0.1	0.0839	NoAB
195	12	Plutonium-238	0.004	pCi/g	1	1	0.073	3.21	NoAB
195	12	Plutonium-239/240	0.0136	pCi/g	1	1	0.025	3.15	NoAB
195	12	Technetium-99	-0.04	pCi/g	1	1	2.5	101	NoAB
195	12	Thorium-228	1.09	pCi/g	1	1	1.6		NoB
195	12	Thorium-230	1.06	pCi/g	1	1	1.5	4.1	NoAB
195	12	Thorium-232	0.92	pCi/g	1	1	1.5		NoB
195	12	Uranium-234	0.92	pCi/g	1	1	1.2	5.47	NoAB
195	12	Uranium-235	0.074	pCi/g	1	1	0.06	0.122	NoA
195	12	Uranium-238	1.13	pCi/g	1	1	1.2	0.517	NoB
195	13	Aluminum	8560	mg/kg	1	1	13000	4410	NoB
195	13	Antimony	0.096	mg/kg	1	1	0.21	0.552	NoAB
195	13	Arsenic	8.73	mg/kg	14	5	12	0.238	NoB
195	13	Barium	97.8	mg/kg	1	1	200	140	NoAB
195	13	Beryllium	0.2	mg/kg	1	1	0.67	0.00567	NoB
195	13	Bis(2-ethylhexyl)phthalate	0.11	mg/kg	1	1		12.5	NoA
195	13	Cadmium	0.072	mg/kg	1	1	0.21	0.811	NoAB
195	13	Calcium	6960	mg/kg	1	1	200000		NoB
195	13	Chromium	65.51	mg/kg	14	6	16	15.6	Yes
195	13	Cobalt	6.7	mg/kg	1	1	14	1.37	NoB
195	13	Copper	9	mg/kg	14	1	19	184	NoAB
195	13	Iron	13900	mg/kg	14	14	28000	3220	NoB
195	13	Lead	15.5	mg/kg	14	11	36	400	NoAB
195	13	Magnesium	1290	mg/kg	1	1	7700		NoB
195	13	Manganese	429	mg/kg	14	14	1500	419	NoB
195	13	Mercury	0.0273	mg/kg	14	1	0.2	0.213	NoAB
195	13	Molybdenum	0.62	mg/kg	14	1		23	NoA
195	13	Nickel	73.51	mg/kg	14	2	21	10.4	Yes
195	13	Selenium	0.15	mg/kg	14	1	0.8	23	NoAB
195	13	Silver	0.052	mg/kg	14	1	2.3	2.61	NoAB
195	13	Sodium	42.5	mg/kg	1	1	320		NoB
195	13	Thallium	0.14	mg/kg	1	1	0.21	0.368	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	13	Uranium	2.54	mg/kg	14	1	4.9	13.8	NoAB
195	13	Vanadium	30.4	mg/kg	1	1	38	0.0365	NoB
195	13	Zinc	37.67	mg/kg	14	14	65	1380	NoAB
195	13	Americium-241	0.0071	pCi/g	1	1		1.5	NoA
195	13	Cesium-137	0.197	pCi/g	1	1	0.49	0.0267	NoB
195	13	Neptunium-237	0.012	pCi/g	1	1	0.1	0.0839	NoAB
195	13	Plutonium-238	0.014	pCi/g	1	1	0.073	3.21	NoAB
195	13	Plutonium-239/240	-0.0014	pCi/g	1	1	0.025	3.15	NoAB
195	13	Technetium-99	0.42	pCi/g	1	1	2.5	101	NoAB
195	13	Thorium-228	0.88	pCi/g	1	1	1.6		NoB
195	13	Thorium-230	0.95	pCi/g	1	1	1.5	4.1	NoAB
195	13	Thorium-232	0.83	pCi/g	1	1	1.5		NoB
195	13	Uranium-234	0.711	pCi/g	1	1	1.2	5.47	NoAB
195	13	Uranium-235	0.054	pCi/g	1	1	0.06	0.122	NoAB
195	13	Uranium-238	0.84	pCi/g	1	1	1.2	0.517	NoB
195	14	Aluminum	8360	mg/kg	1	1	13000	4410	NoB
195	14	Antimony	0.099	mg/kg	1	1	0.21	0.552	NoAB
195	14	Arsenic	9.22	mg/kg	14	5	12	0.238	NoB
195	14	Barium	109	mg/kg	1	1	200	140	NoAB
195	14	Beryllium	0.31	mg/kg	1	1	0.67	0.00567	NoB
195	14	Cadmium	0.053	mg/kg	1	1	0.21	0.811	NoAB
195	14	Calcium	2630	mg/kg	1	1	200000		NoB
195	14	Chromium	59.44	mg/kg	14	6	16	15.6	Yes
195	14	Cobalt	7.3	mg/kg	1	1	14	1.37	NoB
195	14	Copper	9.8	mg/kg	14	1	19	184	NoAB
195	14	Iron	16200	mg/kg	14	14	28000	3220	NoB
195	14	Lead	23.39	mg/kg	14	9	36	400	NoAB
195	14	Magnesium	1160	mg/kg	1	1	7700		NoB
195	14	Manganese	581	mg/kg	14	14	1500	419	NoB
195	14	Mercury	0.0324	mg/kg	14	1	0.2	0.213	NoAB
195	14	Molybdenum	0.76	mg/kg	14	1		23	NoA
195	14	Nickel	82.18	mg/kg	14	4	21	10.4	Yes
195	14	Selenium	0.3	mg/kg	14	1	0.8	23	NoAB
195	14	Silver	0.054	mg/kg	14	1	2.3	2.61	NoAB
195	14	Thallium	0.23	mg/kg	1	1	0.21	0.368	NoA
195	14	Uranium	8.56	mg/kg	14	2	4.9	13.8	NoA
195	14	Vanadium	35.5	mg/kg	1	1	38	0.0365	NoB
195	14	Zinc	41.18	mg/kg	14	14	65	1380	NoAB
195	14	Americium-241	0.0126	pCi/g	1	1		1.5	NoA
195	14	Cesium-137	0.249	pCi/g	1	1	0.49	0.0267	NoB
195	14	Neptunium-237	0.01	pCi/g	1	1	0.1	0.0839	NoAB
195	14	Plutonium-238	0.025	pCi/g	1	1	0.073	3.21	NoAB
195	14	Plutonium-239/240	0.025	pCi/g	1	1	0.025	3.15	NoA
195	14	Technetium-99	0.21	pCi/g	1	1	2.5	101	NoAB
195	14	Thorium-228	0.87	pCi/g	1	1	1.6		NoB
195	14	Thorium-230	0.85	pCi/g	1	1	1.5	4.1	NoAB
195	14	Thorium-232	0.9	pCi/g	1	1	1.5		NoB
195	14	Uranium-234	0.677	pCi/g	1	1	1.2	5.47	NoAB
195	14	Uranium-235	0.038	pCi/g	1	1	0.06	0.122	NoAB
195	14	Uranium-238	0.92	pCi/g	1	1	1.2	0.517	NoB
195	15	Aluminum	5050	mg/kg	1	1	13000	4410	NoB
195	15	Antimony	0.26	mg/kg	1	1	0.21	0.552	NoA
195	15	Arsenic	9.15	mg/kg	14	4	12	0.238	NoB
195	15	Barium	80.8	mg/kg	1	1	200	140	NoAB
195	15	Beryllium	0.18	mg/kg	1	1	0.67	0.00567	NoB
195	15	Cadmium	0.064	mg/kg	1	1	0.21	0.811	NoAB
195	15	Calcium	8430	mg/kg	1	1	200000		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	15	Chromium	48.17	mg/kg	14	7	16	15.6	Yes
195	15	Cobalt	3.9	mg/kg	1	1	14	1.37	NoB
195	15	Copper	7.9	mg/kg	14	1	19	184	NoAB
195	15	Iron	13363.39	mg/kg	14	14	28000	3220	NoB
195	15	Lead	17.96	mg/kg	14	13	36	400	NoAB
195	15	Magnesium	1100	mg/kg	1	1	7700		NoB
195	15	Manganese	485.3	mg/kg	14	14	1500	419	NoB
195	15	Mercury	0.0354	mg/kg	14	1	0.2	0.213	NoAB
195	15	Molybdenum	0.34	mg/kg	14	1		23	NoA
195	15	Nickel	6.7	mg/kg	14	1	21	10.4	NoAB
195	15	Selenium	0.27	mg/kg	14	1	0.8	23	NoAB
195	15	Silver	0.041	mg/kg	14	1	2.3	2.61	NoAB
195	15	Sodium	26.4	mg/kg	1	1	320		NoB
195	15	Uranium	2.68	mg/kg	14	1	4.9	13.8	NoAB
195	15	Vanadium	15.7	mg/kg	1	1	38	0.0365	NoB
195	15	Zinc	49.62	mg/kg	14	14	65	1380	NoAB
195	15	Americium-241	0.0063	pCi/g	1	1		1.5	NoA
195	15	Cesium-137	0.358	pCi/g	1	1	0.49	0.0267	NoB
195	15	Neptunium-237	-0.0053	pCi/g	1	1	0.1	0.0839	NoAB
195	15	Plutonium-238	0.0064	pCi/g	1	1	0.073	3.21	NoAB
195	15	Plutonium-239/240	0.018	pCi/g	1	1	0.025	3.15	NoAB
195	15	Technetium-99	-0.04	pCi/g	1	1	2.5	101	NoAB
195	15	Thorium-228	0.84	pCi/g	1	1	1.6		NoB
195	15	Thorium-230	0.94	pCi/g	1	1	1.5	4.1	NoAB
195	15	Thorium-232	0.79	pCi/g	1	1	1.5		NoB
195	15	Uranium-234	0.754	pCi/g	1	1	1.2	5.47	NoAB
195	15	Uranium-235	0.044	pCi/g	1	1	0.06	0.122	NoAB
195	15	Uranium-238	0.89	pCi/g	1	1	1.2	0.517	NoB
195	16	Aluminum	4690	mg/kg	1	1	13000	4410	NoB
195	16	Antimony	0.22	mg/kg	1	1	0.21	0.552	NoA
195	16	Arsenic	7.22	mg/kg	17	2	12	0.238	NoB
195	16	Barium	128	mg/kg	1	1	200	140	NoAB
195	16	Beryllium	0.13	mg/kg	1	1	0.67	0.00567	NoB
195	16	Cadmium	0.072	mg/kg	1	1	0.21	0.811	NoAB
195	16	Calcium	3610	mg/kg	1	1	200000		NoB
195	16	Chromium	44.46	mg/kg	17	4	16	15.6	Yes
195	16	Cobalt	6.3	mg/kg	1	1	14	1.37	NoB
195	16	Copper	8.1	mg/kg	17	1	19	184	NoAB
195	16	Iron	10568.89	mg/kg	17	17	28000	3220	NoB
195	16	Lead	14.64	mg/kg	17	14	36	400	NoAB
195	16	Magnesium	723	mg/kg	1	1	7700		NoB
195	16	Manganese	875	mg/kg	17	17	1500	419	NoB
195	16	Mercury	0.0361	mg/kg	17	1	0.2	0.213	NoAB
195	16	Molybdenum	0.52	mg/kg	17	1		23	NoA
195	16	Nickel	85.7	mg/kg	17	4	21	10.4	Yes
195	16	Selenium	0.19	mg/kg	17	1	0.8	23	NoAB
195	16	Silver	0.044	mg/kg	17	1	2.3	2.61	NoAB
195	16	Sodium	35.6	mg/kg	1	1	320		NoB
195	16	Uranium	2.55	mg/kg	18	2	4.9	13.8	NoAB
195	16	Vanadium	16.3	mg/kg	1	1	38	0.0365	NoB
195	16	Zinc	33.1	mg/kg	17	17	65	1380	NoAB
195	16	Americium-241	0.012	pCi/g	2	2		1.5	NoA
195	16	Cesium-137	0.44	pCi/g	2	2	0.49	0.0267	NoB
195	16	Neptunium-237	0.01	pCi/g	2	2	0.1	0.0839	NoAB
195	16	Plutonium-238	0.0066	pCi/g	2	2	0.073	3.21	NoAB
195	16	Plutonium-239/240	0.025	pCi/g	2	2	0.025	3.15	NoA
195	16	Technetium-99	0.4	pCi/g	2	2	2.5	101	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
195	16	Thorium-228	0.87	pCi/g	2	2	1.6		NoB
195	16	Thorium-230	0.92	pCi/g	2	2	1.5	4.1	NoAB
195	16	Thorium-232	0.93	pCi/g	2	2	1.5		NoB
195	16	Uranium-234	0.79	pCi/g	2	2	1.2	5.47	NoAB
195	16	Uranium-235	0.054	pCi/g	2	2	0.06	0.122	NoAB
195	16	Uranium-238	0.85	pCi/g	2	2	1.2	0.517	NoB
195	17	Aluminum	6290	mg/kg	1	1	13000	4410	NoB
195	17	Antimony	0.38	mg/kg	1	1	0.21	0.552	NoA
195	17	Arsenic	9.36	mg/kg	24	4	12	0.238	NoB
195	17	Barium	84.8	mg/kg	1	1	200	140	NoAB
195	17	Benzo(ghi)perylene	0.13	mg/kg	1	1			NoC
195	17	Beryllium	0.42	mg/kg	1	1	0.67	0.00567	NoB
195	17	Bis(2-ethylhexyl)phthalate	0.087	mg/kg	1	1		12.5	NoA
195	17	Cadmium	0.2	mg/kg	1	1	0.21	0.811	NoAB
195	17	Calcium	2430	mg/kg	1	1	200000		NoB
195	17	Chromium	120.84	mg/kg	24	9	16	15.6	Yes
195	17	Cobalt	7.4	mg/kg	1	1	14	1.37	NoB
195	17	Copper	25.48	mg/kg	24	5	19	184	NoA
195	17	Fluoranthene	0.39	mg/kg	1	1		109	NoA
195	17	Iron	14149.26	mg/kg	24	24	28000	3220	NoB
195	17	Lead	33.5	mg/kg	24	23	36	400	NoAB
195	17	Magnesium	840	mg/kg	1	1	7700		NoB
195	17	Manganese	1417.71	mg/kg	24	24	1500	419	NoB
195	17	Mercury	0.417	mg/kg	24	1	0.2	0.213	Yes
195	17	Molybdenum	0.99	mg/kg	24	1		23	NoA
195	17	Nickel	59.34	mg/kg	24	3	21	10.4	Yes
195	17	PCB, Total	0.74	mg/kg	24	1		0.0648	Yes
195	17	Phenanthrene	0.23	mg/kg	1	1			NoC
195	17	Pyrene	0.33	mg/kg	1	1		81.2	NoA
195	17	Selenium	1.1	mg/kg	24	1	0.8	23	NoA
195	17	Silver	10.14	mg/kg	24	2	2.3	2.61	Yes
195	17	Sodium	23.7	mg/kg	1	1	320		NoB
195	17	Thallium	0.54	mg/kg	1	1	0.21	0.368	Yes
195	17	Total PAH	0.3159	mg/kg	1	1		0.0197	Yes
195	17	Uranium	11.6	mg/kg	24	4	4.9	13.8	NoA
195	17	Vanadium	20.8	mg/kg	1	1	38	0.0365	NoB
195	17	Zinc	143	mg/kg	24	24	65	1380	NoA
195	17	Americium-241	0.04	pCi/g	1	1		1.5	NoA
195	17	Cesium-137	0.122	pCi/g	1	1	0.49	0.0267	NoB
195	17	Neptunium-237	0.04	pCi/g	1	1	0.1	0.0839	NoAB
195	17	Plutonium-238	0.013	pCi/g	1	1	0.073	3.21	NoAB
195	17	Plutonium-239/240	0.166	pCi/g	1	1	0.025	3.15	NoA
195	17	Technetium-99	2.43	pCi/g	1	1	2.5	101	NoAB
195	17	Thorium-228	0.763	pCi/g	1	1	1.6		NoB
195	17	Thorium-230	1.17	pCi/g	1	1	1.5	4.1	NoAB
195	17	Thorium-232	0.785	pCi/g	1	1	1.5		NoB
195	17	Uranium-234	1.7	pCi/g	1	1	1.2	5.47	NoA
195	17	Uranium-235	0.132	pCi/g	1	1	0.06	0.122	Yes
195	17	Uranium-238	2.48	pCi/g	1	1	1.2	0.517	Yes
486	1	Uranium	2.96	mg/kg	1	1	4.9	13.8	NoAB
486	1	Americium-241	0.014	pCi/g	1	1		1.5	NoA
486	1	Cesium-137	1.71	pCi/g	1	1	0.49	0.0267	Yes
486	1	Neptunium-237	0.0045	pCi/g	1	1	0.1	0.0839	NoAB
486	1	Plutonium-238	0.01	pCi/g	1	1	0.073	3.21	NoAB
486	1	Plutonium-239/240	0.033	pCi/g	1	1	0.025	3.15	NoA
486	1	Technetium-99	0.05	pCi/g	1	1	2.5	101	NoAB
486	1	Thorium-228	0.674	pCi/g	1	1	1.6		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
486	1	Thorium-230	0.83	pCi/g	1	1	1.5	4.1	NoAB
486	1	Thorium-232	0.76	pCi/g	1	1	1.5		NoB
486	1	Uranium-234	0.9	pCi/g	1	1	1.2	5.47	NoAB
486	1	Uranium-235	0.082	pCi/g	1	1	0.06	0.122	NoA
486	1	Uranium-238	0.98	pCi/g	1	1	1.2	0.517	NoB
487	1	Uranium	2.05	mg/kg	1	1	4.9	13.8	NoAB
487	1	Americium-241	0.019	pCi/g	1	1		1.5	NoA
487	1	Cesium-137	1.38	pCi/g	1	1	0.49	0.0267	Yes
487	1	Neptunium-237	-0.0049	pCi/g	1	1	0.1	0.0839	NoAB
487	1	Plutonium-238	0.018	pCi/g	1	1	0.073	3.21	NoAB
487	1	Plutonium-239/240	0.042	pCi/g	1	1	0.025	3.15	NoA
487	1	Technetium-99	0.03	pCi/g	1	1	2.5	101	NoAB
487	1	Thorium-228	0.448	pCi/g	1	1	1.6		NoB
487	1	Thorium-230	0.531	pCi/g	1	1	1.5	4.1	NoAB
487	1	Thorium-232	0.379	pCi/g	1	1	1.5		NoB
487	1	Uranium-234	0.508	pCi/g	1	1	1.2	5.47	NoAB
487	1	Uranium-235	0.033	pCi/g	1	1	0.06	0.122	NoAB
487	1	Uranium-238	0.68	pCi/g	1	1	1.2	0.517	NoB
492	1	Aluminum	9920	mg/kg	6	6	13000	4410	NoB
492	1	Arsenic	14.7	mg/kg	6	6	12	0.238	Yes
492	1	Barium	102	mg/kg	6	6	200	140	NoAB
492	1	Beryllium	10.4	mg/kg	6	5	0.67	0.00567	Yes
492	1	Cadmium	3.14	mg/kg	6	5	0.21	0.811	Yes
492	1	Calcium	2110	mg/kg	6	6	200000		NoB
492	1	Chromium	1040	mg/kg	11	6	16	15.6	Yes
492	1	Cobalt	10.7	mg/kg	6	6	14	1.37	NoB
492	1	Copper	84.7	mg/kg	6	6	19	184	NoA
492	1	Iron	16900	mg/kg	6	6	28000	3220	NoB
492	1	Lead	28	mg/kg	11	9	36	400	NoAB
492	1	Magnesium	1250	mg/kg	6	6	7700		NoB
492	1	Manganese	426	mg/kg	6	6	1500	419	NoB
492	1	Mercury	0.02	mg/kg	6	1	0.2	0.213	NoAB
492	1	Nickel	16.7	mg/kg	6	6	21	10.4	NoB
492	1	PCB, Total	44.1	mg/kg	11	3		0.0648	Yes
492	1	Selenium	0.65	mg/kg	3	2	0.8	23	NoAB
492	1	Sodium	297	mg/kg	6	2	320		NoB
492	1	Uranium	1770	mg/kg	10	5	4.9	13.8	Yes
492	1	Vanadium	43.2	mg/kg	6	6	38	0.0365	Yes
492	1	Zinc	662	mg/kg	6	6	65	1380	NoA
492	1	Americium-241	0.739	pCi/g	5	5		1.5	NoA
492	1	Cesium-137	0.346	pCi/g	5	5	0.49	0.0267	NoB
492	1	Cobalt-60	0.00963	pCi/g	3	3		0.00547	Yes
492	1	Neptunium-237	0.209	pCi/g	5	5	0.1	0.0839	Yes
492	1	Plutonium-238	0.0336	pCi/g	5	5	0.073	3.21	NoAB
492	1	Plutonium-239/240	0.0531	pCi/g	5	5	0.025	3.15	NoA
492	1	Technetium-99	14	pCi/g	5	5	2.5	101	NoA
492	1	Thorium-228	0.738	pCi/g	5	5	1.6		NoB
492	1	Thorium-230	0.971	pCi/g	5	5	1.5	4.1	NoAB
492	1	Thorium-232	0.72	pCi/g	5	5	1.5		NoB
492	1	Uranium-234	53.9	pCi/g	5	5	1.2	5.47	Yes
492	1	Uranium-235	5.72	pCi/g	5	5	0.06	0.122	Yes
492	1	Uranium-238	383	pCi/g	5	5	1.2	0.517	Yes
493	1	Aluminum	14400	mg/kg	20	20	13000	4410	Yes
493	1	Arsenic	11.8	mg/kg	20	11	12	0.238	NoB
493	1	Barium	404	mg/kg	20	20	200	140	Yes
493	1	Beryllium	0.991	mg/kg	20	9	0.67	0.00567	Yes
493	1	Calcium	156000	mg/kg	20	20	200000		NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
493	1	Chromium	66.1	mg/kg	20	20	16	15.6	Yes
493	1	Cobalt	37.9	mg/kg	20	19	14	1.37	Yes
493	1	Copper	98.7	mg/kg	20	20	19	184	NoA
493	1	Di-n-butyl phthalate	0.98	mg/kg	10	4		326	NoA
493	1	Iron	24100	mg/kg	20	20	28000	3220	NoB
493	1	Lead	47.9	mg/kg	20	2	36	400	NoA
493	1	Magnesium	8600	mg/kg	20	20	7700		NoE
493	1	Manganese	3550	mg/kg	20	20	1500	419	Yes
493	1	Mercury	0.26	mg/kg	20	1	0.2	0.213	Yes
493	1	Methylene chloride	0.032	mg/kg	13	1		3.65	NoA
493	1	Nickel	213	mg/kg	20	20	21	10.4	Yes
493	1	PCB, Total	0.26	mg/kg	13	2		0.0648	Yes
493	1	Selenium	1.31	mg/kg	20	5	0.8	23	NoA
493	1	Total PAH	0.5	mg/kg	13	13		0.0197	Yes
493	1	Vanadium	40.5	mg/kg	20	20	38	0.0365	Yes
493	1	Zinc	75.9	mg/kg	20	18	65	1380	NoA
493	1	Americium-241	0.0771	pCi/g	13	13		1.5	NoA
493	1	Cesium-137	0.185	pCi/g	13	13	0.49	0.0267	NoB
493	1	Cobalt-60	0.0136	pCi/g	13	13		0.00547	Yes
493	1	Neptunium-237	0.122	pCi/g	13	13	0.1	0.0839	Yes
493	1	Plutonium-238	-0.0161	pCi/g	13	13	0.073	3.21	NoAB
493	1	Plutonium-239/240	0.0431	pCi/g	13	13	0.025	3.15	NoA
493	1	Technetium-99	38.6	pCi/g	10	10	2.5	101	NoA
493	1	Thorium-228	0.419	pCi/g	13	13	1.6		NoB
493	1	Thorium-230	0.442	pCi/g	13	13	1.5	4.1	NoAB
493	1	Thorium-232	0.474	pCi/g	13	13	1.5		NoB
493	1	Uranium-234	2.37	pCi/g	13	13	1.2	5.47	NoA
493	1	Uranium-235	0.165	pCi/g	13	13	0.06	0.122	Yes
493	1	Uranium-238	5.5	pCi/g	13	13	1.2	0.517	Yes
517	1	Aluminum	12000	mg/kg	4	4	13000	4410	NoB
517	1	Arsenic	6.73	mg/kg	4	2	12	0.238	NoB
517	1	Barium	113	mg/kg	4	4	200	140	NoAB
517	1	Beryllium	0.739	mg/kg	4	3	0.67	0.00567	Yes
517	1	Calcium	12200	mg/kg	4	4	200000		NoB
517	1	Chromium	49.1	mg/kg	4	4	16	15.6	Yes
517	1	Cobalt	5.33	mg/kg	4	4	14	1.37	NoB
517	1	Copper	33.7	mg/kg	4	4	19	184	NoA
517	1	Di-n-butyl phthalate	2	mg/kg	4	2		326	NoA
517	1	Fluoranthene	0.67	mg/kg	4	1		109	NoA
517	1	Iron	20800	mg/kg	4	4	28000	3220	NoB
517	1	Lead	32.2	mg/kg	4	1	36	400	NoAB
517	1	Magnesium	1870	mg/kg	4	4	7700		NoB
517	1	Manganese	342	mg/kg	4	4	1500	419	NoB
517	1	Methylene chloride	0.011	mg/kg	4	1		3.65	NoA
517	1	Nickel	172	mg/kg	4	4	21	10.4	Yes
517	1	PCB, Total	0.5	mg/kg	4	1		0.0648	Yes
517	1	Pyrene	0.54	mg/kg	4	1		81.2	NoA
517	1	Vanadium	26.7	mg/kg	4	4	38	0.0365	NoB
517	1	Zinc	1250	mg/kg	4	4	65	1380	NoA
517	1	Americium-241	0.0756	pCi/g	4	4		1.5	NoA
517	1	Cesium-137	0.0788	pCi/g	4	4	0.49	0.0267	NoB
517	1	Cobalt-60	0.00639	pCi/g	4	4		0.00547	Yes
517	1	Neptunium-237	1.07	pCi/g	4	4	0.1	0.0839	Yes
517	1	Plutonium-238	-0.0132	pCi/g	4	4	0.073	3.21	NoAB
517	1	Plutonium-239/240	0.178	pCi/g	4	4	0.025	3.15	NoA
517	1	Technetium-99	83.2	pCi/g	4	4	2.5	101	NoA
517	1	Thorium-228	0.391	pCi/g	4	4	1.6		NoB

