Table D.4. Surface Soil COPCs

SWMU	EU	Chemical	Maximum Concentration	Units	# of Analyses	# of Detects	Surface Background Concentration	Child Resident NAL	COPC?
13	1	Aluminum	5300	mg/kg	1	1	13000	7740	NoAB
13	1	Antimony	0.21	mg/kg	1	1	0.21	3.13	NoA
13	1	Arsenic	6.1	mg/kg	16	1	12	0.267	NoB
13	1	Barium	120	mg/kg	1	1	200	1530	NoAB
13	1	Beryllium	0.56	mg/kg	1	1	0.67	15.6	NoAB
13	1	Cadmium	0.057	mg/kg	1	1	0.21	5.07	NoAB
13	1	Calcium	2000	mg/kg	1	1	200000		NoBE
13	1	Chromium	9.4	mg/kg	16	1	16	16.4	NoAB
13	1	Cobalt	7.8	mg/kg	1	1	14	2.34	NoB
13	1	Copper	51	mg/kg	16	16	19	313	NoA
13	1	Iron	27037	mg/kg	16	16	28000	5480	NoB
13	1	Lead	87	mg/kg	16	3	36	400	NoA
13	1	Magnesium	650	mg/kg	1	1	7700		NoBE
13	1	Manganese	1000	mg/kg	16	16	1500	183	NoB
13	1	Molybdenum	34	mg/kg	16	2		39.1	NoA
13	1	Nickel	29	mg/kg	16	13	21	155	NoA
13	1	Selenium	1.2	mg/kg	16	1	0.8	39.1	NoA
13	1	Silver	0.041	mg/kg	16	1	2.3	39.1	NoAB
13	1	Sodium	54	mg/kg	1	1	320		NoBE
13	1	Thallium	0.12	mg/kg	1	1	0.21	0.0782	NoB
13	1	Uranium	1.6	mg/kg	16	1	4.9	23.4	NoAB
13	1	Vanadium	103	mg/kg	16	16	38	39.3	Yes
13	1	Zinc	866	mg/kg	16	16	65	2350	NoA
13	1	Plutonium-239/240	0.0152	pCi/g	1	1	0.025	3.87	NoAB
13	1	Thorium-228	1.2	pCi/g	1	1	1.6	31.6	NoAB
13	1	Thorium-230	1.2	pCi/g	1	1	1.5	5.22	NoAB
13	1	Thorium-232	1.2	pCi/g	1	1	1.5	4.24	NoAB
13	1	Uranium-234	1.11	pCi/g	1	1	1.2	5.93	NoAB
13	1	Uranium-235	0.107	pCi/g	1	1	0.06	0.347	NoA
13	1	Uranium-238	1.13	pCi/g	1	1	1.2	1.28	NoAB
13	10	Aluminum	6600	mg/kg	1	1	13000	7740	NoAB
13	10	Antimony	0.14	mg/kg	1	1	0.21	3.13	NoAB
13	10	Arsenic	4.8	mg/kg	9	1	12	0.267	NoB
13	10	Barium	100	mg/kg	1	1	200	1530	NoAB
13	10	Beryllium	0.39	mg/kg	1	1	0.67	15.6	NoAB
13	10	Cadmium	0.025	mg/kg	1	1	0.21	5.07	NoAB
13	10	Calcium	700	mg/kg	1	1	200000		NoBE
13	10	Chromium	8.6	mg/kg	9	1	16	16.4	NoAB
13	10	Cobalt	6	mg/kg	1	1	14	2.34	NoB
13	10	Copper	41	mg/kg	9	9	19	313	NoA
13	10	Iron	37986	mg/kg	9	9	28000	5480	Yes
13	10	Lead	12	mg/kg	9	1	36	400	NoAB
13	10	Magnesium	640	mg/kg	1	1	7700		NoBE
13	10	Manganese	3088	mg/kg	9	9	1500	183	Yes
13	10	Mercury	0.051	mg/kg	9	1	0.2	2.35	NoAB
13	10	Molybdenum	31	mg/kg	9	3		39.1	NoA
13	10	Nickel	22	mg/kg	9	5	21	155	NoA
13	10	PAH, Total	0.00013	mg/kg	1	1		0.00619	NoA
13	10	Selenium	5	mg/kg	9	2	0.8	39.1	NoA
13	10	Silver	54	mg/kg	9	1	2.3	39.1	Yes
13	10	Sodium	85	mg/kg	1	1	320		NoBE
13	10	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
13	10	Uranium	0.88	mg/kg	9	1	4.9	23.4	NoAB
13	10	Vanadium	130	mg/kg	9	9	38	39.3	Yes
13	10	Zinc	41	mg/kg	9	9	65	2350	NoAB
13	10	Thorium-228	1.11	pCi/g	1	1	1.6	31.6	NoAB
13	10	Thorium-230	1.23	pCi/g	1	1	1.5	5.22	NoAB
13	10	Thorium-232	1.04	pCi/g	1	1	1.5	4.24	NoAB
13	10	Uranium-234	0.942	pCi/g	1	1	1.2	5.93	NoAB
13	10	Uranium-235	0.0777	pCi/g	1	1	0.06	0.347	NoA
13	10	Uranium-238	1.01	pCi/g	1	1	1.2	1.28	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?
13	11	Aluminum	5680	mg/kg	3	3	13000	7740	NoAB
13	11	Antimony	0.13	mg/kg	3	1	0.21	3.13	NoAB
13	11	Arsenic	6.1	mg/kg	13	1	12	0.267	NoB
13	11	Barium	110	mg/kg	3	3	200	1530	NoAB
13	11	Beryllium	0.54	mg/kg	3	1	0.67	15.6	NoAB
13	11	Cadmium	0.047	mg/kg	3	1	0.21	5.07	NoAB
13	11	Calcium	2700	mg/kg	3	3	200000		NoBE
13	11	Chromium	9.58	mg/kg	13	3	16	16.4	NoAB
13	11	Cobalt	11	mg/kg	3	3	14	2.34	NoB
13	11	Copper	64	mg/kg	13	12	19	313	NoA
13	11	Iron	25806	mg/kg	13	13	28000	5480	NoB
13	11	Lead	11	mg/kg	13	1	36	400	NoAB
13	11	Magnesium	580	mg/kg	3	3	7700		NoBE
13	11	Manganese	1200	mg/kg	13	13	1500	183	NoB
13	11	Mercury	0.047	mg/kg	13	1	0.2	2.35	NoAB
13	11	Molybdenum	34	mg/kg	11	3		39.1	NoA
13	11	Nickel	25	mg/kg	13	10	21	155	NoA
13	11	PAH, Total	0.00345	mg/kg	3	1		0.00619	NoA
13	11	PCB, Total	0.7	mg/kg	13	1		0.0782	Yes
13	11	Selenium	0.94	mg/kg	13	1	0.8	39.1	NoA
13	11	Silver	42	mg/kg	13	2	2.3	39.1	Yes
13	11	Sodium	57	mg/kg	1	1	320		NoBE
13	11	Thallium	0.1	mg/kg	3	1	0.21	0.0782	NoB
13	11	Uranium	1.2	mg/kg	13	1	4.9	23.4	NoAB
13	11	Vanadium	138	mg/kg	13	13	38	39.3	Yes
13	11	Zinc	81	mg/kg	13	13	65	2350	NoA
13	11	Thorium-228	1.02	pCi/g	3	3	1.6	31.6	NoAB
13	11	Thorium-230	1.08	pCi/g	3	3	1.5	5.22	NoAB
13	11	Thorium-232	1.11	pCi/g	3	3	1.5	4.24	NoAB
13	11	Uranium-234	0.901	pCi/g	2	1	1.2	5.93	NoAB
13	11	Uranium-235	0.0391	pCi/g	3	1	0.06	0.347	NoAB
13	11	Uranium-238	0.974	pCi/g	2	2	1.2	1.28	NoAB
13	12	Aluminum	5730	mg/kg	2	2	13000	7740	NoAB
13	12	Antimony	0.092	mg/kg	2	1	0.21	3.13	NoAB
13	12	Arsenic	3.5	mg/kg	12	1	12	0.267	NoB
13	12	Barium	88	mg/kg	2	2	200	1530	NoAB
13	12	Beryllium	0.4	mg/kg	2	1	0.67	15.6	NoAB
13	12	Cadmium	0.046	mg/kg	2	1	0.21	5.07	NoAB
13	12	Calcium	1000	mg/kg	2	2	200000		NoBE
13	12	Chromium	7.89	mg/kg	12	2	16	16.4	NoAB
13	12	Cobalt	12	mg/kg	2	2	14	2.34	NoB
13	12	Copper	159	mg/kg	12	11	19	313	NoA
13	12	Iron	30409	mg/kg	12	12	28000	5480	Yes
13	12	Lead	90	mg/kg	12	2	36	400	NoA
13	12	Lithium	5.13	mg/kg	1	1		15.6	NoA
13	12	Magnesium	544	mg/kg	2	2	7700		NoBE
13	12	Manganese	3114	mg/kg	12	12	1500	183	Yes
13	12	Mercury	0.034	mg/kg	12	1	0.2	2.35	NoAB
13	12	Molybdenum	31	mg/kg	11	2		39.1	NoA
13	12	Nickel	61	mg/kg	12	9	21	155	NoA
13	12	PAH, Total	0.00062	mg/kg	2	1		0.00619	NoA
13	12	Selenium	0.86	mg/kg	12	1	0.8	39.1	NoA
13	12	Silver	124	mg/kg	12	1	2.3	39.1	Yes
13	12	Sodium	61	mg/kg	1	1	320		NoBE
13	12	Thallium	0.097	mg/kg	2	1	0.21	0.0782	NoB
13	12	Uranium	0.91	mg/kg	12	1	4.9	23.4	NoAB
13	12	Vanadium	151	mg/kg	12	12	38	39.3	Yes
13	12	Zinc	183	mg/kg	12	12	65	2350	NoA
13	12	Plutonium-238	0.0167	pCi/g	2	1	0.073	4.42	NoAB
13	12	Thorium-228	1.13	pCi/g	2	2	1.6	31.6	NoAB
13	12	Thorium-230	1.11	pCi/g	2	2	1.5	5.22	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?
13	12	Thorium-232	1.07	pCi/g	2	2	1.5	4.24	NoAB
13	12	Uranium-234	0.875	pCi/g	2	1	1.2	5.93	NoAB
13	12	Uranium-235	0.0457	pCi/g	2	2	0.06	0.347	NoAB
13	12	Uranium-238	1.07	pCi/g	2	2	1.2	1.28	NoAB
13	13	Aluminum	4300	mg/kg	1	1	13000	7740	NoAB
13	13	Antimony	0.099	mg/kg	1	1	0.21	3.13	NoAB
13	13	Arsenic	3.4	mg/kg	11	1	12	0.267	NoB
13	13	Barium	98	mg/kg	1	1	200	1530	NoAB
13	13	Beryllium	0.37	mg/kg	1	1	0.67	15.6	NoAB
13	13	Cadmium	0.032	mg/kg	1	1	0.21	5.07	NoAB
13	13	Calcium	880	mg/kg	1	1	200000		NoBE
13	13	Chromium	6.7	mg/kg	11	1	16	16.4	NoAB
13	13	Cobalt	5.2	mg/kg	1	1	14	2.34	NoB
13	13	Copper	47	mg/kg	11	10	19	313	NoA
13	13	Iron	47830	mg/kg	11	11	28000	5480	Yes
13	13	Lead	11	mg/kg	11	1	36	400	NoAB
13	13	Magnesium	530	mg/kg	1	1	7700		NoBE
13	13	Manganese	1951	mg/kg	11	11	1500	183	Yes
13	13	Mercury	0.043	mg/kg	11	1	0.2	2.35	NoAB
13	13	Molybdenum	43	mg/kg	11	3		39.1	Yes
13	13	Nickel	19	mg/kg	11	10	21	155	NoAB
13	13	PAH, Total	0.00565	mg/kg	1	1		0.00619	NoA
13	13	Selenium	0.79	mg/kg	11	1	0.8	39.1	NoAB
13	13	Silver	0.047	mg/kg	11	1	2.3	39.1	NoAB
13	13	Sodium	58	mg/kg	1	1	320		NoBE
13	13	Thallium	0.1	mg/kg	1	1	0.21	0.0782	NoB
13	13	Uranium	1.9	mg/kg	11	1	4.9	23.4	NoAB
13	13	Vanadium	145	mg/kg	11	11	38	39.3	Yes
13	13	Zinc	97	mg/kg	11	11	65	2350	NoA
13	13	Plutonium-238	0.0195	pCi/g	1	1	0.073	4.42	NoAB
13	13	Plutonium-239/240	0.00586	pCi/g	1	1	0.025	3.87	NoAB
13	13	Thorium-228	1.05	pCi/g	1	1	1.6	31.6	NoAB
13	13	Thorium-230	1.17	pCi/g	1	1	1.5	5.22	NoAB
13	13	Thorium-232	1.03	pCi/g	1	1	1.5	4.24	NoAB
13	13	Uranium-234	0.962	pCi/g	1	1	1.2	5.93	NoAB
13	13	Uranium-235	0.0486	pCi/g	1	1	0.06	0.347	NoAB
13	13	Uranium-238	1.12	pCi/g	1	1	1.2	1.28	NoAB
13	14	Aluminum	4700	mg/kg	1	1	13000	7740	NoAB
13	14	Antimony	0.15	mg/kg	1	1	0.21	3.13	NoAB
13	14	Arsenic	5.2	mg/kg	12	1	12	0.267	NoB
13	14	Barium	89	mg/kg	1	1	200	1530	NoAB
13	14	Beryllium	0.43	mg/kg	1	1	0.67	15.6	NoAB
13	14	Cadmium	0.18	mg/kg	1	1	0.21	5.07	NoAB
13	14	Calcium	7900	mg/kg	1	1	200000		NoBE
13	14	Chromium	8.1	mg/kg	12	1	16	16.4	NoAB
13	14	Cobalt	5.6	mg/kg	1	1	14	2.34	NoB
13	14	Copper	47	mg/kg	12	11	19	313	NoA
13	14	Fluoranthene	0.14	mg/kg	1	1		114	NoA
13	14	Iron	26158	mg/kg	12	12	28000	5480	NoB
13	14	Lead	12	mg/kg	12	1	36	400	NoAB
13	14	Magnesium	1100	mg/kg	1	1	7700		NoBE
13	14	Manganese	835	mg/kg	12	12	1500	183	NoB
13	14	Mercury	0.046	mg/kg	12	1	0.2	2.35	NoAB
13	14	Molybdenum	0.41	mg/kg	12	1		39.1	NoA
13	14	Nickel	23	mg/kg	12	10	21	155	NoA
13	14	PAH, Total	0.0327	mg/kg	1	1		0.00619	Yes
13	14	PCB, Total	0.22	mg/kg	12	1		0.0782	Yes
13	14	Pyrene	0.15	mg/kg	1	1		85.4	NoA
13	14	Selenium	0.91	mg/kg	12	1	0.8	39.1	NoA
13	14	Silver	34	mg/kg	12	2	2.3	39.1	NoA
13	14	Sodium	65	mg/kg	1	1	320		NoBE

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?
13	14	Thallium	0.11	mg/kg	1	1	0.21	0.0782	NoB
13	14	Uranium	3.8	mg/kg	12	1	4.9	23.4	NoAB
13	14	Vanadium	158	mg/kg	12	12	38	39.3	Yes
13	14	Zinc	84	mg/kg	12	12	65	2350	NoA
13	14	Neptunium-237	0.0728	pCi/g	1	1	0.1	0.239	NoAB
13	14	Plutonium-238	0.0129	pCi/g	1	1	0.073	4.42	NoAB
13	14	Technetium-99	2.56	pCi/g	1	1	2.5	117	NoA
13	14	Thorium-228	1.06	pCi/g	1	1	1.6	31.6	NoAB
13	14	Thorium-230	1.21	pCi/g	1	1	1.5	5.22	NoAB
13	14	Thorium-232	0.957	pCi/g	1	1	1.5	4.24	NoAB
13	14	Uranium-234	1.84	pCi/g	1	1	1.2	5.93	NoA
13	14	Uranium-235	0.117	pCi/g	1	1	0.06	0.347	NoA
13	14	Uranium-238	2.07	pCi/g	1	1	1.2	1.28	Yes
13	2	Aluminum	6000	mg/kg	1	1	13000	7740	NoAB
13	2	Antimony	0.16	mg/kg	1	1	0.21	3.13	NoAB
13	2	Arsenic	9.3	mg/kg	12	1	12	0.267	NoB
13	2	Barium	120	mg/kg	1	1	200	1530	NoAB
13	2	Beryllium	0.62	mg/kg	1	1	0.67	15.6	NoAB
13	2	Cadmium	0.065	mg/kg	1	1	0.21	5.07	NoAB
13	2	Calcium	4800	mg/kg	1	1	200000		NoBE
13	2	Chromium	10	mg/kg	12	1	16	16.4	NoAB
13	2	Cobalt	7.2	mg/kg	1	1	14	2.34	NoB
13	2	Copper	45	mg/kg	12	9	19	313	NoA
13	2	Iron	30751	mg/kg	12	12	28000	5480	Yes
13	2	Lead	152	mg/kg	12	2	36	400	NoA
13	2	Magnesium	800	mg/kg	1	1	7700		NoBE
13	2	Manganese	2156	mg/kg	12	12	1500	183	Yes
13	2	Mercury	0.047	mg/kg	12	1	0.2	2.35	NoAB
13	2	Molybdenum	0.47	mg/kg	12	1		39.1	NoA
13	2	Nickel	39	mg/kg	12	10	21	155	NoA
13	2	PAH, Total	0.00035	mg/kg	1	1		0.00619	NoA
13	2	Selenium	1	mg/kg	12	1	0.8	39.1	NoA
13	2	Silver	0.036	mg/kg	12	1	2.3	39.1	NoAB
13	2	Sodium	56	mg/kg	1	1	320		NoBE
13	2	Thallium	0.13	mg/kg	1	1	0.21	0.0782	NoB
13	2	Uranium	1.5	mg/kg	12	1	4.9	23.4	NoAB
13	2	Vanadium	108	mg/kg	12	12	38	39.3	Yes
13	2	Zinc	124	mg/kg	12	12	65	2350	NoA
13	2	Plutonium-238	0.0188	pCi/g	1	1	0.073	4.42	NoAB
13	2	Plutonium-239/240	0.025	pCi/g	1	1	0.025	3.87	NoA
13	2	Thorium-228	1.14	pCi/g	1	1	1.6	31.6	NoAB
13	2	Thorium-230	1.2	pCi/g	1	1	1.5	5.22	NoAB
13	2	Thorium-232	1.11	pCi/g	1	1	1.5	4.24	NoAB
13	2	Uranium-234	1.34	pCi/g	1	1	1.2	5.93	NoA
13	2	Uranium-235	0.072	pCi/g	1	1	0.06	0.347	NoA
13	2	Uranium-238	1.4	pCi/g	1	1	1.2	1.28	Yes
13	3	Aluminum	6400	mg/kg	1	1	13000	7740	NoAB
13	3	Antimony	0.14	mg/kg	1	1	0.21	3.13	NoAB
13	3	Arsenic	6.6	mg/kg	12	1	12	0.267	NoB
13	3	Barium	130	mg/kg	1	1	200	1530	NoAB
13	3	Beryllium	0.53	mg/kg	1	1	0.67	15.6	NoAB
13	3	Cadmium	0.033	mg/kg	1	1	0.21	5.07	NoAB
13	3	Calcium	4900	mg/kg	1	1	200000		NoBE
13	3	Chromium	9.5	mg/kg	12	1	16	16.4	NoAB
13	3	Cobalt	5	mg/kg	1	1	14	2.34	NoB
13	3	Copper	186	mg/kg	12	11	19	313	NoA
13	3	Iron	41021	mg/kg	12	12	28000	5480	Yes
13	3	Lead	484	mg/kg	12	2	36	400	Yes
13	3	Magnesium	770	mg/kg	1	1	7700		NoBE
13	3	Manganese	2248	mg/kg	12	12	1500	183	Yes
13	3	Mercury	0.046	mg/kg	12	1	0.2	2.35	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?
