Table D.26. HIs for the Current Industrial Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.00		0.00	0.00	100.0%
13	**1**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**1**	**Surface**	**Percent**		**96%**		**4%**		
13	2	Surface	Iron	2.47E+04	0.00			0.00	27.9%
13	2	Surface	Manganese	1.22E+03	0.00		0.00	0.00	56.8%
13	2	Surface	Vanadium	9.38E+01	0.00		0.00	0.00	15.3%
13	**2**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**2**	**Surface**	**Percent**		**83%**		**17%**		
13	3	Surface	Iron	2.63E+04	0.00			0.00	29.6%
13	3	Surface	Manganese	1.09E+03	0.00		0.00	0.00	50.8%
13	3	Surface	Molybdenum	2.19E+01	0.00			0.00	3.5%
13	3	Surface	Vanadium	9.88E+01	0.00		0.00	0.00	16.1%
13	**3**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**3**	**Surface**	**Percent**		**84%**		**16%**		
13	4	Surface	Iron	2.75E+04	0.00			0.00	65.9%
13	4	Surface	Vanadium	9.81E+01	0.00		0.00	0.00	34.1%
13	**4**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**4**	**Surface**	**Percent**		**99%**		**1%**		
13	5	Surface	Aluminum	9.83E+03	0.00		0.00	0.00	7.8%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.00			0.00	23.4%
13	5	Surface	Manganese	9.08E+02	0.00		0.00	0.00	36.2%
13	5	Surface	Uranium	7.41E+01	0.00		0.00	0.00	17.8%
13	5	Surface	Vanadium	1.06E+02	0.00		0.00	0.00	14.8%
13	**5**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**5**	**Surface**	**Percent**		**87%**		**13%**		
13	6	Surface	Iron	3.09E+04	0.00			0.00	53.8%
13	6	Surface	Uranium	3.70E+01	0.00		0.00	0.00	16.0%
13	6	Surface	Vanadium	1.20E+02	0.00		0.00	0.00	30.2%
13	**6**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**6**	**Surface**	**Percent**		**98%**		**2%**		
13	7	Surface	Iron	2.78E+04	0.00			0.00	39.1%
13	7	Surface	Silver	1.85E+02	0.00			0.00	36.2%
13	7	Surface	Vanadium	1.22E+02	0.00		0.00	0.00	24.7%
13	**7**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**7**	**Surface**	**Percent**		**99%**		**1%**		
13	8	Surface	Iron	2.41E+04	0.00			0.00	28.4%
13	8	Surface	Manganese	1.12E+03	0.00		0.00	0.00	54.5%
13	8	Surface	Vanadium	9.97E+01	0.00		0.00	0.00	17.0%
13	**8**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**8**	**Surface**	**Percent**		**83%**		**17%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.00		0.00	0.00	100.0%
13	**9**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**9**	**Surface**	**Percent**		**96%**		**4%**		
13	10	Surface	Iron	3.80E+04	0.00			0.00	19.8%
13	10	Surface	Manganese	3.09E+03	0.00		0.00	0.00	66.4%
13	10	Surface	Silver	5.40E+01	0.00			0.00	3.9%
13	10	Surface	Vanadium	1.30E+02	0.00		0.00	0.00	9.8%
13	**10**	**Surface**	**Totals**		**0.01**		**0.00**	**0.00**	
13	**10**	**Surface**	**Percent**		**80%**		**20%**		
13	11	Surface	Silver	1.03E+02	0.00			0.00	46.7%
13	11	Surface	Vanadium	1.14E+02	0.00		0.00	0.00	53.3%
13	**11**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**11**	**Surface**	**Percent**		**98%**		**2%**		
13	12	Surface	Iron	2.30E+04	0.00			0.00	21.3%
13	12	Surface	Manganese	1.35E+03	0.00		0.00	0.00	51.6%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Silver	8.88E+01	0.00			0.00	11.5%
13	12	Surface	Vanadium	1.16E+02	0.00		0.00	0.00	15.6%
13	**12**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**12**	**Surface**	**Percent**		**84%**		**16%**		
13	13	Surface	Iron	2.89E+04	0.00			0.00	30.0%
13	13	Surface	Manganese	1.13E+03	0.00		0.00	0.00	48.2%
13	13	Surface	Molybdenum	2.73E+01	0.00			0.00	4.0%
13	13	Surface	Vanadium	1.19E+02	0.00		0.00	0.00	17.8%
13	**13**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**13**	**Surface**	**Percent**		**85%**		**15%**		
13	14	Surface	Vanadium	1.22E+02	0.00		0.00	0.00	100.0%
13	**14**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**14**	**Surface**	**Percent**		**96%**		**4%**		
15	1	Surface	Antimony	7.49E+01	0.00			0.00	40.4%
15	1	Surface	Arsenic	1.27E+01	0.00	0.00	0.00	0.00	28.2%
15	1	Surface	Cadmium	1.56E+01	0.00	0.00	0.00	0.00	13.0%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.00			0.00	9.1%
15	1	Surface	Nickel	1.32E+02	0.00		0.00	0.00	1.7%
15	1	Surface	Thallium	2.40E-01	0.00			0.00	5.2%
15	1	Surface	Uranium	3.26E+01	0.00		0.00	0.00	2.5%
15	**1**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.00**	
15	**1**	**Surface**	**Percent**		**71%**	**28%**	**1%**		
15	2	Surface	Antimony	9.83E+01	0.01			0.01	44.0%
15	2	Surface	Arsenic	1.63E+01	0.00	0.00	0.00	0.00	30.1%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.00			0.00	9.9%
15	2	Surface	Mercury	9.33E+00	0.00			0.00	5.6%
15	2	Surface	Nickel	1.97E+02	0.00		0.00	0.00	2.1%
15	2	Surface	Uranium	1.32E+02	0.00		0.00	0.00	8.4%
15	**2**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
15	**2**	**Surface**	**Percent**		**79%**	**20%**	**1%**		
15	3	Surface	Antimony	7.10E+01	0.00			0.00	16.2%
15	3	Surface	Arsenic	2.74E+01	0.00	0.00	0.00	0.01	25.8%
15	3	Surface	Cadmium	1.25E+01	0.00	0.00	0.00	0.00	4.4%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.00		0.00	0.00	10.8%
15	3	Surface	Copper	1.60E+03	0.00			0.00	3.7%
15	3	Surface	Iron	9.20E+04	0.00			0.00	12.0%
15	3	Surface	Manganese	1.60E+03	0.00		0.00	0.00	8.6%
15	3	Surface	Mercury	1.05E+01	0.00			0.00	3.2%
15	3	Surface	Nickel	8.38E+02	0.00		0.00	0.00	4.6%
15	3	Surface	Thallium	2.60E-01	0.00			0.00	2.4%
15	3	Surface	Uranium	2.16E+02	0.00		0.00	0.00	7.0%
15	3	Surface	Vanadium	7.31E+01	0.00		0.00	0.00	1.4%
15	**3**	**Surface**	**Totals**		**0.02**	**0.01**	**0.00**	**0.01**	
15	**3**	**Surface**	**Percent**		**75%**	**21%**	**4%**		
15	4	Surface	Antimony	7.63E+01	0.00			0.00	18.1%
15	4	Surface	Arsenic	3.37E+01	0.00	0.01	0.00	0.01	32.9%
15	4	Surface	Cadmium	1.86E+01	0.00	0.00	0.00	0.00	6.8%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.00			0.00	1.4%
15	4	Surface	Iron	6.90E+04	0.00			0.00	9.3%
15	4	Surface	Manganese	1.29E+03	0.00		0.00	0.00	7.2%
15	4	Surface	Mercury	3.04E+01	0.00			0.00	9.6%
15	4	Surface	Nickel	1.24E+03	0.00		0.00	0.00	7.0%
15	4	Surface	Thallium	1.85E-01	0.00			0.00	1.8%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Uranium	1.29E+02	0.00		0.00	0.00	4.3%
15	4	Surface	Vanadium	8.43E+01	0.00		0.00	0.00	1.7%
15	**4**	**Surface**	**Totals**		**0.02**	**0.01**	**0.00**	**0.01**	
15	**4**	**Surface**	**Percent**		**69%**	**27%**	**4%**		
15	5	Surface	Antimony	1.01E+02	0.01			0.01	37.7%
15	5	Surface	Arsenic	1.28E+01	0.00	0.00	0.00	0.00	19.7%
15	5	Surface	Cadmium	1.46E+01	0.00	0.00	0.00	0.00	8.4%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.00			0.00	21.0%
15	5	Surface	Nickel	3.53E+02	0.00		0.00	0.00	3.1%
15	5	Surface	Uranium	1.76E+02	0.00		0.00	0.00	9.3%
15	5	Surface	Zinc	1.52E+03	0.00			0.00	0.8%
15	**5**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
15	**5**	**Surface**	**Percent**		**79%**	**19%**	**1%**		
15	6	Surface	Antimony	8.85E+01	0.01			0.01	39.0%
15	6	Surface	Arsenic	1.24E+01	0.00	0.00	0.00	0.00	22.7%
15	6	Surface	Cadmium	1.64E+01	0.00	0.00	0.00	0.00	11.1%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.00		0.00	0.00	9.9%
15	6	Surface	Copper	4.23E+02	0.00			0.00	1.9%
15	6	Surface	Iron	3.29E+04	0.00			0.00	8.3%
15	6	Surface	Nickel	3.00E+02	0.00		0.00	0.00	3.2%
15	6	Surface	Uranium	6.30E+01	0.00		0.00	0.00	3.9%
15	**6**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
15	**6**	**Surface**	**Percent**		**75%**	**23%**	**2%**		
15	7	Surface	Antimony	1.37E+02	0.01			0.01	42.9%
15	7	Surface	Arsenic	1.61E+01	0.00	0.00	0.00	0.00	20.8%
15	7	Surface	Cadmium	1.80E+01	0.00	0.00	0.00	0.00	8.7%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.00			0.00	2.6%
15	7	Surface	Iron	3.42E+04	0.00			0.00	6.1%
15	7	Surface	Manganese	1.18E+03	0.00		0.00	0.00	8.7%
15	7	Surface	Nickel	5.59E+02	0.00		0.00	0.00	4.2%
15	7	Surface	Thallium	3.00E-01	0.00			0.00	3.7%
15	7	Surface	Uranium	5.39E+01	0.00		0.00	0.00	2.4%
15	**7**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
15	**7**	**Surface**	**Percent**		**76%**	**20%**	**4%**		
15	8	Surface	Antimony	7.42E+01	0.00			0.00	39.3%
15	8	Surface	Arsenic	1.17E+01	0.00	0.00	0.00	0.00	25.5%
15	8	Surface	Cadmium	1.68E+01	0.00	0.00	0.00	0.00	13.8%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.00			0.00	8.6%
15	8	Surface	Mercury	1.01E+01	0.00			0.00	7.1%
15	8	Surface	Nickel	1.82E+02	0.00		0.00	0.00	2.3%
15	8	Surface	Uranium	4.46E+01	0.00		0.00	0.00	3.4%
15	**8**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.00**	
15	**8**	**Surface**	**Percent**		**72%**	**27%**	**1%**		
15	9	Surface	Antimony	1.12E+02	0.01			0.01	52.0%
15	9	Surface	Arsenic	1.10E+01	0.00	0.00	0.00	0.00	21.2%
15	9	Surface	Cadmium	1.81E+01	0.00	0.00	0.00	0.00	13.0%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.00			0.00	7.3%
15	9	Surface	Nickel	1.49E+02	0.00		0.00	0.00	1.6%
15	9	Surface	Uranium	3.07E+01	0.00		0.00	0.00	2.0%
15	9	Surface	Vanadium	7.33E+01	0.00		0.00	0.00	2.8%
15	**9**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
15	**9**	**Surface**	**Percent**		**76%**	**24%**	**1%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	10	Surface	Antimony	1.25E+02	0.01			0.01	69.6%
15	10	Surface	Cadmium	1.67E+01	0.00	0.00	0.00	0.00	14.4%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.00			0.00	5.8%
15	10	Surface	Nickel	2.26E+02	0.00		0.00	0.00	3.0%
15	10	Surface	Uranium	9.02E+01	0.00		0.00	0.00	7.1%
15	**10**	**Surface**	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
15	**10**	**Surface**	**Percent**		**88%**	**10%**	**1%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.00			0.00	13.8%
26	1	Surface	Uranium	6.28E+02	0.01		0.00	0.01	75.0%
26	1	Surface	Vanadium	1.61E+02	0.00		0.00	0.00	11.2%
26	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
26	**1**	**Surface**	**Percent**		**95%**		**5%**		
26	2	Surface	Aluminum	2.61E+04	0.00		0.00	0.00	0.9%
26	2	Surface	Arsenic	4.23E+01	0.00	0.01	0.00	0.01	12.7%
26	2	Surface	Beryllium	1.13E+01	0.00		0.00	0.00	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	0.01		0.00	0.01	6.7%
26	2	Surface	Iron	5.20E+04	0.00			0.00	2.2%
26	2	Surface	Nickel	1.03E+02	0.00		0.00	0.00	0.2%
26	2	Surface	Thallium	2.38E+01	0.06			0.06	69.1%
26	2	Surface	Uranium	7.18E+02	0.01		0.00	0.01	7.4%
26	2	Surface	Vanadium	1.16E+02	0.00		0.00	0.00	0.7%
26	**2**	**Surface**	**Totals**		**0.07**	**0.01**	**0.00**	**0.09**	
26	**2**	**Surface**	**Percent**		**90%**	**9%**	**1%**		
26	3	Surface	Arsenic	7.56E+01	0.01	0.01	0.00	0.02	59.6%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.00			0.00	3.8%
26	3	Surface	Molybdenum	4.07E+01	0.00			0.00	0.6%
26	3	Surface	Thallium	3.68E+00	0.01			0.01	28.1%
26	3	Surface	Uranium	2.05E+02	0.00		0.00	0.00	5.6%
26	3	Surface	Vanadium	1.44E+02	0.00		0.00	0.00	2.3%
26	**3**	**Surface**	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
26	**3**	**Surface**	**Percent**		**59%**	**40%**	**1%**		
26	4	Surface	Aluminum	1.11E+04	0.00		0.00	0.00	0.9%
26	4	Surface	Arsenic	6.01E+01	0.00	0.01	0.00	0.01	41.9%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.00			0.00	2.7%
26	4	Surface	Mercury	7.33E+01	0.01			0.01	16.5%
26	4	Surface	Molybdenum	3.49E+01	0.00			0.00	0.5%
26	4	Surface	Nickel	8.10E+01	0.00		0.00	0.00	0.3%
26	4	Surface	Uranium	1.47E+03	0.01		0.00	0.01	35.2%
26	4	Surface	Vanadium	1.42E+02	0.00		0.00	0.00	2.0%
26	**4**	**Surface**	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
26	**4**	**Surface**	**Percent**		**69%**	**28%**	**3%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.00			0.00	21.0%