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COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
517	1	Thorium-230	0.626	pCi/g	4	4	1.5	4.1	NoAB
517	1	Thorium-232	0.402	pCi/g	4	4	1.5		NoB
517	1	Uranium-234	2.48	pCi/g	4	4	1.2	5.47	NoA
517	1	Uranium-235	0.16	pCi/g	4	4	0.06	0.122	Yes
517	1	Uranium-238	3.89	pCi/g	4	4	1.2	0.517	Yes
541	1	Acenaphthene	2	mg/kg	38	3		117	NoA
541	1	Aluminum	19200	mg/kg	41	41	13000	4410	Yes
541	1	Anthracene	2.6	mg/kg	38	4		747	NoA
541	1	Arsenic	9.98	mg/kg	41	36	12	0.238	NoB
541	1	Barium	230	mg/kg	41	41	200	140	Yes
541	1	Benzo(ghi)perylene	1.8	mg/kg	38	6			NoC
541	1	Beryllium	1.46	mg/kg	41	17	0.67	0.00567	Yes
541	1	Cadmium	2.75	mg/kg	41	18	0.21	0.811	Yes
541	1	Calcium	23800	mg/kg	41	41	200000		NoB
541	1	Carbazole	1	mg/kg	12	2		8.72	NoA
541	1	Chromium	3352.5	mg/kg	259	161	16	15.6	Yes
541	1	Cobalt	12.3	mg/kg	41	41	14	1.37	NoB
541	1	Copper	161	mg/kg	41	40	19	184	NoA
541	1	Dibenzofuran	0.6	mg/kg	11	1		3.26	NoA
541	1	Di-n-butyl phthalate	1.4	mg/kg	10	6		326	NoA
541	1	Fluoranthene	24	mg/kg	36	11		109	NoA
541	1	Fluorene	1.5	mg/kg	38	2		91.5	NoA
541	1	Iron	29600	mg/kg	41	41	28000	3220	Yes
541	1	Lead	94.3	mg/kg	259	236	36	400	NoA
541	1	Magnesium	4420	mg/kg	41	41	7700		NoB
541	1	Manganese	821	mg/kg	41	41	1500	419	NoB
541	1	Mercury	0.23	mg/kg	41	27	0.2	0.213	Yes
541	1	Methylene chloride	0.011	mg/kg	10	1		3.65	NoA
541	1	Naphthalene	1.8	mg/kg	38	1		1.15	Yes
541	1	Nickel	32.8	mg/kg	41	41	21	10.4	Yes
541	1	PCB, Total	94	mg/kg	261	49		0.0648	Yes
541	1	Phenanthrene	19	mg/kg	38	9			NoC
541	1	Pyrene	14	mg/kg	38	9		81.2	NoA
541	1	Selenium	2	mg/kg	41	9	0.8	23	NoA
541	1	Silver	0.33	mg/kg	41	1	2.3	2.61	NoAB
541	1	Sodium	45	mg/kg	39	3	320		NoB
541	1	Total PAH	7.6297	mg/kg	256	33		0.0197	Yes
541	1	Uranium	20200	mg/kg	257	242	4.9	13.8	Yes
541	1	Vanadium	49.7	mg/kg	41	41	38	0.0365	Yes
541	1	Zinc	1090	mg/kg	41	40	65	1380	NoA
541	1	Americium-241	27.3	pCi/g	41	41		1.5	Yes
541	1	Cesium-137	2.33	pCi/g	41	41	0.49	0.0267	Yes
541	1	Cobalt-60	0.0183	pCi/g	12	12		0.00547	Yes
541	1	Neptunium-237	0.181	pCi/g	38	38	0.1	0.0839	Yes
541	1	Plutonium-238	0.017	pCi/g	36	36	0.073	3.21	NoAB
541	1	Plutonium-239/240	0.156	pCi/g	41	41	0.025	3.15	NoA
541	1	Technetium-99	36.5	pCi/g	39	39	2.5	101	NoA
541	1	Thorium-228	1.07	pCi/g	41	41	1.6		NoB
541	1	Thorium-230	1.38	pCi/g	41	41	1.5	4.1	NoAB
541	1	Thorium-232	1.09	pCi/g	41	41	1.5		NoB
541	1	Uranium-234	713	pCi/g	41	41	1.2	5.47	Yes
541	1	Uranium-235	65.1	pCi/g	41	41	0.06	0.122	Yes
541	1	Uranium-238	4540	pCi/g	41	41	1.2	0.517	Yes
561	1	Aluminum	12600	mg/kg	45	45	13000	4410	NoB
561	1	Antimony	3.5	mg/kg	45	44	0.21	0.552	Yes
561	1	Arsenic	33.1	mg/kg	45	44	12	0.238	Yes
561	1	Barium	438	mg/kg	45	45	200	140	Yes