13	3	Molybdenum	42	mg/kg	12	2		39.1	Yes
13	3	Nickel	80	mg/kg	12	9	21	155	NoA
13	3	PAH, Total	0.02152	mg/kg	1	1		0.00619	Yes
13	3	Selenium	0.97	mg/kg	12	1	0.8	39.1	NoA
13	3	Silver	0.035	mg/kg	12	1	2.3	39.1	NoAB
13	3	Sodium	50	mg/kg	1	1	320		NoBE
13	3	Thallium	0.12	mg/kg	1	1	0.21	0.0782	NoB
13	3	Uranium	1.3	mg/kg	12	1	4.9	23.4	NoAB
13	3	Vanadium	116	mg/kg	12	12	38	39.3	Yes
13	3	Zinc	1043	mg/kg	12	12	65	2350	NoA
13	3	Thorium-228	1.15	pCi/g	1	1	1.6	31.6	NoAB
13	3	Thorium-230	1.33	pCi/g	1	1	1.5	5.22	NoAB
13	3	Thorium-232	1.1	pCi/g	1	1	1.5	4.24	NoAB
13	3	Uranium-234	0.806	pCi/g	1	1	1.2	5.93	NoAB
13	3	Uranium-235	0.0702	pCi/g	1	1	0.06	0.347	NoA
13	3	Uranium-238	1.01	pCi/g	1	1	1.2	1.28	NoAB
13	4	Aluminum	7660	mg/kg	2	2	13000	7740	NoAB
13	4	Antimony	0.18	mg/kg	2	1	0.21	3.13	NoAB
13	4	Arsenic	6.4	mg/kg	12	1	12	0.267	NoB
13	4	Barium	110	mg/kg	2	2	200	1530	NoAB
13	4	Beryllium	0.41	mg/kg	2	1	0.67	15.6	NoAB
13	4	Cadmium	0.19	mg/kg	2	1	0.21	5.07	NoAB
13	4	Calcium	6200	mg/kg	2	2	200000		NoBE
13	4	Chromium	11.9	mg/kg	12	2	16	16.4	NoAB
13	4	Cobalt	9	mg/kg	2	2	14	2.34	NoB
13	4	Copper	107	mg/kg	12	12	19	313	NoA
13	4	Iron	36780	mg/kg	12	12	28000	5480	Yes
13	4	Lead	273	mg/kg	12	5	36	400	NoA
13	4	Lithium	6.07	mg/kg	1	1		15.6	NoA
13	4	Magnesium	741	mg/kg	2	2	7700		NoBE
13	4	Manganese	1453	mg/kg	12	12	1500	183	NoB
13	4	Mercury	0.052	mg/kg	12	1	0.2	2.35	NoAB
13	4	Molybdenum	0.54	mg/kg	11	1		39.1	NoA
13	4	Nickel	58	mg/kg	12	11	21	155	NoA
13	4	PAH, Total	0.0511	mg/kg	2	1		0.00619	Yes
13	4	PCB, Total	0.1	mg/kg	12	1		0.0782	Yes
13	4	Selenium	0.89	mg/kg	12	1	0.8	39.1	NoA
13	4	Silver	0.05	mg/kg	12	1	2.3	39.1	NoAB
13	4	Sodium	45	mg/kg	1	1	320		NoBE
13	4	Thallium	0.12	mg/kg	2	1	0.21	0.0782	NoB
13	4	Uranium	4	mg/kg	12	1	4.9	23.4	NoAB
13	4	Vanadium	110	mg/kg	12	12	38	39.3	Yes
13	4	Zinc	1038	mg/kg	12	12	65	2350	NoA
13	4	Cesium-137	0.0345	pCi/g	2	1	0.49	0.116	NoAB
13	4	Plutonium-238	0.0331	pCi/g	2	1	0.073	4.42	NoAB
13	4	Technetium-99	8.75	pCi/g	2	1	2.5	117	NoA
13	4	Thorium-228	1.05	pCi/g	2	2	1.6	31.6	NoAB
13	4	Thorium-230	1.17	pCi/g	2	2	1.5	5.22	NoAB
13	4	Thorium-232	1.04	pCi/g	2	2	1.5	4.24	NoAB
13	4	Uranium-234	1.45	pCi/g	2	1	1.2	5.93	NoA
13	4	Uranium-235	0.0875	pCi/g	2	2	0.06	0.347	NoA
13	4	Uranium-238	2.04	pCi/g	2	2	1.2	1.28	Yes
13	5	Aluminum	14000	mg/kg	3	3	13000	7740	Yes
13	5	Anthracene	0.015	mg/kg	3	1		854	NoA
13	5	Antimony	0.82	mg/kg	3	2	0.21	3.13	NoA
13	5	Arsenic	6.6	mg/kg	12	2	12	0.267	NoB
13	5	Barium	120	mg/kg	3	3	200	1530	NoAB
13	5	Benzo(ghi)perylene	0.16	mg/kg	3	1			NoC
13	5	Beryllium	0.55	mg/kg	3	2	0.67	15.6	NoAB
13	5	Bis(2-ethylhexyl)phthalate	0.23	mg/kg	3	1		14.3	NoA
13	5	Cadmium	1.2	mg/kg	3	2	0.21	5.07	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?
13	5	Calcium	28000	mg/kg	3	3	200000		NoBE
13	5	Chromium	19	mg/kg	12	3	16	16.4	Yes
13	5	Cobalt	4.6	mg/kg	3	3	14	2.34	NoB
13	5	Copper	120	mg/kg	12	11	19	313	NoA
13	5	Fluoranthene	0.71	mg/kg	2	2		114	NoA
13	5	Iron	31295	mg/kg	12	12	28000	5480	Yes
13	5	Lead	657	mg/kg	12	6	36	400	Yes
13	5	Lithium	5.31	mg/kg	1	1		15.6	NoA
13	5	Magnesium	1600	mg/kg	3	3	7700		NoBE
13	5	Manganese	1843	mg/kg	12	12	1500	183	Yes
13	5	Mercury	0.084	mg/kg	12	1	0.2	2.35	NoAB
13	5	Molybdenum	25	mg/kg	11	2		39.1	NoA
13	5	Nickel	140	mg/kg	12	11	21	155	NoA
13	5	PAH, Total	0.3472	mg/kg	3	2		0.00619	Yes
13	5	PCB, Total	1.251	mg/kg	12	2		0.0782	Yes
13	5	Phenanthrene	0.35	mg/kg	3	2		171	NoA
13	5	Pyrene	0.64	mg/kg	3	2		85.4	NoA
13	5	Selenium	0.91	mg/kg	12	1	0.8	39.1	NoA
13	5	Silver	0.063	mg/kg	12	1	2.3	39.1	NoAB
13	5	Sodium	61	mg/kg	2	1	320		NoBE
13	5	Thallium	0.11	mg/kg	3	1	0.21	0.0782	NoB
13	5	Uranium	130	mg/kg	12	2	4.9	23.4	Yes
13	5	Vanadium	138	mg/kg	12	12	38	39.3	Yes
13	5	Zinc	918	mg/kg	12	12	65	2350	NoA
13	5	Cesium-137	0.057	pCi/g	2	1	0.49	0.116	NoAB
13	5	Neptunium-237	0.53	pCi/g	3	2	0.1	0.239	Yes
13	5	Plutonium-239/240	0.0299	pCi/g	3	2	0.025	3.87	NoA
13	5	Plutonium-239/240	0.03	pCi/g	3	2	0.025	3.87	NoA
13	5	Technetium-99	150	pCi/g	3	2	2.5	117	Yes
13	5	Thorium-228	0.835	pCi/g	2	2	1.6	31.6	NoAB
13	5	Thorium-230	1.16	pCi/g	3	3	1.5	5.22	NoAB
13	5	Thorium-232	0.862	pCi/g	2	2	1.5	4.24	NoAB
13	5	Uranium-234	35.7	pCi/g	3	2	1.2	5.93	Yes
13	5	Uranium-235	4.12	pCi/g	3	3	0.06	0.347	Yes
13	5	Uranium-238	64.1	pCi/g	3	3	1.2	1.28	Yes
13	6	Aluminum	11500	mg/kg	5	5	13000	7740	NoB
13	6	Antimony	0.36	mg/kg	5	2	0.21	3.13	NoA
13	6	Arsenic	7.5	mg/kg	15	2	12	0.267	NoB
13	6	Barium	104	mg/kg	5	5	200	1530	NoAB
13	6	Beryllium	0.54	mg/kg	5	2	0.67	15.6	NoAB
13	6	Cadmium	0.85	mg/kg	5	2	0.21	5.07	NoA
13	6	Calcium	40000	mg/kg	5	5	200000		NoBE
13	6	Chromium	15	mg/kg	15	5	16	16.4	NoAB
13	6	Cobalt	8.75	mg/kg	5	5	14	2.34	NoB
13	6	Copper	61	mg/kg	15	14	19	313	NoA
13	6	Fluoranthene	0.3	mg/kg	2	2		114	NoA
13	6	Iron	43337	mg/kg	15	15	28000	5480	Yes
13	6	Lead	209	mg/kg	15	6	36	400	NoA
13	6	Lithium	8.59	mg/kg	3	3		15.6	NoA
13	6	Magnesium	8400	mg/kg	5	5	7700		NoE
13	6	Manganese	1155	mg/kg	15	15	1500	183	NoB
13	6	Mercury	0.081	mg/kg	15	2	0.2	2.35	NoAB
13	6	Molybdenum	37	mg/kg	12	4		39.1	NoA
13	6	Nickel	56	mg/kg	15	12	21	155	NoA
13	6	PAH, Total	0.83317	mg/kg	5	2		0.00619	Yes
13	6	PCB, Total	0.69	mg/kg	15	2		0.0782	Yes
13	6	Phenanthrene	0.17	mg/kg	5	2		171	NoA
13	6	Pyrene	0.31	mg/kg	5	2		85.4	NoA
13	6	Selenium	0.92	mg/kg	15	2	0.8	39.1	NoA
13	6	Silver	0.082	mg/kg	15	2	2.3	39.1	NoAB
13	6	Sodium	68	mg/kg	2	2	320		NoBE

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?
13	6	Thallium	0.12	mg/kg	5	2	0.21	0.0782	NoB
13	6	Uranium	60	mg/kg	15	3	4.9	23.4	Yes
13	6	Vanadium	158	mg/kg	15	15	38	39.3	Yes
13	6	Zinc	420	mg/kg	15	15	65	2350	NoA
13	6	Cesium-137	0.163	pCi/g	6	3	0.49	0.116	NoB
13	6	Neptunium-237	1.08	pCi/g	6	2	0.1	0.239	Yes
13	6	Plutonium-239/240	0.173	pCi/g	6	3	0.025	3.87	NoA
13	6	Technetium-99	142	pCi/g	6	3	2.5	117	Yes
13	6	Thorium-228	0.963	pCi/g	6	6	1.6	31.6	NoAB
13	6	Thorium-230	1.51	pCi/g	6	6	1.5	5.22	NoA
13	6	Thorium-232	0.979	pCi/g	6	6	1.5	4.24	NoAB
13	6	Uranium-234	30.7	pCi/g	6	3	1.2	5.93	Yes
13	6	Uranium-235	2.11	pCi/g	6	6	0.06	0.347	Yes
13	6	Uranium-238	62.9	pCi/g	6	6	1.2	1.28	Yes
13	7	Aluminum	5100	mg/kg	1	1	13000	7740	NoAB
13	7	Antimony	0.11	mg/kg	1	1	0.21	3.13	NoAB
13	7	Arsenic	4.7	mg/kg	11	1	12	0.267	NoB
13	7	Barium	100	mg/kg	1	1	200	1530	NoAB
13	7	Beryllium	0.36	mg/kg	1	1	0.67	15.6	NoAB
13	7	Cadmium	0.038	mg/kg	1	1	0.21	5.07	NoAB
13	7	Calcium	1200	mg/kg	1	1	200000		NoBE
13	7	Chromium	7.7	mg/kg	11	1	16	16.4	NoAB
13	7	Cobalt	5.9	mg/kg	1	1	14	2.34	NoB
13	7	Copper	46	mg/kg	11	10	19	313	NoA
13	7	Iron	39372	mg/kg	11	11	28000	5480	Yes
13	7	Lead	94	mg/kg	11	2	36	400	NoA
13	7	Magnesium	720	mg/kg	1	1	7700		NoBE
13	7	Manganese	689	mg/kg	11	11	1500	183	NoB
13	7	Mercury	0.046	mg/kg	11	1	0.2	2.35	NoAB
13	7	Molybdenum	0.3	mg/kg	11	1		39.1	NoA
13	7	Nickel	23	mg/kg	11	11	21	155	NoA
13	7	Selenium	0.97	mg/kg	11	1	0.8	39.1	NoA
13	7	Silver	146	mg/kg	11	3	2.3	39.1	Yes
13	7	Sodium	74	mg/kg	1	1	320		NoBE
13	7	Thallium	0.1	mg/kg	1	1	0.21	0.0782	NoB
13	7	Uranium	1	mg/kg	11	1	4.9	23.4	NoAB
13	7	Vanadium	145	mg/kg	11	11	38	39.3	Yes
13	7	Zinc	59	mg/kg	11	11	65	2350	NoAB
13	7	Thorium-228	1.1	pCi/g	1	1	1.6	31.6	NoAB
13	7	Thorium-230	1.25	pCi/g	1	1	1.5	5.22	NoAB
13	7	Thorium-232	1.15	pCi/g	1	1	1.5	4.24	NoAB
13	7	Uranium-234	0.837	pCi/g	1	1	1.2	5.93	NoAB
13	7	Uranium-235	0.0764	pCi/g	1	1	0.06	0.347	NoA
13	7	Uranium-238	1.3	pCi/g	1	1	1.2	1.28	Yes
13	8	Aluminum	4000	mg/kg	1	1	13000	7740	NoAB
13	8	Antimony	0.22	mg/kg	1	1	0.21	3.13	NoA
13	8	Arsenic	4.4	mg/kg	16	1	12	0.267	NoB
13	8	Barium	180	mg/kg	1	1	200	1530	NoAB
13	8	Beryllium	0.37	mg/kg	1	1	0.67	15.6	NoAB
13	8	Cadmium	0.17	mg/kg	1	1	0.21	5.07	NoAB
13	8	Calcium	140000	mg/kg	1	1	200000		NoBE
13	8	Chromium	7.2	mg/kg	16	1	16	16.4	NoAB
13	8	Cobalt	4.7	mg/kg	1	1	14	2.34	NoB
13	8	Copper	107	mg/kg	16	13	19	313	NoA
13	8	Iron	31310	mg/kg	16	16	28000	5480	Yes
13	8	Lead	293	mg/kg	16	2	36	400	NoA
13	8	Magnesium	3100	mg/kg	1	1	7700		NoBE
13	8	Manganese	1927	mg/kg	16	16	1500	183	Yes
13	8	Mercury	0.037	mg/kg	16	1	0.2	2.35	NoAB
13	8	Molybdenum	0.4	mg/kg	16	1		39.1	NoA
13	8	Nickel	60	mg/kg	16	10	21	155	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?
13	8	PAH, Total	0.01218	mg/kg	1	1		0.00619	Yes
13	8	Selenium	0.69	mg/kg	16	1	0.8	39.1	NoAB
13	8	Silver	0.027	mg/kg	16	1	2.3	39.1	NoAB
13	8	Sodium	72	mg/kg	1	1	320		NoBE
13	8	Thallium	0.086	mg/kg	1	1	0.21	0.0782	NoB
13	8	Uranium	3.2	mg/kg	16	1	4.9	23.4	NoAB
13	8	Vanadium	118	mg/kg	16	16	38	39.3	Yes
13	8	Zinc	390	mg/kg	16	16	65	2350	NoA
13	8	Thorium-228	1.03	pCi/g	1	1	1.6	31.6	NoAB
13	8	Thorium-230	1.19	pCi/g	1	1	1.5	5.22	NoAB
13	8	Thorium-232	0.98	pCi/g	1	1	1.5	4.24	NoAB
13	8	Uranium-234	1.05	pCi/g	1	1	1.2	5.93	NoAB
13	8	Uranium-235	0.0838	pCi/g	1	1	0.06	0.347	NoA
13	8	Uranium-238	1.24	pCi/g	1	1	1.2	1.28	NoA
13	9	Aluminum	5000	mg/kg	1	1	13000	7740	NoAB
13	9	Antimony	0.23	mg/kg	1	1	0.21	3.13	NoA
13	9	Arsenic	9	mg/kg	13	1	12	0.267	NoB
13	9	Barium	58	mg/kg	1	1	200	1530	NoAB
13	9	Beryllium	0.53	mg/kg	1	1	0.67	15.6	NoAB
13	9	Cadmium	0.18	mg/kg	1	1	0.21	5.07	NoAB
13	9	Calcium	61000	mg/kg	1	1	200000		NoBE
13	9	Chromium	22	mg/kg	13	1	16	16.4	Yes
13	9	Cobalt	10	mg/kg	1	1	14	2.34	NoB
13	9	Copper	55	mg/kg	13	11	19	313	NoA
13	9	Iron	24715	mg/kg	13	13	28000	5480	NoB
13	9	Lead	121	mg/kg	13	2	36	400	NoA
13	9	Magnesium	2100	mg/kg	1	1	7700		NoBE
13	9	Manganese	752	mg/kg	13	13	1500	183	NoB
13	9	Mercury	0.052	mg/kg	13	1	0.2	2.35	NoAB
13	9	Molybdenum	25	mg/kg	13	2		39.1	NoA
13	9	Nickel	39	mg/kg	13	11	21	155	NoA
13	9	PAH, Total	0.0265	mg/kg	1	1		0.00619	Yes
13	9	Selenium	0.6	mg/kg	13	1	0.8	39.1	NoAB
13	9	Silver	0.028	mg/kg	13	1	2.3	39.1	NoAB
13	9	Sodium	59	mg/kg	1	1	320		NoBE
13	9	Thallium	0.086	mg/kg	1	1	0.21	0.0782	NoB
13	9	Uranium	18.2	mg/kg	14	2	4.9	23.4	NoA
13	9	Vanadium	149	mg/kg	13	13	38	39.3	Yes
13	9	Zinc	666	mg/kg	13	13	65	2350	NoA
13	9	Americium-241	0.025	pCi/g	2	1		3.03	NoA
13	9	Cesium-137	0.393	pCi/g	2	2	0.49	0.116	NoB
13	9	Neptunium-237	0.89	pCi/g	2	2	0.1	0.239	Yes
13	9	Plutonium-238	0.0291	pCi/g	2	2	0.073	4.42	NoAB
13	9	Plutonium-239/240	0.128	pCi/g	2	1	0.025	3.87	NoA
13	9	Technetium-99	6.81	pCi/g	2	2	2.5	117	NoA
13	9	Thorium-228	0.625	pCi/g	2	2	1.6	31.6	NoAB
13	9	Thorium-230	1.03	pCi/g	2	2	1.5	5.22	NoAB
13	9	Thorium-232	0.542	pCi/g	2	2	1.5	4.24	NoAB
13	9	Uranium-234	4.35	pCi/g	2	2	1.2	5.93	NoA
13	9	Uranium-235	0.311	pCi/g	2	1	0.06	0.347	NoA
13	9	Uranium-238	6.08	pCi/g	2	2	1.2	1.28	Yes
15	1	Aluminum	7770	mg/kg	1	1	13000	7740	NoB
15	1	Antimony	105.97	mg/kg	12	8	0.21	3.13	Yes
15	1	Arsenic	20.04	mg/kg	12	10	12	0.267	Yes
15	1	Barium	348.97	mg/kg	12	11	200	1530	NoA
15	1	Beryllium	0.44	mg/kg	1	1	0.67	15.6	NoAB
15	1	Cadmium	14.01	mg/kg	12	2	0.21	5.07	Yes
15	1	Calcium	28100	mg/kg	1	1	200000		NoBE
15	1	Chromium	56.1	mg/kg	12	4	16	16.4	Yes
15	1	Cobalt	8	mg/kg	1	1	14	2.34	NoB
15	1	Copper	303.4	mg/kg	12	9	19	313	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?
15	1	Iron	37400	mg/kg	12	12	28000	5480	Yes
15	1	Lead	55.35	mg/kg	12	11	36	400	NoA
15	1	Magnesium	6730	mg/kg	1	1	7700		NoBE
15	1	Manganese	832.66	mg/kg	12	12	1500	183	NoB
15	1	Mercury	0.0328	mg/kg	12	1	0.2	2.35	NoAB
15	1	Molybdenum	4.2	mg/kg	12	1		39.1	NoA
15	1	Nickel	260.5	mg/kg	12	8	21	155	Yes
15	1	Selenium	0.74	mg/kg	12	1	0.8	39.1	NoAB
15	1	Silver	12.29	mg/kg	12	3	2.3	39.1	NoA
15	1	Sodium	63	mg/kg	1	1	320		NoBE
15	1	Thallium	0.24	mg/kg	1	1	0.21	0.0782	Yes
15	1	Uranium	45.33	mg/kg	12	8	4.9	23.4	Yes
15	1	Vanadium	29.6	mg/kg	12	1	38	39.3	NoAB
15	1	Zinc	197.59	mg/kg	12	12	65	2350	NoA
15	1	PCB, Total	0.078	mg/kg	12	1		0.0782	NoA
15	1	Acenaphthene	0.16	mg/kg	1	1		171	NoA
15	1	Anthracene	0.28	mg/kg	1	1		854	NoA
15	1	Benzo(ghi)perylene	0.44	mg/kg	1	1			NoC
15	1	bis(2-ethylhexyl)phthalate	0.38	mg/kg	1	1		14.3	NoA
15	1	Dibenzofuran	0.056	mg/kg	1	1		5.57	NoA
15	1	Fluoranthene	2.1	mg/kg	1	1		114	NoA
15	1	Fluorene	0.13	mg/kg	1	1		114	NoA
15	1	PAH, Total	1.71437	mg/kg	1	1		0.00619	Yes
15	1	Phenanthrene	1.3	mg/kg	1	1		171	NoA
15	1	Pyrene	1.4	mg/kg	1	1		85.4	NoA
15	1	Cesium-137	0.093	pCi/g	1	1	0.49	0.116	NoAB
15	1	Neptunium-237	0.018	pCi/g	1	1	0.1	0.239	NoAB
15	1	Technetium-99	1.72	pCi/g	1	1	2.5	117	NoAB
15	1	Thorium-228	0.566	pCi/g	1	1	1.6	31.6	NoAB
15	1	Thorium-230	0.685	pCi/g	1	1	1.5	5.22	NoAB
15	1	Thorium-232	0.571	pCi/g	1	1	1.5	4.24	NoAB
15	1	Uranium-234	1.52	pCi/g	1	1	1.2	5.93	NoA
15	1	Uranium-235	0.08	pCi/g	1	1	0.06	0.347	NoA
15	1	Uranium-238	1.85	pCi/g	1	1	1.2	1.28	Yes
15	2	Aluminum	8310	mg/kg	1	1	13000	7740	NoB
15	2	Antimony	98.31	mg/kg	10	7	0.21	3.13	Yes
15	2	Arsenic	16.26	mg/kg	10	6	12	0.267	Yes
15	2	Barium	380.87	mg/kg	10	10	200	1530	NoA
15	2	Beryllium	0.51	mg/kg	1	1	0.67	15.6	NoAB
15	2	Cadmium	0.14	mg/kg	10	1	0.21	5.07	NoAB
15	2	Calcium	20900	mg/kg	1	1	200000		NoBE
15	2	Chromium	59	mg/kg	10	4	16	16.4	Yes
15	2	Cobalt	7.1	mg/kg	1	1	14	2.34	NoB
15	2	Copper	142.35	mg/kg	10	9	19	313	NoA
15	2	Iron	38889.2	mg/kg	10	10	28000	5480	Yes
15	2	Lead	98.67	mg/kg	10	10	36	400	NoA
15	2	Magnesium	1340	mg/kg	1	1	7700		NoBE
15	2	Manganese	1370.76	mg/kg	10	10	1500	183	NoB
15	2	Mercury	9.33	mg/kg	10	3	0.2	2.35	Yes
15	2	Molybdenum	0.99	mg/kg	10	1		39.1	NoA
15	2	Nickel	197.26	mg/kg	10	10	21	155	Yes
15	2	Selenium	1	mg/kg	10	1	0.8	39.1	NoA
15	2	Silver	0.041	mg/kg	10	1	2.3	39.1	NoAB
15	2	Sodium	40.7	mg/kg	1	1	320		NoBE
15	2	Thallium	0.16	mg/kg	1	1	0.21	0.0782	NoB
15	2	Uranium	131.7	mg/kg	11	10	4.9	23.4	Yes
15	2	Vanadium	32.7	mg/kg	10	1	38	39.3	NoAB
15	2	Zinc	255.82	mg/kg	10	10	65	2350	NoA
15	2	PCB, Total	0.33	mg/kg	10	1		0.0782	Yes
15	2	2-Methylnaphthalene	0.052	mg/kg	1	1		11.4	NoA
15	2	Acenaphthene	0.46	mg/kg	1	1		171	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?