77	1	Surface	Uranium	6.66E+02	0.01		0.00	0.01	68.9%
77	1	Surface	Vanadium	1.68E+02	0.00		0.00	0.00	10.1%
77	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
77	**1**	**Surface**	**Percent**		**95%**		**5%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.00		0.00	0.00	78.4%
80	1	Surface	Uranium	9.80E+01	0.00		0.00	0.00	21.6%
80	**1**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
80	**1**	**Surface**	**Percent**		**99%**		**1%**		
80	2	Surface	Antimony	5.82E+01	0.00			0.00	6.3%

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EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.00		0.00	0.00	2.8%
80	2	Surface	Iron	3.52E+04	0.00			0.00	2.2%
80	2	Surface	Uranium	5.72E+03	0.05		0.00	0.05	87.6%
80	2	Surface	Vanadium	1.29E+02	0.00		0.00	0.00	1.2%
80	**2**	**Surface**	**Totals**		**0.05**		**0.00**	**0.05**	
80	**2**	**Surface**	**Percent**		**95%**		**5%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.00			0.00	28.1%
80	3	Surface	Manganese	9.46E+02	0.00		0.00	0.00	36.0%
80	3	Surface	Molybdenum	2.33E+01	0.00			0.00	3.0%
80	3	Surface	Uranium	7.32E+01	0.00		0.00	0.00	16.8%
80	3	Surface	Vanadium	1.21E+02	0.00		0.00	0.00	16.1%
80	**3**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
80	**3**	**Surface**	**Percent**		**88%**		**12%**		
204	1	Surface	Aluminum	1.18E+04	0.00		0.00	0.00	35.7%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.00		0.00	0.00	64.2%
204	**1**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**1**	**Surface**	**Percent**		**92%**		**8%**		
204	2	Surface	Arsenic	4.59E+01	0.00	0.01	0.00	0.01	95.0%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.00		0.00	0.00	5.0%
204	**2**	**Surface**	**Totals**		**0.00**	**0.01**	**0.00**	**0.01**	
204	**2**	**Surface**	**Percent**		**35%**	**64%**	**1%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.00			0.00	29.9%
204	3	Surface	Vanadium	1.22E+02	0.00		0.00	0.00	70.0%
204	**3**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**3**	**Surface**	**Percent**		**97%**		**3%**		
204	4	Surface	Iron	2.92E+04	0.00			0.00	46.1%
204	4	Surface	Molybdenum	4.10E+01	0.00			0.00	9.1%
204	4	Surface	Silver	5.90E+01	0.00			0.00	13.0%
204	4	Surface	Vanadium	1.39E+02	0.00		0.00	0.00	31.8%
204	**4**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**4**	**Surface**	**Percent**		**99%**		**1%**		
204	5	Surface	Arsenic	5.67E+01	0.00	0.01	0.00	0.01	95.9%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.00		0.00	0.00	4.1%
204	**5**	**Surface**	**Totals**		**0.01**	**0.01**	**0.00**	**0.01**	
204	**5**	**Surface**	**Percent**		**35%**	**64%**	**1%**		
204	6	Surface	Vanadium	1.25E+02	0.00		0.00	0.00	100.0%
204	**6**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**6**	**Surface**	**Percent**		**96%**		**4%**		
204	7	Surface	Iron	2.95E+04	0.00			0.00	23.1%
204	7	Surface	Manganese	1.94E+03	0.00		0.00	0.00	62.5%
204	7	Surface	Vanadium	1.27E+02	0.00		0.00	0.00	14.4%
204	**7**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**7**	**Surface**	**Percent**		**81%**		**19%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.00		0.00	0.00	41.2%
204	8	Surface	Iron	2.94E+04	0.00			0.00	35.6%
204	8	Surface	Vanadium	1.32E+02	0.00		0.00	0.00	23.2%
204	**8**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**8**	**Surface**	**Percent**		**97%**		**3%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.00			0.00	59.9%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	9	Surface	Vanadium	1.37E+02	0.00		0.00	0.00	40.1%
204	**9**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**9**	**Surface**	**Percent**		**98%**		**2%**		
204	10	Surface	Antimony	1.20E+01	0.00			0.00	30.4%
204	10	Surface	Iron	3.08E+04	0.00			0.00	44.6%
204	10	Surface	Vanadium	1.19E+02	0.00		0.00	0.00	25.0%
204	**10**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**10**	**Surface**	**Percent**		**99%**		**1%**		
204	11	Surface	Iron	3.05E+04	0.00			0.00	59.6%
204	11	Surface	Vanadium	1.43E+02	0.00		0.00	0.00	40.4%
204	**11**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**11**	**Surface**	**Percent**		**98%**		**2%**		
204	12	Surface	Iron	2.86E+04	0.00			0.00	44.6%
204	12	Surface	Thallium	2.10E-01	0.00			0.00	22.9%
204	12	Surface	Vanadium	1.44E+02	0.00		0.00	0.00	32.5%
204	**12**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**12**	**Surface**	**Percent**		**99%**		**1%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.00		0.00	0.00	100.0%
204	**13**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**13**	**Surface**	**Percent**		**96%**		**4%**		
204	14	Surface	Arsenic	1.36E+02	0.01	0.02	0.00	0.03	92.0%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.00			0.00	3.0%
204	14	Surface	Uranium	1.34E+02	0.00		0.00	0.00	3.1%
204	14	Surface	Vanadium	1.43E+02	0.00		0.00	0.00	1.9%
204	**14**	**Surface**	**Totals**		**0.01**	**0.02**	**0.00**	**0.03**	
204	**14**	**Surface**	**Percent**		**37%**	**62%**	**1%**		
204	15	Surface	Iron	2.90E+04	0.00			0.00	63.9%
204	15	Surface	Vanadium	1.13E+02	0.00		0.00	0.00	36.1%
204	**15**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**15**	**Surface**	**Percent**		**99%**		**1%**		
204	16	Surface	Iron	2.89E+04	0.00			0.00	62.1%
204	16	Surface	Vanadium	1.22E+02	0.00		0.00	0.00	37.9%
204	**16**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**16**	**Surface**	**Percent**		**98%**		**2%**		
204	17	Surface	Iron	2.98E+04	0.00			0.00	62.8%
204	17	Surface	Vanadium	1.22E+02	0.00		0.00	0.00	37.2%
204	**17**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**17**	**Surface**	**Percent**		**98%**		**2%**		
204	18	Surface	Iron	3.35E+04	0.00			0.00	40.7%
204	18	Surface	Uranium	1.09E+02	0.00		0.00	0.00	32.8%
204	18	Surface	Vanadium	1.51E+02	0.00		0.00	0.00	26.5%
204	**18**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**18**	**Surface**	**Percent**		**97%**		**3%**		
204	19	Surface	Silver	5.50E+01	0.00			0.00	17.4%
204	19	Surface	Uranium	8.50E+01	0.00		0.00	0.00	47.8%
204	19	Surface	Vanadium	1.06E+02	0.00		0.00	0.00	34.8%
204	**19**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**19**	**Surface**	**Percent**		**96%**		**4%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%
204	20	Surface	Uranium	1.31E+04	0.10		0.01	0.11	99.5%
204	20	Surface	Vanadium	1.14E+02	0.00		0.00	0.00	0.5%
204	**20**	**Surface**	**Totals**		**0.10**		**0.01**	**0.11**	
204	**20**	**Surface**	**Percent**		**94%**		**6%**		
204	21	Surface	Cobalt	1.80E+01	0.00		0.00	0.00	71.8%
204	21	Surface	Vanadium	1.19E+02	0.00		0.00	0.00	28.2%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	**21**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
204	**21**	**Surface**	**Percent**		**96%**		**4%**		
211	1	Surface	Antimony	6.52E+01	0.00			0.00	62.6%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.00			0.00	16.7%
211	1	Surface	Thallium	3.30E-01	0.00			0.00	12.7%
211	1	Surface	Vanadium	1.01E+02	0.00		0.00	0.00	8.0%
211	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.00**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	0.01			0.01	94.8%
224	1	Surface	Uranium	4.15E+01	0.00		0.00	0.00	5.2%
224	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.00			0.00	72.8%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.00			0.00	15.1%
225	1	Surface	Vanadium	1.09E+02	0.00		0.00	0.00	12.1%
225	**1**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
225	**1**	**Surface**	**Percent**		**99%**		**1%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Future Industrial Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.00		0.00	0.00	100.0%
13	**1**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**1**	**Surface**	**Percent**		**96%**		**4%**		
13	2	Surface	Iron	2.47E+04	0.02			0.02	27.9%
13	2	Surface	Manganese	1.22E+03	0.02		0.01	0.03	56.8%
13	2	Surface	Vanadium	9.38E+01	0.01		0.00	0.01	15.3%
13	**2**	**Surface**	**Totals**		**0.04**		**0.01**	**0.06**	
13	**2**	**Surface**	**Percent**		**83%**		**17%**		
13	3	Surface	Iron	2.63E+04	0.02			0.02	29.6%
13	3	Surface	Manganese	1.09E+03	0.02		0.01	0.03	50.8%
13	3	Surface	Molybdenum	2.19E+01	0.00			0.00	3.5%
13	3	Surface	Vanadium	9.88E+01	0.01		0.00	0.01	16.1%
13	**3**	**Surface**	**Totals**		**0.05**		**0.01**	**0.06**	
13	**3**	**Surface**	**Percent**		**84%**		**16%**		
13	4	Surface	Iron	2.75E+04	0.02			0.02	65.9%
13	4	Surface	Vanadium	9.81E+01	0.01		0.00	0.01	34.1%
13	**4**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
13	**4**	**Surface**	**Percent**		**99%**		**1%**		
13	5	Surface	Aluminum	9.83E+03	0.00		0.00	0.00	7.8%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.01			0.01	23.4%
13	5	Surface	Manganese	9.08E+02	0.02		0.01	0.02	36.2%
13	5	Surface	Uranium	7.41E+01	0.01		0.00	0.01	17.8%
13	5	Surface	Vanadium	1.06E+02	0.01		0.00	0.01	14.8%
13	**5**	**Surface**	**Totals**		**0.05**		**0.01**	**0.05**	
13	**5**	**Surface**	**Percent**		**87%**		**13%**		
13	6	Surface	Iron	3.09E+04	0.02			0.02	53.8%
13	6	Surface	Uranium	3.70E+01	0.01		0.00	0.01	16.0%
13	6	Surface	Vanadium	1.20E+02	0.01		0.00	0.01	30.2%
13	**6**	**Surface**	**Totals**		**0.03**		**0.00**	**0.04**	
13	**6**	**Surface**	**Percent**		**98%**		**2%**		
13	7	Surface	Iron	2.78E+04	0.02			0.02	39.1%
13	7	Surface	Silver	1.85E+02	0.02			0.02	36.2%
13	7	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	24.7%
13	**7**	**Surface**	**Totals**		**0.04**		**0.00**	**0.05**	
13	**7**	**Surface**	**Percent**		**99%**		**1%**		
13	8	Surface	Iron	2.41E+04	0.01			0.01	28.4%
13	8	Surface	Manganese	1.12E+03	0.02		0.01	0.03	54.5%
13	8	Surface	Vanadium	9.97E+01	0.01		0.00	0.01	17.0%
13	**8**	**Surface**	**Totals**		**0.04**		**0.01**	**0.05**	
13	**8**	**Surface**	**Percent**		**83%**		**17%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.01		0.00	0.01	100.0%
13	**9**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
13	**9**	**Surface**	**Percent**		**96%**		**4%**		
13	10	Surface	Iron	3.80E+04	0.02			0.02	19.8%
13	10	Surface	Manganese	3.09E+03	0.06		0.02	0.08	66.4%
13	10	Surface	Silver	5.40E+01	0.00			0.00	3.9%
13	10	Surface	Vanadium	1.30E+02	0.01		0.00	0.01	9.8%
13	**10**	**Surface**	**Totals**		**0.09**		**0.02**	**0.11**	
13	**10**	**Surface**	**Percent**		**80%**		**20%**		
13	11	Surface	Silver	1.03E+02	0.01			0.01	46.7%
13	11	Surface	Vanadium	1.14E+02	0.01		0.00	0.01	53.3%
13	**11**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
13	**11**	**Surface**	**Percent**		**98%**		**2%**		
13	12	Surface	Iron	2.30E+04	0.01			0.01	21.3%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Manganese	1.35E+03	0.02		0.01	0.03	51.6%
13	12	Surface	Silver	8.88E+01	0.01			0.01	11.5%
13	12	Surface	Vanadium	1.16E+02	0.01		0.00	0.01	15.6%
13	**12**	**Surface**	**Totals**		**0.06**		**0.01**	**0.06**	
13	**12**	**Surface**	**Percent**		**84%**		**16%**		
13	13	Surface	Iron	2.89E+04	0.02			0.02	30.0%
13	13	Surface	Manganese	1.13E+03	0.02		0.01	0.03	48.2%
13	13	Surface	Molybdenum	2.73E+01	0.00			0.00	4.0%
13	13	Surface	Vanadium	1.19E+02	0.01		0.00	0.01	17.8%
13	**13**	**Surface**	**Totals**		**0.05**		**0.01**	**0.06**	
13	**13**	**Surface**	**Percent**		**85%**		**15%**		
13	14	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	100.0%
13	**14**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
13	**14**	**Surface**	**Percent**		**96%**		**4%**		