SWMU = solid waste management unit
 EU = exposure unit
 COPC = chemical of potential concern
 NAL = no action limit
 A = <Child Resident NAL B = <Background
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 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
561	1	Benzo(ghi)perylene	0.071	mg/kg	43	1			NoC
561	1	Beryllium	1.5	mg/kg	45	44	0.67	0.00567	Yes
561	1	Bis(2-ethylhexyl)phthalate	0.055	mg/kg	43	1		12.5	NoA
561	1	Boron	2.9	mg/kg	1	1		918	NoA
561	1	Cadmium	0.35	mg/kg	45	44	0.21	0.811	NoA
561	1	Calcium	1640	mg/kg	45	45	200000		NoB
561	1	Chromium	432	mg/kg	277	45	16	15.6	Yes
561	1	Cobalt	30.9	mg/kg	45	45	14	1.37	Yes
561	1	Copper	30.2	mg/kg	45	45	19	184	NoA
561	1	Fluoranthene	0.32	mg/kg	43	7		109	NoA
561	1	Iron	48500	mg/kg	45	45	28000	3220	Yes
561	1	Lead	225.47	mg/kg	277	191	36	400	NoA
561	1	Magnesium	1880	mg/kg	45	45	7700		NoB
561	1	Manganese	5230	mg/kg	45	45	1500	419	Yes
561	1	Mercury	0.0656	mg/kg	45	30	0.2	0.213	NoAB
561	1	Molybdenum	2.4	mg/kg	44	43		23	NoA
561	1	Nickel	20.7	mg/kg	45	45	21	10.4	NoB
561	1	PCB, Total	2.2	mg/kg	277	7		0.0648	Yes
561	1	Phenanthrene	0.17	mg/kg	43	2			NoC
561	1	Pyrene	0.23	mg/kg	43	5		81.2	NoA
561	1	Selenium	0.7	mg/kg	45	36	0.8	23	NoAB
561	1	Silver	0.085	mg/kg	44	43	2.3	2.61	NoAB
561	1	Sodium	42.3	mg/kg	45	43	320		NoB
561	1	Thallium	0.52	mg/kg	45	43	0.21	0.368	Yes
561	1	Total PAH	0.16506	mg/kg	43	2		0.0197	Yes
561	1	Uranium	1370	mg/kg	277	51	4.9	13.8	Yes
561	1	Vanadium	86.9	mg/kg	45	45	38	0.0365	Yes
561	1	Zinc	354	mg/kg	45	45	65	1380	NoA
561	1	Americium-241	0.0299	pCi/g	44	44		1.5	NoA
561	1	Cesium-137	0.38	pCi/g	43	43	0.49	0.0267	NoB
561	1	Cobalt-60	0.297	pCi/g	44	44		0.00547	Yes
561	1	Neptunium-237	0.139	pCi/g	45	45	0.1	0.0839	Yes
561	1	Plutonium-238	0.6296	pCi/g	41	41	0.073	3.21	NoA
561	1	Plutonium-239/240	0.0604	pCi/g	45	45	0.025	3.15	NoA
561	1	Technetium-99	2.12	pCi/g	44	44	2.5	101	NoAB
561	1	Thorium-228	1.12	pCi/g	43	43	1.6		NoB
561	1	Thorium-230	1.14	pCi/g	44	44	1.5	4.1	NoAB
561	1	Thorium-232	1.09	pCi/g	43	43	1.5		NoB
561	1	Uranium-234	37.78	pCi/g	46	46	1.2	5.47	Yes
561	1	Uranium-235	6.788	pCi/g	46	46	0.06	0.122	Yes
561	1	Uranium-238	412.7	pCi/g	46	46	1.2	0.517	Yes
561	2	Acenaphthene	2.7	mg/kg	51	2		117	NoA
561	2	Aluminum	9550	mg/kg	61	61	13000	4410	NoB
561	2	Anthracene	4.9	mg/kg	51	2		747	NoA
561	2	Antimony	22	mg/kg	61	56	0.21	0.552	Yes
561	2	Arsenic	39.6	mg/kg	61	58	12	0.238	Yes
561	2	Barium	137	mg/kg	61	61	200	140	NoAB
561	2	Benzo(ghi)perylene	4.9	mg/kg	51	6			NoC
561	2	Benzoic acid	0.73	mg/kg	51	2		13000	NoA
561	2	Beryllium	1	mg/kg	61	57	0.67	0.00567	Yes
561	2	Bis(2-ethylhexyl)phthalate	0.052	mg/kg	49	2		12.5	NoA
561	2	Boron	7.1	mg/kg	8	4		918	NoA
561	2	Butyl benzyl phthalate	0.059	mg/kg	49	1		91.8	NoA
561	2	Cadmium	1.2	mg/kg	61	53	0.21	0.811	Yes
561	2	Calcium	2310	mg/kg	61	61	200000		NoB
561	2	Carbazole	1.4	mg/kg	2	1		8.72	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
561	2	Chromium	1370	mg/kg	289	64	16	15.6	Yes
561	2	Cobalt	31	mg/kg	61	61	14	1.37	Yes
561	2	Copper	62.5	mg/kg	61	61	19	184	NoA
561	2	Dibenzofuran	1.1	mg/kg	51	2		3.26	NoA
561	2	Diethyl phthalate	0.072	mg/kg	51	1		2610	NoA
561	2	Di-n-butyl phthalate	0.044	mg/kg	51	1		326	NoA
561	2	Fluoranthene	22	mg/kg	53	7		109	NoA
561	2	Fluorene	2.2	mg/kg	51	2		91.5	NoA
561	2	Iron	26000	mg/kg	61	61	28000	3220	NoB
561	2	Lead	53.5	mg/kg	289	145	36	400	NoA
561	2	Magnesium	1290	mg/kg	61	61	7700		NoB
561	2	Manganese	2230	mg/kg	61	61	1500	419	Yes
561	2	Mercury	0.092	mg/kg	61	57	0.2	0.213	NoAB
561	2	Methylene chloride	0.0035	mg/kg	5	1		3.65	NoA
561	2	Molybdenum	1.7	mg/kg	57	50		23	NoA
561	2	Naphthalene	0.55	mg/kg	51	1		1.15	NoA
561	2	Nickel	15.9	mg/kg	61	61	21	10.4	NoB
561	2	PCB, Total	79	mg/kg	290	32		0.0648	Yes
561	2	Phenanthrene	2.4	mg/kg	50	5			NoC
561	2	Pyrene	2.4	mg/kg	51	6		81.2	NoA
561	2	Selenium	1.1	mg/kg	61	44	0.8	23	NoA
561	2	Silver	0.14	mg/kg	57	49	2.3	2.61	NoAB
561	2	Sodium	223	mg/kg	61	54	320		NoB
561	2	Thallium	1.2	mg/kg	61	53	0.21	0.368	Yes
561	2	Total PAH	9.8288	mg/kg	52	6		0.0197	Yes
561	2	Uranium	6410	mg/kg	290	143	4.9	13.8	Yes
561	2	Vanadium	71.6	mg/kg	61	61	38	0.0365	Yes
561	2	Zinc	1130	mg/kg	61	61	65	1380	NoA
561	2	Americium-241	0.186	pCi/g	50	50		1.5	NoA
561	2	Cesium-137	1.01	pCi/g	55	55	0.49	0.0267	Yes
561	2	Cobalt-60	0.0438	pCi/g	50	50		0.00547	Yes
561	2	Neptunium-237	0.19	pCi/g	55	55	0.1	0.0839	Yes
561	2	Plutonium-238	0.5558	pCi/g	54	54	0.073	3.21	NoA
561	2	Plutonium-239/240	0.158	pCi/g	58	58	0.025	3.15	NoA
561	2	Technetium-99	8.38	pCi/g	55	55	2.5	101	NoA
561	2	Thorium-228	0.87	pCi/g	47	47	1.6		NoB
561	2	Thorium-230	2.23	pCi/g	51	51	1.5	4.1	NoA
561	2	Thorium-232	0.96	pCi/g	47	47	1.5		NoB
561	2	Uranium-234	136	pCi/g	63	63	1.2	5.47	Yes
561	2	Uranium-235	19.6	pCi/g	63	63	0.06	0.122	Yes
561	2	Uranium-238	1340	pCi/g	63	63	1.2	0.517	Yes
562	1	Aluminum	7460	mg/kg	3	3	13000	4410	NoB
562	1	Arsenic	3.11	mg/kg	3	3	12	0.238	NoB
562	1	Barium	57.4	mg/kg	3	3	200	140	NoAB
562	1	Calcium	1110	mg/kg	3	3	200000		NoB
562	1	Chromium	13.4	mg/kg	9	3	16	15.6	NoAB
562	1	Cobalt	3.6	mg/kg	3	3	14	1.37	NoB
562	1	Copper	6.43	mg/kg	3	3	19	184	NoAB
562	1	Iron	8420	mg/kg	3	3	28000	3220	NoB
562	1	Lead	17.37	mg/kg	9	8	36	400	NoAB
562	1	Magnesium	650	mg/kg	3	3	7700		NoB
562	1	Manganese	388	mg/kg	3	3	1500	419	NoAB
562	1	Mercury	0.026	mg/kg	3	1	0.2	0.213	NoAB
562	1	Nickel	5.3	mg/kg	3	1	21	10.4	NoAB
562	1	Uranium	87.32	mg/kg	9	7	4.9	13.8	Yes
562	1	Vanadium	16.5	mg/kg	3	3	38	0.0365	NoB
562	1	Zinc	23.3	mg/kg	3	2	65	1380	NoAB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
562	1	Americium-241	-0.000949	pCi/g	3	3		1.5	NoA
562	1	Cesium-137	0.452	pCi/g	3	3	0.49	0.0267	NoB
562	1	Neptunium-237	-0.0186	pCi/g	3	3	0.1	0.0839	NoAB
562	1	Plutonium-238	-0.00418	pCi/g	2	2	0.073	3.21	NoAB
562	1	Plutonium-239/240	0.00535	pCi/g	3	3	0.025	3.15	NoAB
562	1	Technetium-99	0.206	pCi/g	3	3	2.5	101	NoAB
562	1	Thorium-228	0.324	pCi/g	3	3	1.6		NoB
562	1	Thorium-230	0.254	pCi/g	3	3	1.5	4.1	NoAB
562	1	Thorium-232	0.409	pCi/g	3	3	1.5		NoB
562	1	Uranium-234	0.353	pCi/g	3	3	1.2	5.47	NoAB
562	1	Uranium-235	0.0418	pCi/g	3	3	0.06	0.122	NoAB
562	1	Uranium-238	2.73	pCi/g	3	3	1.2	0.517	Yes
562	2	Aluminum	6030	mg/kg	2	2	13000	4410	NoB
562	2	Arsenic	2.71	mg/kg	2	2	12	0.238	NoB
562	2	Barium	67.4	mg/kg	2	2	200	140	NoAB
562	2	Calcium	325	mg/kg	2	2	200000		NoB
562	2	Chromium	15.4	mg/kg	2	2	16	15.6	NoAB
562	2	Cobalt	4.81	mg/kg	2	2	14	1.37	NoB
562	2	Copper	7.56	mg/kg	2	2	19	184	NoAB
562	2	Iron	7250	mg/kg	2	2	28000	3220	NoB
562	2	Lead	25.32	mg/kg	2	2	36	400	NoAB
562	2	Magnesium	691	mg/kg	2	2	7700		NoB
562	2	Manganese	471	mg/kg	2	2	1500	419	NoB
562	2	Mercury	0.02	mg/kg	2	2	0.2	0.213	NoAB
562	2	Nickel	5.72	mg/kg	2	1	21	10.4	NoAB
562	2	PCB, Total	1.58	mg/kg	4	2		0.0648	Yes
562	2	Uranium	9.63	mg/kg	2	1	4.9	13.8	NoA
562	2	Vanadium	11.6	mg/kg	2	2	38	0.0365	NoB
562	2	Zinc	22	mg/kg	2	2	65	1380	NoAB
562	2	Americium-241	1.278	pCi/g	7	7		1.5	NoA
562	2	Cesium-137	0.358	pCi/g	7	7	0.49	0.0267	NoB
562	2	Neptunium-237	0.0063	pCi/g	3	3	0.1	0.0839	NoAB
562	2	Neptunium-237/Protactinium-233	0.004143	pCi/g	3	3	0.1		NoB
562	2	Plutonium-238	0.353996796	pCi/g	6	6	0.073	3.21	NoA
562	2	Plutonium-239/240	0.101642485	pCi/g	6	6	0.025	3.15	NoA
562	2	Protactinium-234m	275.8	pCi/g	3	3		0.988	NoD
562	2	Technetium-99	4.36	pCi/g	7	7	2.5	101	NoA
562	2	Thorium-228	1.06	pCi/g	4	4	1.6	2.31	NoAB
562	2	Thorium-230	1.01	pCi/g	4	4	1.5	4.1	NoAB
562	2	Thorium-232	1.07	pCi/g	4	4	1.5	3.69	NoAB
562	2	Thorium-234	224.6	pCi/g	3	3		0.596	NoD
562	2	Uranium-234	53.4	pCi/g	7	7	1.2	5.47	Yes
562	2	Uranium-235	8.96	pCi/g	7	7	0.06	0.122	Yes
562	2	Uranium-238	581	pCi/g	7	7	1.2	0.517	Yes
562	3	Aluminum	5790	mg/kg	1	1	13000	4410	NoB
562	3	Arsenic	3.87	mg/kg	1	1	12	0.238	NoB
562	3	Barium	55.8	mg/kg	1	1	200	140	NoAB
562	3	Calcium	968	mg/kg	1	1	200000		NoB
562	3	Chromium	38.16	mg/kg	1	1	16	15.6	Yes
562	3	Cobalt	4.9	mg/kg	1	1	14	1.37	NoB
562	3	Copper	7.84	mg/kg	1	1	19	184	NoAB
562	3	Fluoranthene	1.1	mg/kg	1	1		109	NoA
562	3	Iron	9230	mg/kg	1	1	28000	3220	NoB
562	3	Lead	12.73	mg/kg	1	1	36	400	NoAB
562	3	Magnesium	614	mg/kg	1	1	7700		NoB
562	3	Manganese	221	mg/kg	1	1	1500	419	NoAB

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
NAL = no action limit
A = <Child Resident NAL B = <Background
C = no NAL available D = Rad daughter
E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
562	3	Nickel	4.99	mg/kg	1	1	21	10.4	NoAB
562	3	PCB, Total	0.24	mg/kg	1	1		0.0648	Yes
562	3	Phenanthrene	0.57	mg/kg	1	1			NoC
562	3	Pyrene	1.1	mg/kg	1	1		81.2	NoA
562	3	Total PAH	0.22	mg/kg	1	1		0.0197	Yes
562	3	Uranium	58.9	mg/kg	1	1	4.9	13.8	Yes
562	3	Vanadium	13.3	mg/kg	1	1	38	0.0365	NoB
562	3	Zinc	30.8	mg/kg	1	1	65	1380	NoAB
562	3	Americium-241	-0.00559	pCi/g	1	1		1.5	NoA
562	3	Cesium-137	0.0405	pCi/g	1	1	0.49	0.0267	NoB
562	3	Neptunium-237	-0.0203	pCi/g	1	1	0.1	0.0839	NoAB
562	3	Plutonium-238	-0.00614	pCi/g	1	1	0.073	3.21	NoAB
562	3	Plutonium-239/240	-0.00377	pCi/g	1	1	0.025	3.15	NoAB
562	3	Technetium-99	-0.54	pCi/g	1	1	2.5	101	NoAB
562	3	Thorium-228	0.377	pCi/g	1	1	1.6		NoB
562	3	Thorium-230	0.242	pCi/g	1	1	1.5	4.1	NoAB
562	3	Thorium-232	0.337	pCi/g	1	1	1.5		NoB
562	3	Uranium-234	1.13	pCi/g	1	1	1.2	5.47	NoAB
562	3	Uranium-235	0.163	pCi/g	1	1	0.06	0.122	Yes
562	3	Uranium-238	10.9	pCi/g	1	1	1.2	0.517	Yes
562	4	Aluminum	6610	mg/kg	2	2	13000	4410	NoB
562	4	Arsenic	2.92	mg/kg	2	2	12	0.238	NoB
562	4	Barium	69	mg/kg	2	2	200	140	NoAB
562	4	Calcium	307	mg/kg	2	2	200000		NoB
562	4	Chromium	46.66	mg/kg	4	2	16	15.6	Yes
562	4	Cobalt	3.51	mg/kg	2	2	14	1.37	NoB
562	4	Copper	6.56	mg/kg	2	2	19	184	NoAB
562	4	Iron	6980	mg/kg	2	2	28000	3220	NoB
562	4	Lead	19.04	mg/kg	4	4	36	400	NoAB
562	4	Magnesium	666	mg/kg	2	2	7700		NoB
562	4	Manganese	450	mg/kg	2	2	1500	419	NoB
562	4	Mercury	0.031	mg/kg	2	2	0.2	0.213	NoAB
562	4	Nickel	6.46	mg/kg	2	2	21	10.4	NoAB
562	4	Uranium	20.99	mg/kg	4	3	4.9	13.8	Yes
562	4	Vanadium	12.9	mg/kg	2	2	38	0.0365	NoB
562	4	Zinc	25.9	mg/kg	2	2	65	1380	NoAB
562	4	Americium-241	-0.000528	pCi/g	2	2		1.5	NoA
562	4	Cesium-137	0.485	pCi/g	2	2	0.49	0.0267	NoB
562	4	Neptunium-237	-0.0261	pCi/g	1	1	0.1	0.0839	NoAB
562	4	Plutonium-238	-0.00535	pCi/g	2	2	0.073	3.21	NoAB
562	4	Plutonium-239/240	0.0095	pCi/g	2	2	0.025	3.15	NoAB
562	4	Technetium-99	0.669	pCi/g	2	2	2.5	101	NoAB
562	4	Thorium-228	0.339	pCi/g	2	2	1.6		NoB
562	4	Thorium-230	0.403	pCi/g	2	2	1.5	4.1	NoAB
562	4	Thorium-232	0.385	pCi/g	2	2	1.5		NoB
562	4	Uranium-234	0.309	pCi/g	2	2	1.2	5.47	NoAB
562	4	Uranium-235	0.0534	pCi/g	2	2	0.06	0.122	NoAB
562	4	Uranium-238	2.24	pCi/g	2	2	1.2	0.517	Yes
562	5	Aluminum	7610	mg/kg	2	2	13000	4410	NoB
562	5	Arsenic	5.77	mg/kg	2	2	12	0.238	NoB
562	5	Barium	76.8	mg/kg	2	2	200	140	NoAB
562	5	Cadmium	0.487	mg/kg	2	1	0.21	0.811	NoA
562	5	Calcium	1230	mg/kg	2	2	200000		NoB
562	5	Chromium	153.11	mg/kg	8	6	16	15.6	Yes
562	5	Cobalt	6.48	mg/kg	2	2	14	1.37	NoB
562	5	Copper	14.3	mg/kg	2	2	19	184	NoAB
562	5	Fluoranthene	1.5	mg/kg	2	1		109	NoA

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

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A = <Child Resident NAL B = <Background