15	2	Anthracene	0.77	mg/kg	1	1		854	NoA
15	2	Benzo(ghi)perylene	0.89	mg/kg	1	1			NoC
15	2	bis(2-ethylhexyl)phthalate	0.048	mg/kg	1	1		14.3	NoA
15	2	Dibenzofuran	0.2	mg/kg	1	1		5.57	NoA
15	2	Fluoranthene	3.6	mg/kg	1	1		114	NoA
15	2	Fluorene	0.39	mg/kg	1	1		114	NoA
15	2	Naphthalene	0.12	mg/kg	1	1		3.83	NoA
15	2	PAH, Total	2.1078	mg/kg	1	1		0.00619	Yes
15	2	Phenanthrene	2.9	mg/kg	1	1		171	NoA
15	2	Pyrene	3	mg/kg	1	1		85.4	NoA
15	2	Neptunium-237	0.135	pCi/g	2	1	0.1	0.239	NoA
15	2	Plutonium-239/240	0.071	pCi/g	2	2	0.025	3.87	NoA
15	2	Technetium-99	11.3	pCi/g	2	2	2.5	117	NoA
15	2	Thorium-228	0.94	pCi/g	2	2	1.6	31.6	NoAB
15	2	Thorium-230	1.08	pCi/g	2	2	1.5	5.22	NoAB
15	2	Thorium-232	0.79	pCi/g	2	2	1.5	4.24	NoAB
15	2	Uranium-234	6.51	pCi/g	2	2	1.2	5.93	Yes
15	2	Uranium-235	0.38	pCi/g	2	2	0.06	0.347	Yes
15	2	Uranium-238	12.1	pCi/g	2	2	1.2	1.28	Yes
15	3	Aluminum	8790	mg/kg	1	1	13000	7740	NoB
15	3	Antimony	112.15	mg/kg	12	7	0.21	3.13	Yes
15	3	Arsenic	62.55	mg/kg	12	9	12	0.267	Yes
15	3	Barium	403.94	mg/kg	12	12	200	1530	NoA
15	3	Beryllium	0.76	mg/kg	1	1	0.67	15.6	NoA
15	3	Cadmium	14.2	mg/kg	12	2	0.21	5.07	Yes
15	3	Calcium	36700	mg/kg	1	1	200000		NoBE
15	3	Chromium	112	mg/kg	12	9	16	16.4	Yes
15	3	Cobalt	34.1	mg/kg	1	1	14	2.34	Yes
15	3	Copper	4360	mg/kg	12	11	19	313	Yes
15	3	Iron	171000	mg/kg	12	12	28000	5480	Yes
15	3	Lead	827	mg/kg	12	12	36	400	Yes
15	3	Magnesium	4380	mg/kg	1	1	7700		NoBE
15	3	Manganese	2850	mg/kg	12	12	1500	183	Yes
15	3	Mercury	2.74	mg/kg	12	1	0.2	2.35	Yes
15	3	Molybdenum	23.6	mg/kg	12	1		39.1	NoA
15	3	Nickel	2410	mg/kg	12	10	21	155	Yes
15	3	Selenium	26.71	mg/kg	12	2	0.8	39.1	NoA
15	3	Silver	3.2	mg/kg	12	1	2.3	39.1	NoA
15	3	Sodium	266	mg/kg	1	1	320		NoBE
15	3	Thallium	0.26	mg/kg	1	1	0.21	0.0782	Yes
15	3	Uranium	459	mg/kg	12	11	4.9	23.4	Yes
15	3	Vanadium	74.72	mg/kg	12	3	38	39.3	Yes
15	3	Zinc	1830	mg/kg	12	12	65	2350	NoA
15	3	PCB, Total	10	mg/kg	12	3		0.0782	Yes
15	3	Acenaphthene	0.1	mg/kg	1	1		171	NoA
15	3	Acenaphthylene	0.042	mg/kg	1	1		171	NoA
15	3	Anthracene	0.24	mg/kg	1	1		854	NoA
15	3	Benzo(ghi)perylene	0.37	mg/kg	1	1			NoC
15	3	Benzoic Acid	0.39	mg/kg	1	1		13300	NoA
15	3	bis(2-ethylhexyl)phthalate	0.39	mg/kg	1	1		14.3	NoA
15	3	Dibenzofuran	0.044	mg/kg	1	1		5.57	NoA
15	3	Di-n-butyl phthalate	0.063	mg/kg	1	1		334	NoA
15	3	Fluoranthene	1.7	mg/kg	1	1		114	NoA
15	3	Fluorene	0.086	mg/kg	1	1		114	NoA
15	3	PAH, Total	1.4541	mg/kg	1	1		0.00619	Yes
15	3	Phenanthrene	0.89	mg/kg	1	1		171	NoA
15	3	Pyrene	1.3	mg/kg	1	1		85.4	NoA
15	3	Americium-241	0.437	pCi/g	2	1		3.03	NoA
15	3	Cesium-137	0.2	pCi/g	2	2	0.49	0.116	NoB
15	3	Neptunium-237	4.1	pCi/g	2	2	0.1	0.239	Yes
15	3	Plutonium-238	0.12	pCi/g	2	2	0.073	4.42	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?
15	3	Plutonium-239/240	2.78	pCi/g	2	2	0.025	3.87	NoA
15	3	Technetium-99	367	pCi/g	2	2	2.5	117	Yes
15	3	Thorium-228	0.749	pCi/g	2	2	1.6	31.6	NoAB
15	3	Thorium-230	7.23	pCi/g	2	2	1.5	5.22	Yes
15	3	Thorium-232	0.65	pCi/g	2	2	1.5	4.24	NoAB
15	3	Uranium-234	185	pCi/g	2	2	1.2	5.93	Yes
15	3	Uranium-235	21.7	pCi/g	2	2	0.06	0.347	Yes
15	3	Uranium-238	1100	pCi/g	2	2	1.2	1.28	Yes
15	4	Aluminum	8490	mg/kg	2	2	13000	7740	NoB
15	4	Antimony	118.48	mg/kg	15	10	0.21	3.13	Yes
15	4	Arsenic	51.31	mg/kg	18	11	12	0.267	Yes
15	4	Barium	459.91	mg/kg	15	15	200	1530	NoA
15	4	Beryllium	0.61	mg/kg	2	2	0.67	15.6	NoAB
15	4	Cadmium	24.15	mg/kg	15	4	0.21	5.07	Yes
15	4	Calcium	25600	mg/kg	2	2	200000		NoBE
15	4	Chromium	150.66	mg/kg	18	12	16	16.4	Yes
15	4	Cobalt	7.8	mg/kg	2	2	14	2.34	NoB
15	4	Copper	1273.93	mg/kg	18	18	19	313	Yes
15	4	Iron	142401.3	mg/kg	18	18	28000	5480	Yes
15	4	Lead	1040.18	mg/kg	18	16	36	400	Yes
15	4	Magnesium	2640	mg/kg	2	2	7700		NoBE
15	4	Manganese	2487.8	mg/kg	18	18	1500	183	Yes
15	4	Mercury	15.28	mg/kg	18	3	0.2	2.35	Yes
15	4	Molybdenum	20.54	mg/kg	18	7		39.1	NoA
15	4	Nickel	3787.15	mg/kg	18	18	21	155	Yes
15	4	Selenium	1.4	mg/kg	18	2	0.8	39.1	NoA
15	4	Silver	17.99	mg/kg	18	3	2.3	39.1	NoA
15	4	Sodium	53	mg/kg	2	2	320		NoBE
15	4	Thallium	0.21	mg/kg	2	2	0.21	0.0782	Yes
15	4	Uranium	259.26	mg/kg	18	16	4.9	23.4	Yes
15	4	Vanadium	122	mg/kg	18	5	38	39.3	Yes
15	4	Zinc	2178.29	mg/kg	18	18	65	2350	NoA
15	4	PCB, Total	55	mg/kg	19	14		0.0782	Yes
15	4	Acenaphthene	0.17	mg/kg	2	1		171	NoA
15	4	Acenaphthylene	0.13	mg/kg	2	1		171	NoA
15	4	Anthracene	0.45	mg/kg	2	1		854	NoA
15	4	Benzo(ghi)perylene	0.53	mg/kg	2	1			NoC
15	4	Benzoic Acid	0.37	mg/kg	2	1		13300	NoA
15	4	bis(2-ethylhexyl)phthalate	0.086	mg/kg	2	1		14.3	NoA
15	4	Butyl benzyl phthalate	0.039	mg/kg	2	1		106	NoA
15	4	Dibenzofuran	0.086	mg/kg	2	1		5.57	NoA
15	4	Fluoranthene	2.8	mg/kg	2	1		114	NoA
15	4	Fluorene	0.14	mg/kg	2	1		114	NoA
15	4	PAH, Total	2.4449	mg/kg	2	2		0.00619	Yes
15	4	Phenanthrene	1.5	mg/kg	2	1		171	NoA
15	4	Pyrene	2.1	mg/kg	2	1		85.4	NoA
15	4	Americium-241	0.074	pCi/g	2	1		3.03	NoA
15	4	Cesium-137	0.14	pCi/g	2	2	0.49	0.116	NoB
15	4	Neptunium-237	0.8	pCi/g	2	2	0.1	0.239	Yes
15	4	Plutonium-238	0.018	pCi/g	2	1	0.073	4.42	NoAB
15	4	Plutonium-239/240	0.39	pCi/g	2	2	0.025	3.87	NoA
15	4	Technetium-99	46.3	pCi/g	2	2	2.5	117	NoA
15	4	Thorium-228	0.699	pCi/g	2	2	1.6	31.6	NoAB
15	4	Thorium-230	2.39	pCi/g	2	2	1.5	5.22	NoA
15	4	Thorium-232	0.764	pCi/g	2	2	1.5	4.24	NoAB
15	4	Uranium-234	10.7	pCi/g	2	2	1.2	5.93	Yes
15	4	Uranium-235	0.43	pCi/g	2	2	0.06	0.347	Yes
15	4	Uranium-238	18.7	pCi/g	2	2	1.2	1.28	Yes
15	5	Aluminum	7070	mg/kg	1	1	13000	7740	NoAB
15	5	Antimony	125.42	mg/kg	12	12	0.21	3.13	Yes
15	5	Arsenic	19.15	mg/kg	12	5	12	0.267	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?
15	5	Barium	509.77	mg/kg	12	12	200	1530	NoA
15	5	Beryllium	0.38	mg/kg	1	1	0.67	15.6	NoAB
15	5	Cadmium	20.65	mg/kg	12	4	0.21	5.07	Yes
15	5	Calcium	134000	mg/kg	1	1	200000		NoBE
15	5	Chromium	42.79	mg/kg	12	3	16	16.4	Yes
15	5	Cobalt	7.1	mg/kg	1	1	14	2.34	NoB
15	5	Copper	6122.47	mg/kg	12	12	19	313	Yes
15	5	Iron	26371.24	mg/kg	12	12	28000	5480	NoB
15	5	Lead	139.05	mg/kg	12	12	36	400	NoA
15	5	Magnesium	3890	mg/kg	1	1	7700		NoBE
15	5	Manganese	718.51	mg/kg	12	12	1500	183	NoB
15	5	Mercury	0.338	mg/kg	12	1	0.2	2.35	NoA
15	5	Molybdenum	1.8	mg/kg	12	1		39.1	NoA
15	5	Nickel	676	mg/kg	12	7	21	155	Yes
15	5	Selenium	1.1	mg/kg	12	1	0.8	39.1	NoA
15	5	Silver	14.99	mg/kg	12	5	2.3	39.1	NoA
15	5	Sodium	109	mg/kg	1	1	320		NoBE
15	5	Thallium	0.091	mg/kg	1	1	0.21	0.0782	NoB
15	5	Uranium	364.2	mg/kg	12	9	4.9	23.4	Yes
15	5	Vanadium	20.1	mg/kg	12	1	38	39.3	NoAB
15	5	Zinc	3168.62	mg/kg	12	12	65	2350	Yes
15	5	PCB, Total	50	mg/kg	12	4		0.0782	Yes
15	5	Acenaphthene	0.036	mg/kg	1	1		171	NoA
15	5	Anthracene	0.064	mg/kg	1	1		854	NoA
15	5	Benzo(ghi)perylene	0.16	mg/kg	1	1			NoC
15	5	Fluoranthene	0.48	mg/kg	1	1		114	NoA
15	5	PAH, Total	0.5106	mg/kg	1	1		0.00619	Yes
15	5	Phenanthrene	0.28	mg/kg	1	1		171	NoA
15	5	Pyrene	0.43	mg/kg	1	1		85.4	NoA
15	5	Americium-241	0.034	pCi/g	1	1		3.03	NoA
15	5	Neptunium-237	0.69	pCi/g	1	1	0.1	0.239	Yes
15	5	Plutonium-239/240	0.104	pCi/g	1	1	0.025	3.87	NoA
15	5	Technetium-99	107	pCi/g	1	1	2.5	117	NoA
15	5	Thorium-228	0.475	pCi/g	1	1	1.6	31.6	NoAB
15	5	Thorium-230	0.94	pCi/g	1	1	1.5	5.22	NoAB
15	5	Thorium-232	0.456	pCi/g	1	1	1.5	4.24	NoAB
15	5	Uranium-234	5.83	pCi/g	1	1	1.2	5.93	NoA
15	5	Uranium-235	0.46	pCi/g	1	1	0.06	0.347	Yes
15	5	Uranium-238	10.3	pCi/g	1	1	1.2	1.28	Yes
15	6	Aluminum	9250	mg/kg	1	1	13000	7740	NoB
15	6	Antimony	112.24	mg/kg	13	13	0.21	3.13	Yes
15	6	Arsenic	18.04	mg/kg	13	5	12	0.267	Yes
15	6	Barium	473.67	mg/kg	13	13	200	1530	NoA
15	6	Beryllium	0.48	mg/kg	1	1	0.67	15.6	NoAB
15	6	Cadmium	15.36	mg/kg	13	4	0.21	5.07	Yes
15	6	Calcium	156000	mg/kg	1	1	200000		NoBE
15	6	Chromium	57.97	mg/kg	13	4	16	16.4	Yes
15	6	Cobalt	16.2	mg/kg	1	1	14	2.34	Yes
15	6	Copper	793.22	mg/kg	13	11	19	313	Yes
15	6	Iron	54500	mg/kg	13	13	28000	5480	Yes
15	6	Lead	169.9	mg/kg	13	13	36	400	NoA
15	6	Magnesium	5830	mg/kg	1	1	7700		NoBE
15	6	Manganese	1072.34	mg/kg	13	13	1500	183	NoB
15	6	Mercury	0.41	mg/kg	13	1	0.2	2.35	NoA
15	6	Molybdenum	3.4	mg/kg	13	1		39.1	NoA
15	6	Nickel	616.54	mg/kg	13	11	21	155	Yes
15	6	Selenium	1.4	mg/kg	13	1	0.8	39.1	NoA
15	6	Silver	10.91	mg/kg	13	2	2.3	39.1	NoA
15	6	Sodium	152	mg/kg	1	1	320		NoBE
15	6	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
15	6	Uranium	112	mg/kg	13	9	4.9	23.4	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?
15	6	Vanadium	24.3	mg/kg	13	1	38	39.3	NoAB
15	6	Zinc	719.23	mg/kg	13	13	65	2350	NoA
15	6	PCB, Total	10	mg/kg	13	4		0.0782	Yes
15	6	Acenaphthene	0.2	mg/kg	1	1		171	NoA
15	6	Anthracene	0.38	mg/kg	1	1		854	NoA
15	6	Benzo(ghi)perylene	0.44	mg/kg	1	1			NoC
15	6	Dibenzofuran	0.087	mg/kg	1	1		5.57	NoA
15	6	Fluoranthene	2.4	mg/kg	1	1		114	NoA
15	6	Fluorene	0.19	mg/kg	1	1		114	NoA
15	6	PAH, Total	1.6235	mg/kg	1	1		0.00619	Yes
15	6	Phenanthrene	1.8	mg/kg	1	1		171	NoA
15	6	Pyrene	1.9	mg/kg	1	1		85.4	NoA
15	6	Neptunium-237	0.64	pCi/g	1	1	0.1	0.239	Yes
15	6	Plutonium-238	0.026	pCi/g	1	1	0.073	4.42	NoAB
15	6	Plutonium-239/240	0.17	pCi/g	1	1	0.025	3.87	NoA
15	6	Technetium-99	32.5	pCi/g	1	1	2.5	117	NoA
15	6	Thorium-228	0.71	pCi/g	1	1	1.6	31.6	NoAB
15	6	Thorium-230	1.94	pCi/g	1	1	1.5	5.22	NoA
15	6	Thorium-232	0.86	pCi/g	1	1	1.5	4.24	NoAB
15	6	Uranium-234	8.74	pCi/g	1	1	1.2	5.93	Yes
15	6	Uranium-235	0.57	pCi/g	1	1	0.06	0.347	Yes
15	6	Uranium-238	15.4	pCi/g	1	1	1.2	1.28	Yes
15	7	Aluminum	8360	mg/kg	1	1	13000	7740	NoB
15	7	Antimony	283.01	mg/kg	12	12	0.21	3.13	Yes
15	7	Arsenic	33.09	mg/kg	12	8	12	0.267	Yes
15	7	Barium	519.96	mg/kg	12	12	200	1530	NoA
15	7	Beryllium	0.47	mg/kg	1	1	0.67	15.6	NoAB
15	7	Cadmium	17.97	mg/kg	12	4	0.21	5.07	Yes
15	7	Calcium	96800	mg/kg	1	1	200000		NoBE
15	7	Chromium	78.71	mg/kg	12	6	16	16.4	Yes
15	7	Cobalt	10.9	mg/kg	1	1	14	2.34	NoB
15	7	Copper	1803.24	mg/kg	12	10	19	313	Yes
15	7	Iron	60521.86	mg/kg	12	12	28000	5480	Yes
15	7	Lead	278.59	mg/kg	12	12	36	400	NoA
15	7	Magnesium	3130	mg/kg	1	1	7700		NoBE
15	7	Manganese	2903.39	mg/kg	12	12	1500	183	Yes
15	7	Mercury	0.0744	mg/kg	12	1	0.2	2.35	NoAB
15	7	Molybdenum	2.2	mg/kg	12	1		39.1	NoA
15	7	Nickel	834.44	mg/kg	12	10	21	155	Yes
15	7	Selenium	4.99	mg/kg	12	2	0.8	39.1	NoA
15	7	Silver	12.86	mg/kg	12	2	2.3	39.1	NoA
15	7	Sodium	100	mg/kg	1	1	320		NoBE
15	7	Thallium	0.3	mg/kg	1	1	0.21	0.0782	Yes
15	7	Uranium	82.92	mg/kg	12	9	4.9	23.4	Yes
15	7	Vanadium	27.3	mg/kg	12	1	38	39.3	NoAB
15	7	Zinc	1392.97	mg/kg	12	12	65	2350	NoA
15	7	PCB, Total	50	mg/kg	12	5		0.0782	Yes
15	7	Benzo(ghi)perylene	0.054	mg/kg	1	1			NoC
15	7	Fluoranthene	0.19	mg/kg	1	1		114	NoA
15	7	PAH, Total	0.15884	mg/kg	1	1		0.00619	Yes
15	7	Phenanthrene	0.11	mg/kg	1	1		171	NoA
15	7	Pyrene	0.15	mg/kg	1	1		85.4	NoA
15	7	Neptunium-237	0.223	pCi/g	1	1	0.1	0.239	NoA
15	7	Plutonium-238	0.046	pCi/g	1	1	0.073	4.42	NoAB
15	7	Plutonium-239/240	0.116	pCi/g	1	1	0.025	3.87	NoA
15	7	Technetium-99	12.8	pCi/g	1	1	2.5	117	NoA
15	7	Thorium-228	0.563	pCi/g	1	1	1.6	31.6	NoAB
15	7	Thorium-230	1.06	pCi/g	1	1	1.5	5.22	NoAB
15	7	Thorium-232	0.528	pCi/g	1	1	1.5	4.24	NoAB
15	7	Uranium-234	6.49	pCi/g	1	1	1.2	5.93	Yes
15	7	Uranium-235	0.45	pCi/g	1	1	0.06	0.347	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?