15	1	Surface	Antimony	7.49E+01	0.08			0.08	40.4%
15	1	Surface	Arsenic	1.27E+01	0.02	0.04	0.00	0.06	28.2%
15	1	Surface	Cadmium	1.56E+01	0.01	0.02	0.00	0.03	13.0%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.02			0.02	9.1%
15	1	Surface	Nickel	1.32E+02	0.00		0.00	0.00	1.7%
15	1	Surface	Thallium	2.40E-01	0.01			0.01	5.2%
15	1	Surface	Uranium	3.26E+01	0.00		0.00	0.00	2.5%
15	**1**	**Surface**	**Totals**		**0.14**	**0.06**	**0.00**	**0.20**	
15	**1**	**Surface**	**Percent**		**71%**	**28%**	**1%**		
15	2	Surface	Antimony	9.83E+01	0.11			0.11	44.0%
15	2	Surface	Arsenic	1.63E+01	0.02	0.05	0.00	0.07	30.1%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.02			0.02	9.9%
15	2	Surface	Mercury	9.33E+00	0.01			0.01	5.6%
15	2	Surface	Nickel	1.97E+02	0.00		0.00	0.01	2.1%
15	2	Surface	Uranium	1.32E+02	0.02		0.00	0.02	8.4%
15	**2**	**Surface**	**Totals**		**0.19**	**0.05**	**0.00**	**0.24**	
15	**2**	**Surface**	**Percent**		**79%**	**20%**	**1%**		
15	3	Surface	Antimony	7.10E+01	0.08			0.08	16.2%
15	3	Surface	Arsenic	2.74E+01	0.04	0.08	0.00	0.12	25.8%
15	3	Surface	Cadmium	1.25E+01	0.01	0.01	0.00	0.02	4.4%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.05		0.00	0.05	10.8%
15	3	Surface	Copper	1.60E+03	0.02			0.02	3.7%
15	3	Surface	Iron	9.20E+04	0.06			0.06	12.0%
15	3	Surface	Manganese	1.60E+03	0.03		0.01	0.04	8.6%
15	3	Surface	Mercury	1.05E+01	0.01			0.01	3.2%
15	3	Surface	Nickel	8.38E+02	0.02		0.00	0.02	4.6%
15	3	Surface	Thallium	2.60E-01	0.01			0.01	2.4%
15	3	Surface	Uranium	2.16E+02	0.03		0.00	0.03	7.0%
15	3	Surface	Vanadium	7.31E+01	0.01		0.00	0.01	1.4%
15	**3**	**Surface**	**Totals**		**0.35**	**0.10**	**0.02**	**0.47**	
15	**3**	**Surface**	**Percent**		**75%**	**21%**	**4%**		
15	4	Surface	Antimony	7.63E+01	0.08			0.08	18.1%
15	4	Surface	Arsenic	3.37E+01	0.05	0.10	0.00	0.15	32.9%
15	4	Surface	Cadmium	1.86E+01	0.01	0.02	0.00	0.03	6.8%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.01			0.01	1.4%
15	4	Surface	Iron	6.90E+04	0.04			0.04	9.3%
15	4	Surface	Manganese	1.29E+03	0.02		0.01	0.03	7.2%
15	4	Surface	Mercury	3.04E+01	0.04			0.04	9.6%

SWMU = solid waste management unit
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Table D.27. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.24E+03	0.03		0.01	0.03	7.0%
15	4	Surface	Thallium	1.85E-01	0.01			0.01	1.8%
15	4	Surface	Uranium	1.29E+02	0.02		0.00	0.02	4.3%
15	4	Surface	Vanadium	8.43E+01	0.01		0.00	0.01	1.7%
15	**4**	**Surface**	**Totals**		**0.31**	**0.12**	**0.02**	**0.45**	
15	**4**	**Surface**	**Percent**		**69%**	**27%**	**4%**		
15	5	Surface	Antimony	1.01E+02	0.11			0.11	37.7%
15	5	Surface	Arsenic	1.28E+01	0.02	0.04	0.00	0.06	19.7%
15	5	Surface	Cadmium	1.46E+01	0.01	0.02	0.00	0.02	8.4%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.06			0.06	21.0%
15	5	Surface	Nickel	3.53E+02	0.01		0.00	0.01	3.1%
15	5	Surface	Uranium	1.76E+02	0.03		0.00	0.03	9.3%
15	5	Surface	Zinc	1.52E+03	0.00			0.00	0.8%
15	**5**	**Surface**	**Totals**		**0.23**	**0.06**	**0.00**	**0.29**	
15	**5**	**Surface**	**Percent**		**79%**	**19%**	**1%**		
15	6	Surface	Antimony	8.85E+01	0.09			0.09	39.0%
15	6	Surface	Arsenic	1.24E+01	0.02	0.04	0.00	0.05	22.7%
15	6	Surface	Cadmium	1.64E+01	0.01	0.02	0.00	0.03	11.1%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.02		0.00	0.02	9.9%
15	6	Surface	Copper	4.23E+02	0.00			0.00	1.9%
15	6	Surface	Iron	3.29E+04	0.02			0.02	8.3%
15	6	Surface	Nickel	3.00E+02	0.01		0.00	0.01	3.2%
15	6	Surface	Uranium	6.30E+01	0.01		0.00	0.01	3.9%
15	**6**	**Surface**	**Totals**		**0.18**	**0.06**	**0.00**	**0.23**	
15	**6**	**Surface**	**Percent**		**75%**	**23%**	**2%**		
15	7	Surface	Antimony	1.37E+02	0.15			0.15	42.9%
15	7	Surface	Arsenic	1.61E+01	0.02	0.05	0.00	0.07	20.8%
15	7	Surface	Cadmium	1.80E+01	0.01	0.02	0.00	0.03	8.7%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.01			0.01	2.6%
15	7	Surface	Iron	3.42E+04	0.02			0.02	6.1%
15	7	Surface	Manganese	1.18E+03	0.02		0.01	0.03	8.7%
15	7	Surface	Nickel	5.59E+02	0.01		0.00	0.01	4.2%
15	7	Surface	Thallium	3.00E-01	0.01			0.01	3.7%
15	7	Surface	Uranium	5.39E+01	0.01		0.00	0.01	2.4%
15	**7**	**Surface**	**Totals**		**0.26**	**0.07**	**0.01**	**0.34**	
15	**7**	**Surface**	**Percent**		**76%**	**20%**	**4%**		
15	8	Surface	Antimony	7.42E+01	0.08			0.08	39.3%
15	8	Surface	Arsenic	1.17E+01	0.02	0.03	0.00	0.05	25.5%
15	8	Surface	Cadmium	1.68E+01	0.01	0.02	0.00	0.03	13.8%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.02			0.02	8.6%
15	8	Surface	Mercury	1.01E+01	0.01			0.01	7.1%
15	8	Surface	Nickel	1.82E+02	0.00		0.00	0.00	2.3%
15	8	Surface	Uranium	4.46E+01	0.01		0.00	0.01	3.4%
15	**8**	**Surface**	**Totals**		**0.15**	**0.05**	**0.00**	**0.20**	
15	**8**	**Surface**	**Percent**		**72%**	**27%**	**1%**		
15	9	Surface	Antimony	1.12E+02	0.12			0.12	52.0%
15	9	Surface	Arsenic	1.10E+01	0.02	0.03	0.00	0.05	21.2%
15	9	Surface	Cadmium	1.81E+01	0.01	0.02	0.00	0.03	13.0%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.02			0.02	7.3%
15	9	Surface	Nickel	1.49E+02	0.00		0.00	0.00	1.6%
15	9	Surface	Uranium	3.07E+01	0.00		0.00	0.00	2.0%

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Table D.27. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	9	Surface	Vanadium	7.33E+01	0.01		0.00	0.01	2.8%
15	**9**	**Surface**	**Totals**		**0.17**	**0.05**	**0.00**	**0.23**	
15	**9**	**Surface**	**Percent**		**76%**	**24%**	**1%**		
15	10	Surface	Antimony	1.25E+02	0.13			0.13	69.6%
15	10	Surface	Cadmium	1.67E+01	0.01	0.02	0.00	0.03	14.4%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.01			0.01	5.8%
15	10	Surface	Nickel	2.26E+02	0.00		0.00	0.01	3.0%
15	10	Surface	Uranium	9.02E+01	0.01		0.00	0.01	7.1%
15	**10**	**Surface**	**Totals**		**0.17**	**0.02**	**0.00**	**0.19**	
15	**10**	**Surface**	**Percent**		**88%**	**10%**	**1%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.02			0.02	13.8%
26	1	Surface	Uranium	6.28E+02	0.09		0.01	0.10	75.0%
26	1	Surface	Vanadium	1.61E+02	0.01		0.00	0.01	11.2%
26	**1**	**Surface**	**Totals**		**0.12**		**0.01**	**0.13**	
26	**1**	**Surface**	**Percent**		**95%**		**5%**		
26	2	Surface	Aluminum	2.61E+04	0.01		0.00	0.01	0.9%
26	2	Surface	Arsenic	4.23E+01	0.06	0.13	0.00	0.19	12.7%
26	2	Surface	Beryllium	1.13E+01	0.00		0.00	0.00	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	0.09		0.00	0.10	6.7%
26	2	Surface	Iron	5.20E+04	0.03			0.03	2.2%
26	2	Surface	Nickel	1.03E+02	0.00		0.00	0.00	0.2%
26	2	Surface	Thallium	2.38E+01	1.02			1.02	69.1%
26	2	Surface	Uranium	7.18E+02	0.10		0.01	0.11	7.4%
26	2	Surface	Vanadium	1.16E+02	0.01		0.00	0.01	0.7%
26	**2**	**Surface**	**Totals**		**1.33**	**0.13**	**0.01**	**1.47**	
26	**2**	**Surface**	**Percent**		**90%**	**9%**	**1%**		
26	3	Surface	Arsenic	7.56E+01	0.11	0.22	0.00	0.33	59.6%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.02			0.02	3.8%
26	3	Surface	Molybdenum	4.07E+01	0.00			0.00	0.6%
26	3	Surface	Thallium	3.68E+00	0.16			0.16	28.1%
26	3	Surface	Uranium	2.05E+02	0.03		0.00	0.03	5.6%
26	3	Surface	Vanadium	1.44E+02	0.01		0.00	0.01	2.3%
26	**3**	**Surface**	**Totals**		**0.33**	**0.22**	**0.00**	**0.55**	
26	**3**	**Surface**	**Percent**		**59%**	**40%**	**1%**		
26	4	Surface	Aluminum	1.11E+04	0.00		0.00	0.01	0.9%
26	4	Surface	Arsenic	6.01E+01	0.09	0.18	0.00	0.27	41.9%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.02			0.02	2.7%
26	4	Surface	Mercury	7.33E+01	0.10			0.10	16.5%
26	4	Surface	Molybdenum	3.49E+01	0.00			0.00	0.5%
26	4	Surface	Nickel	8.10E+01	0.00		0.00	0.00	0.3%
26	4	Surface	Uranium	1.47E+03	0.21		0.01	0.22	35.2%
26	4	Surface	Vanadium	1.42E+02	0.01		0.00	0.01	2.0%
26	**4**	**Surface**	**Totals**		**0.44**	**0.18**	**0.02**	**0.63**	
26	**4**	**Surface**	**Percent**		**69%**	**28%**	**3%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.03			0.03	21.0%
77	1	Surface	Uranium	6.66E+02	0.10		0.01	0.10	68.9%
77	1	Surface	Vanadium	1.68E+02	0.01		0.00	0.01	10.1%
77	**1**	**Surface**	**Totals**		**0.14**		**0.01**	**0.14**	
77	**1**	**Surface**	**Percent**		**95%**		**5%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.05		0.00	0.05	78.4%

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Table D.27. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	1	Surface	Uranium	9.80E+01	0.01		0.00	0.01	21.6%
80	**1**	**Surface**	**Totals**		**0.07**		**0.00**	**0.06**	
80	**1**	**Surface**	**Percent**		**99%**		**1%**		
80	2	Surface	Antimony	5.82E+01	0.06			0.06	6.3%
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.03		0.00	0.03	2.8%
80	2	Surface	Iron	3.52E+04	0.02			0.02	2.2%
80	2	Surface	Uranium	5.72E+03	0.82		0.05	0.87	87.6%
80	2	Surface	Vanadium	1.29E+02	0.01		0.00	0.01	1.2%
80	**2**	**Surface**	**Totals**		**0.94**		**0.05**	**0.99**	
80	**2**	**Surface**	**Percent**		**95%**		**5%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.02			0.02	28.1%
80	3	Surface	Manganese	9.46E+02	0.02		0.01	0.02	36.0%
80	3	Surface	Molybdenum	2.33E+01	0.00			0.00	3.0%
80	3	Surface	Uranium	7.32E+01	0.01		0.00	0.01	16.8%
80	3	Surface	Vanadium	1.21E+02	0.01		0.00	0.01	16.1%
80	**3**	**Surface**	**Totals**		**0.06**		**0.01**	**0.06**	
80	**3**	**Surface**	**Percent**		**88%**		**12%**		
204	1	Surface	Aluminum	1.18E+04	0.01		0.00	0.01	35.7%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.01		0.00	0.01	64.2%
204	**1**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
204	**1**	**Surface**	**Percent**		**92%**		**8%**		
204	2	Surface	Arsenic	4.59E+01	0.07	0.14	0.00	0.20	95.0%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.01		0.00	0.01	5.0%
204	**2**	**Surface**	**Totals**		**0.08**	**0.14**	**0.00**	**0.21**	
204	**2**	**Surface**	**Percent**		**35%**	**64%**	**1%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.00			0.00	29.9%
204	3	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	70.0%
204	**3**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**3**	**Surface**	**Percent**		**97%**		**3%**		
204	4	Surface	Iron	2.92E+04	0.02			0.02	46.1%
204	4	Surface	Molybdenum	4.10E+01	0.00			0.00	9.1%
204	4	Surface	Silver	5.90E+01	0.01			0.01	13.0%
204	4	Surface	Vanadium	1.39E+02	0.01		0.00	0.01	31.8%
204	**4**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**4**	**Surface**	**Percent**		**99%**		**1%**		
204	5	Surface	Arsenic	5.67E+01	0.08	0.17	0.00	0.25	95.9%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.01		0.00	0.01	4.1%
204	**5**	**Surface**	**Totals**		**0.09**	**0.17**	**0.00**	**0.26**	
204	**5**	**Surface**	**Percent**		**35%**	**64%**	**1%**		
204	6	Surface	Vanadium	1.25E+02	0.01		0.00	0.01	100.0%
204	**6**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**6**	**Surface**	**Percent**		**96%**		**4%**		
204	7	Surface	Iron	2.95E+04	0.02			0.02	23.1%
204	7	Surface	Manganese	1.94E+03	0.03		0.01	0.05	62.5%
204	7	Surface	Vanadium	1.27E+02	0.01		0.00	0.01	14.4%
204	**7**	**Surface**	**Totals**		**0.06**		**0.01**	**0.08**	
204	**7**	**Surface**	**Percent**		**81%**		**19%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.02		0.00	0.02	41.2%
204	8	Surface	Iron	2.94E+04	0.02			0.02	35.6%

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Table D.27. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	8	Surface	Vanadium	1.32E+02	0.01		0.00	0.01	23.2%
204	**8**	**Surface**	**Totals**		**0.05**		**0.00**	**0.05**	
204	**8**	**Surface**	**Percent**		**97%**		**3%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.02			0.02	59.9%