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
562	5	Iron	10200	mg/kg	2	2	28000	3220	NoB
562	5	Lead	13.01	mg/kg	8	6	36	400	NoAB
562	5	Magnesium	812	mg/kg	2	2	7700		NoB
562	5	Manganese	383	mg/kg	2	2	1500	419	NoAB
562	5	Mercury	0.024	mg/kg	2	2	0.2	0.213	NoAB
562	5	Nickel	7.01	mg/kg	2	2	21	10.4	NoAB
562	5	PCB, Total	0.95	mg/kg	8	2		0.0648	Yes
562	5	Phenanthrene	1.1	mg/kg	2	1			NoC
562	5	Pyrene	0.98	mg/kg	2	1		81.2	NoA
562	5	Total PAH	0.0705	mg/kg	8	1		0.0197	Yes
562	5	Uranium	208	mg/kg	9	7	4.9	13.8	Yes
562	5	Vanadium	17.9	mg/kg	2	2	38	0.0365	NoB
562	5	Zinc	83.6	mg/kg	2	2	65	1380	NoA
562	5	Americium-241	0.016	pCi/g	3	3		1.5	NoA
562	5	Cesium-137	0.38	pCi/g	3	3	0.49	0.0267	NoB
562	5	Neptunium-237	0.004	pCi/g	3	3	0.1	0.0839	NoAB
562	5	Plutonium-238	0.014	pCi/g	3	3	0.073	3.21	NoAB
562	5	Plutonium-239/240	0.012	pCi/g	3	3	0.025	3.15	NoAB
562	5	Technetium-99	0.88	pCi/g	3	3	2.5	101	NoAB
562	5	Thorium-228	0.97	pCi/g	3	3	1.6		NoB
562	5	Thorium-230	0.95	pCi/g	3	3	1.5	4.1	NoAB
562	5	Thorium-232	0.97	pCi/g	3	3	1.5		NoB
562	5	Uranium-234	8.57	pCi/g	3	3	1.2	5.47	Yes
562	5	Uranium-235	0.95	pCi/g	3	3	0.06	0.122	Yes
562	5	Uranium-238	62.4	pCi/g	3	3	1.2	0.517	Yes
562	6	Americium-241	1.173	pCi/g	3	3		1.5	NoA
562	6	Cesium-137	0.2694	pCi/g	3	3	0.49	0.0267	NoB
562	6	Neptunium-237/Protactiniu	0.04538	pCi/g	3	3	0.1		NoB
562	6	Plutonium-238	0.372575442	pCi/g	3	3	0.073	3.21	NoA
562	6	Plutonium-239/240	-0.13814568	pCi/g	2	2	0.025	3.15	NoAB
562	6	Protactinium-234m	366	pCi/g	3	3		0.988	NoD
562	6	Technetium-99	1.718635335	pCi/g	3	3	2.5	101	NoAB
562	6	Thorium-234	269.4	pCi/g	3	3		0.596	NoD
562	6	Uranium-234	40.10303746	pCi/g	3	3	1.2	5.47	Yes
562	6	Uranium-235	6.809907518	pCi/g	3	3	0.06	0.122	Yes
562	6	Uranium-238	361.6422182	pCi/g	3	3	1.2	0.517	Yes
563	1	Aluminum	9500	mg/kg	2	2	13000	4410	NoB
563	1	Arsenic	7.4	mg/kg	2	2	12	0.238	NoB
563	1	Barium	95.6	mg/kg	2	2	200	140	NoAB
563	1	Cadmium	0.896	mg/kg	2	2	0.21	0.811	Yes
563	1	Calcium	2590	mg/kg	2	2	200000		NoB
563	1	Chromium	285	mg/kg	4	3	16	15.6	Yes
563	1	Cobalt	8.91	mg/kg	2	2	14	1.37	NoB
563	1	Copper	15.8	mg/kg	2	2	19	184	NoAB
563	1	Iron	13500	mg/kg	2	2	28000	3220	NoB
563	1	Lead	21.17	mg/kg	4	4	36	400	NoAB
563	1	Magnesium	1040	mg/kg	2	2	7700		NoB
563	1	Manganese	528	mg/kg	2	2	1500	419	NoB
563	1	Mercury	0.031	mg/kg	2	2	0.2	0.213	NoAB
563	1	Nickel	8.85	mg/kg	2	2	21	10.4	NoAB
563	1	PCB, Total	0.74	mg/kg	4	2		0.0648	Yes
563	1	Uranium	15.09	mg/kg	5	4	4.9	13.8	Yes
563	1	Vanadium	25.3	mg/kg	2	2	38	0.0365	NoB
563	1	Zinc	198	mg/kg	2	2	65	1380	NoA
563	1	Americium-241	0.003	pCi/g	3	3		1.5	NoA
563	1	Cesium-137	0.203	pCi/g	3	3	0.49	0.0267	NoB
563	1	Neptunium-237	0.0594	pCi/g	3	3	0.1	0.0839	NoAB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
563	1	Plutonium-238	0.003	pCi/g	2	2	0.073	3.21	NoAB
563	1	Plutonium-239/240	0.0111	pCi/g	3	3	0.025	3.15	NoAB
563	1	Technetium-99	0.941	pCi/g	3	3	2.5	101	NoAB
563	1	Thorium-228	0.98	pCi/g	3	3	1.6		NoB
563	1	Thorium-230	0.9	pCi/g	3	3	1.5	4.1	NoAB
563	1	Thorium-232	0.82	pCi/g	3	3	1.5		NoB
563	1	Uranium-234	0.877	pCi/g	3	3	1.2	5.47	NoAB
563	1	Uranium-235	0.076	pCi/g	3	3	0.06	0.122	NoA
563	1	Uranium-238	2.76	pCi/g	3	3	1.2	0.517	Yes
563	2	Aluminum	8420	mg/kg	1	1	13000	4410	NoB
563	2	Arsenic	5.1	mg/kg	1	1	12	0.238	NoB
563	2	Barium	87	mg/kg	1	1	200	140	NoAB
563	2	Calcium	3680	mg/kg	1	1	200000		NoB
563	2	Chromium	12	mg/kg	2	1	16	15.6	NoAB
563	2	Cobalt	8.2	mg/kg	1	1	14	1.37	NoB
563	2	Copper	10.6	mg/kg	1	1	19	184	NoAB
563	2	Iron	12500	mg/kg	1	1	28000	3220	NoB
563	2	Lead	11.8	mg/kg	2	2	36	400	NoAB
563	2	Magnesium	1280	mg/kg	1	1	7700		NoB
563	2	Manganese	518	mg/kg	1	1	1500	419	NoB
563	2	Mercury	0.019	mg/kg	1	1	0.2	0.213	NoAB
563	2	Nickel	9.05	mg/kg	1	1	21	10.4	NoAB
563	2	Uranium	1.1	mg/kg	2	1	4.9	13.8	NoAB
563	2	Vanadium	16.6	mg/kg	1	1	38	0.0365	NoB
563	2	Zinc	31.5	mg/kg	1	1	65	1380	NoAB
563	2	Americium-241	-0.000561	pCi/g	2	2		1.5	NoA
563	2	Cesium-137	0.647	pCi/g	2	2	0.49	0.0267	Yes
563	2	Neptunium-237	-0.00618	pCi/g	2	2	0.1	0.0839	NoAB
563	2	Plutonium-238	-0.000821	pCi/g	2	2	0.073	3.21	NoAB
563	2	Plutonium-239/240	0.0102	pCi/g	2	2	0.025	3.15	NoAB
563	2	Technetium-99	2.94	pCi/g	2	2	2.5	101	NoA
563	2	Thorium-228	0.903	pCi/g	2	2	1.6		NoB
563	2	Thorium-230	1.06	pCi/g	2	2	1.5	4.1	NoAB
563	2	Thorium-232	0.785	pCi/g	2	2	1.5		NoB
563	2	Uranium-234	0.574	pCi/g	2	2	1.2	5.47	NoAB
563	2	Uranium-235	0.054	pCi/g	2	2	0.06	0.122	NoAB
563	2	Uranium-238	1.49	pCi/g	2	2	1.2	0.517	Yes
564	1	Aluminum	12700	mg/kg	3	3	13000	4410	NoB
564	1	Arsenic	43	mg/kg	3	3	12	0.238	Yes
564	1	Barium	115	mg/kg	3	3	200	140	NoAB
564	1	Beryllium	2.12	mg/kg	3	3	0.67	0.00567	Yes
564	1	Cadmium	1.96	mg/kg	3	3	0.21	0.811	Yes
564	1	Calcium	1950	mg/kg	3	3	200000		NoB
564	1	Chromium	74.92	mg/kg	6	6	16	15.6	Yes
564	1	Cobalt	6.6	mg/kg	3	3	14	1.37	NoB
564	1	Copper	46.3	mg/kg	3	3	19	184	NoA
564	1	Iron	36600	mg/kg	3	3	28000	3220	Yes
564	1	Lead	40.9	mg/kg	6	6	36	400	NoA
564	1	Magnesium	912	mg/kg	3	3	7700		NoB
564	1	Manganese	487	mg/kg	3	3	1500	419	NoB
564	1	Mercury	0.23	mg/kg	3	3	0.2	0.213	Yes
564	1	Molybdenum	7.84	mg/kg	2	2		23	NoA
564	1	Nickel	22.4	mg/kg	3	3	21	10.4	Yes
564	1	PCB, Total	1.93	mg/kg	7	4		0.0648	Yes
564	1	Selenium	2.82	mg/kg	3	3	0.8	23	NoA
564	1	Silver	0.2	mg/kg	3	1	2.3	2.61	NoAB
564	1	Sodium	95.7	mg/kg	3	1	320		NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
564	1	Thallium	2.36	mg/kg	3	2	0.21	0.368	Yes
564	1	Uranium	58.3	mg/kg	6	6	4.9	13.8	Yes
564	1	Vanadium	80.6	mg/kg	3	3	38	0.0365	Yes
564	1	Zinc	106	mg/kg	3	3	65	1380	NoA
564	1	Americium-241	0.02	pCi/g	3	3		1.5	NoA
564	1	Cesium-137	0.62	pCi/g	3	3	0.49	0.0267	Yes
564	1	Neptunium-237	0.021	pCi/g	3	3	0.1	0.0839	NoAB
564	1	Plutonium-238	0.015	pCi/g	2	2	0.073	3.21	NoAB
564	1	Plutonium-239/240	0.068	pCi/g	3	3	0.025	3.15	NoA
564	1	Technetium-99	9.21	pCi/g	3	3	2.5	101	NoA
564	1	Thorium-228	1.05	pCi/g	3	3	1.6		NoB
564	1	Thorium-230	5.01	pCi/g	3	3	1.5	4.1	Yes
564	1	Thorium-232	1.24	pCi/g	3	3	1.5		NoB
564	1	Uranium-234	6.93	pCi/g	3	3	1.2	5.47	Yes
564	1	Uranium-235	0.387	pCi/g	3	3	0.06	0.122	Yes
564	1	Uranium-238	8.33	pCi/g	3	3	1.2	0.517	Yes
565	1	Uranium	3.31	mg/kg	1	1	4.9	13.8	NoAB
565	1	Americium-241	0.02	pCi/g	1	1		1.5	NoA
565	1	Cesium-137	0.4	pCi/g	1	1	0.49	0.0267	NoB
565	1	Neptunium-237	-0.0022	pCi/g	1	1	0.1	0.0839	NoAB
565	1	Plutonium-238	0.017	pCi/g	1	1	0.073	3.21	NoAB
565	1	Plutonium-239/240	0.014	pCi/g	1	1	0.025	3.15	NoAB
565	1	Technetium-99	0.36	pCi/g	1	1	2.5	101	NoAB
565	1	Thorium-228	0.77	pCi/g	1	1	1.6		NoB
565	1	Thorium-230	0.88	pCi/g	1	1	1.5	4.1	NoAB
565	1	Thorium-232	0.74	pCi/g	1	1	1.5		NoB
565	1	Uranium-234	0.93	pCi/g	1	1	1.2	5.47	NoAB
565	1	Uranium-235	0.047	pCi/g	1	1	0.06	0.122	NoAB
565	1	Uranium-238	1.11	pCi/g	1	1	1.2	0.517	NoB
567	1	Aluminum	8350	mg/kg	3	3	13000	4410	NoB
567	1	Arsenic	4.89	mg/kg	3	2	12	0.238	NoB
567	1	Barium	120	mg/kg	3	3	200	140	NoAB
567	1	Beryllium	0.455	mg/kg	3	1	0.67	0.00567	NoB
567	1	Calcium	26200	mg/kg	3	3	200000		NoB
567	1	Chromium	12.7	mg/kg	3	3	16	15.6	NoAB
567	1	Cobalt	7.43	mg/kg	3	3	14	1.37	NoB
567	1	Iron	18000	mg/kg	3	3	28000	3220	NoB
567	1	Lead	12.1	mg/kg	3	3	36	400	NoAB
567	1	Magnesium	1310	mg/kg	3	3	7700		NoB
567	1	Manganese	1320	mg/kg	3	3	1500	419	NoB
567	1	Mercury	0.019	mg/kg	3	3	0.2	0.213	NoAB
567	1	Nickel	7.22	mg/kg	3	3	21	10.4	NoAB
567	1	Vanadium	18.7	mg/kg	3	3	38	0.0365	NoB
567	1	Zinc	25.7	mg/kg	3	3	65	1380	NoAB
567	1	Americium-241	-0.00121	pCi/g	3	3		1.5	NoA
567	1	Cesium-137	-0.00937	pCi/g	3	3	0.49	0.0267	NoAB
567	1	Neptunium-237	-0.00647	pCi/g	3	3	0.1	0.0839	NoAB
567	1	Plutonium-238	-0.00354	pCi/g	3	3	0.073	3.21	NoAB
567	1	Plutonium-239/240	0.000774	pCi/g	2	2	0.025	3.15	NoAB
567	1	Technetium-99	0.546	pCi/g	3	3	2.5	101	NoAB
567	1	Thorium-228	0.423	pCi/g	3	3	1.6		NoB
567	1	Thorium-230	0.323	pCi/g	3	3	1.5	4.1	NoAB
567	1	Thorium-232	0.409	pCi/g	3	3	1.5		NoB
567	1	Uranium-234	0.117	pCi/g	3	3	1.2	5.47	NoAB
567	1	Uranium-238	0.195	pCi/g	3	3	1.2	0.517	NoAB
567	2	PCB, Total	0.046	mg/kg	1	1		0.0648	NoA
567	3	Aluminum	8990	mg/kg	1	1	13000	4410	NoB

SWMU = solid waste management unit
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 NAL = no action limit
 A = <Child Resident NAL B = <Background
 C = no NAL available D = Rad daughter
 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
567	3	Arsenic	6.35	mg/kg	1	1	12	0.238	NoB
567	3	Barium	96.2	mg/kg	1	1	200	140	NoAB
567	3	Beryllium	0.481	mg/kg	1	1	0.67	0.00567	NoB
567	3	Calcium	1180	mg/kg	1	1	200000		NoB
567	3	Chromium	37.9	mg/kg	1	1	16	15.6	Yes
567	3	Cobalt	6.61	mg/kg	1	1	14	1.37	NoB
567	3	Iron	12900	mg/kg	1	1	28000	3220	NoB
567	3	Lead	14.2	mg/kg	1	1	36	400	NoAB
567	3	Magnesium	1220	mg/kg	1	1	7700		NoB
567	3	Manganese	392	mg/kg	1	1	1500	419	NoAB
567	3	Mercury	0.021	mg/kg	1	1	0.2	0.213	NoAB
567	3	Nickel	9.26	mg/kg	1	1	21	10.4	NoAB
567	3	Vanadium	20.6	mg/kg	1	1	38	0.0365	NoB
567	3	Zinc	36.2	mg/kg	1	1	65	1380	NoAB
567	3	Americium-241	-0.00573	pCi/g	1	1		1.5	NoA
567	3	Cesium-137	0.214	pCi/g	1	1	0.49	0.0267	NoB
567	3	Neptunium-237	0.00271	pCi/g	1	1	0.1	0.0839	NoAB
567	3	Plutonium-238	-0.00356	pCi/g	1	1	0.073	3.21	NoAB
567	3	Plutonium-239/240	0.00611	pCi/g	1	1	0.025	3.15	NoAB
567	3	Technetium-99	0.745	pCi/g	1	1	2.5	101	NoAB
567	3	Thorium-228	0.421	pCi/g	1	1	1.6		NoB
567	3	Thorium-230	0.325	pCi/g	1	1	1.5	4.1	NoAB
567	3	Thorium-232	0.417	pCi/g	1	1	1.5		NoB
567	3	Uranium-234	0.257	pCi/g	1	1	1.2	5.47	NoAB
567	3	Uranium-238	0.989	pCi/g	1	1	1.2	0.517	NoB
567	4	Aluminum	13400	mg/kg	2	2	13000	4410	Yes
567	4	Arsenic	6.02	mg/kg	2	2	12	0.238	NoB
567	4	Barium	103	mg/kg	2	2	200	140	NoAB
567	4	Calcium	503	mg/kg	2	2	200000		NoB
567	4	Chromium	17.7	mg/kg	2	2	16	15.6	Yes
567	4	Cobalt	6.09	mg/kg	2	2	14	1.37	NoB
567	4	Iron	12000	mg/kg	2	2	28000	3220	NoB
567	4	Lead	13.3	mg/kg	2	2	36	400	NoAB
567	4	Magnesium	1150	mg/kg	2	2	7700		NoB
567	4	Manganese	579	mg/kg	2	2	1500	419	NoB
567	4	Mercury	0.03	mg/kg	2	2	0.2	0.213	NoAB
567	4	Nickel	6.66	mg/kg	2	2	21	10.4	NoAB
567	4	Uranium	4.71	mg/kg	3	1	4.9	13.8	NoAB
567	4	Vanadium	28.9	mg/kg	2	2	38	0.0365	NoB
567	4	Zinc	27.8	mg/kg	2	2	65	1380	NoAB
567	4	Americium-241	0.007	pCi/g	3	3		1.5	NoA
567	4	Cesium-137	0.151	pCi/g	3	3	0.49	0.0267	NoB
567	4	Neptunium-237	-0.0031	pCi/g	3	3	0.1	0.0839	NoAB
567	4	Plutonium-238	0.015	pCi/g	3	3	0.073	3.21	NoAB
567	4	Plutonium-239/240	0.0056	pCi/g	3	3	0.025	3.15	NoAB
567	4	Technetium-99	0.571	pCi/g	3	3	2.5	101	NoAB
567	4	Thorium-228	0.88	pCi/g	3	3	1.6		NoB
567	4	Thorium-230	1	pCi/g	3	3	1.5	4.1	NoAB
567	4	Thorium-232	0.95	pCi/g	3	3	1.5		NoB
567	4	Uranium-234	0.81	pCi/g	3	3	1.2	5.47	NoAB
567	4	Uranium-235	0.067	pCi/g	1	1	0.06	0.122	NoA
567	4	Uranium-238	1.57	pCi/g	3	3	1.2	0.517	Yes
14	1	Aluminum	4700	mg/kg	1	1	13000	4410	NoB
14	1	Arsenic	12.07	mg/kg	12	5	12	0.238	Yes
14	1	Barium	26.9	mg/kg	1	1	200	140	NoAB
14	1	Beryllium	0.35	mg/kg	1	1	0.67	0.00567	NoB
14	1	Cadmium	0.023	mg/kg	1	1	0.21	0.811	NoAB