15	7	Uranium-238	8.05	pCi/g	1	1	1.2	1.28	Yes
15	8	Aluminum	7190	mg/kg	1	1	13000	7740	NoAB
15	8	Antimony	123.84	mg/kg	12	7	0.21	3.13	Yes
15	8	Arsenic	13.83	mg/kg	12	8	12	0.267	Yes
15	8	Barium	465.9	mg/kg	12	11	200	1530	NoA
15	8	Beryllium	0.48	mg/kg	1	1	0.67	15.6	NoAB
15	8	Cadmium	16.9	mg/kg	12	3	0.21	5.07	Yes
15	8	Calcium	29300	mg/kg	1	1	200000		NoBE
15	8	Chromium	97.61	mg/kg	12	7	16	16.4	Yes
15	8	Cobalt	8.5	mg/kg	1	1	14	2.34	NoB
15	8	Copper	271.75	mg/kg	12	11	19	313	NoA
15	8	Iron	39124.51	mg/kg	12	12	28000	5480	Yes
15	8	Lead	78.61	mg/kg	12	12	36	400	NoA
15	8	Magnesium	2470	mg/kg	1	1	7700		NoBE
15	8	Manganese	934.59	mg/kg	12	12	1500	183	NoB
15	8	Mercury	10.04	mg/kg	12	2	0.2	2.35	Yes
15	8	Molybdenum	1.5	mg/kg	12	1		39.1	NoA
15	8	Nickel	318.08	mg/kg	12	10	21	155	Yes
15	8	Selenium	0.95	mg/kg	12	1	0.8	39.1	NoA
15	8	Silver	14.24	mg/kg	12	2	2.3	39.1	NoA
15	8	Sodium	80.6	mg/kg	1	1	320		NoBE
15	8	Thallium	0.065	mg/kg	1	1	0.21	0.0782	NoAB
15	8	Uranium	81.68	mg/kg	12	12	4.9	23.4	Yes
15	8	Vanadium	31.8	mg/kg	12	1	38	39.3	NoAB
15	8	Zinc	628.99	mg/kg	12	12	65	2350	NoA
15	8	PCB, Total	4.9	mg/kg	12	1		0.0782	Yes
15	8	Anthracene	0.065	mg/kg	1	1		854	NoA
15	8	Benzo(ghi)perylene	0.14	mg/kg	1	1			NoC
15	8	Fluoranthene	0.51	mg/kg	1	1		114	NoA
15	8	PAH, Total	0.35879	mg/kg	1	1		0.00619	Yes
15	8	Phenanthrene	0.31	mg/kg	1	1		171	NoA
15	8	Pyrene	0.44	mg/kg	1	1		85.4	NoA
15	8	Americium-241	0.02	pCi/g	1	1		3.03	NoA
15	8	Neptunium-237	0.365	pCi/g	1	1	0.1	0.239	Yes
15	8	Plutonium-239/240	0.123	pCi/g	1	1	0.025	3.87	NoA
15	8	Thorium-228	0.558	pCi/g	1	1	1.6	31.6	NoAB
15	8	Thorium-230	1.61	pCi/g	1	1	1.5	5.22	NoA
15	8	Thorium-232	0.532	pCi/g	1	1	1.5	4.24	NoAB
15	8	Uranium-234	4.5	pCi/g	1	1	1.2	5.93	NoA
15	8	Uranium-235	0.304	pCi/g	1	1	0.06	0.347	NoA
15	8	Uranium-238	6.64	pCi/g	1	1	1.2	1.28	Yes
15	9	Aluminum	6830	mg/kg	1	1	13000	7740	NoAB
15	9	Antimony	161.37	mg/kg	13	12	0.21	3.13	Yes
15	9	Arsenic	12.41	mg/kg	13	7	12	0.267	Yes
15	9	Barium	553.78	mg/kg	13	13	200	1530	NoA
15	9	Beryllium	0.61	mg/kg	1	1	0.67	15.6	NoAB
15	9	Cadmium	21.56	mg/kg	13	3	0.21	5.07	Yes
15	9	Calcium	7790	mg/kg	1	1	200000		NoBE
15	9	Chromium	140.57	mg/kg	13	3	16	16.4	Yes
15	9	Cobalt	12	mg/kg	1	1	14	2.34	NoB
15	9	Copper	293.87	mg/kg	13	11	19	313	NoA
15	9	Iron	34774.83	mg/kg	13	13	28000	5480	Yes
15	9	Lead	87.31	mg/kg	13	12	36	400	NoA
15	9	Magnesium	575	mg/kg	1	1	7700		NoBE
15	9	Manganese	805.63	mg/kg	13	13	1500	183	NoB
15	9	Mercury	0.178	mg/kg	13	1	0.2	2.35	NoAB
15	9	Molybdenum	1.8	mg/kg	13	1		39.1	NoA
15	9	Nickel	208.34	mg/kg	13	9	21	155	Yes
15	9	Selenium	0.72	mg/kg	13	1	0.8	39.1	NoAB
15	9	Silver	15.42	mg/kg	13	4	2.3	39.1	NoA
15	9	Sodium	43.1	mg/kg	1	1	320		NoBE

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?
15	9	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
15	9	Uranium	43.96	mg/kg	13	12	4.9	23.4	Yes
15	9	Vanadium	77.92	mg/kg	13	3	38	39.3	Yes
15	9	Zinc	487.87	mg/kg	13	13	65	2350	NoA
15	9	PCB, Total	0.33	mg/kg	13	1		0.0782	Yes
15	9	Benzo(ghi)perylene	0.11	mg/kg	1	1			NoC
15	9	Fluoranthene	0.27	mg/kg	1	1		114	NoA
15	9	PAH, Total	0.23832	mg/kg	1	1		0.00619	Yes
15	9	Phenanthrene	0.13	mg/kg	1	1		171	NoA
15	9	Pyrene	0.27	mg/kg	1	1		85.4	NoA
15	9	Americium-241	0.021	pCi/g	1	1		3.03	NoA
15	9	Neptunium-237	0.128	pCi/g	1	1	0.1	0.239	NoA
15	9	Plutonium-239/240	0.042	pCi/g	1	1	0.025	3.87	NoA
15	9	Thorium-228	0.55	pCi/g	1	1	1.6	31.6	NoAB
15	9	Thorium-230	0.88	pCi/g	1	1	1.5	5.22	NoAB
15	9	Thorium-232	0.57	pCi/g	1	1	1.5	4.24	NoAB
15	9	Uranium-234	4.33	pCi/g	1	1	1.2	5.93	NoA
15	9	Uranium-235	0.242	pCi/g	1	1	0.06	0.347	NoA
15	9	Uranium-238	7.12	pCi/g	1	1	1.2	1.28	Yes
15	10	Aluminum	4160	mg/kg	1	1	13000	7740	NoAB
15	10	Antimony	124.94	mg/kg	11	10	0.21	3.13	Yes
15	10	Arsenic	9.42	mg/kg	11	8	12	0.267	NoB
15	10	Barium	629.9	mg/kg	11	11	200	1530	NoA
15	10	Beryllium	0.42	mg/kg	1	1	0.67	15.6	NoAB
15	10	Cadmium	16.7	mg/kg	11	3	0.21	5.07	Yes
15	10	Calcium	2800	mg/kg	1	1	200000		NoBE
15	10	Chromium	35.5	mg/kg	11	1	16	16.4	Yes
15	10	Cobalt	8.8	mg/kg	1	1	14	2.34	NoB
15	10	Copper	25.06	mg/kg	11	1	19	313	NoA
15	10	Iron	21267.96	mg/kg	11	11	28000	5480	NoB
15	10	Lead	15.05	mg/kg	11	7	36	400	NoAB
15	10	Magnesium	431	mg/kg	1	1	7700		NoBE
15	10	Manganese	350.05	mg/kg	11	11	1500	183	NoB
15	10	Mercury	7.84	mg/kg	11	1	0.2	2.35	Yes
15	10	Molybdenum	1.3	mg/kg	11	1		39.1	NoA
15	10	Nickel	226.39	mg/kg	11	8	21	155	Yes
15	10	Selenium	0.61	mg/kg	11	1	0.8	39.1	NoAB
15	10	Silver	10.81	mg/kg	11	3	2.3	39.1	NoA
15	10	Sodium	38.6	mg/kg	1	1	320		NoBE
15	10	Uranium	90.15	mg/kg	11	4	4.9	23.4	Yes
15	10	Vanadium	21.5	mg/kg	11	1	38	39.3	NoAB
15	10	Zinc	239.58	mg/kg	11	11	65	2350	NoA
15	10	PCB, Total	0.024	mg/kg	11	1		0.0782	NoA
15	10	Benzo(ghi)perylene	0.057	mg/kg	1	1			NoC
15	10	Fluoranthene	0.08	mg/kg	1	1		114	NoA
15	10	PAH, Total	0.128447	mg/kg	1	1		0.00619	Yes
15	10	Pyrene	0.089	mg/kg	1	1		85.4	NoA
15	10	Plutonium-238	0.027	pCi/g	1	1	0.073	4.42	NoAB
15	10	Plutonium-239/240	0.02	pCi/g	1	1	0.025	3.87	NoAB
15	10	Technetium-99	4.13	pCi/g	1	1	2.5	117	NoA
15	10	Thorium-228	0.429	pCi/g	1	1	1.6	31.6	NoAB
15	10	Thorium-230	0.539	pCi/g	1	1	1.5	5.22	NoAB
15	10	Thorium-232	0.426	pCi/g	1	1	1.5	4.24	NoAB
15	10	Uranium-234	0.7	pCi/g	1	1	1.2	5.93	NoAB
15	10	Uranium-235	0.048	pCi/g	1	1	0.06	0.347	NoAB
15	10	Uranium-238	0.91	pCi/g	1	1	1.2	1.28	NoAB
26	1	Aluminum	6000	mg/kg	2	2	13000	7740	NoAB
26	1	Antimony	0.25	mg/kg	2	2	0.21	3.13	NoA
26	1	Arsenic	7.6	mg/kg	17	2	12	0.267	NoB
26	1	Barium	81	mg/kg	5	5	200	1530	NoAB
26	1	Benzo(ghi)perylene	0.18	mg/kg	2	1			NoC

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?
26	1	Beryllium	0.94	mg/kg	2	2	0.67	15.6	NoA
26	1	Cadmium	0.91	mg/kg	5	2	0.21	5.07	NoA
26	1	Calcium	95000	mg/kg	2	2	200000		NoBE
26	1	Chromium	34	mg/kg	17	5	16	16.4	Yes
26	1	Cobalt	8.7	mg/kg	2	2	14	2.34	NoB
26	1	Copper	49	mg/kg	14	14	19	313	NoA
26	1	Fluoranthene	0.73	mg/kg	2	1		114	NoA
26	1	Iron	37876	mg/kg	14	14	28000	5480	Yes
26	1	Lead	84	mg/kg	17	3	36	400	NoA
26	1	Magnesium	5700	mg/kg	2	2	7700		NoBE
26	1	Manganese	730	mg/kg	14	14	1500	183	NoB
26	1	Mercury	0.021	mg/kg	17	2	0.2	2.35	NoAB
26	1	Molybdenum	0.8	mg/kg	14	2		39.1	NoA
26	1	Nickel	30	mg/kg	14	14	21	155	NoA
26	1	PAH, Total	0.25496	mg/kg	2	2		0.00619	Yes
26	1	PCB, Total	1.06	mg/kg	17	5		0.0782	Yes
26	1	Phenanthrene	0.37	mg/kg	2	1		171	NoA
26	1	Pyrene	0.65	mg/kg	2	1		85.4	NoA
26	1	Selenium	0.64	mg/kg	17	2	0.8	39.1	NoAB
26	1	Silver	0.051	mg/kg	17	2	2.3	39.1	NoAB
26	1	Sodium	59	mg/kg	2	2	320		NoBE
26	1	Thallium	0.098	mg/kg	2	2	0.21	0.0782	NoB
26	1	Uranium	473	mg/kg	14	7	4.9	23.4	Yes
26	1	Vanadium	184	mg/kg	14	13	38	39.3	Yes
26	1	Zinc	128	mg/kg	14	14	65	2350	NoA
26	1	Cesium-137	0.13	pCi/g	5	4	0.49	0.116	NoB
26	1	Technetium-99	1	pCi/g	5	1	2.5	117	NoAB
26	1	Thorium-228	0.596	pCi/g	5	2	1.6	31.6	NoAB
26	1	Thorium-230	0.874	pCi/g	5	3	1.5	5.22	NoAB
26	1	Thorium-232	0.566	pCi/g	5	3	1.5	4.24	NoAB
26	1	Thorium-234	314	pCi/g	3	3			NoD
26	1	Uranium-234	12.2	pCi/g	5	5	1.2	5.93	Yes
26	1	Uranium-235	1.96	pCi/g	5	5	0.06	0.347	Yes
26	1	Uranium-238	108	pCi/g	5	5	1.2	1.28	Yes
26	2	(1,1-Dimethylethyl)benzene	0.001	mg/kg	1	1		782	NoA
26	2	(1-Methylpropyl)benzene	0.0014	mg/kg	1	1		782	NoA
26	2	1,1,1-Trichloroethane	0.0012	mg/kg	3	1		815	NoA
26	2	1,2,4-Trichlorobenzene	0.0039	mg/kg	2	1		5.78	NoA
26	2	1,2,4-Trimethylbenzene	0.0023	mg/kg	1	1		5.69	NoA
26	2	1,2-Dichlorobenzene	0.0026	mg/kg	2	1		181	NoA
26	2	1,2-Dimethylbenzene	0.00086	mg/kg	1	1		64.5	NoA
26	2	1,3,5-Trimethylbenzene	0.0018	mg/kg	1	1		3.93	NoA
26	2	1,3-Dichlorobenzene	0.0028	mg/kg	2	1			NoC
26	2	1,4-Dichlorobenzene	0.0037	mg/kg	2	1		2.61	NoA
26	2	1-Methyl-4-(1-methylethyl)benzene	0.0019	mg/kg	1	1			NoC
26	2	Aluminum	34600	mg/kg	4	4	13000	7740	Yes
26	2	Antimony	0.12	mg/kg	4	1	0.21	3.13	NoAB
26	2	Arsenic	81.4	mg/kg	6	4	12	0.267	Yes
26	2	Barium	213	mg/kg	4	4	200	1530	NoA
26	2	Benzene	0.00063	mg/kg	1	1		1.16	NoA
26	2	Beryllium	15.7	mg/kg	4	3	0.67	15.6	Yes
26	2	Butylbenzene	0.0021	mg/kg	1	1		391	NoA
26	2	Cadmium	2.5	mg/kg	4	3	0.21	5.07	NoA
26	2	Calcium	18400	mg/kg	4	4	200000		NoBE
26	2	Carbon disulfide	0.00098	mg/kg	1	1		76.8	NoA
26	2	Chromium	59.9	mg/kg	6	4	16	16.4	Yes
26	2	Cobalt	90.5	mg/kg	4	4	14	2.34	Yes
26	2	Copper	220	mg/kg	6	6	19	313	NoA
26	2	Ethylbenzene	0.001	mg/kg	1	1		5.78	NoA
26	2	Iron	85100	mg/kg	6	6	28000	5480	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?
26	2	Lead	39.2	mg/kg	6	4	36	400	NoA
26	2	m,p-Xylene	0.0019	mg/kg	1	1		58.4	NoA
26	2	Magnesium	1290	mg/kg	4	4	7700		NoBE
26	2	Manganese	1223	mg/kg	6	6	1500	183	NoB
26	2	Mercury	0.18	mg/kg	6	3	0.2	2.35	NoAB
26	2	Methylene chloride	0.062	mg/kg	1	1		35	NoA
26	2	Molybdenum	9.4	mg/kg	6	3		39.1	NoA
26	2	Naphthalene	0.0048	mg/kg	4	1		3.83	NoA
26	2	Nickel	188	mg/kg	6	5	21	155	Yes
26	2	PCB, Total	0.81	mg/kg	6	3		0.0782	Yes
26	2	Phenanthrene	0.56	mg/kg	3	1		171	NoA
26	2	Potassium	437	mg/kg	3	2	1300		NoBE
26	2	Propylbenzene	0.002	mg/kg	1	1		229	NoA
26	2	Selenium	13.6	mg/kg	6	2	0.8	39.1	NoA
26	2	Silicon	2420	mg/kg	1	1			NoC
26	2	Silver	0.028	mg/kg	6	1	2.3	39.1	NoAB
26	2	Sodium	354	mg/kg	4	4	320		NoE
26	2	Styrene	0.00099	mg/kg	1	1		600	NoA
26	2	Thallium	13.9	mg/kg	4	2	0.21	0.0782	Yes
26	2	Trichloroethene	0.0034	mg/kg	3	1		0.412	NoA
26	2	Uranium	1050	mg/kg	6	4	4.9	23.4	Yes
26	2	Vanadium	143	mg/kg	6	6	38	39.3	Yes
26	2	Zinc	800	mg/kg	6	6	65	2350	NoA
26	2	Actinium-228	1.69	pCi/g	1	1		1350	NoA
26	2	Americium-241	0.184	pCi/g	4	2		3.03	NoA
26	2	Cesium-137	11.2	pCi/g	4	3	0.49	0.116	Yes
26	2	Lead-212	1.88	pCi/g	1	1		6170	NoA
26	2	Lead-214	2.6	pCi/g	1	1		75600	NoA
26	2	Neptunium-237	0.26	pCi/g	4	3	0.1	0.239	Yes
26	2	Plutonium-239/240	2.42	pCi/g	4	3	0.025	3.87	NoA
26	2	Potassium-40	13.7	pCi/g	1	1	16	0.262	NoB
26	2	Protactinium-234m	79	pCi/g	1	1			NoD
26	2	Radium-228	1.69	pCi/g	1	1		1.49	Yes
26	2	Technetium-99	21.9	pCi/g	4	3	2.5	117	NoA
26	2	Thallium-208	0.82	pCi/g	1	1		37700	NoA
26	2	Thorium-228	1.81	pCi/g	4	4	1.6	31.6	NoA
26	2	Thorium-230	5.42	pCi/g	4	4	1.5	5.22	Yes
26	2	Thorium-232	2.03	pCi/g	4	4	1.5	4.24	NoA
26	2	Thorium-234	70	pCi/g	1	1			NoD
26	2	Uranium-234	27.5	pCi/g	4	4	1.2	5.93	Yes
26	2	Uranium-235	3.3	pCi/g	4	4	0.06	0.347	Yes
26	2	Uranium-238	70	pCi/g	4	4	1.2	1.28	Yes
26	3	Aluminum	8200	mg/kg	2	2	13000	7740	NoB
26	3	Antimony	1.4	mg/kg	2	2	0.21	3.13	NoA
26	3	Arsenic	130.36	mg/kg	15	6	12	0.267	Yes
26	3	Barium	815.02	mg/kg	6	6	200	1530	NoA
26	3	Beryllium	2.1	mg/kg	2	2	0.67	15.6	NoA
26	3	Cadmium	0.87	mg/kg	6	2	0.21	5.07	NoA
26	3	Calcium	41600	mg/kg	2	2	200000		NoBE
26	3	Chromium	66.62	mg/kg	15	6	16	16.4	Yes
26	3	Cobalt	13	mg/kg	2	2	14	2.34	NoB
26	3	Copper	201	mg/kg	11	11	19	313	NoA
26	3	Iron	44804	mg/kg	11	11	28000	5480	Yes
26	3	Lead	186	mg/kg	15	5	36	400	NoA
26	3	Magnesium	3660	mg/kg	2	2	7700		NoBE
26	3	Manganese	618	mg/kg	11	11	1500	183	NoB
26	3	Mercury	0.9	mg/kg	15	6	0.2	2.35	NoA
26	3	Molybdenum	57	mg/kg	10	3		39.1	Yes
26	3	Nickel	104	mg/kg	15	15	21	155	NoA
26	3	Potassium	284	mg/kg	1	1	1300		NoBE
26	3	Selenium	12.5	mg/kg	15	5	0.8	39.1	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?