204	9	Surface	Vanadium	1.37E+02	0.01		0.00	0.01	40.1%
204	**9**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**9**	**Surface**	**Percent**		**98%**		**2%**		
204	10	Surface	Antimony	1.20E+01	0.01			0.01	30.4%
204	10	Surface	Iron	3.08E+04	0.02			0.02	44.6%
204	10	Surface	Vanadium	1.19E+02	0.01		0.00	0.01	25.0%
204	**10**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**10**	**Surface**	**Percent**		**99%**		**1%**		
204	11	Surface	Iron	3.05E+04	0.02			0.02	59.6%
204	11	Surface	Vanadium	1.43E+02	0.01		0.00	0.01	40.4%
204	**11**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**11**	**Surface**	**Percent**		**98%**		**2%**		
204	12	Surface	Iron	2.86E+04	0.02			0.02	44.6%
204	12	Surface	Thallium	2.10E-01	0.01			0.01	22.9%
204	12	Surface	Vanadium	1.44E+02	0.01		0.00	0.01	32.5%
204	**12**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**12**	**Surface**	**Percent**		**99%**		**1%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.01		0.00	0.01	100.0%
204	**13**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**13**	**Surface**	**Percent**		**96%**		**4%**		
204	14	Surface	Arsenic	1.36E+02	0.19	0.40	0.00	0.60	92.0%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.02			0.02	3.0%
204	14	Surface	Uranium	1.34E+02	0.02		0.00	0.02	3.1%
204	14	Surface	Vanadium	1.43E+02	0.01		0.00	0.01	1.9%
204	**14**	**Surface**	**Totals**		**0.24**	**0.40**	**0.01**	**0.65**	
204	**14**	**Surface**	**Percent**		**37%**	**62%**	**1%**		
204	15	Surface	Iron	2.90E+04	0.02			0.02	63.9%
204	15	Surface	Vanadium	1.13E+02	0.01		0.00	0.01	36.1%
204	**15**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**15**	**Surface**	**Percent**		**99%**		**1%**		
204	16	Surface	Iron	2.89E+04	0.02			0.02	62.1%
204	16	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	37.9%
204	**16**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**16**	**Surface**	**Percent**		**98%**		**2%**		
204	17	Surface	Iron	2.98E+04	0.02			0.02	62.8%
204	17	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	37.2%
204	**17**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**17**	**Surface**	**Percent**		**98%**		**2%**		
204	18	Surface	Iron	3.35E+04	0.02			0.02	40.7%
204	18	Surface	Uranium	1.09E+02	0.02		0.00	0.02	32.8%
204	18	Surface	Vanadium	1.51E+02	0.01		0.00	0.01	26.5%
204	**18**	**Surface**	**Totals**		**0.05**		**0.00**	**0.05**	
204	**18**	**Surface**	**Percent**		**97%**		**3%**		
204	19	Surface	Silver	5.50E+01	0.00			0.00	17.4%
204	19	Surface	Uranium	8.50E+01	0.01		0.00	0.01	47.8%
204	19	Surface	Vanadium	1.06E+02	0.01		0.00	0.01	34.8%
204	**19**	**Surface**	**Totals**		**0.03**		**0.00**	**0.02**	
204	**19**	**Surface**	**Percent**		**96%**		**4%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	20	Surface	Uranium	1.31E+04	1.87		0.12	1.99	99.5%
204	20	Surface	Vanadium	1.14E+02	0.01		0.00	0.01	0.5%
204	**20**	**Surface**	**Totals**		**1.87**		**0.12**	**2.00**	
204	**20**	**Surface**	**Percent**		**94%**		**6%**		
204	21	Surface	Cobalt	1.80E+01	0.03		0.00	0.03	71.8%
204	21	Surface	Vanadium	1.19E+02	0.01		0.00	0.01	28.2%
204	**21**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**21**	**Surface**	**Percent**		**96%**		**4%**		
211	1	Surface	Antimony	6.52E+01	0.07			0.07	62.6%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.02			0.02	16.7%
211	1	Surface	Thallium	3.30E-01	0.01			0.01	12.7%
211	1	Surface	Vanadium	1.01E+02	0.01		0.00	0.01	8.0%
211	**1**	**Surface**	**Totals**		**0.11**		**0.00**	**0.11**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	0.12			0.12	94.8%
224	1	Surface	Uranium	4.15E+01	0.01		0.00	0.01	5.2%
224	**1**	**Surface**	**Totals**		**0.12**		**0.00**	**0.13**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.06			0.06	72.8%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.01			0.01	15.1%
225	1	Surface	Vanadium	1.09E+02	0.01		0.00	0.01	12.1%
225	**1**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
225	**1**	**Surface**	**Percent**		**99%**		**1%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.02		0.00	0.02	100.0%
13	**1**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
13	**1**	**Surface**	**Percent**		**100%**		**0%**		
13	2	Surface	Iron	2.47E+04	0.11			0.11	33.0%
13	2	Surface	Manganese	1.22E+03	0.16		0.01	0.16	49.6%
13	2	Surface	Vanadium	9.38E+01	0.06		0.00	0.06	17.4%
13	**2**	**Surface**	**Totals**		**0.32**		**0.01**	**0.33**	
13	**2**	**Surface**	**Percent**		**98%**		**2%**		
13	3	Surface	Iron	2.63E+04	0.11			0.11	34.4%
13	3	Surface	Manganese	1.09E+03	0.14		0.01	0.14	43.5%
13	3	Surface	Molybdenum	2.19E+01	0.01			0.01	4.0%
13	3	Surface	Vanadium	9.88E+01	0.06		0.00	0.06	18.0%
13	**3**	**Surface**	**Totals**		**0.33**		**0.01**	**0.32**	
13	**3**	**Surface**	**Percent**		**98%**		**2%**		
13	4	Surface	Iron	2.75E+04	0.12			0.12	66.7%
13	4	Surface	Vanadium	9.81E+01	0.06		0.00	0.06	33.3%
13	**4**	**Surface**	**Totals**		**0.18**		**0.00**	**0.18**	
13	**4**	**Surface**	**Percent**		**100%**		**0%**		
13	5	Surface	Aluminum	9.83E+03	0.03		0.00	0.03	7.7%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.11			0.11	26.6%
13	5	Surface	Manganese	9.08E+02	0.12		0.00	0.12	30.4%
13	5	Surface	Uranium	7.41E+01	0.08		0.00	0.08	19.1%
13	5	Surface	Vanadium	1.06E+02	0.06		0.00	0.06	16.2%
13	**5**	**Surface**	**Totals**		**0.39**		**0.01**	**0.40**	
13	**5**	**Surface**	**Percent**		**98%**		**2%**		
13	6	Surface	Iron	3.09E+04	0.13			0.13	54.9%
13	6	Surface	Uranium	3.70E+01	0.04		0.00	0.04	15.4%
13	6	Surface	Vanadium	1.20E+02	0.07		0.00	0.07	29.7%
13	**6**	**Surface**	**Totals**		**0.24**		**0.00**	**0.24**	
13	**6**	**Surface**	**Percent**		**100%**		**0%**		
13	7	Surface	Iron	2.78E+04	0.12			0.12	39.4%
13	7	Surface	Silver	1.85E+02	0.11			0.11	36.6%
13	7	Surface	Vanadium	1.22E+02	0.07		0.00	0.07	24.0%
13	**7**	**Surface**	**Totals**		**0.31**		**0.00**	**0.30**	
13	**7**	**Surface**	**Percent**		**100%**		**0%**		
13	8	Surface	Iron	2.41E+04	0.10			0.10	33.4%
13	8	Surface	Manganese	1.12E+03	0.14		0.01	0.15	47.3%
13	8	Surface	Vanadium	9.97E+01	0.06		0.00	0.06	19.3%
13	**8**	**Surface**	**Totals**		**0.31**		**0.01**	**0.31**	
13	**8**	**Surface**	**Percent**		**98%**		**2%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.07		0.00	0.07	100.0%
13	**9**	**Surface**	**Totals**		**0.07**		**0.00**	**0.07**	
13	**9**	**Surface**	**Percent**		**100%**		**0%**		
13	10	Surface	Iron	3.80E+04	0.17			0.17	24.1%
13	10	Surface	Manganese	3.09E+03	0.39		0.02	0.41	59.6%
13	10	Surface	Silver	5.40E+01	0.03			0.03	4.8%
13	10	Surface	Vanadium	1.30E+02	0.08		0.00	0.08	11.5%
13	**10**	**Surface**	**Totals**		**0.67**		**0.02**	**0.69**	
13	**10**	**Surface**	**Percent**		**97%**		**3%**		
13	11	Surface	Silver	1.03E+02	0.06			0.06	47.6%
13	11	Surface	Vanadium	1.14E+02	0.07		0.00	0.07	52.4%
13	**11**	**Surface**	**Totals**		**0.13**		**0.00**	**0.13**	
13	**11**	**Surface**	**Percent**		**100%**		**0%**		
13	12	Surface	Iron	2.30E+04	0.10			0.10	24.8%
13	12	Surface	Manganese	1.35E+03	0.17		0.01	0.18	44.3%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Silver	8.88E+01	0.05			0.05	13.4%
13	12	Surface	Vanadium	1.16E+02	0.07		0.00	0.07	17.5%
13	**12**	**Surface**	**Totals**		**0.40**		**0.01**	**0.40**	
13	**12**	**Surface**	**Percent**		**98%**		**2%**		
13	13	Surface	Iron	2.89E+04	0.13			0.13	34.6%
13	13	Surface	Manganese	1.13E+03	0.14		0.01	0.15	41.0%
13	13	Surface	Molybdenum	2.73E+01	0.02			0.02	4.6%
13	13	Surface	Vanadium	1.19E+02	0.07		0.00	0.07	19.8%
13	**13**	**Surface**	**Totals**		**0.36**		**0.01**	**0.37**	
13	**13**	**Surface**	**Percent**		**98%**		**2%**		
13	14	Surface	Vanadium	1.22E+02	0.07		0.00	0.07	100.0%
13	**14**	**Surface**	**Totals**		**0.07**		**0.00**	**0.07**	
13	**14**	**Surface**	**Percent**		**100%**		**0%**		
15	1	Surface	Antimony	7.49E+01	0.57			0.57	54.6%
15	1	Surface	Arsenic	1.27E+01	0.13	0.03	0.00	0.16	15.0%
15	1	Surface	Cadmium	1.56E+01	0.05	0.01	0.00	0.06	5.9%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.13			0.13	12.3%
15	1	Surface	Nickel	1.32E+02	0.02		0.00	0.02	2.0%
15	1	Surface	Thallium	2.40E-01	0.07			0.07	7.0%
15	1	Surface	Uranium	3.26E+01	0.03		0.00	0.03	3.2%
15	**1**	**Surface**	**Totals**		**1.00**	**0.04**	**0.00**	**1.04**	
15	**1**	**Surface**	**Percent**		**96%**	**4%**	**0%**		
15	2	Surface	Antimony	9.83E+01	0.75			0.75	54.3%
15	2	Surface	Arsenic	1.63E+01	0.16	0.04	0.00	0.20	14.6%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.17			0.17	12.3%
15	2	Surface	Mercury	9.33E+00	0.09			0.09	6.9%
15	2	Surface	Nickel	1.97E+02	0.03		0.00	0.03	2.2%
15	2	Surface	Uranium	1.32E+02	0.13		0.00	0.13	9.8%
15	**2**	**Surface**	**Totals**		**1.34**	**0.04**	**0.00**	**1.37**	
15	**2**	**Surface**	**Percent**		**97%**	**3%**	**0%**		
15	3	Surface	Antimony	7.10E+01	0.54			0.54	20.8%
15	3	Surface	Arsenic	2.74E+01	0.28	0.06	0.00	0.34	13.1%
15	3	Surface	Cadmium	1.25E+01	0.04	0.01	0.00	0.05	1.9%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.35		0.00	0.35	13.4%
15	3	Surface	Copper	1.60E+03	0.12			0.12	4.7%
15	3	Surface	Iron	9.20E+04	0.40			0.40	15.4%
15	3	Surface	Manganese	1.60E+03	0.20		0.01	0.21	8.2%
15	3	Surface	Mercury	1.05E+01	0.11			0.11	4.1%
15	3	Surface	Nickel	8.38E+02	0.13		0.00	0.13	5.0%
15	3	Surface	Thallium	2.60E-01	0.08			0.08	3.1%
15	3	Surface	Uranium	2.16E+02	0.22		0.00	0.22	8.5%
15	3	Surface	Vanadium	7.31E+01	0.04		0.00	0.04	1.7%
15	**3**	**Surface**	**Totals**		**2.50**	**0.07**	**0.02**	**2.59**	
15	**3**	**Surface**	**Percent**		**97%**	**3%**	**1%**		
15	4	Surface	Antimony	7.63E+01	0.58			0.58	25.0%
15	4	Surface	Arsenic	3.37E+01	0.34	0.07	0.00	0.42	17.9%
15	4	Surface	Cadmium	1.86E+01	0.06	0.02	0.00	0.07	3.2%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.05			0.05	2.0%
15	4	Surface	Iron	6.90E+04	0.30			0.30	12.9%
15	4	Surface	Manganese	1.29E+03	0.16		0.01	0.17	7.3%
15	4	Surface	Mercury	3.04E+01	0.31			0.31	13.2%
15	4	Surface	Nickel	1.24E+03	0.19		0.00	0.19	8.3%
15	4	Surface	Thallium	1.85E-01	0.06			0.06	2.4%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Uranium	1.29E+02	0.13		0.00	0.13	5.7%
15	4	Surface	Vanadium	8.43E+01	0.05		0.00	0.05	2.2%
15	**4**	**Surface**	**Totals**		**2.22**	**0.09**	**0.01**	**2.33**	
15	**4**	**Surface**	**Percent**		**96%**	**4%**	**1%**		
15	5	Surface	Antimony	1.01E+02	0.77			0.77	46.3%
15	5	Surface	Arsenic	1.28E+01	0.13	0.03	0.00	0.16	9.5%
15	5	Surface	Cadmium	1.46E+01	0.04	0.01	0.00	0.06	3.5%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.43			0.43	25.8%
15	5	Surface	Nickel	3.53E+02	0.05		0.00	0.05	3.3%
15	5	Surface	Uranium	1.76E+02	0.18		0.00	0.18	10.8%
15	5	Surface	Zinc	1.52E+03	0.02			0.02	0.9%
15	**5**	**Surface**	**Totals**		**1.62**	**0.04**	**0.00**	**1.67**	
15	**5**	**Surface**	**Percent**		**97%**	**2%**	**0%**		
15	6	Surface	Antimony	8.85E+01	0.67			0.67	50.1%
15	6	Surface	Arsenic	1.24E+01	0.13	0.03	0.00	0.15	11.4%
15	6	Surface	Cadmium	1.64E+01	0.05	0.01	0.00	0.06	4.8%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.16		0.00	0.16	12.3%
15	6	Surface	Copper	4.23E+02	0.03			0.03	2.4%
15	6	Surface	Iron	3.29E+04	0.14			0.14	10.6%
15	6	Surface	Nickel	3.00E+02	0.05		0.00	0.05	3.5%
15	6	Surface	Uranium	6.30E+01	0.06		0.00	0.06	4.8%
15	**6**	**Surface**	**Totals**		**1.30**	**0.04**	**0.00**	**1.32**	