SWMU = solid waste management unit

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COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	1	Calcium	4980	mg/kg	1	1	200000		NoB
14	1	Chromium	63.58	mg/kg	12	6	16	15.6	Yes
14	1	Cobalt	10.9	mg/kg	1	1	14	1.37	NoB
14	1	Copper	95.55	mg/kg	12	5	19	184	NoA
14	1	Iron	29680.63	mg/kg	12	12	28000	3220	Yes
14	1	Lead	37.89	mg/kg	12	11	36	400	NoA
14	1	Magnesium	710	mg/kg	1	1	7700		NoB
14	1	Manganese	1080.04	mg/kg	12	12	1500	419	NoB
14	1	Mercury	0.0183	mg/kg	12	1	0.2	0.213	NoAB
14	1	Molybdenum	0.44	mg/kg	12	1		23	NoA
14	1	Nickel	303.96	mg/kg	12	8	21	10.4	Yes
14	1	PCB, Total	0.5	mg/kg	13	1		0.0648	Yes
14	1	Selenium	0.54	mg/kg	12	1	0.8	23	NoAB
14	1	Silver	16.69	mg/kg	12	2	2.3	2.61	Yes
14	1	Sodium	61.8	mg/kg	1	1	320		NoB
14	1	Thallium	0.066	mg/kg	1	1	0.21	0.368	NoAB
14	1	Uranium	174.93	mg/kg	12	8	4.9	13.8	Yes
14	1	Vanadium	20.6	mg/kg	1	1	38	0.0365	NoB
14	1	Zinc	187.29	mg/kg	12	12	65	1380	NoA
14	1	Americium-241	1.65	pCi/g	2	2		1.5	Yes
14	1	Cesium-137	0.097	pCi/g	2	2	0.49	0.0267	NoB
14	1	Neptunium-237	0.273	pCi/g	2	2	0.1	0.0839	Yes
14	1	Plutonium-238	0.0078	pCi/g	1	1	0.073	3.21	NoAB
14	1	Plutonium-239/240	0.283	pCi/g	2	2	0.025	3.15	NoA
14	1	Technetium-99	406	pCi/g	2	2	2.5	101	Yes
14	1	Thorium-228	0.377	pCi/g	1	1	1.6		NoB
14	1	Thorium-230	3.17	pCi/g	2	2	1.5	4.1	NoA
14	1	Thorium-232	0.356	pCi/g	1	1	1.5		NoB
14	1	Uranium-234	1.01	pCi/g	1	1	1.2	5.47	NoAB
14	1	Uranium-235	0.061	pCi/g	1	1	0.06	0.122	NoA
14	1	Uranium-238	1.69	pCi/g	1	1	1.2	0.517	Yes
14	2	Acenaphthene	0.039	mg/kg	1	1		117	NoA
14	2	Aluminum	5190	mg/kg	1	1	13000	4410	NoB
14	2	Anthracene	0.078	mg/kg	1	1		747	NoA
14	2	Antimony	3.7	mg/kg	1	1	0.21	0.552	Yes
14	2	Arsenic	25.82	mg/kg	12	6	12	0.238	Yes
14	2	Barium	43.4	mg/kg	1	1	200	140	NoAB
14	2	Benzo(ghi)perylene	0.12	mg/kg	1	1			NoC
14	2	Beryllium	0.71	mg/kg	1	1	0.67	0.00567	Yes
14	2	Bis(2-ethylhexyl)phthalate	0.22	mg/kg	1	1		12.5	NoA
14	2	Cadmium	0.73	mg/kg	1	1	0.21	0.811	NoA
14	2	Calcium	59000	mg/kg	1	1	200000		NoB
14	2	Chromium	66.54	mg/kg	12	9	16	15.6	Yes
14	2	Cobalt	9.5	mg/kg	1	1	14	1.37	NoB
14	2	Copper	258.32	mg/kg	12	10	19	184	Yes
14	2	Di-n-butyl phthalate	0.054	mg/kg	1	1		326	NoA
14	2	Fluoranthene	0.46	mg/kg	1	1		109	NoA
14	2	Iron	52657.51	mg/kg	12	12	28000	3220	Yes
14	2	Lead	148.86	mg/kg	12	11	36	400	NoA
14	2	Magnesium	4730	mg/kg	1	1	7700		NoB
14	2	Manganese	2667.77	mg/kg	12	12	1500	419	Yes
14	2	Mercury	0.267	mg/kg	12	1	0.2	0.213	Yes
14	2	Molybdenum	1.4	mg/kg	12	1		23	NoA
14	2	Nickel	1380.97	mg/kg	12	11	21	10.4	Yes
14	2	PCB, Total	0.39	mg/kg	12	1		0.0648	Yes
14	2	Phenanthrene	0.31	mg/kg	1	1			NoC
14	2	Pyrene	0.43	mg/kg	1	1		81.2	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	2	Selenium	0.9	mg/kg	12	1	0.8	23	NoA
14	2	Silver	0.72	mg/kg	12	1	2.3	2.61	NoAB
14	2	Sodium	65.3	mg/kg	1	1	320		NoB
14	2	Thallium	0.082	mg/kg	1	1	0.21	0.368	NoAB
14	2	Total PAH	0.33814	mg/kg	1	1		0.0197	Yes
14	2	Uranium	524.16	mg/kg	12	12	4.9	13.8	Yes
14	2	Vanadium	32.8	mg/kg	1	1	38	0.0365	NoB
14	2	Zinc	737.29	mg/kg	12	12	65	1380	NoA
14	2	Americium-241	0.159	pCi/g	1	1		1.5	NoA
14	2	Cesium-137	0.062	pCi/g	1	1	0.49	0.0267	NoB
14	2	Neptunium-237	0.77	pCi/g	1	1	0.1	0.0839	Yes
14	2	Plutonium-238	0.044	pCi/g	1	1	0.073	3.21	NoAB
14	2	Plutonium-239/240	0.698	pCi/g	1	1	0.025	3.15	NoA
14	2	Technetium-99	48.8	pCi/g	1	1	2.5	101	NoA
14	2	Thorium-228	0.574	pCi/g	1	1	1.6		NoB
14	2	Thorium-230	5.98	pCi/g	1	1	1.5	4.1	Yes
14	2	Thorium-232	0.582	pCi/g	1	1	1.5		NoB
14	2	Uranium-234	32.4	pCi/g	1	1	1.2	5.47	Yes
14	2	Uranium-235	2	pCi/g	1	1	0.06	0.122	Yes
14	2	Uranium-238	56.1	pCi/g	1	1	1.2	0.517	Yes
14	3	Aluminum	3880	mg/kg	1	1	13000	4410	NoAB
14	3	Antimony	0.18	mg/kg	1	1	0.21	0.552	NoAB
14	3	Arsenic	16.84	mg/kg	12	5	12	0.238	Yes
14	3	Barium	40.9	mg/kg	1	1	200	140	NoAB
14	3	Beryllium	0.62	mg/kg	1	1	0.67	0.00567	NoB
14	3	Cadmium	0.18	mg/kg	1	1	0.21	0.811	NoAB
14	3	Calcium	21400	mg/kg	1	1	200000		NoB
14	3	Chromium	70.13	mg/kg	12	6	16	15.6	Yes
14	3	Cobalt	11.5	mg/kg	1	1	14	1.37	NoB
14	3	Copper	195.57	mg/kg	12	11	19	184	Yes
14	3	Iron	54899.16	mg/kg	12	12	28000	3220	Yes
14	3	Lead	141.5	mg/kg	12	11	36	400	NoA
14	3	Magnesium	1120	mg/kg	1	1	7700		NoB
14	3	Manganese	1547.92	mg/kg	12	12	1500	419	Yes
14	3	Mercury	7.48	mg/kg	12	1	0.2	0.213	Yes
14	3	Molybdenum	28.67	mg/kg	12	2		23	Yes
14	3	Nickel	1198.49	mg/kg	12	12	21	10.4	Yes
14	3	PCB, Total	10	mg/kg	12	3		0.0648	Yes
14	3	Selenium	0.58	mg/kg	12	1	0.8	23	NoAB
14	3	Silver	0.028	mg/kg	12	1	2.3	2.61	NoAB
14	3	Sodium	32.7	mg/kg	1	1	320		NoB
14	3	Thallium	0.073	mg/kg	1	1	0.21	0.368	NoAB
14	3	Uranium	349.16	mg/kg	12	12	4.9	13.8	Yes
14	3	Vanadium	23.9	mg/kg	1	1	38	0.0365	NoB
14	3	Zinc	641.9	mg/kg	12	12	65	1380	NoA
14	3	Americium-241	0.015	pCi/g	1	1		1.5	NoA
14	3	Cesium-137	0.018	pCi/g	1	1	0.49	0.0267	NoAB
14	3	Neptunium-237	0.013	pCi/g	1	1	0.1	0.0839	NoAB
14	3	Plutonium-238	0.013	pCi/g	1	1	0.073	3.21	NoAB
14	3	Plutonium-239/240	0.047	pCi/g	1	1	0.025	3.15	NoA
14	3	Technetium-99	1.25	pCi/g	1	1	2.5	101	NoAB
14	3	Thorium-228	0.259	pCi/g	1	1	1.6		NoB
14	3	Thorium-230	0.544	pCi/g	1	1	1.5	4.1	NoAB
14	3	Thorium-232	0.307	pCi/g	1	1	1.5		NoB
14	3	Uranium-234	1	pCi/g	1	1	1.2	5.47	NoAB
14	3	Uranium-235	0.052	pCi/g	1	1	0.06	0.122	NoAB
14	3	Uranium-238	1.5	pCi/g	1	1	1.2	0.517	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	4	Aluminum	11300	mg/kg	1	1	13000	4410	NoB
14	4	Antimony	4.3	mg/kg	1	1	0.21	0.552	Yes
14	4	Arsenic	20.75	mg/kg	15	5	12	0.238	Yes
14	4	Barium	125	mg/kg	1	1	200	140	NoAB
14	4	Benzo(ghi)perylene	0.084	mg/kg	1	1			NoC
14	4	Beryllium	0.64	mg/kg	1	1	0.67	0.00567	NoB
14	4	Bis(2-ethylhexyl)phthalate	0.35	mg/kg	1	1		12.5	NoA
14	4	Cadmium	0.45	mg/kg	1	1	0.21	0.811	NoA
14	4	Calcium	3420	mg/kg	1	1	200000		NoB
14	4	Chromium	77.28	mg/kg	15	10	16	15.6	Yes
14	4	Cobalt	13.9	mg/kg	1	1	14	1.37	NoB
14	4	Copper	1098.8	mg/kg	15	15	19	184	Yes
14	4	Di-n-butyl phthalate	0.043	mg/kg	1	1		326	NoA
14	4	Fluoranthene	0.18	mg/kg	1	1		109	NoA
14	4	Iron	62967.76	mg/kg	15	15	28000	3220	Yes
14	4	Lead	115.82	mg/kg	15	15	36	400	NoA
14	4	Magnesium	1950	mg/kg	1	1	7700		NoB
14	4	Manganese	1231.77	mg/kg	15	15	1500	419	NoB
14	4	Mercury	0.487	mg/kg	15	1	0.2	0.213	Yes
14	4	Molybdenum	14.87	mg/kg	15	3		23	NoA
14	4	Nickel	1590.5	mg/kg	15	15	21	10.4	Yes
14	4	PCB, Total	10	mg/kg	15	5		0.0648	Yes
14	4	Phenanthrene	0.053	mg/kg	1	1			NoC
14	4	Pyrene	0.18	mg/kg	1	1		81.2	NoA
14	4	Selenium	1.7	mg/kg	15	1	0.8	23	NoA
14	4	Silver	11.7	mg/kg	15	2	2.3	2.61	Yes
14	4	Sodium	129	mg/kg	1	1	320		NoB
14	4	Thallium	0.074	mg/kg	1	1	0.21	0.368	NoAB
14	4	Total PAH	0.25077	mg/kg	1	1		0.0197	Yes
14	4	Uranium	663.16	mg/kg	15	15	4.9	13.8	Yes
14	4	Vanadium	34.6	mg/kg	1	1	38	0.0365	NoB
14	4	Zinc	722.91	mg/kg	15	15	65	1380	NoA
14	4	Americium-241	0.128	pCi/g	1	1		1.5	NoA
14	4	Cesium-137	0.076	pCi/g	1	1	0.49	0.0267	NoB
14	4	Neptunium-237	2.68	pCi/g	1	1	0.1	0.0839	Yes
14	4	Plutonium-238	0.059	pCi/g	1	1	0.073	3.21	NoAB
14	4	Plutonium-239/240	0.69	pCi/g	1	1	0.025	3.15	NoA
14	4	Technetium-99	13	pCi/g	1	1	2.5	101	NoA
14	4	Thorium-228	0.93	pCi/g	1	1	1.6		NoB
14	4	Thorium-230	8.33	pCi/g	1	1	1.5	4.1	Yes
14	4	Thorium-232	0.93	pCi/g	1	1	1.5		NoB
14	4	Uranium-234	113	pCi/g	1	1	1.2	5.47	Yes
14	4	Uranium-235	8	pCi/g	1	1	0.06	0.122	Yes
14	4	Uranium-238	169	pCi/g	1	1	1.2	0.517	Yes
14	5	2-Methylnaphthalene	0.18	mg/kg	1	1		13.04	NoA
14	5	Aluminum	10100	mg/kg	1	1	13000	4410	NoB
14	5	Antimony	2.3	mg/kg	1	1	0.21	0.552	Yes
14	5	Arsenic	16.35	mg/kg	12	5	12	0.238	Yes
14	5	Barium	103	mg/kg	1	1	200	140	NoAB
14	5	Benzo(ghi)perylene	0.048	mg/kg	1	1			NoC
14	5	Beryllium	0.54	mg/kg	1	1	0.67	0.00567	NoB
14	5	Bis(2-ethylhexyl)phthalate	0.17	mg/kg	1	1		12.5	NoA
14	5	Cadmium	3.9	mg/kg	1	1	0.21	0.811	Yes
14	5	Calcium	37100	mg/kg	1	1	200000		NoB
14	5	Chromium	46.97	mg/kg	12	4	16	15.6	Yes
14	5	Cobalt	14	mg/kg	1	1	14	1.37	Yes
14	5	Copper	218.15	mg/kg	12	10	19	184	Yes

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 E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	5	Fluoranthene	0.099	mg/kg	1	1		109	NoA
14	5	Iron	66572.84	mg/kg	12	12	28000	3220	Yes
14	5	Lead	146	mg/kg	12	11	36	400	NoA
14	5	Magnesium	2250	mg/kg	1	1	7700		NoB
14	5	Manganese	1545.17	mg/kg	12	11	1500	419	Yes
14	5	Mercury	10.94	mg/kg	12	2	0.2	0.213	Yes
14	5	Molybdenum	4.3	mg/kg	12	1		23	NoA
14	5	Nickel	697.12	mg/kg	12	10	21	10.4	Yes
14	5	PCB, Total	1	mg/kg	12	1		0.0648	Yes
14	5	Pyrene	0.1	mg/kg	1	1		81.2	NoA
14	5	Selenium	1.2	mg/kg	12	1	0.8	23	NoA
14	5	Silver	12.87	mg/kg	12	3	2.3	2.61	Yes
14	5	Sodium	99.6	mg/kg	1	1	320		NoB
14	5	Thallium	0.41	mg/kg	1	1	0.21	0.368	Yes
14	5	Total PAH	0.120962	mg/kg	1	1		0.0197	Yes
14	5	Uranium	445	mg/kg	12	10	4.9	13.8	Yes
14	5	Vanadium	28.4	mg/kg	1	1	38	0.0365	NoB
14	5	Zinc	364	mg/kg	12	11	65	1380	NoA
14	5	Americium-241	0.195	pCi/g	1	1		1.5	NoA
14	5	Cesium-137	0.172	pCi/g	1	1	0.49	0.0267	NoB
14	5	Neptunium-237	1.74	pCi/g	1	1	0.1	0.0839	Yes
14	5	Plutonium-238	0.01	pCi/g	1	1	0.073	3.21	NoAB
14	5	Plutonium-239/240	1.12	pCi/g	1	1	0.025	3.15	NoA
14	5	Technetium-99	101	pCi/g	1	1	2.5	101	Yes
14	5	Thorium-228	0.88	pCi/g	1	1	1.6		NoB
14	5	Thorium-230	13.9	pCi/g	1	1	1.5	4.1	Yes
14	5	Thorium-232	0.97	pCi/g	1	1	1.5		NoB
14	5	Uranium-234	52.2	pCi/g	1	1	1.2	5.47	Yes
14	5	Uranium-235	3.33	pCi/g	1	1	0.06	0.122	Yes
14	5	Uranium-238	94.2	pCi/g	1	1	1.2	0.517	Yes
14	6	Aluminum	6020	mg/kg	1	1	13000	4410	NoB
14	6	Antimony	2.7	mg/kg	1	1	0.21	0.552	Yes
14	6	Arsenic	10.74	mg/kg	12	2	12	0.238	NoB
14	6	Barium	76.4	mg/kg	1	1	200	140	NoAB
14	6	Beryllium	0.32	mg/kg	1	1	0.67	0.00567	NoB
14	6	Cadmium	0.84	mg/kg	1	1	0.21	0.811	Yes
14	6	Calcium	89300	mg/kg	1	1	200000		NoB
14	6	Chromium	897.61	mg/kg	12	2	16	15.6	Yes
14	6	Cobalt	5.9	mg/kg	1	1	14	1.37	NoB
14	6	Copper	207.36	mg/kg	12	11	19	184	Yes
14	6	Iron	24663.22	mg/kg	12	12	28000	3220	NoB
14	6	Lead	39.53	mg/kg	12	12	36	400	NoA
14	6	Magnesium	6190	mg/kg	1	1	7700		NoB
14	6	Manganese	933.29	mg/kg	12	12	1500	419	NoB
14	6	Mercury	0.347	mg/kg	12	1	0.2	0.213	Yes
14	6	Molybdenum	16.41	mg/kg	12	4		23	NoA
14	6	Nickel	1622.96	mg/kg	12	12	21	10.4	Yes
14	6	PCB, Total	5	mg/kg	12	2		0.0648	Yes
14	6	Selenium	1.1	mg/kg	12	1	0.8	23	NoA
14	6	Silver	16.63	mg/kg	12	2	2.3	2.61	Yes
14	6	Sodium	94.6	mg/kg	1	1	320		NoB
14	6	Thallium	0.12	mg/kg	1	1	0.21	0.368	NoAB
14	6	Total PAH	0.015	mg/kg	1	1		0.0197	NoA
14	6	Uranium	864.68	mg/kg	12	12	4.9	13.8	Yes
14	6	Vanadium	17.6	mg/kg	1	1	38	0.0365	NoB
14	6	Zinc	240.58	mg/kg	12	12	65	1380	NoA
14	6	Americium-241	0.022	pCi/g	1	1		1.5	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	6	Cesium-137	0.017	pCi/g	1	1	0.49	0.0267	NoAB
14	6	Neptunium-237	2.65	pCi/g	1	1	0.1	0.0839	Yes
14	6	Plutonium-238	0.016	pCi/g	1	1	0.073	3.21	NoAB
14	6	Plutonium-239/240	0.117	pCi/g	1	1	0.025	3.15	NoA
14	6	Technetium-99	76	pCi/g	1	1	2.5	101	NoA
14	6	Thorium-228	0.9	pCi/g	1	1	1.6		NoB
14	6	Thorium-230	1.67	pCi/g	1	1	1.5	4.1	NoA
14	6	Thorium-232	0.87	pCi/g	1	1	1.5		NoB
14	6	Uranium-234	34.1	pCi/g	1	1	1.2	5.47	Yes
14	6	Uranium-235	2.27	pCi/g	1	1	0.06	0.122	Yes
14	6	Uranium-238	50.8	pCi/g	1	1	1.2	0.517	Yes
14	7	Aluminum	5630	mg/kg	1	1	13000	4410	NoB
14	7	Anthracene	0.081	mg/kg	1	1		747	NoA
14	7	Antimony	0.75	mg/kg	1	1	0.21	0.552	Yes
14	7	Arsenic	12.99	mg/kg	12	4	12	0.238	Yes
14	7	Barium	117	mg/kg	1	1	200	140	NoAB
14	7	Beryllium	0.41	mg/kg	1	1	0.67	0.00567	NoB
14	7	Cadmium	2.7	mg/kg	1	1	0.21	0.811	Yes
14	7	Calcium	182000	mg/kg	1	1	200000		NoB
14	7	Chromium	64.56	mg/kg	12	6	16	15.6	Yes
14	7	Cobalt	7.2	mg/kg	1	1	14	1.37	NoB
14	7	Copper	176.65	mg/kg	12	9	19	184	NoA
14	7	Fluoranthene	0.072	mg/kg	1	1		109	NoA
14	7	Iron	25208.37	mg/kg	12	12	28000	3220	NoB
14	7	Lead	62.69	mg/kg	12	12	36	400	NoA
14	7	Magnesium	18200	mg/kg	1	1	7700		NoE
14	7	Manganese	909.25	mg/kg	12	12	1500	419	NoB
14	7	Mercury	7.82	mg/kg	12	2	0.2	0.213	Yes
14	7	Molybdenum	1.5	mg/kg	12	1		23	NoA
14	7	Nickel	2668.41	mg/kg	12	12	21	10.4	Yes
14	7	PCB, Total	10	mg/kg	12	2		0.0648	Yes
14	7	Pyrene	0.073	mg/kg	1	1		81.2	NoA
14	7	Selenium	1.3	mg/kg	12	1	0.8	23	NoA
14	7	Silver	0.15	mg/kg	12	1	2.3	2.61	NoAB
14	7	Sodium	176	mg/kg	1	1	320		NoB
14	7	Thallium	0.27	mg/kg	1	1	0.21	0.368	NoA
14	7	Total PAH	0.06314	mg/kg	1	1		0.0197	Yes
14	7	Uranium	762.94	mg/kg	12	12	4.9	13.8	Yes
14	7	Vanadium	18.8	mg/kg	1	1	38	0.0365	NoB
14	7	Zinc	337.01	mg/kg	12	12	65	1380	NoA
14	7	Americium-241	0.022	pCi/g	1	1		1.5	NoA
14	7	Cesium-137	0.103	pCi/g	1	1	0.49	0.0267	NoB
14	7	Neptunium-237	1.49	pCi/g	1	1	0.1	0.0839	Yes
14	7	Plutonium-238	0.012	pCi/g	1	1	0.073	3.21	NoAB
14	7	Plutonium-239/240	0.037	pCi/g	1	1	0.025	3.15	NoA
14	7	Technetium-99	25.1	pCi/g	1	1	2.5	101	NoA
14	7	Thorium-228	0.525	pCi/g	1	1	1.6		NoB
14	7	Thorium-230	0.95	pCi/g	1	1	1.5	4.1	NoAB
14	7	Thorium-232	0.476	pCi/g	1	1	1.5		NoB
14	7	Uranium-234	12.8	pCi/g	1	1	1.2	5.47	Yes
14	7	Uranium-235	0.96	pCi/g	1	1	0.06	0.122	Yes
14	7	Uranium-238	21.3	pCi/g	1	1	1.2	0.517	Yes
14	8	Aluminum	4770	mg/kg	1	1	13000	4410	NoB
14	8	Antimony	0.61	mg/kg	1	1	0.21	0.552	Yes
14	8	Arsenic	14.02	mg/kg	13	5	12	0.238	Yes
14	8	Barium	102	mg/kg	1	1	200	140	NoAB
14	8	Beryllium	0.37	mg/kg	1	1	0.67	0.00567	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	8	Bis(2-ethylhexyl)phthalate	0.3	mg/kg	1	1		12.5	NoA
14	8	Cadmium	0.33	mg/kg	1	1	0.21	0.811	NoA
14	8	Calcium	162000	mg/kg	1	1	200000		NoB
14	8	Chromium	46.03	mg/kg	13	4	16	15.6	Yes
14	8	Cobalt	6.6	mg/kg	1	1	14	1.37	NoB
14	8	Copper	129.47	mg/kg	13	10	19	184	NoA
14	8	Fluoranthene	0.068	mg/kg	1	1		109	NoA
14	8	Iron	23685.78	mg/kg	13	13	28000	3220	NoB
14	8	Lead	44.95	mg/kg	13	13	36	400	NoA
14	8	Magnesium	6640	mg/kg	1	1	7700		NoB
14	8	Manganese	815.36	mg/kg	13	13	1500	419	NoB
14	8	Mercury	7.9	mg/kg	13	2	0.2	0.213	Yes
14	8	Molybdenum	0.78	mg/kg	13	1		23	NoA
14	8	Nickel	1299.73	mg/kg	13	13	21	10.4	Yes
14	8	PCB, Total	5	mg/kg	13	2		0.0648	Yes
14	8	Pyrene	0.069	mg/kg	1	1		81.2	NoA
14	8	Selenium	1.1	mg/kg	13	1	0.8	23	NoA
14	8	Silver	9.63	mg/kg	13	2	2.3	2.61	Yes
14	8	Sodium	93.4	mg/kg	1	1	320		NoB
14	8	Thallium	0.12	mg/kg	1	1	0.21	0.368	NoAB
14	8	Total PAH	0.062758	mg/kg	1	1		0.0197	Yes
14	8	Uranium	638.11	mg/kg	13	13	4.9	13.8	Yes
14	8	Vanadium	17.8	mg/kg	1	1	38	0.0365	NoB
14	8	Zinc	163.71	mg/kg	13	13	65	1380	NoA
14	8	Americium-241	0.012	pCi/g	1	1		1.5	NoA
14	8	Cesium-137	0.207	pCi/g	1	1	0.49	0.0267	NoB
14	8	Neptunium-237	0.88	pCi/g	1	1	0.1	0.0839	Yes
14	8	Plutonium-238	0.0002	pCi/g	1	1	0.073	3.21	NoAB
14	8	Plutonium-239/240	0.088	pCi/g	1	1	0.025	3.15	NoA
14	8	Technetium-99	30.9	pCi/g	1	1	2.5	101	NoA
14	8	Thorium-228	0.72	pCi/g	1	1	1.6		NoB
14	8	Thorium-230	0.96	pCi/g	1	1	1.5	4.1	NoAB
14	8	Thorium-232	0.73	pCi/g	1	1	1.5		NoB
14	8	Uranium-234	3.81	pCi/g	1	1	1.2	5.47	NoA
14	8	Uranium-235	0.238	pCi/g	1	1	0.06	0.122	Yes
14	8	Uranium-238	5.92	pCi/g	1	1	1.2	0.517	Yes
14	9	Acenaphthylene	0.042	mg/kg	1	1			NoC
14	9	Aluminum	7050	mg/kg	1	1	13000	4410	NoB
14	9	Anthracene	0.04	mg/kg	1	1		747	NoA
14	9	Antimony	2	mg/kg	1	1	0.21	0.552	Yes
14	9	Arsenic	23.57	mg/kg	13	7	12	0.238	Yes
14	9	Barium	126	mg/kg	1	1	200	140	NoAB
14	9	Benzo(ghi)perylene	0.23	mg/kg	1	1			NoC
14	9	Beryllium	0.41	mg/kg	1	1	0.67	0.00567	NoB
14	9	Cadmium	0.94	mg/kg	1	1	0.21	0.811	Yes
14	9	Calcium	88500	mg/kg	1	1	200000		NoB
14	9	Chromium	46.44	mg/kg	13	6	16	15.6	Yes
14	9	Cobalt	6.8	mg/kg	1	1	14	1.37	NoB
14	9	Copper	180.26	mg/kg	13	10	19	184	NoA
14	9	Fluoranthene	0.45	mg/kg	1	1		109	NoA
14	9	Iron	27773.15	mg/kg	13	13	28000	3220	NoB
14	9	Lead	70.88	mg/kg	13	13	36	400	NoA
14	9	Magnesium	4100	mg/kg	1	1	7700		NoB
14	9	Manganese	800	mg/kg	13	13	1500	419	NoB
14	9	Mercury	1.13	mg/kg	13	1	0.2	0.213	Yes
14	9	Molybdenum	10.04	mg/kg	13	2		23	NoA
14	9	Nickel	1724.92	mg/kg	13	12	21	10.4	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	9	PCB, Total	10	mg/kg	13	4		0.0648	Yes
14	9	Phenanthrene	0.12	mg/kg	1	1			NoC
14	9	Pyrene	0.48	mg/kg	1	1		81.2	NoA
14	9	Selenium	4.75	mg/kg	13	3	0.8	23	NoA
14	9	Silver	0.39	mg/kg	13	1	2.3	2.61	NoAB
14	9	Sodium	85.6	mg/kg	1	1	320		NoB
14	9	Thallium	0.29	mg/kg	1	1	0.21	0.368	NoA
14	9	Total PAH	0.48746	mg/kg	1	1		0.0197	Yes
14	9	Uranium	4600	mg/kg	14	14	4.9	13.8	Yes
14	9	Vanadium	21.8	mg/kg	1	1	38	0.0365	NoB
14	9	Zinc	195.15	mg/kg	13	13	65	1380	NoA
14	9	Americium-241	0.079	pCi/g	2	2		1.5	NoA
14	9	Cesium-137	0.62	pCi/g	2	2	0.49	0.0267	Yes
14	9	Neptunium-237	16	pCi/g	2	2	0.1	0.0839	Yes
14	9	Plutonium-238	0.021	pCi/g	2	2	0.073	3.21	NoAB
14	9	Plutonium-239/240	0.393	pCi/g	2	2	0.025	3.15	NoA
14	9	Technetium-99	215	pCi/g	2	2	2.5	101	Yes
14	9	Thorium-228	0.79	pCi/g	2	2	1.6		NoB
14	9	Thorium-230	3.45	pCi/g	2	2	1.5	4.1	NoA
14	9	Thorium-232	0.75	pCi/g	2	2	1.5		NoB
14	9	Uranium-234	1070	pCi/g	2	2	1.2	5.47	Yes
14	9	Uranium-235	70	pCi/g	2	2	0.06	0.122	Yes
14	9	Uranium-238	1540	pCi/g	2	2	1.2	0.517	Yes
14	10	Aluminum	6430	mg/kg	1	1	13000	4410	NoB
14	10	Antimony	0.94	mg/kg	1	1	0.21	0.552	Yes
14	10	Arsenic	13.37	mg/kg	11	7	12	0.238	Yes
14	10	Barium	117	mg/kg	1	1	200	140	NoAB
14	10	Benzo(ghi)perylene	0.11	mg/kg	1	1			NoC
14	10	Beryllium	0.41	mg/kg	1	1	0.67	0.00567	NoB
14	10	Cadmium	0.57	mg/kg	1	1	0.21	0.811	NoA
14	10	Calcium	76000	mg/kg	1	1	200000		NoB
14	10	Chromium	41.85	mg/kg	11	6	16	15.6	Yes
14	10	Cobalt	6.3	mg/kg	1	1	14	1.37	NoB
14	10	Copper	275.71	mg/kg	11	8	19	184	Yes
14	10	Fluoranthene	0.21	mg/kg	1	1		109	NoA
14	10	Iron	39014.89	mg/kg	11	11	28000	3220	Yes
14	10	Lead	49.39	mg/kg	11	11	36	400	NoA
14	10	Magnesium	3120	mg/kg	1	1	7700		NoB
14	10	Manganese	1062.78	mg/kg	11	11	1500	419	NoB
14	10	Mercury	43.71	mg/kg	11	3	0.2	0.213	Yes
14	10	Molybdenum	0.89	mg/kg	11	1		23	NoA
14	10	Nickel	950.81	mg/kg	11	10	21	10.4	Yes
14	10	PCB, Total	10	mg/kg	11	5		0.0648	Yes
14	10	Phenanthrene	0.045	mg/kg	1	1			NoC
14	10	Pyrene	0.24	mg/kg	1	1		81.2	NoA
14	10	Selenium	1.2	mg/kg	11	1	0.8	23	NoA
14	10	Silver	0.15	mg/kg	11	1	2.3	2.61	NoAB
14	10	Sodium	65.1	mg/kg	1	1	320		NoB
14	10	Thallium	0.11	mg/kg	1	1	0.21	0.368	NoAB
14	10	Total PAH	0.27151	mg/kg	1	1		0.0197	Yes
14	10	Uranium	541.96	mg/kg	11	11	4.9	13.8	Yes
14	10	Vanadium	20.9	mg/kg	1	1	38	0.0365	NoB
14	10	Zinc	278.18	mg/kg	11	11	65	1380	NoA
14	10	Americium-241	0.064	pCi/g	1	1		1.5	NoA
14	10	Cesium-137	0.055	pCi/g	1	1	0.49	0.0267	NoB
14	10	Neptunium-237	2.64	pCi/g	1	1	0.1	0.0839	Yes
14	10	Plutonium-238	0.032	pCi/g	1	1	0.073	3.21	NoAB