26	3	Silver	10.45	mg/kg	15	4	2.3	39.1	NoA
26	3	Sodium	251	mg/kg	2	2	320		NoBE
26	3	Thallium	0.6	mg/kg	4	2	0.21	0.0782	Yes
26	3	Uranium	214	mg/kg	12	6	4.9	23.4	Yes
26	3	Vanadium	195	mg/kg	11	11	38	39.3	Yes
26	3	Zinc	209	mg/kg	11	11	65	2350	NoA
26	3	PCB, Total	0.8	mg/kg	27	5		0.0782	Yes
26	3	2-Methylnaphthalene	1.1	mg/kg	2	1		11.4	NoA
26	3	Acenaphthene	0.05	mg/kg	2	1		171	NoA
26	3	Anthracene	0.16	mg/kg	2	1		854	NoA
26	3	Benzo(ghi)perylene	0.18	mg/kg	2	2			NoC
26	3	Dibenzofuran	0.3	mg/kg	2	1		5.57	NoA
26	3	Fluoranthene	0.84	mg/kg	2	2		114	NoA
26	3	Fluorene	0.05	mg/kg	2	1		114	NoA
26	3	Naphthalene	0.72	mg/kg	2	1		3.83	NoA
26	3	PAH, Total	0.35725	mg/kg	2	2		0.00619	Yes
26	3	Phenanthrene	0.79	mg/kg	2	2		171	NoA
26	3	Pyrene	0.71	mg/kg	2	2		85.4	NoA
26	3	Americium-241	0.11	pCi/g	2	1		3.03	NoA
26	3	Cesium-137	5.43	pCi/g	2	2	0.49	0.116	Yes
26	3	Neptunium-237	0.524	pCi/g	2	1	0.1	0.239	Yes
26	3	Plutonium-238	0.0385	pCi/g	1	1	0.073	4.42	NoAB
26	3	Plutonium-239/240	0.2	pCi/g	2	2	0.025	3.87	NoA
26	3	Plutonium-239/240	1.34	pCi/g	2	2	0.025	3.87	NoA
26	3	Technetium-99	24.8	pCi/g	2	2	2.5	117	NoA
26	3	Thorium-228	0.898	pCi/g	1	1	1.6	31.6	NoAB
26	3	Thorium-230	4	pCi/g	2	2	1.5	5.22	NoA
26	3	Thorium-232	0.918	pCi/g	1	1	1.5	4.24	NoAB
26	3	Uranium-234	6.91	pCi/g	2	2	1.2	5.93	Yes
26	3	Uranium-235	0.438	pCi/g	2	1	0.06	0.347	Yes
26	3	Uranium-238	9.45	pCi/g	2	2	1.2	1.28	Yes
26	4	Aluminum	13100	mg/kg	4	4	13000	7740	Yes
26	4	Antimony	0.6	mg/kg	4	3	0.21	3.13	NoA
26	4	Arsenic	160	mg/kg	20	4	12	0.267	Yes
26	4	Barium	121	mg/kg	4	4	200	1530	NoAB
26	4	Beryllium	0.79	mg/kg	7	5	0.67	15.6	NoA
26	4	Cadmium	0.3	mg/kg	4	3	0.21	5.07	NoA
26	4	Calcium	9800	mg/kg	3	3	200000		NoBE
26	4	Chromium	231	mg/kg	23	12	16	16.4	Yes
26	4	Cobalt	8.86	mg/kg	3	3	14	2.34	NoB
26	4	Copper	187	mg/kg	20	19	19	313	NoA
26	4	Iron	33738	mg/kg	20	20	28000	5480	Yes
26	4	Lead	297	mg/kg	20	10	36	400	NoA
26	4	Magnesium	1290	mg/kg	3	3	7700		NoBE
26	4	Manganese	1030	mg/kg	20	20	1500	183	NoB
26	4	Mercury	12.4	mg/kg	23	6	0.2	2.35	Yes
26	4	Molybdenum	78	mg/kg	18	4		39.1	Yes
26	4	Nickel	203	mg/kg	20	20	21	155	Yes
26	4	Potassium	477	mg/kg	1	1	1300		NoBE
26	4	Selenium	0.85	mg/kg	20	3	0.8	39.1	NoA
26	4	Silver	0.11	mg/kg	20	3	2.3	39.1	NoAB
26	4	Sodium	254	mg/kg	3	3	320		NoBE
26	4	Thallium	0.1	mg/kg	4	2	0.21	0.0782	NoB
26	4	Uranium	3100	mg/kg	23	16	4.9	23.4	Yes
26	4	Vanadium	161	mg/kg	20	20	38	39.3	Yes
26	4	Zinc	463	mg/kg	19	19	65	2350	NoA
26	4	PCB, Total	1.9	mg/kg	36	7		0.0782	Yes
26	4	Fluoranthene	0.3	mg/kg	5	3		114	NoA
26	4	PAH, Total	9.62013	mg/kg	5	2		0.00619	Yes
26	4	Phenanthrene	0.18	mg/kg	5	2		171	NoA
26	4	Pyrene	0.36	mg/kg	5	2		85.4	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?
26	4	Acetone	0.0055	mg/kg	1	1		6070	NoA
26	4	cis-1,2-Dichloroethene	0.00031	mg/kg	1	1		15.6	NoA
26	4	Actinium-228	0.7276	pCi/g	3	3		1350	NoA
26	4	Americium-241	2.93	pCi/g	8	4		3.03	NoA
26	4	Bismuth-211	2.575	pCi/g	3	3		4940000	NoA
26	4	Bismuth-212	0.9996	pCi/g	3	1		67000	NoA
26	4	Bismuth-214	0.9513	pCi/g	3	3		13800	NoA
26	4	Cesium-137	1.69	pCi/g	8	8	0.49	0.116	Yes
26	4	Lead-211	2.575	pCi/g	3	3		192000	NoA
26	4	Lead-212	0.7047	pCi/g	3	3		6170	NoA
26	4	Lead-214	0.9859	pCi/g	3	3		75600	NoA
26	4	Neptunium-237	4.1	pCi/g	8	8	0.1	0.239	Yes
26	4	Plutonium-238	0.39	pCi/g	6	3	0.073	4.42	NoA
26	4	Plutonium-239/240	0.4	pCi/g	8	7	0.025	3.87	NoA
26	4	Plutonium-239/240	15.9	pCi/g	8	7	0.025	3.87	Yes
26	4	Potassium-40	8.657	pCi/g	3	3	16	0.262	NoB
26	4	Protactinium-233	1.064	pCi/g	3	3		64.2	NoA
26	4	Protactinium-234m	182	pCi/g	3	3			NoD
26	4	Radium-223	0.6287	pCi/g	3	3		206	NoA
26	4	Radium-226	0.8975	pCi/g	3	3	1.5	1.15	NoAB
26	4	Radium-228	0.8928	pCi/g	3	3		1.49	NoA
26	4	Radon-219	0.7544	pCi/g	3	3		130000000	NoA
26	4	Strontium-90	7	pCi/g	3	2	4.7	12.6	NoA
26	4	Technetium-99	1870	pCi/g	8	8	2.5	117	Yes
26	4	Thallium-208	0.3568	pCi/g	3	3		37700	NoA
26	4	Thorium-227	0.4506	pCi/g	3	2		158	NoA
26	4	Thorium-228	1.054	pCi/g	6	5	1.6	31.6	NoAB
26	4	Thorium-230	111	pCi/g	8	8	1.5	5.22	Yes
26	4	Thorium-232	1.47	pCi/g	6	6	1.5	4.24	NoAB
26	4	Thorium-234	176	pCi/g	3	3			NoD
26	4	Uranium-234	437	pCi/g	8	8	1.2	5.93	Yes
26	4	Uranium-235	31.9	pCi/g	8	8	0.06	0.347	Yes
26	4	Uranium-238	1040	pCi/g	8	8	1.2	1.28	Yes
77	1	Aluminum	2300	mg/kg	1	1	13000	7740	NoAB
77	1	Antimony	0.38	mg/kg	1	1	0.21	3.13	NoA
77	1	Arsenic	3.7	mg/kg	5	1	12	0.267	NoB
77	1	Barium	100	mg/kg	1	1	200	1530	NoAB
77	1	Beryllium	0.18	mg/kg	1	1	0.67	15.6	NoAB
77	1	Cadmium	0.53	mg/kg	1	1	0.21	5.07	NoA
77	1	Calcium	220000	mg/kg	1	1	200000		NoE
77	1	Chromium	83	mg/kg	5	2	16	16.4	Yes
77	1	Cobalt	2.5	mg/kg	1	1	14	2.34	NoB
77	1	Copper	170	mg/kg	5	5	19	313	NoA
77	1	Iron	50329	mg/kg	5	5	28000	5480	Yes
77	1	Lead	50	mg/kg	5	2	36	400	NoA
77	1	Magnesium	7600	mg/kg	1	1	7700		NoBE
77	1	Manganese	650	mg/kg	5	5	1500	183	NoB
77	1	Mercury	0.038	mg/kg	5	1	0.2	2.35	NoAB
77	1	Molybdenum	0.6	mg/kg	5	1		39.1	NoA
77	1	Nickel	40	mg/kg	5	4	21	155	NoA
77	1	Selenium	0.34	mg/kg	5	1	0.8	39.1	NoAB
77	1	Silver	0.058	mg/kg	5	1	2.3	39.1	NoAB
77	1	Sodium	160	mg/kg	1	1	320		NoBE
77	1	Thallium	0.06	mg/kg	1	1	0.21	0.0782	NoAB
77	1	Uranium	666	mg/kg	5	4	4.9	23.4	Yes
77	1	Vanadium	168	mg/kg	5	5	38	39.3	Yes
77	1	Zinc	178	mg/kg	5	5	65	2350	NoA
77	1	PCB, Total	5	mg/kg	6	2		0.0782	Yes
77	1	Fluoranthene	0.15	mg/kg	1	1		114	NoA
77	1	PAH, Total	0.0702	mg/kg	1	1		0.00619	Yes
77	1	Pyrene	0.15	mg/kg	1	1		85.4	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?
77	1	Americium-241	0.0437	pCi/g	2	1		3.03	NoA
77	1	Cesium-137	0.047	pCi/g	2	1	0.49	0.116	NoAB
77	1	Neptunium-237	0.21	pCi/g	2	1	0.1	0.239	NoA
77	1	Plutonium-239/240	0.283	pCi/g	2	1	0.025	3.87	NoA
77	1	Technetium-99	1.85	pCi/g	2	1	2.5	117	NoAB
77	1	Thorium-228	0.403	pCi/g	1	1	1.6	31.6	NoAB
77	1	Thorium-230	10.3	pCi/g	2	1	1.5	5.22	Yes
77	1	Thorium-232	0.471	pCi/g	1	1	1.5	4.24	NoAB
77	1	Uranium-234	4.18	pCi/g	1	1	1.2	5.93	NoA
77	1	Uranium-235	0.314	pCi/g	1	1	0.06	0.347	NoA
77	1	Uranium-238	15.3	pCi/g	1	1	1.2	1.28	Yes
80	1	Dioxins/Furans, Total	8.82151E-05	mg/kg	4	4		0.00000308	Yes
80	1	Uranium	98	mg/kg	4	4	4.9	23.4	Yes
80	1	PCB, Total	120	mg/kg	26	23		0.0782	Yes
80	2	Aluminum	9320	mg/kg	3	3	13000	7740	NoB
80	2	Antimony	58.17	mg/kg	4	3	0.21	3.13	Yes
80	2	Arsenic	10.07	mg/kg	12	3	12	0.267	NoB
80	2	Barium	269.56	mg/kg	4	4	200	1530	NoA
80	2	Beryllium	0.78	mg/kg	4	4	0.67	15.6	NoA
80	2	Cadmium	0.22	mg/kg	4	3	0.21	5.07	NoA
80	2	Calcium	63000	mg/kg	3	3	200000		NoBE
80	2	Chromium	165	mg/kg	13	4	16	16.4	Yes
80	2	Cobalt	19	mg/kg	3	3	14	2.34	Yes
80	2	Copper	45	mg/kg	12	11	19	313	NoA
80	2	Iron	35157	mg/kg	12	12	28000	5480	Yes
80	2	Lead	38	mg/kg	12	4	36	400	NoA
80	2	Magnesium	7800	mg/kg	3	3	7700		NoE
80	2	Manganese	1200	mg/kg	12	12	1500	183	NoB
80	2	Mercury	0.45	mg/kg	13	4	0.2	2.35	NoA
80	2	Molybdenum	34	mg/kg	12	3		39.1	NoA
80	2	Nickel	23	mg/kg	12	10	21	155	NoA
80	2	Selenium	1.2	mg/kg	12	3	0.8	39.1	NoA
80	2	Silver	0.045	mg/kg	12	3	2.3	39.1	NoAB
80	2	Sodium	68	mg/kg	3	3	320		NoBE
80	2	Thallium	0.17	mg/kg	3	3	0.21	0.0782	NoB
80	2	Uranium	5724	mg/kg	13	7	4.9	23.4	Yes
80	2	Vanadium	129	mg/kg	12	11	38	39.3	Yes
80	2	Zinc	152	mg/kg	12	12	65	2350	NoA
80	2	PCB, Total	12.6	mg/kg	25	16		0.0782	Yes
80	2	Acenaphthene	0.094	mg/kg	3	1		171	NoA
80	2	Anthracene	0.17	mg/kg	3	1		854	NoA
80	2	Benzo(ghi)perylene	0.36	mg/kg	3	3			NoC
80	2	Dibenzofuran	0.049	mg/kg	3	1		5.57	NoA
80	2	Fluoranthene	1.2	mg/kg	3	3		114	NoA
80	2	Fluorene	0.092	mg/kg	3	1		114	NoA
80	2	Naphthalene	0.074	mg/kg	3	1		3.83	NoA
80	2	PAH, Total	0.72143	mg/kg	3	3		0.00619	Yes
80	2	Phenanthrene	0.78	mg/kg	3	2		171	NoA
80	2	Pyrene	1	mg/kg	3	3		85.4	NoA
80	2	Actinium-228	0.2984	pCi/g	1	1		1350	NoA
80	2	Americium-241	6.4	pCi/g	5	1		3.03	Yes
80	2	Bismuth-211	1.074	pCi/g	1	1		4940000	NoA
80	2	Bismuth-214	0.633	pCi/g	1	1		13800	NoA
80	2	Cesium-137	0.84	pCi/g	5	4	0.49	0.116	Yes
80	2	Lead-211	1.074	pCi/g	1	1		192000	NoA
80	2	Lead-212	0.1997	pCi/g	1	1		6170	NoA
80	2	Lead-214	0.4105	pCi/g	1	1		75600	NoA
80	2	Neptunium-237	0.505	pCi/g	5	1	0.1	0.239	Yes
80	2	Plutonium-239/240	0.438	pCi/g	5	4	0.025	3.87	NoA
80	2	Potassium-40	3.98	pCi/g	1	1	16	0.262	NoB
80	2	Protactinium-233	0.2998	pCi/g	1	1		64.2	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?
80	2	Protactinium-234m	1330	pCi/g	1	1			NoD
80	2	Radium-226	0.319	pCi/g	1	1	1.5	1.15	NoAB
80	2	Radium-228	0.3381	pCi/g	1	1		1.49	NoA
80	2	Strontium-90	6.7	pCi/g	1	1	4.7	12.6	NoA
80	2	Technetium-99	29.5	pCi/g	5	2	2.5	117	NoA
80	2	Thallium-208	0.1662	pCi/g	1	1		37700	NoA
80	2	Thorium-228	1.04	pCi/g	5	5	1.6	31.6	NoAB
80	2	Thorium-230	4.4	pCi/g	5	5	1.5	5.22	NoA
80	2	Thorium-232	0.95	pCi/g	5	5	1.5	4.24	NoAB
80	2	Thorium-234	1330	pCi/g	1	1			NoD
80	2	Uranium-234	229	pCi/g	5	5	1.2	5.93	Yes
80	2	Uranium-235	30	pCi/g	5	5	0.06	0.347	Yes
80	2	Uranium-238	1921	pCi/g	5	5	1.2	1.28	Yes
80	3	Aluminum	7500	mg/kg	1	1	13000	7740	NoAB
80	3	Antimony	0.16	mg/kg	2	1	0.21	3.13	NoAB
80	3	Arsenic	11.95	mg/kg	13	2	12	0.267	NoB
80	3	Barium	313.73	mg/kg	2	2	200	1530	NoA
80	3	Beryllium	0.39	mg/kg	1	1	0.67	15.6	NoAB
80	3	Cadmium	0.022	mg/kg	2	1	0.21	5.07	NoAB
80	3	Calcium	2400	mg/kg	1	1	200000		NoBE
80	3	Chromium	37.7	mg/kg	13	2	16	16.4	Yes
80	3	Cobalt	5.6	mg/kg	1	1	14	2.34	NoB
80	3	Copper	45	mg/kg	13	11	19	313	NoA
80	3	Iron	41269	mg/kg	13	13	28000	5480	Yes
80	3	Lead	113	mg/kg	13	3	36	400	NoA
80	3	Magnesium	900	mg/kg	1	1	7700		NoBE
80	3	Manganese	2066	mg/kg	13	12	1500	183	Yes
80	3	Mercury	0.033	mg/kg	13	1	0.2	2.35	NoAB
80	3	Molybdenum	46	mg/kg	13	2		39.1	Yes
80	3	Nickel	19	mg/kg	13	10	21	155	NoAB
80	3	PAH, Total	0.00495	mg/kg	1	1		0.00619	NoA
80	3	PCB, Total	475	mg/kg	37	13		0.0782	Yes
80	3	Selenium	5	mg/kg	13	2	0.8	39.1	NoA
80	3	Silver	0.02	mg/kg	13	2	2.3	39.1	NoAB
80	3	Sodium	25	mg/kg	1	1	320		NoBE
80	3	Thallium	0.17	mg/kg	1	1	0.21	0.0782	NoB
80	3	Uranium	108	mg/kg	13	4	4.9	23.4	Yes
80	3	Vanadium	138	mg/kg	13	12	38	39.3	Yes
80	3	Zinc	638	mg/kg	13	12	65	2350	NoA
80	3	Thorium-228	0.975	pCi/g	1	1	1.6	31.6	NoAB
80	3	Thorium-230	1.12	pCi/g	1	1	1.5	5.22	NoAB
80	3	Thorium-232	0.911	pCi/g	1	1	1.5	4.24	NoAB
80	3	Uranium-234	0.887	pCi/g	1	1	1.2	5.93	NoAB
80	3	Uranium-235	0.0491	pCi/g	1	1	0.06	0.347	NoAB
80	3	Uranium-238	1.59	pCi/g	1	1	1.2	1.28	Yes
204	1	Aluminum	13700	mg/kg	3	3	13000	7740	Yes
204	1	Antimony	0.13	mg/kg	3	1	0.21	3.13	NoAB
204	1	Arsenic	6.8	mg/kg	13	2	12	0.267	NoB
204	1	Barium	110	mg/kg	3	3	200	1530	NoAB
204	1	Beryllium	0.515	mg/kg	3	2	0.67	15.6	NoAB
204	1	Cadmium	0.08	mg/kg	3	1	0.21	5.07	NoAB
204	1	Calcium	2400	mg/kg	3	3	200000		NoBE
204	1	Chromium	18	mg/kg	13	3	16	16.4	Yes
204	1	Cobalt	6.3	mg/kg	3	3	14	2.34	NoB
204	1	Copper	55	mg/kg	13	12	19	313	NoA
204	1	Iron	25982	mg/kg	13	13	28000	5480	NoB
204	1	Lead	13	mg/kg	13	1	36	400	NoAB
204	1	Magnesium	1750	mg/kg	3	3	7700		NoBE
204	1	Manganese	649	mg/kg	13	13	1500	183	NoB
204	1	Mercury	0.036	mg/kg	13	1	0.2	2.35	NoAB
204	1	Molybdenum	28	mg/kg	13	1		39.1	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?
204	1	Nickel	20	mg/kg	13	13	21	155	NoAB
204	1	Potassium	1190	mg/kg	2	2	1300		NoBE
204	1	Selenium	0.97	mg/kg	13	1	0.8	39.1	NoA
204	1	Silver	0.032	mg/kg	13	1	2.3	39.1	NoAB
204	1	Sodium	183	mg/kg	3	3	320		NoBE
204	1	Thallium	0.14	mg/kg	3	1	0.21	0.0782	NoB
204	1	Uranium	4.7	mg/kg	13	2	4.9	23.4	NoAB
204	1	Vanadium	131	mg/kg	13	13	38	39.3	Yes
204	1	Zinc	84	mg/kg	13	13	65	2350	NoA
204	1	PAH, Total	0.00806	mg/kg	3	1		0.00619	Yes
204	1	Cesium-137	0.23	pCi/g	3	1	0.49	0.116	NoB
204	1	Thorium-228	1.07	pCi/g	3	3	1.6	31.6	NoAB
204	1	Thorium-230	1.1	pCi/g	3	2	1.5	5.22	NoAB
204	1	Thorium-232	1.02	pCi/g	3	3	1.5	4.24	NoAB
204	1	Uranium-234	1.26	pCi/g	3	2	1.2	5.93	NoA
204	1	Uranium-235	0.068	pCi/g	3	1	0.06	0.347	NoA
204	1	Uranium-238	1.76	pCi/g	3	3	1.2	1.28	Yes
204	2	Aluminum	8200	mg/kg	1	1	13000	7740	NoB
204	2	Antimony	0.16	mg/kg	1	1	0.21	3.13	NoAB
204	2	Arsenic	84	mg/kg	11	2	12	0.267	Yes
204	2	Barium	110	mg/kg	1	1	200	1530	NoAB
204	2	Beryllium	0.54	mg/kg	1	1	0.67	15.6	NoAB
204	2	Cadmium	0.12	mg/kg	1	1	0.21	5.07	NoAB
204	2	Calcium	3200	mg/kg	1	1	200000		NoBE
204	2	Chromium	37	mg/kg	11	1	16	16.4	Yes
204	2	Cobalt	7	mg/kg	1	1	14	2.34	NoB
204	2	Copper	49	mg/kg	11	10	19	313	NoA
204	2	Iron	26839	mg/kg	11	11	28000	5480	NoB
204	2	Lead	14	mg/kg	11	1	36	400	NoAB
204	2	Magnesium	1400	mg/kg	1	1	7700		NoBE
204	2	Manganese	862	mg/kg	11	11	1500	183	NoB
204	2	Mercury	0.064	mg/kg	11	1	0.2	2.35	NoAB
204	2	Molybdenum	30	mg/kg	11	3		39.1	NoA
204	2	Nickel	24	mg/kg	11	9	21	155	NoA
204	2	Selenium	1.1	mg/kg	11	1	0.8	39.1	NoA
204	2	Silver	0.026	mg/kg	11	1	2.3	39.1	NoAB
204	2	Sodium	21	mg/kg	1	1	320		NoBE
204	2	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
204	2	Uranium	12	mg/kg	11	1	4.9	23.4	NoA
204	2	Vanadium	132	mg/kg	11	11	38	39.3	Yes
204	2	Zinc	112	mg/kg	11	11	65	2350	NoA
204	2	PAH, Total	0.062	mg/kg	1	1		0.00619	Yes
204	2	Cesium-137	0.244	pCi/g	1	1	0.49	0.116	NoB
204	2	Plutonium-238	0.0237	pCi/g	1	1	0.073	4.42	NoAB
204	2	Technetium-99	0.889	pCi/g	1	1	2.5	117	NoAB
204	2	Thorium-228	1.05	pCi/g	1	1	1.6	31.6	NoAB
204	2	Thorium-230	1.17	pCi/g	1	1	1.5	5.22	NoAB
204	2	Thorium-232	1.06	pCi/g	1	1	1.5	4.24	NoAB
204	2	Uranium-234	1.78	pCi/g	1	1	1.2	5.93	NoA
204	2	Uranium-235	0.0871	pCi/g	1	1	0.06	0.347	NoA
204	2	Uranium-238	3.92	pCi/g	1	1	1.2	1.28	Yes
204	3	Aluminum	7900	mg/kg	1	1	13000	7740	NoB
204	3	Antimony	0.28	mg/kg	1	1	0.21	3.13	NoA
204	3	Arsenic	11	mg/kg	10	1	12	0.267	NoB
204	3	Barium	82	mg/kg	1	1	200	1530	NoAB
204	3	Beryllium	0.55	mg/kg	1	1	0.67	15.6	NoAB
204	3	Cadmium	0.13	mg/kg	1	1	0.21	5.07	NoAB
204	3	Calcium	3400	mg/kg	1	1	200000		NoBE
204	3	Chromium	18	mg/kg	10	1	16	16.4	Yes
204	3	Cobalt	5	mg/kg	1	1	14	2.34	NoB
204	3	Copper	52	mg/kg	10	9	19	313	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?