15	**6**	**Surface**	**Percent**		**97%**	**3%**	**0%**		
15	7	Surface	Antimony	1.37E+02	1.04			1.04	54.5%
15	7	Surface	Arsenic	1.61E+01	0.16	0.04	0.00	0.20	10.4%
15	7	Surface	Cadmium	1.80E+01	0.05	0.02	0.00	0.07	3.7%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.06			0.06	3.3%
15	7	Surface	Iron	3.42E+04	0.15			0.15	7.8%
15	7	Surface	Manganese	1.18E+03	0.15		0.01	0.16	8.2%
15	7	Surface	Nickel	5.59E+02	0.08		0.00	0.09	4.5%
15	7	Surface	Thallium	3.00E-01	0.09			0.09	4.8%
15	7	Surface	Uranium	5.39E+01	0.05		0.00	0.05	2.9%
15	**7**	**Surface**	**Totals**		**1.85**	**0.05**	**0.01**	**1.91**	
15	**7**	**Surface**	**Percent**		**97%**	**3%**	**0%**		
15	8	Surface	Antimony	7.42E+01	0.56			0.56	52.6%
15	8	Surface	Arsenic	1.17E+01	0.12	0.03	0.00	0.14	13.4%
15	8	Surface	Cadmium	1.68E+01	0.05	0.01	0.00	0.07	6.2%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.12			0.12	11.4%
15	8	Surface	Mercury	1.01E+01	0.10			0.10	9.5%
15	8	Surface	Nickel	1.82E+02	0.03		0.00	0.03	2.6%
15	8	Surface	Uranium	4.46E+01	0.05		0.00	0.05	4.2%
15	**8**	**Surface**	**Totals**		**1.03**	**0.04**	**0.00**	**1.07**	
15	**8**	**Surface**	**Percent**		**96%**	**4%**	**0%**		
15	9	Surface	Antimony	1.12E+02	0.85			0.85	66.6%
15	9	Surface	Arsenic	1.10E+01	0.11	0.02	0.00	0.14	10.7%
15	9	Surface	Cadmium	1.81E+01	0.06	0.02	0.00	0.07	5.6%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.12			0.12	9.4%
15	9	Surface	Nickel	1.49E+02	0.02		0.00	0.02	1.8%
15	9	Surface	Uranium	3.07E+01	0.03		0.00	0.03	2.5%
15	9	Surface	Vanadium	7.33E+01	0.04		0.00	0.04	3.5%
15	**9**	**Surface**	**Totals**		**1.23**	**0.04**	**0.00**	**1.27**	
15	**9**	**Surface**	**Percent**		**97%**	**3%**	**0%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	10	Surface	Antimony	1.25E+02	0.95			0.95	77.7%
15	10	Surface	Cadmium	1.67E+01	0.05	0.01	0.00	0.07	5.4%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.08			0.08	6.5%
15	10	Surface	Nickel	2.26E+02	0.03		0.00	0.04	2.9%
15	10	Surface	Uranium	9.02E+01	0.09		0.00	0.09	7.5%
15	**10**	**Surface**	**Totals**		**1.21**	**0.01**	**0.00**	**1.23**	
15	**10**	**Surface**	**Percent**		**99%**	**1%**	**0%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.13			0.13	14.5%
26	1	Surface	Uranium	6.28E+02	0.64		0.00	0.64	74.2%
26	1	Surface	Vanadium	1.61E+02	0.10		0.00	0.10	11.3%
26	**1**	**Surface**	**Totals**		**0.86**		**0.00**	**0.87**	
26	**1**	**Surface**	**Percent**		**99%**		**1%**		
26	2	Surface	Aluminum	2.61E+04	0.08		0.00	0.08	0.8%
26	2	Surface	Arsenic	4.23E+01	0.43	0.09	0.00	0.52	5.5%
26	2	Surface	Beryllium	1.13E+01	0.02		0.00	0.02	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	0.67		0.00	0.67	7.0%
26	2	Surface	Iron	5.20E+04	0.23			0.23	2.4%
26	2	Surface	Nickel	1.03E+02	0.02		0.00	0.02	0.2%
26	2	Surface	Thallium	2.38E+01	7.23			7.23	75.6%
26	2	Surface	Uranium	7.18E+02	0.73		0.00	0.73	7.7%
26	2	Surface	Vanadium	1.16E+02	0.07		0.00	0.07	0.7%
26	**2**	**Surface**	**Totals**		**9.46**	**0.09**	**0.01**	**9.57**	
26	**2**	**Surface**	**Percent**		**99%**	**1%**	**0%**		
26	3	Surface	Arsenic	7.56E+01	0.77	0.17	0.00	0.93	37.0%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.15			0.15	6.0%
26	3	Surface	Molybdenum	4.07E+01	0.02			0.02	1.0%
26	3	Surface	Thallium	3.68E+00	1.12			1.12	44.3%
26	3	Surface	Uranium	2.05E+02	0.21		0.00	0.21	8.3%
26	3	Surface	Vanadium	1.44E+02	0.09		0.00	0.09	3.5%
26	**3**	**Surface**	**Totals**		**2.36**	**0.17**	**0.00**	**2.52**	
26	**3**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
26	4	Surface	Aluminum	1.11E+04	0.03		0.00	0.03	1.1%
26	4	Surface	Arsenic	6.01E+01	0.61	0.13	0.00	0.74	22.8%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.12			0.12	3.7%
26	4	Surface	Mercury	7.33E+01	0.74			0.74	22.8%
26	4	Surface	Molybdenum	3.49E+01	0.02			0.02	0.7%
26	4	Surface	Nickel	8.10E+01	0.01		0.00	0.01	0.4%
26	4	Surface	Uranium	1.47E+03	1.49		0.01	1.50	46.0%
26	4	Surface	Vanadium	1.42E+02	0.09		0.00	0.09	2.6%
26	**4**	**Surface**	**Totals**		**3.12**	**0.13**	**0.01**	**3.25**	
26	**4**	**Surface**	**Percent**		**96%**	**4%**	**0%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.22			0.22	21.9%
77	1	Surface	Uranium	6.66E+02	0.68		0.00	0.68	67.9%
77	1	Surface	Vanadium	1.68E+02	0.10		0.00	0.10	10.2%
77	**1**	**Surface**	**Totals**		**1.00**		**0.00**	**1.00**	
77	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.38		0.00	0.38	79.3%
80	1	Surface	Uranium	9.80E+01	0.10		0.00	0.10	20.7%
80	**1**	**Surface**	**Totals**		**0.48**		**0.00**	**0.48**	
80	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	2	Surface	Antimony	5.82E+01	0.44			0.44	6.6%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.19		0.00	0.19	2.9%
80	2	Surface	Iron	3.52E+04	0.15			0.15	2.3%
80	2	Surface	Uranium	5.72E+03	5.80		0.04	5.84	87.1%
80	2	Surface	Vanadium	1.29E+02	0.08		0.00	0.08	1.2%
80	**2**	**Surface**	**Totals**		**6.67**		**0.04**	**6.70**	
80	**2**	**Surface**	**Percent**		**99%**		**1%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.13			0.13	31.6%
80	3	Surface	Manganese	9.46E+02	0.12		0.01	0.12	29.8%
80	3	Surface	Molybdenum	2.33E+01	0.01			0.01	3.4%
80	3	Surface	Uranium	7.32E+01	0.07		0.00	0.07	17.8%
80	3	Surface	Vanadium	1.21E+02	0.07		0.00	0.07	17.4%
80	**3**	**Surface**	**Totals**		**0.41**		**0.01**	**0.40**	
80	**3**	**Surface**	**Percent**		**99%**		**1%**		
204	1	Surface	Aluminum	1.18E+04	0.04		0.00	0.04	33.4%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.07		0.00	0.07	66.6%
204	**1**	**Surface**	**Totals**		**0.11**		**0.00**	**0.11**	
204	**1**	**Surface**	**Percent**		**99%**		**1%**		
204	2	Surface	Arsenic	4.59E+01	0.47	0.10	0.00	0.57	88.6%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.07		0.00	0.07	11.4%
204	**2**	**Surface**	**Totals**		**0.54**	**0.10**	**0.00**	**0.64**	
204	**2**	**Surface**	**Percent**		**84%**	**16%**	**0%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.03			0.03	30.7%
204	3	Surface	Vanadium	1.22E+02	0.07		0.00	0.07	69.2%
204	**3**	**Surface**	**Totals**		**0.11**		**0.00**	**0.10**	
204	**3**	**Surface**	**Percent**		**100%**		**0%**		
204	4	Surface	Iron	2.92E+04	0.13			0.13	46.7%
204	4	Surface	Molybdenum	4.10E+01	0.02			0.02	9.2%
204	4	Surface	Silver	5.90E+01	0.04			0.04	13.2%
204	4	Surface	Vanadium	1.39E+02	0.08		0.00	0.08	31.0%
204	**4**	**Surface**	**Totals**		**0.27**		**0.00**	**0.27**	
204	**4**	**Surface**	**Percent**		**100%**		**0%**		
204	5	Surface	Arsenic	5.67E+01	0.58	0.12	0.00	0.70	90.5%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.07		0.00	0.07	9.5%
204	**5**	**Surface**	**Totals**		**0.65**	**0.12**	**0.00**	**0.77**	
204	**5**	**Surface**	**Percent**		**84%**	**16%**	**0%**		
204	6	Surface	Vanadium	1.25E+02	0.08		0.00	0.08	100.0%
204	**6**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
204	**6**	**Surface**	**Percent**		**100%**		**0%**		
204	7	Surface	Iron	2.95E+04	0.13			0.13	27.8%
204	7	Surface	Manganese	1.94E+03	0.25		0.01	0.26	55.6%
204	7	Surface	Vanadium	1.27E+02	0.08		0.00	0.08	16.7%
204	**7**	**Surface**	**Totals**		**0.45**		**0.01**	**0.47**	
204	**7**	**Surface**	**Percent**		**98%**		**2%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.14		0.00	0.14	40.7%
204	8	Surface	Iron	2.94E+04	0.13			0.13	36.5%
204	8	Surface	Vanadium	1.32E+02	0.08		0.00	0.08	22.8%
204	**8**	**Surface**	**Totals**		**0.35**		**0.00**	**0.35**	
204	**8**	**Surface**	**Percent**		**100%**		**0%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.13			0.13	60.8%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	9	Surface	Vanadium	1.37E+02	0.08		0.00	0.08	39.2%
204	**9**	**Surface**	**Totals**		**0.21**		**0.00**	**0.21**	
204	**9**	**Surface**	**Percent**		**100%**		**0%**		
204	10	Surface	Antimony	1.20E+01	0.09			0.09	30.7%
204	10	Surface	Iron	3.08E+04	0.13			0.13	45.1%
204	10	Surface	Vanadium	1.19E+02	0.07		0.00	0.07	24.3%
204	**10**	**Surface**	**Totals**		**0.30**		**0.00**	**0.29**	
204	**10**	**Surface**	**Percent**		**100%**		**0%**		
204	11	Surface	Iron	3.05E+04	0.13			0.13	60.5%
204	11	Surface	Vanadium	1.43E+02	0.09		0.00	0.09	39.5%
204	**11**	**Surface**	**Totals**		**0.22**		**0.00**	**0.22**	
204	**11**	**Surface**	**Percent**		**100%**		**0%**		
204	12	Surface	Iron	2.86E+04	0.12			0.12	45.1%
204	12	Surface	Thallium	2.10E-01	0.06			0.06	23.2%
204	12	Surface	Vanadium	1.44E+02	0.09		0.00	0.09	31.7%
204	**12**	**Surface**	**Totals**		**0.28**		**0.00**	**0.27**	
204	**12**	**Surface**	**Percent**		**100%**		**0%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.09		0.00	0.09	100.0%
204	**13**	**Surface**	**Totals**		**0.09**		**0.00**	**0.09**	
204	**13**	**Surface**	**Percent**		**100%**		**0%**		
204	14	Surface	Arsenic	1.36E+02	1.38	0.30	0.00	1.68	82.3%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.14			0.14	6.7%
204	14	Surface	Uranium	1.34E+02	0.14		0.00	0.14	6.7%
204	14	Surface	Vanadium	1.43E+02	0.09		0.00	0.09	4.2%
204	**14**	**Surface**	**Totals**		**1.74**	**0.30**	**0.00**	**2.05**	
204	**14**	**Surface**	**Percent**		**85%**	**15%**	**0%**		
204	15	Surface	Iron	2.90E+04	0.13			0.13	64.8%
204	15	Surface	Vanadium	1.13E+02	0.07		0.00	0.07	35.2%
204	**15**	**Surface**	**Totals**		**0.19**		**0.00**	**0.20**	
204	**15**	**Surface**	**Percent**		**100%**		**0%**		
204	16	Surface	Iron	2.89E+04	0.13			0.13	63.0%
204	16	Surface	Vanadium	1.22E+02	0.07		0.00	0.07	37.0%
204	**16**	**Surface**	**Totals**		**0.20**		**0.00**	**0.20**	
204	**16**	**Surface**	**Percent**		**100%**		**0%**		
204	17	Surface	Iron	2.98E+04	0.13			0.13	63.7%
204	17	Surface	Vanadium	1.22E+02	0.07		0.00	0.07	36.3%
204	**17**	**Surface**	**Totals**		**0.20**		**0.00**	**0.20**	
204	**17**	**Surface**	**Percent**		**100%**		**0%**		
204	18	Surface	Iron	3.35E+04	0.15			0.15	41.8%
204	18	Surface	Uranium	1.09E+02	0.11		0.00	0.11	31.9%
204	18	Surface	Vanadium	1.51E+02	0.09		0.00	0.09	26.3%
204	**18**	**Surface**	**Totals**		**0.35**		**0.00**	**0.35**	
204	**18**	**Surface**	**Percent**		**100%**		**0%**		
204	19	Surface	Silver	5.50E+01	0.03			0.03	18.1%
204	19	Surface	Uranium	8.50E+01	0.09		0.00	0.09	47.0%
204	19	Surface	Vanadium	1.06E+02	0.06		0.00	0.06	34.8%
204	**19**	**Surface**	**Totals**		**0.18**		**0.00**	**0.18**	
204	**19**	**Surface**	**Percent**		**100%**		**0%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%
204	20	Surface	Uranium	1.31E+04	13.25		0.09	13.34	99.5%
204	20	Surface	Vanadium	1.14E+02	0.07		0.00	0.07	0.5%
204	**20**	**Surface**	**Totals**		**13.32**		**0.09**	**13.41**	
204	**20**	**Surface**	**Percent**		**99%**		**1%**		
204	21	Surface	Cobalt	1.80E+01	0.18		0.00	0.18	71.8%
204	21	Surface	Vanadium	1.19E+02	0.07		0.00	0.07	28.2%

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EU = exposure unit
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EPC = exposure point concentration
HI = hazard index

Table D.28. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	**21**	**Surface**	**Totals**		**0.25**		**0.00**	**0.25**	
204	**21**	**Surface**	**Percent**		**100%**		**0%**		
211	1	Surface	Antimony	6.52E+01	0.50			0.50	62.8%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.13			0.13	16.8%
211	1	Surface	Thallium	3.30E-01	0.10			0.10	12.7%
211	1	Surface	Vanadium	1.01E+02	0.06		0.00	0.06	7.7%
211	**1**	**Surface**	**Totals**		**0.79**		**0.00**	**0.79**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	0.82			0.82	95.1%