SWMU = solid waste management unit

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
14	10	Plutonium-239/240	0.24	pCi/g	1	1	0.025	3.15	NoA
14	10	Technetium-99	56.3	pCi/g	1	1	2.5	101	NoA
14	10	Thorium-228	0.66	pCi/g	1	1	1.6		NoB
14	10	Thorium-230	1.16	pCi/g	1	1	1.5	4.1	NoAB
14	10	Thorium-232	0.7	pCi/g	1	1	1.5		NoB
14	10	Uranium-234	24.2	pCi/g	1	1	1.2	5.47	Yes
14	10	Uranium-235	1.76	pCi/g	1	1	0.06	0.122	Yes
14	10	Uranium-238	40.9	pCi/g	1	1	1.2	0.517	Yes
518	1	Acenaphthene	31	mg/kg	25	7		117	NoA
518	1	Acenaphthylene	1.2	mg/kg	25	1			NoC
518	1	Aluminum	8720	mg/kg	9	9	13000	4410	NoB
518	1	Anthracene	40	mg/kg	25	8		747	NoA
518	1	Arsenic	8.63	mg/kg	9	3	12	0.238	NoB
518	1	Barium	130	mg/kg	9	9	200	140	NoAB
518	1	Benzo(ghi)perylene	28	mg/kg	25	10			NoC
518	1	Beryllium	0.55	mg/kg	9	3	0.67	0.00567	NoB
518	1	Bis(2-ethylhexyl)phthalate	5.7	mg/kg	24	16		12.5	NoA
518	1	Calcium	207000	mg/kg	9	9	200000		NoE
518	1	Carbazole	37	mg/kg	22	5		8.72	Yes
518	1	Chromium	12.8	mg/kg	9	9	16	15.6	NoAB
518	1	Cobalt	17.6	mg/kg	9	9	14	1.37	Yes
518	1	Copper	10.8	mg/kg	9	9	19	184	NoAB
518	1	Dibenzofuran	1.65	mg/kg	3	1		3.26	NoA
518	1	Fluoranthene	12.1	mg/kg	4	2		109	NoA
518	1	Fluorene	27	mg/kg	25	6		91.5	NoA
518	1	Iron	12200	mg/kg	9	9	28000	3220	NoB
518	1	Lead	31.9	mg/kg	9	3	36	400	NoAB
518	1	Magnesium	4780	mg/kg	9	9	7700		NoB
518	1	Manganese	493	mg/kg	9	9	1500	419	NoB
518	1	Methylene chloride	0.006	mg/kg	7	2		3.65	NoA
518	1	Nickel	24.8	mg/kg	9	9	21	10.4	Yes
518	1	PCB, Total	1.64	mg/kg	15	3		0.0648	Yes
518	1	Phenanthrene	64	mg/kg	25	13			NoC
518	1	Pyrene	150	mg/kg	25	17		81.2	Yes
518	1	Selenium	1.06	mg/kg	9	1	0.8	23	NoA
518	1	Sodium	220	mg/kg	4	3	320		NoB
518	1	Total PAH	111.795	mg/kg	25	2		0.0197	Yes
518	1	Uranium	217	mg/kg	7	3	4.9	13.8	Yes
518	1	Vanadium	20.8	mg/kg	9	9	38	0.0365	NoB
518	1	Zinc	76.1	mg/kg	9	4	65	1380	NoA
518	1	Americium-241	0.0528	pCi/g	7	7		1.5	NoA
518	1	Cesium-137	0.0741	pCi/g	7	7	0.49	0.0267	NoB
518	1	Cobalt-60	0.00446	pCi/g	6	6		0.00547	NoA
518	1	Neptunium-237	0.016	pCi/g	7	7	0.1	0.0839	NoAB
518	1	Plutonium-238	0.014	pCi/g	7	7	0.073	3.21	NoAB
518	1	Plutonium-239/240	0.013	pCi/g	7	7	0.025	3.15	NoAB
518	1	Technetium-99	17.3	pCi/g	7	7	2.5	101	NoA
518	1	Thorium-228	0.76	pCi/g	7	7	1.6		NoB
518	1	Thorium-230	1.11	pCi/g	7	7	1.5	4.1	NoAB
518	1	Thorium-232	0.73	pCi/g	7	7	1.5		NoB
518	1	Uranium-234	2.56	pCi/g	7	7	1.2	5.47	NoA
518	1	Uranium-235	0.163	pCi/g	7	7	0.06	0.122	Yes
518	1	Uranium-238	3.04	pCi/g	7	7	1.2	0.517	Yes
520	1	Aluminum	5020	mg/kg	2	2	13000	4410	NoB
520	1	Antimony	0.3	mg/kg	2	1	0.21	0.552	NoA
520	1	Arsenic	8.83	mg/kg	11	4	12	0.238	NoB
520	1	Barium	69.9	mg/kg	2	2	200	140	NoAB

SWMU = solid waste management unit

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COPC = chemical of potential concern