204	3	Iron	26547	mg/kg	10	10	28000	5480	NoB
204	3	Lead	15	mg/kg	10	1	36	400	NoAB
204	3	Magnesium	1200	mg/kg	1	1	7700		NoBE
204	3	Manganese	653	mg/kg	10	10	1500	183	NoB
204	3	Mercury	0.048	mg/kg	10	1	0.2	2.35	NoAB
204	3	Molybdenum	0.91	mg/kg	10	1		39.1	NoA
204	3	Nickel	17	mg/kg	10	6	21	155	NoAB
204	3	Selenium	1.3	mg/kg	10	1	0.8	39.1	NoA
204	3	Silver	54	mg/kg	10	2	2.3	39.1	Yes
204	3	Sodium	48	mg/kg	1	1	320		NoBE
204	3	Thallium	0.13	mg/kg	1	1	0.21	0.0782	NoB
204	3	Uranium	7.4	mg/kg	10	1	4.9	23.4	NoA
204	3	Vanadium	122	mg/kg	10	10	38	39.3	Yes
204	3	Zinc	869	mg/kg	10	10	65	2350	NoA
204	3	PAH, Total	0.0352	mg/kg	1	1		0.00619	Yes
204	3	Cesium-137	0.276	pCi/g	1	1	0.49	0.116	NoB
204	3	Technetium-99	1.11	pCi/g	1	1	2.5	117	NoAB
204	3	Thorium-228	1	pCi/g	1	1	1.6	31.6	NoAB
204	3	Thorium-230	0.932	pCi/g	1	1	1.5	5.22	NoAB
204	3	Thorium-232	0.936	pCi/g	1	1	1.5	4.24	NoAB
204	3	Uranium-234	1.41	pCi/g	1	1	1.2	5.93	NoA
204	3	Uranium-235	0.0775	pCi/g	1	1	0.06	0.347	NoA
204	3	Uranium-238	2.31	pCi/g	1	1	1.2	1.28	Yes
204	4	Aluminum	6800	mg/kg	1	1	13000	7740	NoAB
204	4	Antimony	0.23	mg/kg	1	1	0.21	3.13	NoA
204	4	Arsenic	11	mg/kg	9	1	12	0.267	NoB
204	4	Barium	77	mg/kg	1	1	200	1530	NoAB
204	4	Beryllium	0.53	mg/kg	1	1	0.67	15.6	NoAB
204	4	Cadmium	0.069	mg/kg	1	1	0.21	5.07	NoAB
204	4	Calcium	2300	mg/kg	1	1	200000		NoBE
204	4	Chromium	14	mg/kg	9	1	16	16.4	NoAB
204	4	Cobalt	5.5	mg/kg	1	1	14	2.34	NoB
204	4	Copper	49	mg/kg	9	8	19	313	NoA
204	4	Iron	29217	mg/kg	9	9	28000	5480	Yes
204	4	Lead	16	mg/kg	9	1	36	400	NoAB
204	4	Magnesium	840	mg/kg	1	1	7700		NoBE
204	4	Manganese	701	mg/kg	9	9	1500	183	NoB
204	4	Mercury	0.053	mg/kg	9	1	0.2	2.35	NoAB
204	4	Molybdenum	41	mg/kg	9	2		39.1	Yes
204	4	Nickel	20	mg/kg	9	5	21	155	NoAB
204	4	Selenium	1.1	mg/kg	9	1	0.8	39.1	NoA
204	4	Silver	59	mg/kg	9	2	2.3	39.1	Yes
204	4	Sodium	25	mg/kg	1	1	320		NoBE
204	4	Thallium	0.13	mg/kg	1	1	0.21	0.0782	NoB
204	4	Uranium	3.8	mg/kg	9	1	4.9	23.4	NoAB
204	4	Vanadium	139	mg/kg	9	9	38	39.3	Yes
204	4	Zinc	106	mg/kg	9	9	65	2350	NoA
204	4	PAH, Total	0.0233	mg/kg	1	1		0.00619	Yes
204	4	Cesium-137	0.26	pCi/g	1	1	0.49	0.116	NoB
204	4	Neptunium-237	0.0158	pCi/g	1	1	0.1	0.239	NoAB
204	4	Technetium-99	1.07	pCi/g	1	1	2.5	117	NoAB
204	4	Thorium-228	1.05	pCi/g	1	1	1.6	31.6	NoAB
204	4	Thorium-230	1.25	pCi/g	1	1	1.5	5.22	NoAB
204	4	Thorium-232	0.988	pCi/g	1	1	1.5	4.24	NoAB
204	4	Uranium-234	1.43	pCi/g	1	1	1.2	5.93	NoA
204	4	Uranium-235	0.0564	pCi/g	1	1	0.06	0.347	NoAB
204	4	Uranium-238	1.82	pCi/g	1	1	1.2	1.28	Yes
204	5	Aluminum	6510	mg/kg	5	5	13000	7740	NoAB
204	5	Antimony	1.1	mg/kg	5	3	0.21	3.13	NoA
204	5	Arsenic	107	mg/kg	15	4	12	0.267	Yes
204	5	Barium	69	mg/kg	5	5	200	1530	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?
204	5	Beryllium	0.33	mg/kg	5	3	0.67	15.6	NoAB
204	5	Cadmium	0.61	mg/kg	5	3	0.21	5.07	NoA
204	5	Calcium	14000	mg/kg	5	5	200000		NoBE
204	5	Chromium	28.9	mg/kg	15	5	16	16.4	Yes
204	5	Cobalt	5	mg/kg	5	4	14	2.34	NoB
204	5	Copper	57	mg/kg	15	15	19	313	NoA
204	5	Iron	25991	mg/kg	15	15	28000	5480	NoB
204	5	Lead	63	mg/kg	15	4	36	400	NoA
204	5	Magnesium	1300	mg/kg	5	5	7700		NoBE
204	5	Manganese	821	mg/kg	15	15	1500	183	NoB
204	5	Mercury	0.12	mg/kg	15	3	0.2	2.35	NoAB
204	5	Molybdenum	0.86	mg/kg	15	3		39.1	NoA
204	5	Nickel	23	mg/kg	15	14	21	155	NoA
204	5	Potassium	644	mg/kg	4	4	1300		NoBE
204	5	Selenium	0.72	mg/kg	15	1	0.8	39.1	NoAB
204	5	Silicon	498	mg/kg	2	2			NoC
204	5	Silver	0.023	mg/kg	15	1	2.3	39.1	NoAB
204	5	Sodium	108	mg/kg	5	3	320		NoBE
204	5	Thallium	0.086	mg/kg	5	1	0.21	0.0782	NoB
204	5	Uranium	2.2	mg/kg	11	1	4.9	23.4	NoAB
204	5	Vanadium	132	mg/kg	15	15	38	39.3	Yes
204	5	Zinc	166	mg/kg	15	15	65	2350	NoA
204	5	PAH, Total	0.02037	mg/kg	1	1		0.00619	Yes
204	5	Cesium-137	0.19	pCi/g	2	2	0.49	0.116	NoB
204	5	Plutonium-238	0.0178	pCi/g	4	1	0.073	4.42	NoAB
204	5	Protactinium-234m	15.49	pCi/g	2	2			NoD
204	5	Technetium-99	4.17	pCi/g	4	3	2.5	117	NoA
204	5	Thorium-228	1.04	pCi/g	2	2	1.6	31.6	NoAB
204	5	Thorium-230	1.13	pCi/g	2	2	1.5	5.22	NoAB
204	5	Thorium-232	1.06	pCi/g	2	2	1.5	4.24	NoAB
204	5	Thorium-234	10.06	pCi/g	2	2			NoD
204	5	Uranium-234	2.095	pCi/g	4	4	1.2	5.93	NoA
204	5	Uranium-235	0.1878	pCi/g	4	4	0.06	0.347	NoA
204	5	Uranium-238	9.723	pCi/g	4	4	1.2	1.28	Yes
204	6	Aluminum	9200	mg/kg	1	1	13000	7740	NoB
204	6	Antimony	0.18	mg/kg	1	1	0.21	3.13	NoAB
204	6	Arsenic	9	mg/kg	9	1	12	0.267	NoB
204	6	Barium	89	mg/kg	1	1	200	1530	NoAB
204	6	Beryllium	0.49	mg/kg	1	1	0.67	15.6	NoAB
204	6	Cadmium	0.067	mg/kg	1	1	0.21	5.07	NoAB
204	6	Calcium	2700	mg/kg	1	1	200000		NoBE
204	6	Chromium	14	mg/kg	9	1	16	16.4	NoAB
204	6	Cobalt	6.5	mg/kg	1	1	14	2.34	NoB
204	6	Copper	45	mg/kg	9	8	19	313	NoA
204	6	Iron	26818	mg/kg	9	9	28000	5480	NoB
204	6	Lead	89	mg/kg	9	3	36	400	NoA
204	6	Magnesium	1200	mg/kg	1	1	7700		NoBE
204	6	Manganese	914	mg/kg	9	9	1500	183	NoB
204	6	Mercury	0.054	mg/kg	9	1	0.2	2.35	NoAB
204	6	Molybdenum	34	mg/kg	9	2		39.1	NoA
204	6	Nickel	23	mg/kg	9	7	21	155	NoA
204	6	Selenium	1.3	mg/kg	9	1	0.8	39.1	NoA
204	6	Silver	0.036	mg/kg	9	1	2.3	39.1	NoAB
204	6	Sodium	31	mg/kg	1	1	320		NoBE
204	6	Thallium	0.18	mg/kg	1	1	0.21	0.0782	NoB
204	6	Uranium	11	mg/kg	9	1	4.9	23.4	NoA
204	6	Vanadium	125	mg/kg	9	9	38	39.3	Yes
204	6	Zinc	118	mg/kg	9	9	65	2350	NoA
204	6	PAH, Total	0.0325	mg/kg	1	1		0.00619	Yes
204	6	Cesium-137	0.222	pCi/g	1	1	0.49	0.116	NoB
204	6	Plutonium-238	0.011	pCi/g	1	1	0.073	4.42	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?
204	6	Plutonium-239/240	0.0228	pCi/g	1	1	0.025	3.87	NoAB
204	6	Thorium-228	1.02	pCi/g	1	1	1.6	31.6	NoAB
204	6	Thorium-230	1.27	pCi/g	1	1	1.5	5.22	NoAB
204	6	Thorium-232	1.05	pCi/g	1	1	1.5	4.24	NoAB
204	6	Uranium-234	1.62	pCi/g	1	1	1.2	5.93	NoA
204	6	Uranium-235	0.0943	pCi/g	1	1	0.06	0.347	NoA
204	6	Uranium-238	3.63	pCi/g	1	1	1.2	1.28	Yes
204	7	Aluminum	6200	mg/kg	1	1	13000	7740	NoAB
204	7	Antimony	0.15	mg/kg	1	1	0.21	3.13	NoAB
204	7	Arsenic	6.6	mg/kg	9	1	12	0.267	NoB
204	7	Barium	67	mg/kg	1	1	200	1530	NoAB
204	7	Beryllium	0.36	mg/kg	1	1	0.67	15.6	NoAB
204	7	Cadmium	0.07	mg/kg	1	1	0.21	5.07	NoAB
204	7	Calcium	9700	mg/kg	1	1	200000		NoBE
204	7	Chromium	11	mg/kg	9	1	16	16.4	NoAB
204	7	Cobalt	4.9	mg/kg	1	1	14	2.34	NoB
204	7	Copper	45	mg/kg	9	9	19	313	NoA
204	7	Iron	29466	mg/kg	9	9	28000	5480	Yes
204	7	Lead	12	mg/kg	9	1	36	400	NoAB
204	7	Magnesium	970	mg/kg	1	1	7700		NoBE
204	7	Manganese	1939	mg/kg	9	9	1500	183	Yes
204	7	Mercury	0.068	mg/kg	9	1	0.2	2.35	NoAB
204	7	Molybdenum	0.61	mg/kg	9	1		39.1	NoA
204	7	Nickel	18	mg/kg	9	5	21	155	NoAB
204	7	Selenium	1	mg/kg	9	1	0.8	39.1	NoA
204	7	Silver	0.019	mg/kg	9	1	2.3	39.1	NoAB
204	7	Sodium	19	mg/kg	1	1	320		NoBE
204	7	Thallium	0.11	mg/kg	1	1	0.21	0.0782	NoB
204	7	Uranium	7	mg/kg	9	1	4.9	23.4	NoA
204	7	Vanadium	127	mg/kg	9	9	38	39.3	Yes
204	7	Zinc	90	mg/kg	9	9	65	2350	NoA
204	7	PAH, Total	0.00968	mg/kg	1	1		0.00619	Yes
204	7	Cesium-137	0.223	pCi/g	1	1	0.49	0.116	NoB
204	7	Technetium-99	0.774	pCi/g	1	1	2.5	117	NoAB
204	7	Thorium-228	0.979	pCi/g	1	1	1.6	31.6	NoAB
204	7	Thorium-230	1	pCi/g	1	1	1.5	5.22	NoAB
204	7	Thorium-232	0.886	pCi/g	1	1	1.5	4.24	NoAB
204	7	Uranium-234	1.15	pCi/g	1	1	1.2	5.93	NoAB
204	7	Uranium-235	0.0678	pCi/g	1	1	0.06	0.347	NoA
204	7	Uranium-238	2.04	pCi/g	1	1	1.2	1.28	Yes
204	8	Aluminum	10000	mg/kg	1	1	13000	7740	NoB
204	8	Antimony	0.23	mg/kg	1	1	0.21	3.13	NoA
204	8	Arsenic	8.4	mg/kg	10	1	12	0.267	NoB
204	8	Barium	140	mg/kg	1	1	200	1530	NoAB
204	8	Beryllium	0.61	mg/kg	1	1	0.67	15.6	NoAB
204	8	Cadmium	0.15	mg/kg	1	1	0.21	5.07	NoAB
204	8	Calcium	5400	mg/kg	1	1	200000		NoBE
204	8	Chromium	17	mg/kg	10	1	16	16.4	Yes
204	8	Cobalt	14	mg/kg	1	1	14	2.34	Yes
204	8	Copper	48	mg/kg	10	9	19	313	NoA
204	8	Iron	29412	mg/kg	10	10	28000	5480	Yes
204	8	Lead	15	mg/kg	10	1	36	400	NoAB
204	8	Magnesium	1800	mg/kg	1	1	7700		NoBE
204	8	Manganese	1300	mg/kg	10	10	1500	183	NoB
204	8	Mercury	0.041	mg/kg	10	1	0.2	2.35	NoAB
204	8	Molybdenum	0.89	mg/kg	10	1		39.1	NoA
204	8	Nickel	22	mg/kg	10	7	21	155	NoA
204	8	Selenium	1.3	mg/kg	10	1	0.8	39.1	NoA
204	8	Silver	0.028	mg/kg	10	1	2.3	39.1	NoAB
204	8	Sodium	31	mg/kg	1	1	320		NoBE
204	8	Thallium	0.16	mg/kg	1	1	0.21	0.0782	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?
204	8	Uranium	2.6	mg/kg	10	1	4.9	23.4	NoAB
204	8	Vanadium	132	mg/kg	10	10	38	39.3	Yes
204	8	Zinc	90	mg/kg	10	10	65	2350	NoA
204	8	bis(2-ethylhexyl)phthalate	0.21	mg/kg	1	1		14.3	NoA
204	8	Fluoranthene	0.82	mg/kg	1	1		114	NoA
204	8	PAH, Total	0.07365	mg/kg	1	1		0.00619	Yes
204	8	Phenanthrene	0.16	mg/kg	1	1		171	NoA
204	8	Pyrene	0.84	mg/kg	1	1		85.4	NoA
204	8	Cesium-137	0.214	pCi/g	1	1	0.49	0.116	NoB
204	8	Thorium-228	0.934	pCi/g	1	1	1.6	31.6	NoAB
204	8	Thorium-230	1.15	pCi/g	1	1	1.5	5.22	NoAB
204	8	Thorium-232	0.958	pCi/g	1	1	1.5	4.24	NoAB
204	8	Uranium-234	1.27	pCi/g	1	1	1.2	5.93	NoA
204	8	Uranium-235	0.072	pCi/g	1	1	0.06	0.347	NoA
204	8	Uranium-238	2.01	pCi/g	1	1	1.2	1.28	Yes
204	9	Aluminum	9300	mg/kg	1	1	13000	7740	NoB
204	9	Antimony	0.23	mg/kg	1	1	0.21	3.13	NoA
204	9	Arsenic	8.4	mg/kg	9	1	12	0.267	NoB
204	9	Barium	96	mg/kg	1	1	200	1530	NoAB
204	9	Beryllium	0.59	mg/kg	1	1	0.67	15.6	NoAB
204	9	Cadmium	0.11	mg/kg	1	1	0.21	5.07	NoAB
204	9	Calcium	9000	mg/kg	1	1	200000		NoBE
204	9	Chromium	18	mg/kg	9	1	16	16.4	Yes
204	9	Cobalt	7.3	mg/kg	1	1	14	2.34	NoB
204	9	Copper	46	mg/kg	9	9	19	313	NoA
204	9	Iron	29620	mg/kg	9	9	28000	5480	Yes
204	9	Lead	13	mg/kg	9	1	36	400	NoAB
204	9	Magnesium	1600	mg/kg	1	1	7700		NoBE
204	9	Manganese	520	mg/kg	9	9	1500	183	NoB
204	9	Mercury	0.054	mg/kg	9	1	0.2	2.35	NoAB
204	9	Molybdenum	0.7	mg/kg	9	1		39.1	NoA
204	9	Nickel	26	mg/kg	9	8	21	155	NoA
204	9	Selenium	1.3	mg/kg	9	1	0.8	39.1	NoA
204	9	Silver	0.031	mg/kg	9	1	2.3	39.1	NoAB
204	9	Sodium	25	mg/kg	1	1	320		NoBE
204	9	Thallium	0.15	mg/kg	1	1	0.21	0.0782	NoB
204	9	Uranium	2.6	mg/kg	9	1	4.9	23.4	NoAB
204	9	Vanadium	137	mg/kg	9	9	38	39.3	Yes
204	9	Zinc	90	mg/kg	9	9	65	2350	NoA
204	9	Benzo(ghi)perylene	0.57	mg/kg	1	1			NoC
204	9	Fluoranthene	0.99	mg/kg	1	1		114	NoA
204	9	PAH, Total	5.00941	mg/kg	1	1		0.00619	Yes
204	9	Phenanthrene	0.24	mg/kg	1	1		171	NoA
204	9	Pyrene	1.2	mg/kg	1	1		85.4	NoA
204	9	Cesium-137	0.251	pCi/g	1	1	0.49	0.116	NoB
204	9	Plutonium-238	0.0225	pCi/g	1	1	0.073	4.42	NoAB
204	9	Plutonium-239/240	0.0225	pCi/g	1	1	0.025	3.87	NoAB
204	9	Thorium-228	0.975	pCi/g	1	1	1.6	31.6	NoAB
204	9	Thorium-230	1.11	pCi/g	1	1	1.5	5.22	NoAB
204	9	Thorium-232	0.918	pCi/g	1	1	1.5	4.24	NoAB
204	9	Uranium-234	1.28	pCi/g	1	1	1.2	5.93	NoA
204	9	Uranium-235	0.0921	pCi/g	1	1	0.06	0.347	NoA
204	9	Uranium-238	2.22	pCi/g	1	1	1.2	1.28	Yes
204	10	Aluminum	4900	mg/kg	1	1	13000	7740	NoAB
204	10	Antimony	12	mg/kg	1	1	0.21	3.13	Yes
204	10	Arsenic	5.4	mg/kg	9	1	12	0.267	NoB
204	10	Barium	26	mg/kg	1	1	200	1530	NoAB
204	10	Beryllium	0.28	mg/kg	1	1	0.67	15.6	NoAB
204	10	Cadmium	0.52	mg/kg	1	1	0.21	5.07	NoA
204	10	Calcium	230000	mg/kg	1	1	200000		NoE
204	10	Chromium	12	mg/kg	9	1	16	16.4	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?