224	1	Surface	Uranium	4.15E+01	0.04		0.00	0.04	4.9%
224	**1**	**Surface**	**Totals**		**0.86**		**0.00**	**0.86**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.41			0.41	73.1%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.09			0.09	15.1%
225	1	Surface	Vanadium	1.09E+02	0.07		0.00	0.07	11.7%
225	**1**	**Surface**	**Totals**		**0.56**		**0.00**	**0.57**	
225	**1**	**Surface**	**Percent**		**100%**		**0%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Subsurface	Manganese	6.06E+02	0.08		0.00	0.08	58.9%
13	1	Subsurface	Vanadium	9.23E+01	0.06		0.00	0.06	41.1%
13	**1**	**Subsurface**	**Totals**		**0.13**		**0.00**	**0.14**	
13	**1**	**Subsurface**	**Percent**		**97%**		**3%**		
13	2	Subsurface	Arsenic	1.04E+01	0.11	0.02	0.00	0.13	28.3%
13	2	Subsurface	Iron	2.47E+04	0.11			0.11	23.6%
13	2	Subsurface	Manganese	1.22E+03	0.16		0.01	0.16	35.6%
13	2	Subsurface	Vanadium	9.38E+01	0.06		0.00	0.06	12.5%
13	**2**	**Subsurface**	**Totals**		**0.42**	**0.02**	**0.01**	**0.46**	
13	**2**	**Subsurface**	**Percent**		**93%**	**5%**	**2%**		
13	3	Subsurface	Iron	2.63E+04	0.11			0.11	34.4%
13	3	Subsurface	Manganese	1.09E+03	0.14		0.01	0.14	43.5%
13	3	Subsurface	Molybdenum	2.18E+01	0.01			0.01	4.0%
13	3	Subsurface	Vanadium	9.88E+01	0.06		0.00	0.06	18.0%
13	**3**	**Subsurface**	**Totals**		**0.33**		**0.01**	**0.32**	
13	**3**	**Subsurface**	**Percent**		**98%**		**2%**		
13	4	Subsurface	Iron	2.75E+04	0.12			0.12	38.3%
13	4	Subsurface	Manganese	1.00E+03	0.13		0.01	0.13	42.6%
13	4	Subsurface	Vanadium	9.81E+01	0.06		0.00	0.06	19.1%
13	**4**	**Subsurface**	**Totals**		**0.31**		**0.01**	**0.31**	
13	**4**	**Subsurface**	**Percent**		**98%**		**2%**		
13	5	Subsurface	Aluminum	9.74E+03	0.03		0.00	0.03	7.6%
13	5	Subsurface	Chromium	9.37E+01	0.00			0.00	0.0%
13	5	Subsurface	Iron	2.42E+04	0.11			0.11	26.6%
13	5	Subsurface	Manganese	9.08E+02	0.12		0.00	0.12	30.4%
13	5	Subsurface	Uranium	7.38E+01	0.07		0.00	0.08	19.1%
13	5	Subsurface	Vanadium	1.06E+02	0.06		0.00	0.06	16.2%
13	**5**	**Subsurface**	**Totals**		**0.39**		**0.01**	**0.40**	
13	**5**	**Subsurface**	**Percent**		**98%**		**2%**		
13	6	Subsurface	Cadmium	4.68E+00	0.01	0.00	0.00	0.02	4.8%
13	6	Subsurface	Iron	3.09E+04	0.13			0.13	34.6%
13	6	Subsurface	Manganese	9.46E+02	0.12		0.01	0.12	32.2%
13	6	Subsurface	Uranium	3.67E+01	0.04		0.00	0.04	9.7%
13	6	Subsurface	Vanadium	1.20E+02	0.07		0.00	0.07	18.7%
13	**6**	**Subsurface**	**Totals**		**0.38**	**0.00**	**0.01**	**0.38**	
13	**6**	**Subsurface**	**Percent**		**97%**	**1%**	**2%**		
13	7	Subsurface	Iron	2.78E+04	0.12			0.12	50.0%
13	7	Subsurface	Silver	7.79E+01	0.05			0.05	19.6%
13	7	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	30.4%
13	**7**	**Subsurface**	**Totals**		**0.24**		**0.00**	**0.24**	
13	**7**	**Subsurface**	**Percent**		**100%**		**0%**		
13	8	Subsurface	Iron	2.41E+04	0.10			0.10	33.4%
13	8	Subsurface	Manganese	1.12E+03	0.14		0.01	0.15	47.3%
13	8	Subsurface	Vanadium	9.97E+01	0.06		0.00	0.06	19.3%
13	**8**	**Subsurface**	**Totals**		**0.31**		**0.01**	**0.31**	
13	**8**	**Subsurface**	**Percent**		**98%**		**2%**		
13	9	Subsurface	Arsenic	1.25E+01	0.13	0.03	0.00	0.15	68.5%
13	9	Subsurface	Vanadium	1.17E+02	0.07		0.00	0.07	31.5%
13	**9**	**Subsurface**	**Totals**		**0.20**	**0.03**	**0.00**	**0.22**	
13	**9**	**Subsurface**	**Percent**		**88%**	**12%**	**0%**		
13	10	Subsurface	Iron	3.80E+04	0.17			0.17	24.1%
13	10	Subsurface	Manganese	3.09E+03	0.39		0.02	0.41	59.6%
13	10	Subsurface	Silver	5.40E+01	0.03			0.03	4.8%
13	10	Subsurface	Vanadium	1.30E+02	0.08		0.00	0.08	11.5%
13	**10**	**Subsurface**	**Totals**		**0.67**		**0.02**	**0.69**	
13	**10**	**Subsurface**	**Percent**		**97%**		**3%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	11	Subsurface	Manganese	7.58E+02	0.10		0.00	0.10	43.3%
13	11	Subsurface	Silver	1.03E+02	0.06			0.06	27.0%
13	11	Subsurface	Vanadium	1.14E+02	0.07		0.00	0.07	29.7%
13	**11**	**Subsurface**	**Totals**		**0.23**		**0.00**	**0.23**	
13	**11**	**Subsurface**	**Percent**		**98%**		**2%**		
13	12	Subsurface	Iron	2.30E+04	0.10			0.10	22.7%
13	12	Subsurface	Manganese	1.35E+03	0.17		0.01	0.18	40.7%
13	12	Subsurface	Silver	1.49E+02	0.09			0.09	20.6%
13	12	Subsurface	Vanadium	1.16E+02	0.07		0.00	0.07	16.0%
13	**12**	**Subsurface**	**Totals**		**0.43**		**0.01**	**0.44**	
13	**12**	**Subsurface**	**Percent**		**98%**		**2%**		
13	13	Subsurface	Iron	2.89E+04	0.13			0.13	34.6%
13	13	Subsurface	Manganese	1.13E+03	0.14		0.01	0.15	41.0%
13	13	Subsurface	Molybdenum	2.72E+01	0.02			0.02	4.6%
13	13	Subsurface	Vanadium	1.19E+02	0.07		0.00	0.07	19.8%
13	**13**	**Subsurface**	**Totals**		**0.36**		**0.01**	**0.37**	
13	**13**	**Subsurface**	**Percent**		**98%**		**2%**		
13	14	Subsurface	Manganese	5.56E+02	0.07		0.00	0.07	49.7%
13	14	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	50.3%
13	**14**	**Subsurface**	**Totals**		**0.14**		**0.00**	**0.14**	
13	**14**	**Subsurface**	**Percent**		**98%**		**2%**		
15	1	Subsurface	Antimony	1.08E+02	0.82			0.82	15.3%
15	1	Subsurface	Arsenic	1.32E+01	0.13	0.03	0.00	0.16	3.0%
15	1	Subsurface	Cadmium	2.72E+01	0.08	0.02	0.00	0.11	2.0%
15	1	Subsurface	Chromium	8.29E+01	0.00			0.00	0.0%
15	1	Subsurface	Iron	2.97E+04	0.13			0.13	2.4%
15	1	Subsurface	Manganese	6.01E+02	0.08		0.00	0.08	1.5%
15	1	Subsurface	Nickel	1.39E+02	0.02		0.00	0.02	0.4%
15	1	Subsurface	Thallium	1.31E+01	3.98			3.98	73.9%
15	1	Subsurface	Uranium	3.23E+01	0.03		0.00	0.03	0.6%
15	1	Subsurface	Vanadium	8.40E+01	0.05		0.00	0.05	0.9%
15	**1**	**Subsurface**	**Totals**		**5.33**	**0.05**	**0.01**	**5.38**	
15	**1**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
15	2	Subsurface	Aluminum	1.68E+04	0.05		0.00	0.05	2.7%
15	2	Subsurface	Antimony	1.08E+02	0.82			0.82	42.4%
15	2	Subsurface	Arsenic	1.63E+01	0.16	0.04	0.00	0.20	10.4%
15	2	Subsurface	Cadmium	1.51E+01	0.05	0.01	0.00	0.06	3.1%
15	2	Subsurface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Subsurface	Iron	3.89E+04	0.17			0.17	8.7%
15	2	Subsurface	Manganese	1.37E+03	0.17		0.01	0.18	9.4%
15	2	Subsurface	Mercury	9.33E+00	0.09			0.09	4.9%
15	2	Subsurface	Nickel	3.75E+02	0.06		0.00	0.06	3.0%
15	2	Subsurface	Thallium	3.50E-01	0.11			0.11	5.5%
15	2	Subsurface	Uranium	1.32E+02	0.13		0.00	0.13	7.0%
15	2	Subsurface	Vanadium	9.38E+01	0.06		0.00	0.06	2.9%
15	**2**	**Subsurface**	**Totals**		**1.87**	**0.05**	**0.01**	**1.93**	
15	**2**	**Subsurface**	**Percent**		**97%**	**3%**	**1%**		
15	3	Subsurface	Antimony	1.15E+02	0.87			0.87	11.0%
15	3	Subsurface	Arsenic	3.65E+01	0.37	0.08	0.00	0.45	5.7%
15	3	Subsurface	Cadmium	1.89E+01	0.06	0.02	0.00	0.07	0.9%
15	3	Subsurface	Chromium	8.13E+01	0.00			0.00	0.0%
15	3	Subsurface	Cobalt	2.37E+01	0.24		0.00	0.24	3.0%
15	3	Subsurface	Copper	1.60E+03	0.12			0.12	1.5%
15	3	Subsurface	Iron	9.52E+04	0.41			0.41	5.2%
15	3	Subsurface	Manganese	1.62E+03	0.20		0.01	0.21	2.7%
15	3	Subsurface	Mercury	2.08E+01	0.21			0.21	2.6%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	3	Subsurface	Nickel	8.38E+02	0.13		0.00	0.13	1.6%
15	3	Subsurface	Thallium	1.64E+01	4.98			4.98	62.4%
15	3	Subsurface	Uranium	2.16E+02	0.22		0.00	0.22	2.8%
15	3	Subsurface	Vanadium	7.72E+01	0.05		0.00	0.05	0.6%
15	**3**	**Subsurface**	**Totals**		**7.87**	**0.10**	**0.02**	**7.96**	
15	**3**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
15	4	Subsurface	Antimony	9.30E+01	0.71			0.71	8.0%
15	4	Subsurface	Arsenic	3.37E+01	0.34	0.07	0.00	0.42	4.7%
15	4	Subsurface	Cadmium	1.34E+01	0.04	0.01	0.00	0.05	0.6%
15	4	Subsurface	Chromium	8.55E+01	0.00			0.00	0.0%
15	4	Subsurface	Copper	6.00E+02	0.05			0.05	0.5%
15	4	Subsurface	Iron	6.97E+04	0.30			0.30	3.4%
15	4	Subsurface	Manganese	1.29E+03	0.16		0.01	0.17	1.9%
15	4	Subsurface	Mercury	5.08E+01	0.51			0.51	5.8%
15	4	Subsurface	Nickel	1.24E+03	0.19		0.00	0.19	2.2%
15	4	Subsurface	Thallium	2.06E+01	6.28			6.28	70.9%
15	4	Subsurface	Uranium	1.29E+02	0.13		0.00	0.13	1.5%
15	4	Subsurface	Vanadium	7.58E+01	0.05		0.00	0.05	0.5%
15	**4**	**Subsurface**	**Totals**		**8.76**	**0.09**	**0.01**	**8.86**	
15	**4**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
15	5	Subsurface	Aluminum	9.61E+03	0.03		0.00	0.03	1.3%
15	5	Subsurface	Antimony	1.22E+02	0.93			0.93	41.0%
15	5	Subsurface	Arsenic	1.33E+01	0.13	0.03	0.00	0.16	7.3%
15	5	Subsurface	Cadmium	1.80E+01	0.05	0.02	0.00	0.07	3.1%
15	5	Subsurface	Chromium	6.58E+01	0.00			0.00	0.0%
15	5	Subsurface	Copper	5.63E+03	0.43			0.43	18.9%
15	5	Subsurface	Iron	2.31E+04	0.10			0.10	4.4%
15	5	Subsurface	Manganese	7.28E+02	0.09		0.00	0.10	4.3%
15	5	Subsurface	Mercury	1.96E+01	0.20			0.20	8.8%
15	5	Subsurface	Nickel	3.48E+02	0.05		0.00	0.05	2.4%
15	5	Subsurface	Uranium	1.74E+02	0.18		0.00	0.18	7.8%
15	5	Subsurface	Zinc	1.53E+03	0.02			0.02	0.7%
15	**5**	**Subsurface**	**Totals**		**2.21**	**0.05**	**0.01**	**2.27**	
15	**5**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		
15	6	Subsurface	Antimony	9.94E+01	0.76			0.76	44.8%
15	6	Subsurface	Arsenic	1.20E+01	0.12	0.03	0.00	0.15	8.8%
15	6	Subsurface	Cadmium	2.50E+01	0.08	0.02	0.00	0.10	5.9%
15	6	Subsurface	Chromium	7.97E+01	0.00			0.00	0.0%
15	6	Subsurface	Cobalt	1.13E+01	0.11		0.00	0.11	6.8%
15	6	Subsurface	Copper	4.28E+02	0.03			0.03	1.9%
15	6	Subsurface	Iron	3.29E+04	0.14			0.14	8.5%
15	6	Subsurface	Manganese	6.96E+02	0.09		0.00	0.09	5.5%
15	6	Subsurface	Mercury	1.87E+01	0.19			0.19	11.2%
15	6	Subsurface	Nickel	3.00E+02	0.05		0.00	0.05	2.8%
15	6	Subsurface	Uranium	6.26E+01	0.06		0.00	0.06	3.8%
15	**6**	**Subsurface**	**Totals**		**1.63**	**0.05**	**0.01**	**1.68**	
15	**6**	**Subsurface**	**Percent**		**97%**	**3%**	**0%**		
15	7	Subsurface	Aluminum	1.13E+04	0.03		0.00	0.03	1.8%
15	7	Subsurface	Antimony	1.41E+02	1.08			1.08	56.3%
15	7	Subsurface	Arsenic	1.61E+01	0.16	0.04	0.00	0.20	10.4%
15	7	Subsurface	Cadmium	2.78E+01	0.08	0.02	0.00	0.11	5.7%
15	7	Subsurface	Chromium	6.54E+01	0.00			0.00	0.0%
15	7	Subsurface	Copper	6.02E+02	0.05			0.05	2.4%
15	7	Subsurface	Iron	3.45E+04	0.15			0.15	7.8%
15	7	Subsurface	Manganese	1.17E+03	0.15		0.01	0.15	8.1%
15	7	Subsurface	Nickel	5.59E+02	0.08		0.00	0.09	4.5%

SWMU = solid waste management unit
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HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	7	Subsurface	Uranium	5.34E+01	0.05		0.00	0.05	2.9%
15	**7**	**Subsurface**	**Totals**		**1.84**	**0.06**	**0.01**	**1.91**	
15	**7**	**Subsurface**	**Percent**		**96%**	**3%**	**1%**		
15	8	Subsurface	Antimony	9.93E+01	0.76			0.76	53.4%
15	8	Subsurface	Arsenic	1.14E+01	0.12	0.03	0.00	0.14	10.0%
15	8	Subsurface	Cadmium	1.68E+01	0.05	0.01	0.00	0.07	4.7%
15	8	Subsurface	Chromium	7.53E+01	0.00			0.00	0.0%
15	8	Subsurface	Iron	2.83E+04	0.12			0.12	8.7%
15	8	Subsurface	Manganese	6.03E+02	0.08		0.00	0.08	5.6%
15	8	Subsurface	Mercury	1.73E+01	0.18			0.18	12.4%
15	8	Subsurface	Nickel	1.82E+02	0.03		0.00	0.03	2.0%
15	8	Subsurface	Uranium	4.46E+01	0.05		0.00	0.05	3.2%
15	**8**	**Subsurface**	**Totals**		**1.37**	**0.04**	**0.00**	**1.43**	
15	**8**	**Subsurface**	**Percent**		**97%**	**3%**	**0%**		
15	9	Subsurface	Antimony	1.22E+02	0.93			0.93	51.2%
15	9	Subsurface	Arsenic	1.31E+01	0.13	0.03	0.00	0.16	8.9%
15	9	Subsurface	Cadmium	2.81E+01	0.09	0.02	0.00	0.11	6.1%
15	9	Subsurface	Chromium	8.92E+01	0.00			0.00	0.0%
15	9	Subsurface	Iron	3.02E+04	0.13			0.13	7.2%