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
520	1	Beryllium	0.27	mg/kg	2	1	0.67	0.00567	NoB
520	1	Cadmium	0.6	mg/kg	2	1	0.21	0.811	NoA
520	1	Calcium	220000	mg/kg	2	2	200000		NoE
520	1	Chromium	31.73	mg/kg	11	3	16	15.6	Yes
520	1	Cobalt	6.07	mg/kg	2	2	14	1.37	NoB
520	1	Copper	38.01	mg/kg	11	4	19	184	NoA
520	1	Fluoranthene	0.039	mg/kg	2	1		109	NoA
520	1	Iron	32605.35	mg/kg	11	11	28000	3220	Yes
520	1	Lead	26.82	mg/kg	11	8	36	400	NoAB
520	1	Magnesium	18400	mg/kg	2	2	7700		NoE
520	1	Manganese	546.05	mg/kg	11	11	1500	419	NoB
520	1	Mercury	10.68	mg/kg	11	3	0.2	0.213	Yes
520	1	Molybdenum	1.1	mg/kg	11	1		23	NoA
520	1	Nickel	648	mg/kg	11	8	21	10.4	Yes
520	1	Potassium	166	mg/kg	1	1	1300		NoB
520	1	Pyrene	0.038	mg/kg	2	1		81.2	NoA
520	1	Selenium	4.48	mg/kg	11	2	0.8	23	NoA
520	1	Silver	13.95	mg/kg	11	3	2.3	2.61	Yes
520	1	Sodium	164	mg/kg	2	1	320		NoB
520	1	Thallium	0.16	mg/kg	2	1	0.21	0.368	NoAB
520	1	Total PAH	0.031836	mg/kg	2	1		0.0197	Yes
520	1	Uranium	22.94	mg/kg	12	4	4.9	13.8	Yes
520	1	Vanadium	23.4	mg/kg	2	2	38	0.0365	NoB
520	1	Zinc	77.66	mg/kg	11	10	65	1380	NoA
520	1	Americium-241	0.339	pCi/g	3	3		1.5	NoA
520	1	Cesium-137	1.61	pCi/g	3	3	0.49	0.0267	Yes
520	1	Cobalt-60	-0.0153	pCi/g	1	1		0.00547	NoA
520	1	Neptunium-237	1.1	pCi/g	3	3	0.1	0.0839	Yes
520	1	Plutonium-238	0.04	pCi/g	3	3	0.073	3.21	NoAB
520	1	Plutonium-239/240	1.23	pCi/g	3	3	0.025	3.15	NoA
520	1	Technetium-99	7.93	pCi/g	3	3	2.5	101	NoA
520	1	Thorium-228	0.43	pCi/g	3	3	1.6		NoB
520	1	Thorium-230	18.7	pCi/g	3	3	1.5	4.1	Yes
520	1	Thorium-232	0.56	pCi/g	3	3	1.5		NoB
520	1	Uranium-234	3.27	pCi/g	3	3	1.2	5.47	NoA
520	1	Uranium-235	0.19	pCi/g	3	3	0.06	0.122	Yes
520	1	Uranium-238	6.14	pCi/g	3	3	1.2	0.517	Yes
520	2	Aluminum	10600	mg/kg	8	8	13000	4410	NoB
520	2	Anthracene	0.156	mg/kg	8	1		747	NoA
520	2	Antimony	0.29	mg/kg	8	1	0.21	0.552	NoA
520	2	Arsenic	10.4	mg/kg	22	7	12	0.238	NoB
520	2	Barium	98.4	mg/kg	8	8	200	140	NoAB
520	2	Benzo(ghi)perylene	0.124	mg/kg	8	2			NoC
520	2	Beryllium	0.67	mg/kg	8	4	0.67	0.00567	Yes
520	2	Bis(2-ethylhexyl)phthalate	0.42	mg/kg	8	1		12.5	NoA
520	2	Cadmium	0.44	mg/kg	8	1	0.21	0.811	NoA
520	2	Calcium	282000	mg/kg	8	8	200000		NoE
520	2	Chromium	66.65	mg/kg	22	10	16	15.6	Yes
520	2	Cobalt	5.7	mg/kg	8	8	14	1.37	NoB
520	2	Copper	65.54	mg/kg	22	15	19	184	NoA
520	2	Fluoranthene	0.636	mg/kg	2	2		109	NoA
520	2	Iron	18363.05	mg/kg	22	22	28000	3220	NoB
520	2	Lead	27.06	mg/kg	22	15	36	400	NoAB
520	2	Lithium	8.08	mg/kg	6	6		15.6	NoA
520	2	Magnesium	5490	mg/kg	8	8	7700		NoB
520	2	Manganese	1761.69	mg/kg	22	22	1500	419	Yes
520	2	Mercury	11.88	mg/kg	22	2	0.2	0.213	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
520	2	Molybdenum	1.2	mg/kg	15	1		23	NoA
520	2	Nickel	809.76	mg/kg	22	20	21	10.4	Yes
520	2	Phenanthrene	0.461	mg/kg	8	1			NoC
520	2	Potassium	578	mg/kg	1	1	1300		NoB
520	2	Pyrene	0.663	mg/kg	8	2		81.2	NoA
520	2	Selenium	0.83	mg/kg	22	1	0.8	23	NoA
520	2	Silver	0.067	mg/kg	22	1	2.3	2.61	NoAB
520	2	Sodium	231	mg/kg	2	2	320		NoB
520	2	Thallium	0.13	mg/kg	8	1	0.21	0.368	NoAB
520	2	Total Organic Carbon	11000	mg/kg	1	1			NoC
520	2	Total PAH	0.496717	mg/kg	8	2		0.0197	Yes
520	2	Uranium	114	mg/kg	21	11	4.9	13.8	Yes
520	2	Vanadium	26	mg/kg	8	8	38	0.0365	NoB
520	2	Zinc	128	mg/kg	22	22	65	1380	NoA
520	2	Americium-241	0.0594	pCi/g	7	7		1.5	NoA
520	2	Cesium-134	0.00302	pCi/g	6	6		0.00956	NoA
520	2	Cesium-137	0.0523	pCi/g	7	7	0.49	0.0267	NoB
520	2	Cobalt-60	0.0052	pCi/g	6	6		0.00547	NoA
520	2	Neptunium-237	0.11	pCi/g	7	7	0.1	0.0839	Yes
520	2	Plutonium-238	0.00758	pCi/g	7	7	0.073	3.21	NoAB
520	2	Plutonium-239/240	0.00771	pCi/g	7	7	0.025	3.15	NoAB
520	2	Technetium-99	3.85	pCi/g	8	8	2.5	101	NoA
520	2	Thorium-228	0.5	pCi/g	7	7	1.6		NoB
520	2	Thorium-230	0.87	pCi/g	7	7	1.5	4.1	NoAB
520	2	Thorium-232	0.6	pCi/g	7	7	1.5		NoB
520	2	Uranium-234	1.35	pCi/g	7	7	1.2	5.47	NoA
520	2	Uranium-235	0.097	pCi/g	7	7	0.06	0.122	NoA
520	2	Uranium-238	2.06	pCi/g	7	7	1.2	0.517	Yes
520	3	Aluminum	6240	mg/kg	1	1	13000	4410	NoB
520	3	Antimony	0.51	mg/kg	1	1	0.21	0.552	NoA
520	3	Arsenic	8.91	mg/kg	15	2	12	0.238	NoB
520	3	Barium	68.6	mg/kg	1	1	200	140	NoAB
520	3	Benzo(ghi)perylene	0.079	mg/kg	1	1			NoC
520	3	Beryllium	0.28	mg/kg	1	1	0.67	0.00567	NoB
520	3	Cadmium	0.47	mg/kg	1	1	0.21	0.811	NoA
520	3	Calcium	267000	mg/kg	1	1	200000		NoE
520	3	Chromium	39.68	mg/kg	15	3	16	15.6	Yes
520	3	Cobalt	3.9	mg/kg	1	1	14	1.37	NoB
520	3	Copper	239.62	mg/kg	15	4	19	184	Yes
520	3	Fluoranthene	0.21	mg/kg	1	1		109	NoA
520	3	Iron	18228.04	mg/kg	15	15	28000	3220	NoB
520	3	Lead	22.74	mg/kg	15	12	36	400	NoAB
520	3	Magnesium	19300	mg/kg	1	1	7700		NoE
520	3	Manganese	324.51	mg/kg	15	15	1500	419	NoAB
520	3	Mercury	0.0205	mg/kg	15	1	0.2	0.213	NoAB
520	3	Molybdenum	0.73	mg/kg	15	1		23	NoA
520	3	Nickel	630.99	mg/kg	15	8	21	10.4	Yes
520	3	Phenanthrene	0.059	mg/kg	1	1			NoC
520	3	Pyrene	0.18	mg/kg	1	1		81.2	NoA
520	3	Selenium	3.9	mg/kg	15	2	0.8	23	NoA
520	3	Silver	13.32	mg/kg	15	2	2.3	2.61	Yes
520	3	Sodium	227	mg/kg	1	1	320		NoB
520	3	Thallium	0.15	mg/kg	1	1	0.21	0.368	NoAB
520	3	Total PAH	0.11809	mg/kg	1	1		0.0197	Yes
520	3	Uranium	28.18	mg/kg	15	8	4.9	13.8	Yes
520	3	Vanadium	17	mg/kg	1	1	38	0.0365	NoB
520	3	Zinc	146.19	mg/kg	15	15	65	1380	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
520	3	Americium-241	0.0082	pCi/g	1	1		1.5	NoA
520	3	Cesium-137	0.04	pCi/g	1	1	0.49	0.0267	NoB
520	3	Neptunium-237	0.011	pCi/g	1	1	0.1	0.0839	NoAB
520	3	Plutonium-238	0.009	pCi/g	1	1	0.073	3.21	NoAB
520	3	Plutonium-239/240	0.0056	pCi/g	1	1	0.025	3.15	NoAB
520	3	Technetium-99	0.78	pCi/g	1	1	2.5	101	NoAB
520	3	Thorium-228	0.353	pCi/g	1	1	1.6		NoB
520	3	Thorium-230	0.89	pCi/g	1	1	1.5	4.1	NoAB
520	3	Thorium-232	0.343	pCi/g	1	1	1.5		NoB
520	3	Uranium-234	0.98	pCi/g	1	1	1.2	5.47	NoAB
520	3	Uranium-235	0.061	pCi/g	1	1	0.06	0.122	NoA
520	3	Uranium-238	1.57	pCi/g	1	1	1.2	0.517	Yes
520	4	Aluminum	2570	mg/kg	1	1	13000	4410	NoAB
520	4	Anthracene	0.085	mg/kg	1	1		747	NoA
520	4	Antimony	0.44	mg/kg	1	1	0.21	0.552	NoA
520	4	Arsenic	6.53	mg/kg	14	2	12	0.238	NoB
520	4	Barium	86.2	mg/kg	1	1	200	140	NoAB
520	4	Benzo(ghi)perylene	0.27	mg/kg	1	1			NoC
520	4	Beryllium	0.19	mg/kg	1	1	0.67	0.00567	NoB
520	4	Bis(2-ethylhexyl)phthalate	0.1	mg/kg	1	1		12.5	NoA
520	4	Cadmium	0.47	mg/kg	1	1	0.21	0.811	NoA
520	4	Calcium	278000	mg/kg	1	1	200000		NoE
520	4	Chromium	38.23	mg/kg	14	3	16	15.6	Yes
520	4	Cobalt	2.3	mg/kg	1	1	14	1.37	NoB
520	4	Copper	242.69	mg/kg	14	4	19	184	Yes
520	4	Fluoranthene	0.69	mg/kg	1	1		109	NoA
520	4	Iron	16751.7	mg/kg	14	14	28000	3220	NoB
520	4	Lead	24.8	mg/kg	14	13	36	400	NoAB
520	4	Magnesium	16200	mg/kg	1	1	7700		NoE
520	4	Manganese	363.5	mg/kg	14	14	1500	419	NoAB
520	4	Mercury	9.69	mg/kg	14	1	0.2	0.213	Yes
520	4	Molybdenum	0.86	mg/kg	14	1		23	NoA
520	4	Nickel	587.23	mg/kg	14	9	21	10.4	Yes
520	4	Phenanthrene	0.32	mg/kg	1	1			NoC
520	4	Pyrene	0.6	mg/kg	1	1		81.2	NoA
520	4	Selenium	4.55	mg/kg	14	1	0.8	23	NoA
520	4	Silver	12.25	mg/kg	14	2	2.3	2.61	Yes
520	4	Sodium	202	mg/kg	1	1	320		NoB
520	4	Thallium	0.1	mg/kg	1	1	0.21	0.368	NoAB
520	4	Total PAH	0.55242	mg/kg	1	1		0.0197	Yes
520	4	Uranium	48.82	mg/kg	14	6	4.9	13.8	Yes
520	4	Vanadium	8.1	mg/kg	1	1	38	0.0365	NoB
520	4	Zinc	372.55	mg/kg	14	14	65	1380	NoA
520	4	Americium-241	0.092	pCi/g	1	1		1.5	NoA
520	4	Cesium-137	0.056	pCi/g	1	1	0.49	0.0267	NoB
520	4	Neptunium-237	0.74	pCi/g	1	1	0.1	0.0839	Yes
520	4	Plutonium-238	0.021	pCi/g	1	1	0.073	3.21	NoAB
520	4	Plutonium-239/240	0.459	pCi/g	1	1	0.025	3.15	NoA
520	4	Technetium-99	4.85	pCi/g	1	1	2.5	101	NoA
520	4	Thorium-228	0.148	pCi/g	1	1	1.6		NoB
520	4	Thorium-230	0.91	pCi/g	1	1	1.5	4.1	NoAB
520	4	Thorium-232	0.134	pCi/g	1	1	1.5		NoB
520	4	Uranium-234	3.69	pCi/g	1	1	1.2	5.47	NoA
520	4	Uranium-235	0.242	pCi/g	1	1	0.06	0.122	Yes
520	4	Uranium-238	6.26	pCi/g	1	1	1.2	0.517	Yes
520	5	Aluminum	6240	mg/kg	1	1	13000	4410	NoB
520	5	Anthracene	0.073	mg/kg	1	1		747	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
520	5	Antimony	0.96	mg/kg	1	1	0.21	0.552	Yes
520	5	Arsenic	5.4	mg/kg	10	1	12	0.238	NoB
520	5	Barium	68	mg/kg	1	1	200	140	NoAB
520	5	Benzo(ghi)perylene	0.15	mg/kg	1	1			NoC
520	5	Beryllium	0.34	mg/kg	1	1	0.67	0.00567	NoB
520	5	Bis(2-ethylhexyl)phthalate	0.072	mg/kg	1	1		12.5	NoA
520	5	Cadmium	0.48	mg/kg	1	1	0.21	0.811	NoA
520	5	Calcium	272000	mg/kg	1	1	200000		NoE
520	5	Chromium	36.82	mg/kg	10	2	16	15.6	Yes
520	5	Cobalt	4.6	mg/kg	1	1	14	1.37	NoB
520	5	Copper	13.3	mg/kg	10	1	19	184	NoAB
520	5	Fluoranthene	0.61	mg/kg	1	1		109	NoA
520	5	Iron	15800	mg/kg	10	10	28000	3220	NoB
520	5	Lead	26.05	mg/kg	10	10	36	400	NoAB
520	5	Magnesium	7140	mg/kg	1	1	7700		NoB
520	5	Manganese	382	mg/kg	10	10	1500	419	NoAB
520	5	Mercury	0.0316	mg/kg	10	1	0.2	0.213	NoAB
520	5	Molybdenum	1.3	mg/kg	10	1		23	NoA
520	5	Nickel	220.42	mg/kg	10	4	21	10.4	Yes
520	5	Phenanthrene	0.27	mg/kg	1	1			NoC
520	5	Pyrene	0.5	mg/kg	1	1		81.2	NoA
520	5	Selenium	0.88	mg/kg	10	1	0.8	23	NoA
520	5	Silver	0.074	mg/kg	10	1	2.3	2.61	NoAB
520	5	Sodium	198	mg/kg	1	1	320		NoB
520	5	Thallium	0.34	mg/kg	1	1	0.21	0.368	NoA
520	5	Total PAH	0.38723	mg/kg	1	1		0.0197	Yes
520	5	Uranium	9.13	mg/kg	10	4	4.9	13.8	NoA
520	5	Vanadium	18.2	mg/kg	1	1	38	0.0365	NoB
520	5	Zinc	73.64	mg/kg	10	10	65	1380	NoA
520	5	Americium-241	0.011	pCi/g	1	1		1.5	NoA
520	5	Cesium-137	0.067	pCi/g	1	1	0.49	0.0267	NoB
520	5	Neptunium-237	0.155	pCi/g	1	1	0.1	0.0839	Yes
520	5	Plutonium-238	0.005	pCi/g	1	1	0.073	3.21	NoAB
520	5	Plutonium-239/240	0.018	pCi/g	1	1	0.025	3.15	NoAB
520	5	Technetium-99	1.14	pCi/g	1	1	2.5	101	NoAB
520	5	Thorium-228	0.51	pCi/g	1	1	1.6		NoB
520	5	Thorium-230	0.72	pCi/g	1	1	1.5	4.1	NoAB
520	5	Thorium-232	0.42	pCi/g	1	1	1.5		NoB
520	5	Uranium-234	1.08	pCi/g	1	1	1.2	5.47	NoAB
520	5	Uranium-235	0.043	pCi/g	1	1	0.06	0.122	NoAB
520	5	Uranium-238	1.45	pCi/g	1	1	1.2	0.517	Yes
81	1	2-Methylnaphthalene	0.082	mg/kg	4	1		13.04	NoA
81	1	Acenaphthene	0.28	mg/kg	4	1		117	NoA
81	1	Aluminum	13000	mg/kg	4	4	13000	4410	Yes
81	1	Anthracene	0.36	mg/kg	4	1		747	NoA
81	1	Antimony	0.41	mg/kg	4	1	0.21	0.552	NoA
81	1	Arsenic	13.71	mg/kg	23	17	12	0.238	Yes
81	1	Barium	106	mg/kg	4	4	200	140	NoAB
81	1	Benzo(ghi)perylene	0.36	mg/kg	4	1			NoC
81	1	Beryllium	1	mg/kg	4	4	0.67	0.00567	Yes
81	1	Bis(2-ethylhexyl)phthalate	0.45	mg/kg	4	1		12.5	NoA
81	1	Cadmium	0.095	mg/kg	1	1	0.21	0.811	NoAB
81	1	Calcium	19100	mg/kg	4	4	200000		NoB
81	1	Chromium	108.06	mg/kg	23	11	16	15.6	Yes
81	1	Cobalt	10.3	mg/kg	4	4	14	1.37	NoB
81	1	Copper	27.18	mg/kg	23	6	19	184	NoA
81	1	Dibenzofuran	0.14	mg/kg	4	1		3.26	NoA

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
81	1	Fluoranthene	1.5	mg/kg	4	1		109	NoA
81	1	Fluorene	0.22	mg/kg	4	1		91.5	NoA
81	1	Iron	25900	mg/kg	23	23	28000	3220	NoB
81	1	Lead	21.9	mg/kg	23	22	36	400	NoAB
81	1	Magnesium	2470	mg/kg	4	3	7700		NoB
81	1	Manganese	1375.28	mg/kg	23	22	1500	419	NoB
81	1	Mercury	8.33	mg/kg	23	2	0.2	0.213	Yes
81	1	Molybdenum	0.98	mg/kg	20	1		23	NoA
81	1	Naphthalene	0.39	mg/kg	4	1		1.15	NoA
81	1	Nickel	81.89	mg/kg	23	7	21	10.4	Yes
81	1	PCB, Total	370	mg/kg	46	33		0.0648	Yes
81	1	Phenanthrene	1.4	mg/kg	4	1			NoC
81	1	Pyrene	1.2	mg/kg	4	1		81.2	NoA
81	1	Selenium	1	mg/kg	23	1	0.8	23	NoA
81	1	Silver	2.7	mg/kg	23	4	2.3	2.61	Yes
81	1	Sodium	64	mg/kg	4	3	320		NoB
81	1	Thallium	0.11	mg/kg	4	1	0.21	0.368	NoAB
81	1	Total PAH	0.77873	mg/kg	4	1		0.0197	Yes
81	1	Uranium	6500	mg/kg	39	20	4.9	13.8	Yes
81	1	Vanadium	29.8	mg/kg	4	3	38	0.0365	NoB
81	1	Zinc	131.88	mg/kg	23	22	65	1380	NoA
81	1	Americium-241	0.011	pCi/g	2	2		1.5	NoA
81	1	Cesium-137	0.088	pCi/g	2	2	0.49	0.0267	NoB
81	1	Neptunium-237	0	pCi/g	2	2	0.1	0.0839	NoAB
81	1	Plutonium-238	0.018	pCi/g	2	2	0.073	3.21	NoAB
81	1	Plutonium-239/240	0.0086	pCi/g	2	2	0.025	3.15	NoAB
81	1	Technetium-99	0.54	pCi/g	2	2	2.5	101	NoAB
81	1	Thorium-228	1.22	pCi/g	2	2	1.6		NoB
81	1	Thorium-230	3.1	pCi/g	2	2	1.5	4.1	NoA
81	1	Thorium-232	1.32	pCi/g	2	2	1.5		NoB
81	1	Uranium-234	2.5	pCi/g	2	2	1.2	5.47	NoA
81	1	Uranium-235	0.112	pCi/g	2	2	0.06	0.122	NoA
81	1	Uranium-238	2.67	pCi/g	2	2	1.2	0.517	Yes
153	1	Aluminum	8680	mg/kg	1	1	13000	4410	NoB
153	1	Antimony	0.3	mg/kg	1	1	0.21	0.552	NoA
153	1	Arsenic	7.4	mg/kg	1	1	12	0.238	NoB
153	1	Barium	92.2	mg/kg	1	1	200	140	NoAB
153	1	Beryllium	0.49	mg/kg	1	1	0.67	0.00567	NoB
153	1	Cadmium	0.066	mg/kg	1	1	0.21	0.811	NoAB
153	1	Calcium	15500	mg/kg	1	1	200000		NoB
153	1	Chromium	15.7	mg/kg	1	1	16	15.6	NoB
153	1	Cobalt	7.3	mg/kg	1	1	14	1.37	NoB
153	1	Copper	10	mg/kg	1	1	19	184	NoAB
153	1	Fluoranthene	0.13	mg/kg	1	1		109	NoA
153	1	Iron	16000	mg/kg	1	1	28000	3220	NoB
153	1	Lead	12	mg/kg	1	1	36	400	NoAB
153	1	Magnesium	2010	mg/kg	1	1	7700		NoB
153	1	Manganese	449	mg/kg	1	1	1500	419	NoB
153	1	Mercury	0.0199	mg/kg	1	1	0.2	0.213	NoAB
153	1	Molybdenum	1	mg/kg	1	1		23	NoA
153	1	Nickel	13.2	mg/kg	1	1	21	10.4	NoB
153	1	PCB, Total	0.6	mg/kg	2	1		0.0648	Yes
153	1	Phenanthrene	0.055	mg/kg	1	1			NoC
153	1	Pyrene	0.091	mg/kg	1	1		81.2	NoA
153	1	Selenium	1.1	mg/kg	1	1	0.8	23	NoA
153	1	Silver	0.034	mg/kg	1	1	2.3	2.61	NoAB
153	1	Sodium	59	mg/kg	1	1	320		NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
153	1	Thallium	0.33	mg/kg	1	1	0.21	0.368	NoA
153	1	Total PAH	0.086913	mg/kg	1	1		0.0197	Yes
153	1	Uranium	3.42	mg/kg	1	1	4.9	13.8	NoAB
153	1	Vanadium	29.2	mg/kg	1	1	38	0.0365	NoB
153	1	Zinc	38.57	mg/kg	1	1	65	1380	NoAB
153	1	Americium-241	0.005	pCi/g	1	1		1.5	NoA
153	1	Cesium-137	0.085	pCi/g	1	1	0.49	0.0267	NoB
153	1	Neptunium-237	-0.0024	pCi/g	1	1	0.1	0.0839	NoAB
153	1	Plutonium-238	0.018	pCi/g	1	1	0.073	3.21	NoAB
153	1	Plutonium-239/240	0.007	pCi/g	1	1	0.025	3.15	NoAB
153	1	Technetium-99	0.32	pCi/g	1	1	2.5	101	NoAB
153	1	Thorium-228	0.78	pCi/g	1	1	1.6		NoB
153	1	Thorium-230	1	pCi/g	1	1	1.5	4.1	NoAB
153	1	Thorium-232	0.9	pCi/g	1	1	1.5		NoB
153	1	Uranium-234	1.2	pCi/g	1	1	1.2	5.47	NoA
153	1	Uranium-235	0.076	pCi/g	1	1	0.06	0.122	NoA
153	1	Uranium-238	1.14	pCi/g	1	1	1.2	0.517	NoB
156	1	Aluminum	8050	mg/kg	1	1	13000	4410	NoB
156	1	Antimony	0.43	mg/kg	1	1	0.21	0.552	NoA
156	1	Arsenic	11.1	mg/kg	12	7	12	0.238	NoB
156	1	Barium	104	mg/kg	1	1	200	140	NoAB
156	1	Benzo(ghi)perylene	0.039	mg/kg	1	1			NoC
156	1	Beryllium	0.52	mg/kg	1	1	0.67	0.00567	NoB
156	1	Bis(2-ethylhexyl)phthalate	0.071	mg/kg	1	1		12.5	NoA
156	1	Cadmium	0.12	mg/kg	1	1	0.21	0.811	NoAB
156	1	Calcium	7500	mg/kg	1	1	200000		NoB
156	1	Chromium	49.03	mg/kg	12	6	16	15.6	Yes
156	1	Cobalt	7.6	mg/kg	1	1	14	1.37	NoB
156	1	Copper	22.97	mg/kg	12	3	19	184	NoA
156	1	Fluoranthene	0.12	mg/kg	1	1		109	NoA
156	1	Iron	15131.27	mg/kg	12	12	28000	3220	NoB
156	1	Lead	41.2	mg/kg	12	12	36	400	NoA
156	1	Magnesium	1340	mg/kg	1	1	7700		NoB
156	1	Manganese	2832.92	mg/kg	12	12	1500	419	Yes
156	1	Mercury	9.87	mg/kg	12	3	0.2	0.213	Yes
156	1	Molybdenum	0.66	mg/kg	12	1		23	NoA
156	1	Nickel	61.61	mg/kg	12	2	21	10.4	Yes
156	1	PCB, Total	0.3	mg/kg	11	1		0.0648	Yes
156	1	Phenanthrene	0.042	mg/kg	1	1			NoC
156	1	Pyrene	0.099	mg/kg	1	1		81.2	NoA
156	1	Selenium	1.3	mg/kg	12	1	0.8	23	NoA
156	1	Silver	0.033	mg/kg	12	1	2.3	2.61	NoAB
156	1	Sodium	70	mg/kg	1	1	320		NoB
156	1	Thallium	0.25	mg/kg	1	1	0.21	0.368	NoA
156	1	Total PAH	0.082604	mg/kg	1	1		0.0197	Yes
156	1	Uranium	23.19	mg/kg	12	5	4.9	13.8	Yes
156	1	Vanadium	25.9	mg/kg	1	1	38	0.0365	NoB
156	1	Zinc	64.42	mg/kg	12	12	65	1380	NoAB
156	1	Americium-241	-0.0044	pCi/g	1	1		1.5	NoA
156	1	Cesium-137	0.041	pCi/g	1	1	0.49	0.0267	NoB
156	1	Neptunium-237	0.0028	pCi/g	1	1	0.1	0.0839	NoAB
156	1	Plutonium-238	0.021	pCi/g	1	1	0.073	3.21	NoAB
156	1	Plutonium-239/240	0.013	pCi/g	1	1	0.025	3.15	NoAB
156	1	Technetium-99	1.94	pCi/g	1	1	2.5	101	NoAB
156	1	Thorium-228	1.14	pCi/g	1	1	1.6		NoB
156	1	Thorium-230	1.02	pCi/g	1	1	1.5	4.1	NoAB
156	1	Thorium-232	1.03	pCi/g	1	1	1.5		NoB