204	10	Cobalt	3	mg/kg	1	1	14	2.34	NoB
204	10	Copper	43	mg/kg	9	9	19	313	NoA
204	10	Iron	30843	mg/kg	9	9	28000	5480	Yes
204	10	Lead	220	mg/kg	9	1	36	400	NoA
204	10	Magnesium	7900	mg/kg	1	1	7700		NoE
204	10	Manganese	706	mg/kg	9	9	1500	183	NoB
204	10	Mercury	0.037	mg/kg	9	1	0.2	2.35	NoAB
204	10	Molybdenum	1.5	mg/kg	9	1		39.1	NoA
204	10	Nickel	26	mg/kg	9	7	21	155	NoA
204	10	Selenium	0.71	mg/kg	9	1	0.8	39.1	NoAB
204	10	Silver	0.045	mg/kg	9	1	2.3	39.1	NoAB
204	10	Sodium	110	mg/kg	1	1	320		NoBE
204	10	Thallium	0.13	mg/kg	1	1	0.21	0.0782	NoB
204	10	Uranium	8	mg/kg	9	1	4.9	23.4	NoA
204	10	Vanadium	119	mg/kg	9	9	38	39.3	Yes
204	10	Zinc	242	mg/kg	9	9	65	2350	NoA
204	10	Fluoranthene	0.45	mg/kg	1	1		114	NoA
204	10	PAH, Total	0.0642	mg/kg	1	1		0.00619	Yes
204	10	Phenanthrene	0.37	mg/kg	1	1		171	NoA
204	10	Pyrene	0.33	mg/kg	1	1		85.4	NoA
204	10	Cesium-137	0.283	pCi/g	1	1	0.49	0.116	NoB
204	10	Neptunium-237	0.0128	pCi/g	1	1	0.1	0.239	NoAB
204	10	Plutonium-238	0.0183	pCi/g	1	1	0.073	4.42	NoAB
204	10	Thorium-228	0.391	pCi/g	1	1	1.6	31.6	NoAB
204	10	Thorium-230	1.25	pCi/g	1	1	1.5	5.22	NoAB
204	10	Thorium-232	0.366	pCi/g	1	1	1.5	4.24	NoAB
204	10	Uranium-234	1.23	pCi/g	1	1	1.2	5.93	NoA
204	10	Uranium-238	3.15	pCi/g	1	1	1.2	1.28	Yes
204	11	Aluminum	8200	mg/kg	1	1	13000	7740	NoB
204	11	Antimony	0.14	mg/kg	1	1	0.21	3.13	NoAB
204	11	Arsenic	8.8	mg/kg	10	1	12	0.267	NoB
204	11	Barium	100	mg/kg	1	1	200	1530	NoAB
204	11	Beryllium	0.53	mg/kg	1	1	0.67	15.6	NoAB
204	11	Cadmium	0.096	mg/kg	1	1	0.21	5.07	NoAB
204	11	Calcium	2600	mg/kg	1	1	200000		NoBE
204	11	Chromium	13	mg/kg	10	1	16	16.4	NoAB
204	11	Cobalt	7.3	mg/kg	1	1	14	2.34	NoB
204	11	Copper	48	mg/kg	10	10	19	313	NoA
204	11	Iron	30516	mg/kg	10	10	28000	5480	Yes
204	11	Lead	14	mg/kg	10	1	36	400	NoAB
204	11	Magnesium	1100	mg/kg	1	1	7700		NoBE
204	11	Manganese	846	mg/kg	10	10	1500	183	NoB
204	11	Mercury	0.054	mg/kg	10	1	0.2	2.35	NoAB
204	11	Molybdenum	37	mg/kg	10	2		39.1	NoA
204	11	Nickel	29	mg/kg	10	7	21	155	NoA
204	11	Selenium	1.3	mg/kg	10	1	0.8	39.1	NoA
204	11	Silver	0.028	mg/kg	10	1	2.3	39.1	NoAB
204	11	Sodium	25	mg/kg	1	1	320		NoBE
204	11	Thallium	0.16	mg/kg	1	1	0.21	0.0782	NoB
204	11	Uranium	6.5	mg/kg	10	1	4.9	23.4	NoA
204	11	Vanadium	143	mg/kg	10	10	38	39.3	Yes
204	11	Zinc	110	mg/kg	10	10	65	2350	NoA
204	11	PAH, Total	0.0895	mg/kg	1	1		0.00619	Yes
204	11	Cesium-137	0.183	pCi/g	1	1	0.49	0.116	NoB
204	11	Thorium-228	0.976	pCi/g	1	1	1.6	31.6	NoAB
204	11	Thorium-230	1.19	pCi/g	1	1	1.5	5.22	NoAB
204	11	Thorium-232	1.08	pCi/g	1	1	1.5	4.24	NoAB
204	11	Uranium-234	1.64	pCi/g	1	1	1.2	5.93	NoA
204	11	Uranium-235	0.093	pCi/g	1	1	0.06	0.347	NoA
204	11	Uranium-238	3.09	pCi/g	1	1	1.2	1.28	Yes
204	12	Aluminum	10000	mg/kg	1	1	13000	7740	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?
204	12	Antimony	0.19	mg/kg	1	1	0.21	3.13	NoAB
204	12	Arsenic	9.8	mg/kg	11	1	12	0.267	NoB
204	12	Barium	110	mg/kg	1	1	200	1530	NoAB
204	12	Beryllium	0.64	mg/kg	1	1	0.67	15.6	NoAB
204	12	Cadmium	0.17	mg/kg	1	1	0.21	5.07	NoAB
204	12	Calcium	5700	mg/kg	1	1	200000		NoBE
204	12	Chromium	16	mg/kg	11	1	16	16.4	NoA
204	12	Cobalt	8.1	mg/kg	1	1	14	2.34	NoB
204	12	Copper	53	mg/kg	11	11	19	313	NoA
204	12	Iron	28613	mg/kg	11	11	28000	5480	Yes
204	12	Lead	121	mg/kg	11	2	36	400	NoA
204	12	Magnesium	1700	mg/kg	1	1	7700		NoBE
204	12	Manganese	1491	mg/kg	11	11	1500	183	NoB
204	12	Mercury	0.077	mg/kg	11	1	0.2	2.35	NoAB
204	12	Molybdenum	0.86	mg/kg	11	1		39.1	NoA
204	12	Nickel	25	mg/kg	11	9	21	155	NoA
204	12	Selenium	1.6	mg/kg	11	1	0.8	39.1	NoA
204	12	Silver	0.027	mg/kg	11	1	2.3	39.1	NoAB
204	12	Sodium	27	mg/kg	1	1	320		NoBE
204	12	Thallium	0.21	mg/kg	1	1	0.21	0.0782	Yes
204	12	Uranium	7.9	mg/kg	11	1	4.9	23.4	NoA
204	12	Vanadium	144	mg/kg	11	11	38	39.3	Yes
204	12	Zinc	81	mg/kg	11	11	65	2350	NoA
204	12	Fluoranthene	0.18	mg/kg	1	1		114	NoA
204	12	PAH, Total	0.0643	mg/kg	1	1		0.00619	Yes
204	12	Cesium-137	0.293	pCi/g	1	1	0.49	0.116	NoB
204	12	Thorium-228	0.937	pCi/g	1	1	1.6	31.6	NoAB
204	12	Thorium-230	1.12	pCi/g	1	1	1.5	5.22	NoAB
204	12	Thorium-232	0.931	pCi/g	1	1	1.5	4.24	NoAB
204	12	Uranium-234	1.63	pCi/g	1	1	1.2	5.93	NoA
204	12	Uranium-235	0.115	pCi/g	1	1	0.06	0.347	NoA
204	12	Uranium-238	3.26	pCi/g	1	1	1.2	1.28	Yes
204	13	Aluminum	8600	mg/kg	1	1	13000	7740	NoB
204	13	Antimony	0.2	mg/kg	1	1	0.21	3.13	NoAB
204	13	Arsenic	8.6	mg/kg	9	1	12	0.267	NoB
204	13	Barium	96	mg/kg	1	1	200	1530	NoAB
204	13	Beryllium	0.56	mg/kg	1	1	0.67	15.6	NoAB
204	13	Cadmium	0.11	mg/kg	1	1	0.21	5.07	NoAB
204	13	Calcium	7400	mg/kg	1	1	200000		NoBE
204	13	Chromium	17	mg/kg	9	1	16	16.4	Yes
204	13	Cobalt	6.9	mg/kg	1	1	14	2.34	NoB
204	13	Copper	48	mg/kg	9	9	19	313	NoA
204	13	Iron	26218	mg/kg	9	9	28000	5480	NoB
204	13	Lead	106	mg/kg	9	1	36	400	NoA
204	13	Magnesium	1300	mg/kg	1	1	7700		NoBE
204	13	Manganese	637	mg/kg	9	9	1500	183	NoB
204	13	Mercury	0.056	mg/kg	9	1	0.2	2.35	NoAB
204	13	Molybdenum	31	mg/kg	9	2		39.1	NoA
204	13	Nickel	16	mg/kg	9	7	21	155	NoAB
204	13	Selenium	1.2	mg/kg	9	1	0.8	39.1	NoA
204	13	Silver	0.034	mg/kg	9	1	2.3	39.1	NoAB
204	13	Sodium	23	mg/kg	1	1	320		NoBE
204	13	Thallium	0.16	mg/kg	1	1	0.21	0.0782	NoB
204	13	Uranium	5	mg/kg	9	1	4.9	23.4	NoA
204	13	Vanadium	145	mg/kg	9	9	38	39.3	Yes
204	13	Zinc	78	mg/kg	9	9	65	2350	NoA
204	13	PAH, Total	0.505	mg/kg	1	1		0.00619	Yes
204	13	Cesium-137	0.289	pCi/g	1	1	0.49	0.116	NoB
204	13	Plutonium-238	0.0379	pCi/g	1	1	0.073	4.42	NoAB
204	13	Plutonium-239/240	0.0271	pCi/g	1	1	0.025	3.87	NoA
204	13	Thorium-228	0.949	pCi/g	1	1	1.6	31.6	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?
204	13	Thorium-230	1.01	pCi/g	1	1	1.5	5.22	NoAB
204	13	Thorium-232	0.77	pCi/g	1	1	1.5	4.24	NoAB
204	13	Uranium-234	1.55	pCi/g	1	1	1.2	5.93	NoA
204	13	Uranium-235	0.0936	pCi/g	1	1	0.06	0.347	NoA
204	13	Uranium-238	2.98	pCi/g	1	1	1.2	1.28	Yes
204	14	Aluminum	8000	mg/kg	1	1	13000	7740	NoB
204	14	Antimony	0.28	mg/kg	1	1	0.21	3.13	NoA
204	14	Arsenic	136	mg/kg	9	1	12	0.267	Yes
204	14	Barium	73	mg/kg	1	1	200	1530	NoAB
204	14	Beryllium	0.74	mg/kg	1	1	0.67	15.6	NoA
204	14	Cadmium	0.44	mg/kg	1	1	0.21	5.07	NoA
204	14	Calcium	100000	mg/kg	1	1	200000		NoBE
204	14	Chromium	17	mg/kg	9	1	16	16.4	Yes
204	14	Cobalt	9.8	mg/kg	1	1	14	2.34	NoB
204	14	Copper	54	mg/kg	9	9	19	313	NoA
204	14	Iron	31708	mg/kg	9	9	28000	5480	Yes
204	14	Lead	123	mg/kg	9	2	36	400	NoA
204	14	Magnesium	4200	mg/kg	1	1	7700		NoBE
204	14	Manganese	821	mg/kg	9	9	1500	183	NoB
204	14	Mercury	0.032	mg/kg	9	1	0.2	2.35	NoAB
204	14	Molybdenum	1	mg/kg	9	1		39.1	NoA
204	14	Nickel	28	mg/kg	9	7	21	155	NoA
204	14	Selenium	1	mg/kg	9	1	0.8	39.1	NoA
204	14	Silver	0.047	mg/kg	9	1	2.3	39.1	NoAB
204	14	Sodium	70	mg/kg	1	1	320		NoBE
204	14	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
204	14	Uranium	134	mg/kg	9	1	4.9	23.4	Yes
204	14	Vanadium	143	mg/kg	9	8	38	39.3	Yes
204	14	Zinc	185	mg/kg	9	9	65	2350	NoA
204	14	PCB, Total	0.015	mg/kg	10	1		0.0782	NoA
204	14	Fluoranthene	0.18	mg/kg	1	1		114	NoA
204	14	PAH, Total	0.1276	mg/kg	1	1		0.00619	Yes
204	14	Phenanthrene	0.11	mg/kg	1	1		171	NoA
204	14	Pyrene	0.14	mg/kg	1	1		85.4	NoA
204	14	Cesium-137	0.259	pCi/g	1	1	0.49	0.116	NoB
204	14	Thorium-228	0.502	pCi/g	1	1	1.6	31.6	NoAB
204	14	Thorium-230	0.935	pCi/g	1	1	1.5	5.22	NoAB
204	14	Thorium-232	0.566	pCi/g	1	1	1.5	4.24	NoAB
204	14	Uranium-234	1.23	pCi/g	1	1	1.2	5.93	NoA
204	14	Uranium-235	0.134	pCi/g	1	1	0.06	0.347	NoA
204	14	Uranium-238	4.25	pCi/g	1	1	1.2	1.28	Yes
204	15	Aluminum	8400	mg/kg	1	1	13000	7740	NoB
204	15	Antimony	0.15	mg/kg	1	1	0.21	3.13	NoAB
204	15	Arsenic	6.6	mg/kg	9	1	12	0.267	NoB
204	15	Barium	100	mg/kg	1	1	200	1530	NoAB
204	15	Beryllium	0.47	mg/kg	1	1	0.67	15.6	NoAB
204	15	Cadmium	0.18	mg/kg	1	1	0.21	5.07	NoAB
204	15	Calcium	54000	mg/kg	1	1	200000		NoBE
204	15	Chromium	14	mg/kg	9	1	16	16.4	NoAB
204	15	Cobalt	4.9	mg/kg	1	1	14	2.34	NoB
204	15	Copper	50	mg/kg	9	9	19	313	NoA
204	15	Iron	29042	mg/kg	9	9	28000	5480	Yes
204	15	Lead	10	mg/kg	9	1	36	400	NoAB
204	15	Magnesium	2800	mg/kg	1	1	7700		NoBE
204	15	Manganese	514	mg/kg	9	9	1500	183	NoB
204	15	Mercury	0.047	mg/kg	9	1	0.2	2.35	NoAB
204	15	Molybdenum	31	mg/kg	9	2		39.1	NoA
204	15	Nickel	21	mg/kg	9	6	21	155	NoA
204	15	Selenium	1.3	mg/kg	9	1	0.8	39.1	NoA
204	15	Silver	0.045	mg/kg	9	1	2.3	39.1	NoAB
204	15	Sodium	83	mg/kg	1	1	320		NoBE

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?
204	15	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
204	15	Uranium	16	mg/kg	10	2	4.9	23.4	NoA
204	15	Vanadium	113	mg/kg	9	9	38	39.3	Yes
204	15	Zinc	94	mg/kg	9	9	65	2350	NoA
204	15	PAH, Total	0.01246	mg/kg	1	1		0.00619	Yes
204	15	Cesium-137	0.63	pCi/g	2	1	0.49	0.116	Yes
204	15	Plutonium-239/240	0.0105	pCi/g	2	1	0.025	3.87	NoAB
204	15	Thorium-228	1.05	pCi/g	2	2	1.6	31.6	NoAB
204	15	Thorium-230	1.12	pCi/g	2	2	1.5	5.22	NoAB
204	15	Thorium-232	1.06	pCi/g	2	2	1.5	4.24	NoAB
204	15	Uranium-234	2.27	pCi/g	2	2	1.2	5.93	NoA
204	15	Uranium-235	0.127	pCi/g	2	2	0.06	0.347	NoA
204	15	Uranium-238	5.37	pCi/g	2	2	1.2	1.28	Yes
204	16	Aluminum	8900	mg/kg	1	1	13000	7740	NoB
204	16	Antimony	0.2	mg/kg	1	1	0.21	3.13	NoAB
204	16	Arsenic	8.2	mg/kg	9	1	12	0.267	NoB
204	16	Barium	110	mg/kg	1	1	200	1530	NoAB
204	16	Beryllium	0.5	mg/kg	1	1	0.67	15.6	NoAB
204	16	Cadmium	0.068	mg/kg	1	1	0.21	5.07	NoAB
204	16	Calcium	2400	mg/kg	1	1	200000		NoBE
204	16	Chromium	13	mg/kg	9	1	16	16.4	NoAB
204	16	Cobalt	6.3	mg/kg	1	1	14	2.34	NoB
204	16	Copper	52	mg/kg	9	9	19	313	NoA
204	16	Iron	28925	mg/kg	9	9	28000	5480	Yes
204	16	Lead	58	mg/kg	9	3	36	400	NoA
204	16	Magnesium	1400	mg/kg	1	1	7700		NoBE
204	16	Manganese	582	mg/kg	9	9	1500	183	NoB
204	16	Mercury	0.038	mg/kg	9	1	0.2	2.35	NoAB
204	16	Molybdenum	29	mg/kg	9	2		39.1	NoA
204	16	Nickel	18	mg/kg	9	7	21	155	NoAB
204	16	Selenium	1.2	mg/kg	9	1	0.8	39.1	NoA
204	16	Silver	0.017	mg/kg	9	1	2.3	39.1	NoAB
204	16	Sodium	36	mg/kg	1	1	320		NoBE
204	16	Thallium	0.14	mg/kg	1	1	0.21	0.0782	NoB
204	16	Uranium	5.3	mg/kg	9	1	4.9	23.4	NoA
204	16	Vanadium	122	mg/kg	9	9	38	39.3	Yes
204	16	Zinc	70	mg/kg	9	9	65	2350	NoA
204	16	PAH, Total	0.01449	mg/kg	1	1		0.00619	Yes
204	16	Cesium-137	0.0329	pCi/g	1	1	0.49	0.116	NoAB
204	16	Thorium-228	1.17	pCi/g	1	1	1.6	31.6	NoAB
204	16	Thorium-230	1.13	pCi/g	1	1	1.5	5.22	NoAB
204	16	Thorium-232	1.12	pCi/g	1	1	1.5	4.24	NoAB
204	16	Uranium-234	0.984	pCi/g	1	1	1.2	5.93	NoAB
204	16	Uranium-235	0.0452	pCi/g	1	1	0.06	0.347	NoAB
204	16	Uranium-238	1.23	pCi/g	1	1	1.2	1.28	NoA
204	17	Aluminum	7500	mg/kg	1	1	13000	7740	NoAB
204	17	Antimony	0.21	mg/kg	1	1	0.21	3.13	NoA
204	17	Arsenic	9.6	mg/kg	9	1	12	0.267	NoB
204	17	Barium	94	mg/kg	1	1	200	1530	NoAB
204	17	Beryllium	0.55	mg/kg	1	1	0.67	15.6	NoAB
204	17	Cadmium	0.11	mg/kg	1	1	0.21	5.07	NoAB
204	17	Calcium	7200	mg/kg	1	1	200000		NoBE
204	17	Chromium	13	mg/kg	9	1	16	16.4	NoAB
204	17	Cobalt	9	mg/kg	1	1	14	2.34	NoB
204	17	Copper	46	mg/kg	9	9	19	313	NoA
204	17	Iron	29806	mg/kg	9	9	28000	5480	Yes
204	17	Lead	17	mg/kg	9	1	36	400	NoAB
204	17	Magnesium	1200	mg/kg	1	1	7700		NoBE
204	17	Manganese	830	mg/kg	9	9	1500	183	NoB
204	17	Mercury	0.058	mg/kg	9	1	0.2	2.35	NoAB
204	17	Molybdenum	31	mg/kg	9	3		39.1	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?
204	17	Nickel	18	mg/kg	9	7	21	155	NoAB
204	17	Selenium	1.3	mg/kg	9	1	0.8	39.1	NoA
204	17	Silver	0.023	mg/kg	9	1	2.3	39.1	NoAB
204	17	Sodium	66	mg/kg	1	1	320		NoBE
204	17	Thallium	0.15	mg/kg	1	1	0.21	0.0782	NoB
204	17	Uranium	6.3	mg/kg	9	1	4.9	23.4	NoA
204	17	Vanadium	122	mg/kg	9	9	38	39.3	Yes
204	17	Zinc	81	mg/kg	9	9	65	2350	NoA
204	17	PAH, Total	0.0599	mg/kg	1	1		0.00619	Yes
204	17	Cesium-137	0.169	pCi/g	1	1	0.49	0.116	NoB
204	17	Neptunium-237	0.00569	pCi/g	1	1	0.1	0.239	NoAB
204	17	Plutonium-238	0.0135	pCi/g	1	1	0.073	4.42	NoAB
204	17	Thorium-228	0.995	pCi/g	1	1	1.6	31.6	NoAB
204	17	Thorium-230	1.3	pCi/g	1	1	1.5	5.22	NoAB
204	17	Thorium-232	0.948	pCi/g	1	1	1.5	4.24	NoAB
204	17	Uranium-234	1.35	pCi/g	1	1	1.2	5.93	NoA
204	17	Uranium-235	0.0775	pCi/g	1	1	0.06	0.347	NoA
204	17	Uranium-238	2.5	pCi/g	1	1	1.2	1.28	Yes
204	18	Aluminum	5800	mg/kg	1	1	13000	7740	NoAB
204	18	Antimony	0.16	mg/kg	1	1	0.21	3.13	NoAB
204	18	Arsenic	5.6	mg/kg	9	1	12	0.267	NoB
204	18	Barium	64	mg/kg	1	1	200	1530	NoAB
204	18	Beryllium	0.46	mg/kg	1	1	0.67	15.6	NoAB
204	18	Cadmium	0.2	mg/kg	1	1	0.21	5.07	NoAB
204	18	Calcium	44000	mg/kg	1	1	200000		NoBE
204	18	Chromium	15	mg/kg	9	1	16	16.4	NoAB
204	18	Cobalt	6.9	mg/kg	1	1	14	2.34	NoB
204	18	Copper	52	mg/kg	9	9	19	313	NoA
204	18	Iron	33542	mg/kg	9	9	28000	5480	Yes
204	18	Lead	74	mg/kg	9	2	36	400	NoA
204	18	Magnesium	3100	mg/kg	1	1	7700		NoBE
204	18	Manganese	994	mg/kg	9	9	1500	183	NoB
204	18	Mercury	0.038	mg/kg	9	1	0.2	2.35	NoAB
204	18	Molybdenum	0.44	mg/kg	9	1		39.1	NoA
204	18	Nickel	23	mg/kg	9	7	21	155	NoA
204	18	Selenium	0.85	mg/kg	9	1	0.8	39.1	NoA
204	18	Silver	0.025	mg/kg	9	1	2.3	39.1	NoAB
204	18	Sodium	36	mg/kg	1	1	320		NoBE
204	18	Thallium	0.09	mg/kg	1	1	0.21	0.0782	NoB
204	18	Uranium	109	mg/kg	9	2	4.9	23.4	Yes
204	18	Vanadium	151	mg/kg	9	9	38	39.3	Yes
204	18	Zinc	145	mg/kg	9	9	65	2350	NoA
204	18	PAH, Total	0.00704	mg/kg	1	1		0.00619	Yes
204	18	Cesium-137	0.0785	pCi/g	1	1	0.49	0.116	NoAB
204	18	Neptunium-237	0.0051	pCi/g	1	1	0.1	0.239	NoAB
204	18	Plutonium-238	0.0276	pCi/g	1	1	0.073	4.42	NoAB
204	18	Plutonium-239/240	0.0197	pCi/g	1	1	0.025	3.87	NoAB
204	18	Thorium-228	0.836	pCi/g	1	1	1.6	31.6	NoAB
204	18	Thorium-230	0.898	pCi/g	1	1	1.5	5.22	NoAB
204	18	Thorium-232	0.788	pCi/g	1	1	1.5	4.24	NoAB
204	18	Uranium-234	0.847	pCi/g	1	1	1.2	5.93	NoAB
204	18	Uranium-235	0.0741	pCi/g	1	1	0.06	0.347	NoA
204	18	Uranium-238	1.81	pCi/g	1	1	1.2	1.28	Yes
204	19	Aluminum	7600	mg/kg	1	1	13000	7740	NoAB
204	19	Antimony	0.21	mg/kg	1	1	0.21	3.13	NoA
204	19	Arsenic	9.2	mg/kg	6	1	12	0.267	NoB
204	19	Barium	160	mg/kg	1	1	200	1530	NoAB
204	19	Beryllium	0.5	mg/kg	1	1	0.67	15.6	NoAB
204	19	Cadmium	0.058	mg/kg	1	1	0.21	5.07	NoAB
204	19	Calcium	1900	mg/kg	1	1	200000		NoBE
204	19	Chromium	10	mg/kg	6	1	16	16.4	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?