15	9	Subsurface	Manganese	1.57E+03	0.20		0.01	0.21	11.4%
15	9	Subsurface	Mercury	1.74E+01	0.18			0.18	9.7%
15	9	Subsurface	Nickel	1.49E+02	0.02		0.00	0.02	1.3%
15	9	Subsurface	Uranium	3.07E+01	0.03		0.00	0.03	1.7%
15	9	Subsurface	Vanadium	7.33E+01	0.04		0.00	0.04	2.4%
15	**9**	**Subsurface**	**Totals**		**1.75**	**0.05**	**0.01**	**1.81**	
15	**9**	**Subsurface**	**Percent**		**96%**	**3%**	**1%**		
15	10	Subsurface	Antimony	1.26E+02	0.96			0.96	70.9%
15	10	Subsurface	Arsenic	9.75E+00	0.10	0.02	0.00	0.12	8.9%
15	10	Subsurface	Cadmium	1.67E+01	0.05	0.01	0.00	0.07	4.9%
15	10	Subsurface	Chromium	6.29E+01	0.00			0.00	0.0%
15	10	Subsurface	Mercury	7.84E+00	0.08			0.08	5.9%
15	10	Subsurface	Nickel	2.26E+02	0.03		0.00	0.04	2.6%
15	10	Subsurface	Uranium	9.02E+01	0.09		0.00	0.09	6.8%
15	**10**	**Subsurface**	**Totals**		**1.31**	**0.04**	**0.00**	**1.36**	
15	**10**	**Subsurface**	**Percent**		**97%**	**3%**	**0%**		
26	1	Subsurface	Aluminum	1.25E+04	0.04		0.00	0.04	1.5%
26	1	Subsurface	Antimony	7.32E+01	0.56			0.56	21.4%
26	1	Subsurface	Arsenic	1.01E+01	0.10	0.02	0.00	0.13	4.8%
26	1	Subsurface	Beryllium	1.57E+01	0.02		0.00	0.02	0.9%
26	1	Subsurface	Cadmium	1.03E+01	0.03	0.01	0.00	0.04	1.6%
26	1	Subsurface	Cobalt	1.17E+01	0.12		0.00	0.12	4.6%
26	1	Subsurface	Iron	2.93E+04	0.13			0.13	4.9%
26	1	Subsurface	Manganese	8.52E+02	0.11		0.00	0.11	4.3%
26	1	Subsurface	Mercury	5.65E+01	0.57			0.57	22.1%
26	1	Subsurface	Nickel	1.21E+02	0.02		0.00	0.02	0.7%
26	1	Subsurface	Thallium	2.59E-01	0.08			0.08	3.0%
26	1	Subsurface	Uranium	6.70E+02	0.68		0.00	0.68	26.4%
26	1	Subsurface	Vanadium	1.61E+02	0.10		0.00	0.10	3.8%
26	**1**	**Subsurface**	**Totals**		**2.55**	**0.03**	**0.01**	**2.60**	
26	**1**	**Subsurface**	**Percent**		**98%**	**1%**	**0%**		
26	2	Subsurface	Aluminum	2.50E+04	0.08		0.00	0.08	0.8%
26	2	Subsurface	Antimony	2.73E+02	2.08			2.08	20.3%
26	2	Subsurface	Arsenic	4.78E+01	0.48	0.11	0.00	0.59	5.8%
26	2	Subsurface	Beryllium	1.54E+01	0.02		0.00	0.02	0.2%
26	2	Subsurface	Cadmium	1.60E+01	0.05	0.01	0.00	0.06	0.6%
26	2	Subsurface	Chromium	7.26E+01	0.00			0.00	0.0%

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HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	2	Subsurface	Cobalt	4.72E+01	0.48		0.00	0.48	4.7%
26	2	Subsurface	Iron	4.46E+04	0.19			0.19	1.9%
26	2	Subsurface	Manganese	9.14E+02	0.12		0.00	0.12	1.2%
26	2	Subsurface	Mercury	2.36E+01	0.24			0.24	2.3%
26	2	Subsurface	Nickel	1.08E+02	0.02		0.00	0.02	0.2%
26	2	Subsurface	Thallium	1.68E+01	5.12			5.12	50.0%
26	2	Subsurface	Uranium	1.15E+03	1.16		0.01	1.17	11.5%
26	2	Subsurface	Vanadium	1.03E+02	0.06		0.00	0.06	0.6%
26	**2**	**Subsurface**	**Totals**		**10.10**	**0.12**	**0.02**	**10.23**	
26	**2**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
26	3	Subsurface	Aluminum	9.30E+03	0.03		0.00	0.03	0.9%
26	3	Subsurface	Antimony	6.79E+01	0.52			0.52	16.9%
26	3	Subsurface	Arsenic	7.52E+01	0.76	0.17	0.00	0.93	30.3%
26	3	Subsurface	Chromium	6.47E+01	0.00			0.00	0.0%
26	3	Subsurface	Cobalt	9.23E+00	0.09		0.00	0.09	3.1%
26	3	Subsurface	Iron	3.45E+04	0.15			0.15	4.9%
26	3	Subsurface	Manganese	5.74E+02	0.07		0.00	0.08	2.5%
26	3	Subsurface	Mercury	1.79E+01	0.18			0.18	5.9%
26	3	Subsurface	Molybdenum	4.40E+01	0.03			0.03	0.9%
26	3	Subsurface	Pentachlorophenol	1.61E+00	0.00	0.00		0.00	0.1%
26	3	Subsurface	Thallium	2.51E+00	0.76			0.76	24.9%
26	3	Subsurface	Uranium	2.05E+02	0.21		0.00	0.21	6.8%
26	3	Subsurface	Vanadium	1.43E+02	0.09		0.00	0.09	2.8%
26	**3**	**Subsurface**	**Totals**		**2.89**	**0.17**	**0.01**	**3.07**	
26	**3**	**Subsurface**	**Percent**		**94%**	**5%**	**0%**		
26	4	Subsurface	Aluminum	1.20E+04	0.04		0.00	0.04	0.6%
26	4	Subsurface	Antimony	7.32E+01	0.56			0.56	9.2%
26	4	Subsurface	Arsenic	6.05E+01	0.61	0.13	0.00	0.75	12.4%
26	4	Subsurface	Cadmium	9.00E+00	0.03	0.01	0.00	0.04	0.6%
26	4	Subsurface	Chromium	1.02E+02	0.00			0.00	0.0%
26	4	Subsurface	Cobalt	1.47E+01	0.15		0.00	0.15	2.5%
26	4	Subsurface	Copper	3.24E+03	0.25			0.25	4.1%
26	4	Subsurface	Iron	3.21E+04	0.14			0.14	2.3%
26	4	Subsurface	Manganese	7.87E+02	0.10		0.00	0.10	1.7%
26	4	Subsurface	Mercury	1.90E+01	0.19			0.19	3.2%
26	4	Subsurface	Molybdenum	4.08E+01	0.02			0.02	0.4%
26	4	Subsurface	Nickel	1.21E+04	1.83		0.04	1.87	31.1%
26	4	Subsurface	Thallium	1.53E+00	0.46			0.46	7.7%
26	4	Subsurface	Uranium	1.34E+03	1.36		0.01	1.37	22.7%
26	4	Subsurface	Vanadium	1.42E+02	0.09		0.00	0.09	1.4%
26	**4**	**Subsurface**	**Totals**		**5.83**	**0.14**	**0.05**	**6.03**	
26	**4**	**Subsurface**	**Percent**		**97%**	**2%**	**1%**		
77	1	Subsurface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Subsurface	Iron	5.03E+04	0.22			0.22	21.9%
77	1	Subsurface	Uranium	6.66E+02	0.68		0.00	0.68	67.9%
77	1	Subsurface	Vanadium	1.68E+02	0.10		0.00	0.10	10.2%
77	**1**	**Subsurface**	**Totals**		**1.00**		**0.00**	**1.00**	
77	**1**	**Subsurface**	**Percent**		**100%**		**0%**		
80	1	Subsurface	Dioxins/Furans, Total	8.82E-05	0.38		0.00	0.38	79.3%
80	1	Subsurface	Uranium	9.80E+01	0.10		0.00	0.10	20.7%
80	**1**	**Subsurface**	**Totals**		**0.48**		**0.00**	**0.48**	
80	**1**	**Subsurface**	**Percent**		**100%**		**0%**		
80	2	Subsurface	Antimony	7.57E+01	0.58			0.58	8.1%
80	2	Subsurface	Arsenic	1.01E+01	0.10	0.02	0.00	0.12	1.7%
80	2	Subsurface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Subsurface	Cobalt	1.90E+01	0.19		0.00	0.19	2.7%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	2	Subsurface	Iron	3.52E+04	0.15			0.15	2.1%
80	2	Subsurface	Manganese	1.20E+03	0.15		0.01	0.16	2.2%
80	2	Subsurface	Uranium	5.72E+03	5.80		0.04	5.84	82.0%
80	2	Subsurface	Vanadium	1.29E+02	0.08		0.00	0.08	1.1%
80	**2**	**Subsurface**	**Totals**		**7.06**	**0.02**	**0.05**	**7.12**	
80	**2**	**Subsurface**	**Percent**		**99%**	**0%**	**1%**		
80	3	Subsurface	Antimony	9.99E+01	0.76			0.76	34.2%
80	3	Subsurface	Arsenic	1.04E+01	0.11	0.02	0.00	0.13	5.8%
80	3	Subsurface	Cadmium	1.84E+01	0.06	0.02	0.00	0.07	3.3%
80	3	Subsurface	Iron	3.41E+04	0.15			0.15	6.7%
80	3	Subsurface	Manganese	1.00E+03	0.13		0.01	0.13	6.0%
80	3	Subsurface	Mercury	7.98E+01	0.81			0.81	36.4%
80	3	Subsurface	Molybdenum	3.56E+01	0.02			0.02	1.0%
80	3	Subsurface	Uranium	7.32E+01	0.07		0.00	0.07	3.4%
80	3	Subsurface	Vanadium	1.27E+02	0.08		0.00	0.08	3.5%
80	**3**	**Subsurface**	**Totals**		**2.18**	**0.04**	**0.01**	**2.22**	
80	**3**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		
204	1	Subsurface	Aluminum	1.18E+04	0.04		0.00	0.04	18.3%
204	1	Subsurface	Manganese	6.80E+02	0.09		0.00	0.09	45.0%
204	1	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	36.7%
204	**1**	**Subsurface**	**Totals**		**0.19**		**0.00**	**0.20**	
204	**1**	**Subsurface**	**Percent**		**98%**		**2%**		
204	2	Subsurface	Arsenic	4.59E+01	0.47	0.10	0.00	0.57	65.4%
204	2	Subsurface	Iron	2.69E+04	0.12			0.12	13.5%
204	2	Subsurface	Manganese	8.34E+02	0.11		0.00	0.11	12.7%
204	2	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	8.5%
204	**2**	**Subsurface**	**Totals**		**0.76**	**0.10**	**0.01**	**0.87**	
204	**2**	**Subsurface**	**Percent**		**88%**	**12%**	**1%**		
204	3	Subsurface	Arsenic	1.10E+01	0.11	0.02	0.00	0.14	35.6%
204	3	Subsurface	Manganese	1.05E+03	0.13		0.01	0.14	36.5%
204	3	Subsurface	Silver	5.40E+01	0.03			0.03	8.6%
204	3	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	19.4%
204	**3**	**Subsurface**	**Totals**		**0.35**	**0.02**	**0.01**	**0.38**	
204	**3**	**Subsurface**	**Percent**		**92%**	**6%**	**2%**		
204	4	Subsurface	Arsenic	1.10E+01	0.11	0.02	0.00	0.14	25.8%
204	4	Subsurface	Iron	2.92E+04	0.13			0.13	24.1%
204	4	Subsurface	Manganese	8.97E+02	0.11		0.00	0.12	22.5%
204	4	Subsurface	Molybdenum	4.10E+01	0.02			0.02	4.7%
204	4	Subsurface	Silver	5.90E+01	0.04			0.04	6.8%
204	4	Subsurface	Vanadium	1.39E+02	0.08		0.00	0.08	16.0%
204	**4**	**Subsurface**	**Totals**		**0.50**	**0.02**	**0.01**	**0.53**	
204	**4**	**Subsurface**	**Percent**		**94%**	**5%**	**1%**		
204	5	Subsurface	Arsenic	5.67E+01	0.57	0.12	0.00	0.70	69.4%
204	5	Subsurface	Cobalt	1.04E+01	0.11		0.00	0.11	10.5%
204	5	Subsurface	Manganese	9.75E+02	0.12		0.01	0.13	12.8%
204	5	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	7.3%
204	**5**	**Subsurface**	**Totals**		**0.88**	**0.12**	**0.01**	**1.01**	
204	**5**	**Subsurface**	**Percent**		**87%**	**12%**	**1%**		
204	6	Subsurface	Arsenic	1.00E+01	0.10	0.02	0.00	0.12	18.0%
204	6	Subsurface	Iron	3.17E+04	0.14			0.14	20.0%
204	6	Subsurface	Manganese	2.65E+03	0.34		0.01	0.35	50.9%
204	6	Subsurface	Vanadium	1.25E+02	0.08		0.00	0.08	11.0%
204	**6**	**Subsurface**	**Totals**		**0.65**	**0.02**	**0.01**	**0.69**	
204	**6**	**Subsurface**	**Percent**		**95%**	**3%**	**2%**		
204	7	Subsurface	Arsenic	1.70E+01	0.17	0.04	0.00	0.21	22.4%
204	7	Subsurface	Cobalt	1.50E+01	0.15		0.00	0.15	16.3%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	7	Subsurface	Iron	2.95E+04	0.13			0.13	13.7%
204	7	Subsurface	Manganese	2.80E+03	0.35		0.02	0.37	39.5%
204	7	Subsurface	Vanadium	1.27E+02	0.08		0.00	0.08	8.2%
204	**7**	**Subsurface**	**Totals**		**0.88**	**0.04**	**0.02**	**0.94**	
204	**7**	**Subsurface**	**Percent**		**94%**	**4%**	**2%**		
204	8	Subsurface	Arsenic	8.40E+00	0.09	0.02	0.00	0.10	16.1%
204	8	Subsurface	Cobalt	1.40E+01	0.14		0.00	0.14	22.1%
204	8	Subsurface	Iron	3.09E+04	0.13			0.13	20.9%
204	8	Subsurface	Manganese	1.39E+03	0.18		0.01	0.18	28.4%
204	8	Subsurface	Vanadium	1.32E+02	0.08		0.00	0.08	12.4%
204	**8**	**Subsurface**	**Totals**		**0.62**	**0.02**	**0.01**	**0.63**	
204	**8**	**Subsurface**	**Percent**		**96%**	**3%**	**1%**		
204	9	Subsurface	Arsenic	8.40E+00	0.09	0.02	0.00	0.10	23.6%
204	9	Subsurface	Iron	3.06E+04	0.13			0.13	30.2%
204	9	Subsurface	Manganese	9.10E+02	0.12		0.00	0.12	27.3%
204	9	Subsurface	Vanadium	1.37E+02	0.08		0.00	0.08	18.9%
204	**9**	**Subsurface**	**Totals**		**0.42**	**0.02**	**0.01**	**0.43**	
204	**9**	**Subsurface**	**Percent**		**95%**	**4%**	**1%**		
204	10	Subsurface	Antimony	1.20E+01	0.09			0.09	26.1%
204	10	Subsurface	Iron	4.10E+04	0.18			0.18	50.9%
204	10	Subsurface	Vanadium	1.33E+02	0.08		0.00	0.08	23.0%
204	**10**	**Subsurface**	**Totals**		**0.35**		**0.00**	**0.35**	
204	**10**	**Subsurface**	**Percent**		**100%**		**0%**		
204	11	Subsurface	Arsenic	8.80E+00	0.09	0.02	0.00	0.11	23.4%
204	11	Subsurface	Iron	3.14E+04	0.14			0.14	29.4%
204	11	Subsurface	Manganese	9.85E+02	0.12		0.01	0.13	28.1%
204	11	Subsurface	Vanadium	1.46E+02	0.09		0.00	0.09	19.1%
204	**11**	**Subsurface**	**Totals**		**0.44**	**0.02**	**0.01**	**0.47**	
204	**11**	**Subsurface**	**Percent**		**95%**	**4%**	**1%**		
204	12	Subsurface	Arsenic	9.80E+00	0.10	0.02	0.00	0.12	19.8%
204	12	Subsurface	Iron	2.86E+04	0.12			0.12	20.3%
204	12	Subsurface	Manganese	2.12E+03	0.27		0.01	0.28	45.7%
204	12	Subsurface	Vanadium	1.44E+02	0.09		0.00	0.09	14.3%
204	**12**	**Subsurface**	**Totals**		**0.58**	**0.02**	**0.01**	**0.61**	
204	**12**	**Subsurface**	**Percent**		**95%**	**4%**	**2%**		
204	13	Subsurface	Arsenic	8.60E+00	0.09	0.02	0.00	0.11	32.0%
204	13	Subsurface	Manganese	1.04E+03	0.13		0.01	0.14	41.5%
204	13	Subsurface	Vanadium	1.45E+02	0.09		0.00	0.09	26.5%
204	**13**	**Subsurface**	**Totals**		**0.31**	**0.02**	**0.01**	**0.34**	
204	**13**	**Subsurface**	**Percent**		**92%**	**6%**	**2%**		
204	14	Subsurface	Arsenic	1.36E+02	1.38	0.30	0.00	1.68	77.6%