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
156	1	Uranium-234	2	pCi/g	1	1	1.2	5.47	NoA
156	1	Uranium-235	0.116	pCi/g	1	1	0.06	0.122	NoA
156	1	Uranium-238	2.19	pCi/g	1	1	1.2	0.517	Yes
160	1	Aluminum	5130	mg/kg	1	1	13000	4410	NoB
160	1	Antimony	0.68	mg/kg	1	1	0.21	0.552	Yes
160	1	Arsenic	8.22	mg/kg	2	2	12	0.238	NoB
160	1	Barium	147	mg/kg	1	1	200	140	NoB
160	1	Benzo(ghi)perylene	0.042	mg/kg	1	1			NoC
160	1	Beryllium	0.36	mg/kg	1	1	0.67	0.00567	NoB
160	1	Cadmium	0.24	mg/kg	1	1	0.21	0.811	NoA
160	1	Calcium	140000	mg/kg	1	1	200000		NoB
160	1	Chromium	12.6	mg/kg	2	1	16	15.6	NoAB
160	1	Cobalt	3.6	mg/kg	1	1	14	1.37	NoB
160	1	Copper	6.1	mg/kg	2	1	19	184	NoAB
160	1	Fluoranthene	0.054	mg/kg	1	1		109	NoA
160	1	Iron	11672.43	mg/kg	2	2	28000	3220	NoB
160	1	Lead	13.95	mg/kg	2	2	36	400	NoAB
160	1	Magnesium	6220	mg/kg	1	1	7700		NoB
160	1	Manganese	332.71	mg/kg	2	2	1500	419	NoAB
160	1	Molybdenum	0.77	mg/kg	2	1		23	NoA
160	1	Nickel	7.7	mg/kg	2	1	21	10.4	NoAB
160	1	Pyrene	0.052	mg/kg	1	1		81.2	NoA
160	1	Selenium	0.8	mg/kg	2	1	0.8	23	NoA
160	1	Silver	0.042	mg/kg	2	1	2.3	2.61	NoAB
160	1	Sodium	73.5	mg/kg	1	1	320		NoB
160	1	Thallium	0.3	mg/kg	1	1	0.21	0.368	NoA
160	1	Total PAH	0.052907	mg/kg	1	1		0.0197	Yes
160	1	Uranium	2.32	mg/kg	3	2	4.9	13.8	NoAB
160	1	Vanadium	15.9	mg/kg	1	1	38	0.0365	NoB
160	1	Zinc	43.75	mg/kg	2	2	65	1380	NoAB
160	1	Americium-241	0.002	pCi/g	2	2		1.5	NoA
160	1	Cesium-137	0.016	pCi/g	2	2	0.49	0.0267	NoAB
160	1	Neptunium-237	0.0017	pCi/g	2	2	0.1	0.0839	NoAB
160	1	Plutonium-238	0.023	pCi/g	2	2	0.073	3.21	NoAB
160	1	Plutonium-239/240	0.01	pCi/g	2	2	0.025	3.15	NoAB
160	1	Technetium-99	17	pCi/g	3	3	2.5	101	NoA
160	1	Thorium-228	0.66	pCi/g	2	2	1.6		NoB
160	1	Thorium-230	0.93	pCi/g	2	2	1.5	4.1	NoAB
160	1	Thorium-232	0.79	pCi/g	2	2	1.5		NoB
160	1	Uranium-234	0.75	pCi/g	2	2	1.2	5.47	NoAB
160	1	Uranium-235	0.032	pCi/g	2	2	0.06	0.122	NoAB
160	1	Uranium-238	0.78	pCi/g	2	2	1.2	0.517	NoB
163	1	Aluminum	8660	mg/kg	2	2	13000	4410	NoB
163	1	Anthracene	0.116	mg/kg	2	1		747	NoA
163	1	Antimony	0.34	mg/kg	2	1	0.21	0.552	NoA
163	1	Arsenic	9.48	mg/kg	4	2	12	0.238	NoB
163	1	Barium	114	mg/kg	2	2	200	140	NoAB
163	1	Benzo(ghi)perylene	0.166	mg/kg	2	1			NoC
163	1	Beryllium	0.46	mg/kg	2	1	0.67	0.00567	NoB
163	1	Bis(2-ethylhexyl)phthalate	0.17	mg/kg	2	1		12.5	NoA
163	1	Cadmium	0.1	mg/kg	2	1	0.21	0.811	NoAB
163	1	Calcium	15600	mg/kg	1	1	200000		NoB
163	1	Chromium	49.44	mg/kg	4	3	16	15.6	Yes
163	1	Cobalt	7.3	mg/kg	2	2	14	1.37	NoB
163	1	Copper	13.6	mg/kg	4	2	19	184	NoAB
163	1	Diethyl phthalate	0.4	mg/kg	2	1		2607	NoA
163	1	Fluoranthene	0.31	mg/kg	2	2		109	NoA

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COPC = chemical of potential concern

NAL = no action limit

A = <Child Resident NAL B = <Background

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E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
163	1	Iron	17420.41	mg/kg	4	4	28000	3220	NoB
163	1	Lead	19.48	mg/kg	4	3	36	400	NoAB
163	1	Magnesium	17000	mg/kg	2	2	7700		NoE
163	1	Manganese	353	mg/kg	4	4	1500	419	NoAB
163	1	Mercury	0.0286	mg/kg	4	1	0.2	0.213	NoAB
163	1	Molybdenum	0.79	mg/kg	3	1		23	NoA
163	1	Nickel	14.2	mg/kg	4	1	21	10.4	NoB
163	1	Pyrene	0.295	mg/kg	2	1		81.2	NoA
163	1	Selenium	1.3	mg/kg	4	1	0.8	23	NoA
163	1	Silver	0.031	mg/kg	4	1	2.3	2.61	NoAB
163	1	Sodium	34.9	mg/kg	2	1	320		NoB
163	1	Thallium	0.12	mg/kg	2	1	0.21	0.368	NoAB
163	1	Total PAH	0.28507	mg/kg	2	2		0.0197	Yes
163	1	Uranium	2.71	mg/kg	4	2	4.9	13.8	NoAB
163	1	Vanadium	27	mg/kg	2	2	38	0.0365	NoB
163	1	Zinc	60.65	mg/kg	4	4	65	1380	NoAB
163	1	Americium-241	0.0012	pCi/g	2	2		1.5	NoA
163	1	Cesium-137	0.089	pCi/g	2	2	0.49	0.0267	NoB
163	1	Neptunium-237	0.006	pCi/g	2	2	0.1	0.0839	NoAB
163	1	Plutonium-238	0.0037	pCi/g	2	2	0.073	3.21	NoAB
163	1	Plutonium-239/240	0.011	pCi/g	2	2	0.025	3.15	NoAB
163	1	Technetium-99	0.41	pCi/g	3	3	2.5	101	NoAB
163	1	Thorium-228	0.93	pCi/g	2	2	1.6		NoB
163	1	Thorium-230	0.96	pCi/g	2	2	1.5	4.1	NoAB
163	1	Thorium-232	0.88	pCi/g	2	2	1.5		NoB
163	1	Uranium-234	0.82	pCi/g	2	2	1.2	5.47	NoAB
163	1	Uranium-235	0.061	pCi/g	2	2	0.06	0.122	NoA
163	1	Uranium-238	0.9	pCi/g	2	2	1.2	0.517	NoB
219	1	Aluminum	5480	mg/kg	1	1	13000	4410	NoB
219	1	Antimony	0.38	mg/kg	1	1	0.21	0.552	NoA
219	1	Arsenic	3.4	mg/kg	1	1	12	0.238	NoB
219	1	Barium	87	mg/kg	1	1	200	140	NoAB
219	1	Beryllium	0.28	mg/kg	1	1	0.67	0.00567	NoB
219	1	Cadmium	0.24	mg/kg	1	1	0.21	0.811	NoA
219	1	Calcium	79100	mg/kg	1	1	200000		NoB
219	1	Chromium	10.8	mg/kg	1	1	16	15.6	NoAB
219	1	Cobalt	3.7	mg/kg	1	1	14	1.37	NoB
219	1	Copper	12.4	mg/kg	1	1	19	184	NoAB
219	1	Fluoranthene	0.12	mg/kg	1	1		109	NoA
219	1	Iron	8780	mg/kg	1	1	28000	3220	NoB
219	1	Lead	16.18	mg/kg	1	1	36	400	NoAB
219	1	Magnesium	2630	mg/kg	1	1	7700		NoB
219	1	Manganese	212	mg/kg	1	1	1500	419	NoAB
219	1	Mercury	0.0259	mg/kg	1	1	0.2	0.213	NoAB
219	1	Molybdenum	0.34	mg/kg	1	1		23	NoA
219	1	Nickel	67.13	mg/kg	1	1	21	10.4	Yes
219	1	Phenanthrene	0.074	mg/kg	1	1			NoC
219	1	Pyrene	0.1	mg/kg	1	1		81.2	NoA
219	1	Selenium	1.1	mg/kg	1	1	0.8	23	NoA
219	1	Silver	0.056	mg/kg	1	1	2.3	2.61	NoAB
219	1	Sodium	86.4	mg/kg	1	1	320		NoB
219	1	Thallium	0.13	mg/kg	1	1	0.21	0.368	NoAB
219	1	Total PAH	0.075039	mg/kg	1	1		0.0197	Yes
219	1	Uranium	13.2	mg/kg	2	2	4.9	13.8	NoA
219	1	Vanadium	15.2	mg/kg	1	1	38	0.0365	NoB
219	1	Zinc	48.99	mg/kg	1	1	65	1380	NoAB
219	1	Americium-241	0.012	pCi/g	2	2		1.5	NoA

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A = <Child Resident NAL B = <Background

C = no NAL available D = Rad daughter

E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
219	1	Cesium-137	0.092	pCi/g	2	2	0.49	0.0267	NoB
219	1	Neptunium-237	0.331	pCi/g	2	2	0.1	0.0839	Yes
219	1	Plutonium-238	0.01	pCi/g	2	2	0.073	3.21	NoAB
219	1	Plutonium-239/240	0.032	pCi/g	2	2	0.025	3.15	NoA
219	1	Technetium-99	10	pCi/g	2	2	2.5	101	NoA
219	1	Thorium-228	0.84	pCi/g	2	2	1.6		NoB
219	1	Thorium-230	1.01	pCi/g	2	2	1.5	4.1	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
219	1	Thorium-232	0.92	pCi/g	2	2	1.5		NoB
219	1	Uranium-234	2.54	pCi/g	2	2	1.2	5.47	NoA
219	1	Uranium-235	0.192	pCi/g	2	2	0.06	0.122	Yes
219	1	Uranium-238	4.4	pCi/g	2	2	1.2	0.517	Yes
488	1	Acenaphthene	0.041	mg/kg	1	1		117	NoA
488	1	Aluminum	7410	mg/kg	1	1	13000	4410	NoB
488	1	Anthracene	0.066	mg/kg	1	1		747	NoA
488	1	Antimony	0.31	mg/kg	1	1	0.21	0.552	NoA
488	1	Arsenic	8.89	mg/kg	5	2	12	0.238	NoB
488	1	Barium	99.3	mg/kg	1	1	200	140	NoAB
488	1	Benzo(ghi)perylene	0.09	mg/kg	1	1			NoC
488	1	Beryllium	0.52	mg/kg	1	1	0.67	0.00567	NoB
488	1	Bis(2-ethylhexyl)phthalate	0.17	mg/kg	1	1		12.5	NoA
488	1	Cadmium	0.18	mg/kg	1	1	0.21	0.811	NoAB
488	1	Calcium	3110	mg/kg	1	1	200000		NoB
488	1	Chromium	14.1	mg/kg	5	1	16	15.6	NoAB
488	1	Cobalt	5	mg/kg	1	1	14	1.37	NoB
488	1	Copper	10.6	mg/kg	5	1	19	184	NoAB
488	1	Fluoranthene	0.47	mg/kg	1	1		109	NoA
488	1	Iron	12700	mg/kg	5	5	28000	3220	NoB
488	1	Lead	27.43	mg/kg	5	4	36	400	NoAB
488	1	Magnesium	1020	mg/kg	1	1	7700		NoB
488	1	Manganese	364.29	mg/kg	5	5	1500	419	NoAB
488	1	Mercury	0.0503	mg/kg	5	1	0.2	0.213	NoAB
488	1	Molybdenum	0.55	mg/kg	5	1		23	NoA
488	1	Nickel	11.9	mg/kg	5	1	21	10.4	NoB
488	1	PCB, Total	10.3	mg/kg	5	1		0.0648	Yes
488	1	Phenanthrene	0.33	mg/kg	1	1			NoC
488	1	Pyrene	0.39	mg/kg	1	1		81.2	NoA
488	1	Selenium	1.6	mg/kg	5	1	0.8	23	NoA
488	1	Silver	0.085	mg/kg	5	1	2.3	2.61	NoAB
488	1	Sodium	30.5	mg/kg	1	1	320		NoB
488	1	Thallium	0.22	mg/kg	1	1	0.21	0.368	NoA
488	1	Total PAH	0.24975	mg/kg	1	1		0.0197	Yes
488	1	Uranium	14.8	mg/kg	6	3	4.9	13.8	Yes
488	1	Vanadium	24.7	mg/kg	1	1	38	0.0365	NoB
488	1	Zinc	46.26	mg/kg	5	5	65	1380	NoAB
488	1	Americium-241	0.025	pCi/g	2	2		1.5	NoA
488	1	Cesium-137	0.52	pCi/g	2	2	0.49	0.0267	Yes
488	1	Neptunium-237	0.071	pCi/g	2	2	0.1	0.0839	NoAB
488	1	Plutonium-238	0.024	pCi/g	2	2	0.073	3.21	NoAB
488	1	Plutonium-239/240	0.062	pCi/g	2	2	0.025	3.15	NoA
488	1	Technetium-99	1.66	pCi/g	2	2	2.5	101	NoAB
488	1	Thorium-228	0.88	pCi/g	2	2	1.6		NoB
488	1	Thorium-230	1.47	pCi/g	2	2	1.5	4.1	NoAB
488	1	Thorium-232	0.87	pCi/g	2	2	1.5		NoB
488	1	Uranium-234	2.84	pCi/g	2	2	1.2	5.47	NoA
488	1	Uranium-235	0.149	pCi/g	2	2	0.06	0.122	Yes
488	1	Uranium-238	4.54	pCi/g	2	2	1.2	0.517	Yes

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