204	19	Cobalt	8.4	mg/kg	1	1	14	2.34	NoB
204	19	Copper	43	mg/kg	6	6	19	313	NoA
204	19	Iron	27379	mg/kg	6	6	28000	5480	NoB
204	19	Lead	14	mg/kg	6	1	36	400	NoAB
204	19	Magnesium	1000	mg/kg	1	1	7700		NoBE
204	19	Manganese	1300	mg/kg	6	6	1500	183	NoB
204	19	Mercury	0.052	mg/kg	6	1	0.2	2.35	NoAB
204	19	Molybdenum	0.66	mg/kg	6	1		39.1	NoA
204	19	Nickel	22	mg/kg	6	5	21	155	NoA
204	19	Selenium	1.2	mg/kg	6	1	0.8	39.1	NoA
204	19	Silver	55	mg/kg	6	2	2.3	39.1	Yes
204	19	Sodium	38	mg/kg	1	1	320		NoBE
204	19	Thallium	0.12	mg/kg	1	1	0.21	0.0782	NoB
204	19	Uranium	85	mg/kg	6	2	4.9	23.4	Yes
204	19	Vanadium	106	mg/kg	6	5	38	39.3	Yes
204	19	Zinc	85	mg/kg	6	6	65	2350	NoA
204	19	PAH, Total	0.1297	mg/kg	1	1		0.00619	Yes
204	19	Thorium-228	1.11	pCi/g	1	1	1.6	31.6	NoAB
204	19	Thorium-230	1.14	pCi/g	1	1	1.5	5.22	NoAB
204	19	Thorium-232	1.02	pCi/g	1	1	1.5	4.24	NoAB
204	19	Uranium-234	0.994	pCi/g	1	1	1.2	5.93	NoAB
204	19	Uranium-235	0.0423	pCi/g	1	1	0.06	0.347	NoAB
204	19	Uranium-238	2.65	pCi/g	1	1	1.2	1.28	Yes
204	20	Aluminum	7000	mg/kg	1	1	13000	7740	NoAB
204	20	Antimony	0.11	mg/kg	1	1	0.21	3.13	NoAB
204	20	Arsenic	5	mg/kg	6	1	12	0.267	NoB
204	20	Barium	83	mg/kg	1	1	200	1530	NoAB
204	20	Beryllium	1.33	mg/kg	3	3	0.67	15.6	NoA
204	20	Cadmium	0.037	mg/kg	1	1	0.21	5.07	NoAB
204	20	Calcium	2300	mg/kg	1	1	200000		NoBE
204	20	Chromium	175	mg/kg	8	3	16	16.4	Yes
204	20	Cobalt	5.1	mg/kg	1	1	14	2.34	NoB
204	20	Copper	43	mg/kg	6	6	19	313	NoA
204	20	Iron	23985	mg/kg	6	6	28000	5480	NoB
204	20	Lead	10	mg/kg	6	1	36	400	NoAB
204	20	Magnesium	890	mg/kg	1	1	7700		NoBE
204	20	Manganese	628	mg/kg	6	6	1500	183	NoB
204	20	Mercury	0.04	mg/kg	8	1	0.2	2.35	NoAB
204	20	Molybdenum	34	mg/kg	6	2		39.1	NoA
204	20	Nickel	27	mg/kg	6	6	21	155	NoA
204	20	Selenium	0.82	mg/kg	6	1	0.8	39.1	NoA
204	20	Silver	0.023	mg/kg	6	1	2.3	39.1	NoAB
204	20	Sodium	39	mg/kg	1	1	320		NoBE
204	20	Thallium	0.1	mg/kg	1	1	0.21	0.0782	NoB
204	20	Uranium	13070	mg/kg	8	3	4.9	23.4	Yes
204	20	Vanadium	114	mg/kg	6	4	38	39.3	Yes
204	20	Zinc	84	mg/kg	6	6	65	2350	NoA
204	20	PCB, Total	79	mg/kg	5	2		0.0782	Yes
204	20	PAH, Total	0.00342	mg/kg	1	1		0.00619	NoA
204	20	Trichloroethene	0.015	mg/kg	1	1		0.412	NoA
204	20	Actinium-228	1.09	pCi/g	2	2		1350	NoA
204	20	Americium-241	3.709	pCi/g	3	1		3.03	Yes
204	20	Bismuth-211	2.219	pCi/g	2	2		4940000	NoA
204	20	Bismuth-212	0.8128	pCi/g	2	1		67000	NoA
204	20	Bismuth-214	1.038	pCi/g	2	2		13800	NoA
204	20	Cesium-137	1.172	pCi/g	3	2	0.49	0.116	Yes
204	20	Lead-211	2.219	pCi/g	2	2		192000	NoA
204	20	Lead-212	0.735	pCi/g	2	2		6170	NoA
204	20	Lead-214	0.9276	pCi/g	2	2		75600	NoA
204	20	Neptunium-237	0.061	pCi/g	3	1	0.1	0.239	NoAB
204	20	Plutonium-239/240	0.098	pCi/g	3	1	0.025	3.87	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?
204	20	Potassium-40	11.25	pCi/g	2	2	16	0.262	NoB
204	20	Protactinium-231	36.47	pCi/g	2	1		0.935	Yes
204	20	Protactinium-234m	4383	pCi/g	2	2			NoD
204	20	Radium-223	0.2017	pCi/g	2	1		206	NoA
204	20	Radium-226	0.7736	pCi/g	2	2	1.5	1.15	NoAB
204	20	Radium-228	0.9619	pCi/g	2	1		1.49	NoA
204	20	Radon-219	1.137	pCi/g	2	1		130000000	NoA
204	20	Strontium-90	4.7	pCi/g	2	1	4.7	12.6	NoA
204	20	Technetium-99	7.64	pCi/g	3	1	2.5	117	NoA
204	20	Thallium-208	0.2451	pCi/g	2	2		37700	NoA
204	20	Thorium-228	1.09	pCi/g	3	3	1.6	31.6	NoAB
204	20	Thorium-230	1.15	pCi/g	3	3	1.5	5.22	NoAB
204	20	Thorium-232	0.912	pCi/g	3	3	1.5	4.24	NoAB
204	20	Thorium-234	3263	pCi/g	2	2			NoD
204	20	Uranium-234	445	pCi/g	3	3	1.2	5.93	Yes
204	20	Uranium-235	57	pCi/g	3	3	0.06	0.347	Yes
204	20	Uranium-238	4386	pCi/g	3	3	1.2	1.28	Yes
204	21	Aluminum	11000	mg/kg	1	1	13000	7740	NoB
204	21	Antimony	0.16	mg/kg	1	1	0.21	3.13	NoAB
204	21	Arsenic	8.6	mg/kg	4	1	12	0.267	NoB
204	21	Barium	200	mg/kg	1	1	200	1530	NoA
204	21	Beryllium	0.88	mg/kg	1	1	0.67	15.6	NoA
204	21	Cadmium	0.17	mg/kg	1	1	0.21	5.07	NoAB
204	21	Calcium	28000	mg/kg	1	1	200000		NoBE
204	21	Chromium	15	mg/kg	4	1	16	16.4	NoAB
204	21	Cobalt	18	mg/kg	1	1	14	2.34	Yes
204	21	Copper	41	mg/kg	4	4	19	313	NoA
204	21	Iron	23503	mg/kg	4	4	28000	5480	NoB
204	21	Lead	19	mg/kg	4	1	36	400	NoAB
204	21	Magnesium	4600	mg/kg	1	1	7700		NoBE
204	21	Manganese	960	mg/kg	4	4	1500	183	NoB
204	21	Mercury	0.038	mg/kg	4	1	0.2	2.35	NoAB
204	21	Molybdenum	0.77	mg/kg	4	1		39.1	NoA
204	21	Nickel	23	mg/kg	4	3	21	155	NoA
204	21	Selenium	1.3	mg/kg	4	1	0.8	39.1	NoA
204	21	Silver	0.021	mg/kg	4	1	2.3	39.1	NoAB
204	21	Sodium	150	mg/kg	1	1	320		NoBE
204	21	Thallium	0.19	mg/kg	1	1	0.21	0.0782	NoB
204	21	Uranium	1.1	mg/kg	4	1	4.9	23.4	NoAB
204	21	Vanadium	119	mg/kg	4	4	38	39.3	Yes
204	21	Zinc	81	mg/kg	4	4	65	2350	NoA
204	21	PAH, Total	0.00446	mg/kg	1	1		0.00619	NoA
204	21	Thorium-228	0.926	pCi/g	1	1	1.6	31.6	NoAB
204	21	Thorium-230	1.2	pCi/g	1	1	1.5	5.22	NoAB
204	21	Thorium-232	0.904	pCi/g	1	1	1.5	4.24	NoAB
204	21	Uranium-234	0.91	pCi/g	1	1	1.2	5.93	NoAB
204	21	Uranium-238	0.939	pCi/g	1	1	1.2	1.28	NoAB
211	1	Aluminum	8800	mg/kg	2	2	13000	7740	NoB
211	1	Antimony	65.23	mg/kg	7	3	0.21	3.13	Yes
211	1	Arsenic	8.13	mg/kg	10	3	12	0.267	NoB
211	1	Barium	454.82	mg/kg	7	6	200	1530	NoA
211	1	Beryllium	0.48	mg/kg	2	2	0.67	15.6	NoAB
211	1	Cadmium	0.2	mg/kg	7	2	0.21	5.07	NoAB
211	1	Calcium	30000	mg/kg	2	2	200000		NoBE
211	1	Chromium	44.75	mg/kg	10	6	16	16.4	Yes
211	1	Cobalt	7.7	mg/kg	2	2	14	2.34	NoB
211	1	Copper	39	mg/kg	10	4	19	313	NoA
211	1	Iron	30465	mg/kg	10	10	28000	5480	Yes
211	1	Lead	24.06	mg/kg	10	7	36	400	NoAB
211	1	Magnesium	3320	mg/kg	2	2	7700		NoBE
211	1	Manganese	701	mg/kg	10	10	1500	183	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?
211	1	Mercury	0.0843	mg/kg	10	1	0.2	2.35	NoAB
211	1	Molybdenum	1.1	mg/kg	10	2		39.1	NoA
211	1	Nickel	17.8	mg/kg	10	4	21	155	NoAB
211	1	Selenium	2	mg/kg	10	2	0.8	39.1	NoA
211	1	Silver	34	mg/kg	10	3	2.3	39.1	NoA
211	1	Sodium	51.7	mg/kg	2	2	320		NoBE
211	1	Thallium	0.33	mg/kg	2	2	0.21	0.0782	Yes
211	1	Uranium	21.86	mg/kg	10	4	4.9	23.4	NoA
211	1	Vanadium	101	mg/kg	10	5	38	39.3	Yes
211	1	Zinc	52.47	mg/kg	10	10	65	2350	NoAB
211	1	PCB, Total	0.36	mg/kg	17	5		0.0782	Yes
211	1	Benzo(ghi)perylene	0.046	mg/kg	4	1			NoC
211	1	Fluoranthene	0.11	mg/kg	4	2		114	NoA
211	1	PAH, Total	0.103806	mg/kg	4	2		0.00619	Yes
211	1	Phenanthrene	0.076	mg/kg	4	2		171	NoA
211	1	Pyrene	0.13	mg/kg	4	2		85.4	NoA
211	1	Americium-241	0.121	pCi/g	3	1		3.03	NoA
211	1	Cesium-137	1.67	pCi/g	3	2	0.49	0.116	Yes
211	1	Neptunium-237	5.93	pCi/g	3	3	0.1	0.239	Yes
211	1	Plutonium-238	0.0239	pCi/g	3	1	0.073	4.42	NoAB
211	1	Plutonium-239/240	0.815	pCi/g	3	2	0.025	3.87	NoA
211	1	Technetium-99	106	pCi/g	3	3	2.5	117	NoA
211	1	Thorium-228	0.84	pCi/g	3	3	1.6	31.6	NoAB
211	1	Thorium-230	4.56	pCi/g	3	3	1.5	5.22	NoA
211	1	Thorium-232	0.88	pCi/g	3	3	1.5	4.24	NoAB
211	1	Uranium-234	66.9	pCi/g	3	3	1.2	5.93	Yes
211	1	Uranium-235	3.86	pCi/g	3	3	0.06	0.347	NoA
211	1	Uranium-238	119	pCi/g	3	3	1.2	1.28	Yes
224	1	Aluminum	4910	mg/kg	1	1	13000	7740	NoAB
224	1	Antimony	108.07	mg/kg	1	1	0.21	3.13	Yes
224	1	Arsenic	4.8	mg/kg	1	1	12	0.267	NoB
224	1	Barium	458.79	mg/kg	1	1	200	1530	NoA
224	1	Beryllium	0.33	mg/kg	1	1	0.67	15.6	NoAB
224	1	Cadmium	0.38	mg/kg	1	1	0.21	5.07	NoA
224	1	Calcium	125000	mg/kg	1	1	200000		NoBE
224	1	Chromium	12.1	mg/kg	1	1	16	16.4	NoAB
224	1	Cobalt	7.1	mg/kg	1	1	14	2.34	NoB
224	1	Copper	9.4	mg/kg	1	1	19	313	NoAB
224	1	Iron	14444.19	mg/kg	1	1	28000	5480	NoB
224	1	Lead	16.96	mg/kg	1	1	36	400	NoAB
224	1	Magnesium	2300	mg/kg	1	1	7700		NoBE
224	1	Manganese	429	mg/kg	1	1	1500	183	NoB
224	1	Mercury	0.0074	mg/kg	1	1	0.2	2.35	NoAB
224	1	Molybdenum	0.51	mg/kg	1	1		39.1	NoA
224	1	Nickel	6.7	mg/kg	1	1	21	155	NoAB
224	1	Selenium	0.55	mg/kg	1	1	0.8	39.1	NoAB
224	1	Silver	0.15	mg/kg	1	1	2.3	39.1	NoAB
224	1	Sodium	111	mg/kg	1	1	320		NoBE
224	1	Thallium	0.12	mg/kg	1	1	0.21	0.0782	NoB
224	1	Uranium	41.5	mg/kg	2	2	4.9	23.4	Yes
224	1	Vanadium	16.4	mg/kg	1	1	38	39.3	NoAB
224	1	Zinc	108.71	mg/kg	1	1	65	2350	NoA
224	1	PCB, Total	0.049	mg/kg	2	1		0.0782	NoA
224	1	Acenaphthene	0.053	mg/kg	1	1		171	NoA
224	1	Anthracene	0.11	mg/kg	1	1		854	NoA
224	1	Benzo(ghi)perylene	0.28	mg/kg	1	1			NoC
224	1	Benzoic Acid	0.45	mg/kg	1	1		13300	NoA
224	1	Fluoranthene	0.89	mg/kg	1	1		114	NoA
224	1	Fluorene	0.051	mg/kg	1	1		114	NoA
224	1	Naphthalene	0.059	mg/kg	1	1		3.83	NoA
224	1	PAH, Total	0.59547	mg/kg	1	1		0.00619	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?
224	1	Phenanthrene	0.5	mg/kg	1	1		171	NoA
224	1	Pyrene	0.78	mg/kg	1	1		85.4	NoA
224	1	Cesium-137	0.37	pCi/g	2	1	0.49	0.116	NoB
224	1	Plutonium-238	0.026	pCi/g	2	1	0.073	4.42	NoAB
224	1	Plutonium-239/240	0.034	pCi/g	2	1	0.025	3.87	NoA
224	1	Technetium-99	0.48	pCi/g	2	1	2.5	117	NoAB
224	1	Thorium-228	0.93	pCi/g	2	2	1.6	31.6	NoAB
224	1	Thorium-230	1.15	pCi/g	2	2	1.5	5.22	NoAB
224	1	Thorium-232	0.97	pCi/g	2	2	1.5	4.24	NoAB
224	1	Uranium-234	2.35	pCi/g	2	2	1.2	5.93	NoA
224	1	Uranium-235	0.25	pCi/g	2	2	0.06	0.347	NoA
224	1	Uranium-238	13.9	pCi/g	2	2	1.2	1.28	Yes
225	1	Aluminum	8480	mg/kg	2	2	13000	7740	NoB
225	1	Antimony	54.12	mg/kg	2	2	0.21	3.13	Yes
225	1	Arsenic	8.1	mg/kg	3	2	12	0.267	NoB
225	1	Barium	347.67	mg/kg	2	2	200	1530	NoA
225	1	Beryllium	0.48	mg/kg	2	2	0.67	15.6	NoAB
225	1	Cadmium	0.12	mg/kg	2	2	0.21	5.07	NoAB
225	1	Calcium	20000	mg/kg	2	2	200000		NoBE
225	1	Chromium	25.5	mg/kg	3	2	16	16.4	Yes
225	1	Cobalt	7.3	mg/kg	2	2	14	2.34	NoB
225	1	Copper	33	mg/kg	3	3	19	313	NoA
225	1	Iron	27274	mg/kg	3	3	28000	5480	NoB
225	1	Lead	65	mg/kg	3	3	36	400	NoA
225	1	Magnesium	2100	mg/kg	2	2	7700		NoBE
225	1	Manganese	562	mg/kg	3	3	1500	183	NoB
225	1	Mercury	0.038	mg/kg	3	2	0.2	2.35	NoAB
225	1	Molybdenum	36	mg/kg	3	3		39.1	NoA
225	1	Nickel	24	mg/kg	3	3	21	155	NoA
225	1	Selenium	1.5	mg/kg	3	2	0.8	39.1	NoA
225	1	Silver	0.033	mg/kg	3	2	2.3	39.1	NoAB
225	1	Sodium	36.5	mg/kg	2	2	320		NoBE
225	1	Thallium	0.28	mg/kg	2	2	0.21	0.0782	Yes
225	1	Uranium	6.1	mg/kg	3	2	4.9	23.4	NoA
225	1	Vanadium	109	mg/kg	3	3	38	39.3	Yes
225	1	Zinc	75	mg/kg	3	3	65	2350	NoA
225	1	Fluoranthene	0.15	mg/kg	2	1		114	NoA
225	1	PAH, Total	0.077851	mg/kg	2	2		0.00619	Yes
225	1	Phenanthrene	0.075	mg/kg	2	1		171	NoA
225	1	Pyrene	0.1	mg/kg	2	1		85.4	NoA
225	1	Cesium-137	0.417	pCi/g	2	2	0.49	0.116	NoB
225	1	Plutonium-238	0.026	pCi/g	2	1	0.073	4.42	NoAB
225	1	Plutonium-239/240	0.024	pCi/g	2	2	0.025	3.87	NoAB
225	1	Thorium-228	0.9	pCi/g	2	2	1.6	31.6	NoAB
225	1	Thorium-230	1.03	pCi/g	2	2	1.5	5.22	NoAB
225	1	Thorium-232	0.92	pCi/g	2	2	1.5	4.24	NoAB
225	1	Uranium-234	1.13	pCi/g	2	2	1.2	5.93	NoAB
225	1	Uranium-235	0.055	pCi/g	2	1	0.06	0.347	NoAB
225	1	Uranium-238	2.04	pCi/g	2	2	1.2	1.28	Yes
565	1	Uranium	3.31	mg/kg	1	1	4.9	23.4	NoAB
565	1	Cesium-137	0.4	pCi/g	2	2	0.49	0.116	NoB
565	1	Plutonium-238	0.017	pCi/g	2	1	0.073	4.42	NoAB
565	1	Plutonium-239/240	0.0145	pCi/g	2	1	0.025	3.87	NoAB
565	1	Thorium-228	1.04	pCi/g	2	2	1.6	31.6	NoAB
565	1	Thorium-230	1.21	pCi/g	2	2	1.5	5.22	NoAB
565	1	Thorium-232	1.02	pCi/g	2	2	1.5	4.24	NoAB
565	1	Uranium-234	0.93	pCi/g	2	2	1.2	5.93	NoAB
565	1	Uranium-235	0.047	pCi/g	2	1	0.06	0.347	NoAB
565	1	Uranium-238	1.11	pCi/g	2	2	1.2	1.28	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