204	14	Subsurface	Iron	3.52E+04	0.15			0.15	7.1%
204	14	Subsurface	Manganese	8.21E+02	0.10		0.00	0.11	5.0%
204	14	Subsurface	Uranium	1.34E+02	0.14		0.00	0.14	6.3%
204	14	Subsurface	Vanadium	1.43E+02	0.09		0.00	0.09	4.0%
204	**14**	**Subsurface**	**Totals**		**1.86**	**0.30**	**0.01**	**2.17**	
204	**14**	**Subsurface**	**Percent**		**86%**	**14%**	**0%**		
204	15	Subsurface	Iron	4.59E+04	0.20			0.20	50.1%
204	15	Subsurface	Manganese	8.78E+02	0.11		0.00	0.12	29.2%
204	15	Subsurface	Vanadium	1.36E+02	0.08		0.00	0.08	20.7%
204	**15**	**Subsurface**	**Totals**		**0.39**		**0.01**	**0.40**	
204	**15**	**Subsurface**	**Percent**		**99%**		**1%**		
204	16	Subsurface	Arsenic	8.20E+00	0.08	0.02	0.00	0.10	17.8%
204	16	Subsurface	Iron	2.89E+04	0.13			0.13	22.1%
204	16	Subsurface	Manganese	1.80E+03	0.23		0.01	0.24	41.7%
204	16	Subsurface	Silver	5.10E+01	0.03			0.03	5.4%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	16	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	13.0%
204	**16**	**Subsurface**	**Totals**		**0.54**	**0.02**	**0.01**	**0.57**	
204	**16**	**Subsurface**	**Percent**		**95%**	**3%**	**2%**		
204	17	Subsurface	Arsenic	9.60E+00	0.10	0.02	0.00	0.12	27.4%
204	17	Subsurface	Iron	2.98E+04	0.13			0.13	30.0%
204	17	Subsurface	Manganese	8.33E+02	0.11		0.00	0.11	25.5%
204	17	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	17.1%
204	**17**	**Subsurface**	**Totals**		**0.41**	**0.02**	**0.01**	**0.43**	
204	**17**	**Subsurface**	**Percent**		**94%**	**5%**	**1%**		
204	18	Subsurface	Iron	3.35E+04	0.15			0.15	26.8%
204	18	Subsurface	Manganese	1.07E+03	0.14		0.01	0.14	26.0%
204	18	Subsurface	Silver	8.90E+01	0.05			0.05	10.0%
204	18	Subsurface	Uranium	1.09E+02	0.11		0.00	0.11	20.5%
204	18	Subsurface	Vanadium	1.51E+02	0.09		0.00	0.09	16.8%
204	**18**	**Subsurface**	**Totals**		**0.54**		**0.01**	**0.54**	
204	**18**	**Subsurface**	**Percent**		**99%**		**1%**		
204	19	Subsurface	Arsenic	1.20E+01	0.12	0.03	0.00	0.15	28.9%
204	19	Subsurface	Manganese	1.30E+03	0.16		0.01	0.17	33.5%
204	19	Subsurface	Silver	5.50E+01	0.03			0.03	6.5%
204	19	Subsurface	Uranium	8.50E+01	0.09		0.00	0.09	16.9%
204	19	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	14.3%
204	**19**	**Subsurface**	**Totals**		**0.48**	**0.03**	**0.01**	**0.51**	
204	**19**	**Subsurface**	**Percent**		**93%**	**5%**	**2%**		
204	20	Subsurface	Arsenic	1.40E+01	0.14	0.03	0.00	0.17	1.2%
204	20	Subsurface	Chromium	1.75E+02	0.00			0.00	0.0%
204	20	Subsurface	Cobalt	1.30E+01	0.13		0.00	0.13	0.9%
204	20	Subsurface	Iron	4.60E+04	0.20			0.20	1.4%
204	20	Subsurface	Manganese	8.39E+02	0.11		0.00	0.11	0.8%
204	20	Subsurface	Silver	4.70E+01	0.03			0.03	0.2%
204	20	Subsurface	Uranium	1.31E+04	13.25		0.09	13.34	94.9%
204	20	Subsurface	Vanadium	1.14E+02	0.07		0.00	0.07	0.5%
204	**20**	**Subsurface**	**Totals**		**13.93**	**0.03**	**0.09**	**14.05**	
204	**20**	**Subsurface**	**Percent**		**99%**	**0%**	**1%**		
204	21	Subsurface	Arsenic	8.60E+00	0.09	0.02	0.00	0.11	20.8%
204	21	Subsurface	Cobalt	1.80E+01	0.18		0.00	0.18	35.8%
204	21	Subsurface	Manganese	1.13E+03	0.14		0.01	0.15	29.2%
204	21	Subsurface	Vanadium	1.20E+02	0.07		0.00	0.07	14.2%
204	**21**	**Subsurface**	**Totals**		**0.49**	**0.02**	**0.01**	**0.51**	
204	**21**	**Subsurface**	**Percent**		**95%**	**4%**	**1%**		
211	1	Subsurface	Antimony	9.74E+01	0.74			0.74	38.5%
211	1	Subsurface	Arsenic	1.00E+01	0.10	0.02	0.00	0.12	6.4%
211	1	Subsurface	Cadmium	1.42E+01	0.04	0.01	0.00	0.06	2.9%
211	1	Subsurface	Chromium	4.84E+01	0.00			0.00	0.0%
211	1	Subsurface	Cobalt	4.95E+01	0.50		0.00	0.50	26.2%
211	1	Subsurface	Iron	4.71E+04	0.20			0.20	10.6%
211	1	Subsurface	Thallium	6.02E-01	0.18			0.18	9.5%
211	1	Subsurface	Uranium	4.85E+01	0.05		0.00	0.05	2.6%
211	1	Subsurface	Vanadium	1.03E+02	0.06		0.00	0.06	3.2%
211	**1**	**Subsurface**	**Totals**		**1.89**	**0.03**	**0.00**	**1.91**	
211	**1**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		
224	1	Subsurface	Antimony	1.08E+02	0.82			0.82	83.2%
224	1	Subsurface	Arsenic	1.00E+01	0.10	0.02	0.00	0.12	12.5%
224	1	Subsurface	Chromium	6.50E+01	0.00			0.00	0.0%
224	1	Subsurface	Uranium	4.15E+01	0.04		0.00	0.04	4.3%
224	**1**	**Subsurface**	**Totals**		**0.97**	**0.02**	**0.00**	**0.98**	
224	**1**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.29. HIs for the Outdoor Worker Exposed to Surface and Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
225	1	Subsurface	Antimony	5.41E+01	0.41			0.41	59.6%
225	1	Subsurface	Arsenic	8.10E+00	0.08	0.02	0.00	0.10	14.5%
225	1	Subsurface	Manganese	8.55E+02	0.11		0.00	0.11	16.4%
225	1	Subsurface	Vanadium	1.09E+02	0.07		0.00	0.07	9.6%
225	**1**	**Subsurface**	**Totals**		**0.67**	**0.02**	**0.01**	**0.69**	
225	**1**	**Subsurface**	**Percent**		**97%**	**3%**	**1%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.30. HIs for the Excavation Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Subsurface	Manganese	6.06E+02	0.08		0.00	0.08	58.9%
13	1	Subsurface	Vanadium	9.23E+01	0.06		0.00	0.06	41.1%
13	**1**	**Subsurface**	**Totals**		**0.13**		**0.00**	**0.14**	
13	**1**	**Subsurface**	**Percent**		**97%**		**3%**		
13	2	Subsurface	Arsenic	1.04E+01	0.11	0.02	0.00	0.13	28.3%
13	2	Subsurface	Iron	2.47E+04	0.11			0.11	23.6%
13	2	Subsurface	Manganese	1.22E+03	0.16		0.01	0.16	35.6%
13	2	Subsurface	Vanadium	9.38E+01	0.06		0.00	0.06	12.5%
13	**2**	**Subsurface**	**Totals**		**0.42**	**0.02**	**0.01**	**0.46**	
13	**2**	**Subsurface**	**Percent**		**93%**	**5%**	**2%**		
13	3	Subsurface	Iron	2.63E+04	0.11			0.11	34.4%
13	3	Subsurface	Manganese	1.09E+03	0.14		0.01	0.14	43.5%
13	3	Subsurface	Molybdenum	2.18E+01	0.01			0.01	4.0%
13	3	Subsurface	Vanadium	9.88E+01	0.06		0.00	0.06	18.0%
13	**3**	**Subsurface**	**Totals**		**0.33**		**0.01**	**0.32**	
13	**3**	**Subsurface**	**Percent**		**98%**		**2%**		
13	4	Subsurface	Iron	2.75E+04	0.12			0.12	38.3%
13	4	Subsurface	Manganese	1.00E+03	0.13		0.01	0.13	42.6%
13	4	Subsurface	Vanadium	9.81E+01	0.06		0.00	0.06	19.1%
13	**4**	**Subsurface**	**Totals**		**0.31**		**0.01**	**0.31**	
13	**4**	**Subsurface**	**Percent**		**98%**		**2%**		
13	5	Subsurface	Aluminum	9.74E+03	0.03		0.00	0.03	7.6%
13	5	Subsurface	Chromium	9.37E+01	0.00			0.00	0.0%
13	5	Subsurface	Iron	2.42E+04	0.11			0.11	26.6%
13	5	Subsurface	Manganese	9.08E+02	0.12		0.00	0.12	30.4%
13	5	Subsurface	Uranium	7.38E+01	0.07		0.00	0.08	19.1%
13	5	Subsurface	Vanadium	1.06E+02	0.06		0.00	0.06	16.2%
13	**5**	**Subsurface**	**Totals**		**0.39**		**0.01**	**0.40**	
13	**5**	**Subsurface**	**Percent**		**98%**		**2%**		
13	6	Subsurface	Cadmium	4.68E+00	0.01	0.00	0.00	0.02	4.8%
13	6	Subsurface	Iron	3.09E+04	0.13			0.13	34.6%
13	6	Subsurface	Manganese	9.46E+02	0.12		0.01	0.12	32.2%
13	6	Subsurface	Uranium	3.67E+01	0.04		0.00	0.04	9.7%
13	6	Subsurface	Vanadium	1.20E+02	0.07		0.00	0.07	18.7%
13	**6**	**Subsurface**	**Totals**		**0.38**	**0.00**	**0.01**	**0.38**	
13	**6**	**Subsurface**	**Percent**		**97%**	**1%**	**2%**		
13	7	Subsurface	Iron	2.78E+04	0.12			0.12	50.0%
13	7	Subsurface	Silver	7.79E+01	0.05			0.05	19.6%
13	7	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	30.4%
13	**7**	**Subsurface**	**Totals**		**0.24**		**0.00**	**0.24**	
13	**7**	**Subsurface**	**Percent**		**100%**		**0%**		
13	8	Subsurface	Iron	2.41E+04	0.10			0.10	33.4%
13	8	Subsurface	Manganese	1.12E+03	0.14		0.01	0.15	47.3%
13	8	Subsurface	Vanadium	9.97E+01	0.06		0.00	0.06	19.3%
13	**8**	**Subsurface**	**Totals**		**0.31**		**0.01**	**0.31**	
13	**8**	**Subsurface**	**Percent**		**98%**		**2%**		
13	9	Subsurface	Arsenic	1.25E+01	0.13	0.03	0.00	0.15	68.5%
13	9	Subsurface	Vanadium	1.17E+02	0.07		0.00	0.07	31.5%
13	**9**	**Subsurface**	**Totals**		**0.20**	**0.03**	**0.00**	**0.22**	
13	**9**	**Subsurface**	**Percent**		**88%**	**12%**	**0%**		
13	10	Subsurface	Iron	3.80E+04	0.17			0.17	24.1%
13	10	Subsurface	Manganese	3.09E+03	0.39		0.02	0.41	59.6%
13	10	Subsurface	Silver	5.40E+01	0.03			0.03	4.8%
13	10	Subsurface	Vanadium	1.30E+02	0.08		0.00	0.08	11.5%
13	**10**	**Subsurface**	**Totals**		**0.67**		**0.02**	**0.69**	
13	**10**	**Subsurface**	**Percent**		**97%**		**3%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
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Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	11	Subsurface	Manganese	7.58E+02	0.10		0.00	0.10	43.3%
13	11	Subsurface	Silver	1.03E+02	0.06			0.06	27.0%
13	11	Subsurface	Vanadium	1.14E+02	0.07		0.00	0.07	29.7%
13	**11**	**Subsurface**	**Totals**		**0.23**		**0.00**	**0.23**	
13	**11**	**Subsurface**	**Percent**		**98%**		**2%**		
13	12	Subsurface	Iron	2.30E+04	0.10			0.10	22.7%
13	12	Subsurface	Manganese	1.35E+03	0.17		0.01	0.18	40.7%
13	12	Subsurface	Silver	1.49E+02	0.09			0.09	20.6%
13	12	Subsurface	Vanadium	1.16E+02	0.07		0.00	0.07	16.0%
13	**12**	**Subsurface**	**Totals**		**0.43**		**0.01**	**0.44**	
13	**12**	**Subsurface**	**Percent**		**98%**		**2%**		
13	13	Subsurface	Iron	2.89E+04	0.13			0.13	34.6%
13	13	Subsurface	Manganese	1.13E+03	0.14		0.01	0.15	41.0%
13	13	Subsurface	Molybdenum	2.72E+01	0.02			0.02	4.6%
13	13	Subsurface	Vanadium	1.19E+02	0.07		0.00	0.07	19.8%
13	**13**	**Subsurface**	**Totals**		**0.36**		**0.01**	**0.37**	
13	**13**	**Subsurface**	**Percent**		**98%**		**2%**		
13	14	Subsurface	Manganese	5.56E+02	0.07		0.00	0.07	49.7%
13	14	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	50.3%
13	**14**	**Subsurface**	**Totals**		**0.14**		**0.00**	**0.14**	
13	**14**	**Subsurface**	**Percent**		**98%**		**2%**		
15	1	Subsurface	Antimony	1.08E+02	0.82			0.82	15.3%
15	1	Subsurface	Arsenic	1.32E+01	0.13	0.03	0.00	0.16	3.0%
15	1	Subsurface	Cadmium	2.72E+01	0.08	0.02	0.00	0.11	2.0%
15	1	Subsurface	Chromium	8.29E+01	0.00			0.00	0.0%
15	1	Subsurface	Iron	2.97E+04	0.13			0.13	2.4%
15	1	Subsurface	Manganese	6.01E+02	0.08		0.00	0.08	1.5%
15	1	Subsurface	Nickel	1.39E+02	0.02		0.00	0.02	0.4%
15	1	Subsurface	Thallium	1.31E+01	3.98			3.98	73.9%
15	1	Subsurface	Uranium	3.23E+01	0.03		0.00	0.03	0.6%
15	1	Subsurface	Vanadium	8.40E+01	0.05		0.00	0.05	0.9%
15	**1**	**Subsurface**	**Totals**		**5.33**	**0.05**	**0.01**	**5.38**	
15	**1**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
15	2	Subsurface	Aluminum	1.68E+04	0.05		0.00	0.05	2.7%
15	2	Subsurface	Antimony	1.08E+02	0.82			0.82	42.4%
15	2	Subsurface	Arsenic	1.63E+01	0.16	0.04	0.00	0.20	10.4%
15	2	Subsurface	Cadmium	1.51E+01	0.05	0.01	0.00	0.06	3.1%
15	2	Subsurface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Subsurface	Iron	3.89E+04	0.17			0.17	8.7%
15	2	Subsurface	Manganese	1.37E+03	0.17		0.01	0.18	9.4%
15	2	Subsurface	Mercury	9.33E+00	0.09			0.09	4.9%
15	2	Subsurface	Nickel	3.75E+02	0.06		0.00	0.06	3.0%
15	2	Subsurface	Thallium	3.50E-01	0.11			0.11	5.5%
15	2	Subsurface	Uranium	1.32E+02	0.13		0.00	0.13	7.0%
15	2	Subsurface	Vanadium	9.38E+01	0.06		0.00	0.06	2.9%
15	**2**	**Subsurface**	**Totals**		**1.87**	**0.05**	**0.01**	**1.93**	
15	**2**	**Subsurface**	**Percent**		**97%**	**3%**	**1%**		
15	3	Subsurface	Antimony	1.15E+02	0.87			0.87	11.0%
15	3	Subsurface	Arsenic	3.65E+01	0.37	0.08	0.00	0.45	5.7%
15	3	Subsurface	Cadmium	1.89E+01	0.06	0.02	0.00	0.07	0.9%
15	3	Subsurface	Chromium	8.13E+01	0.00			0.00	0.0%
15	3	Subsurface	Cobalt	2.37E+01	0.24		0.00	0.24	3.0%
15	3	Subsurface	Copper	1.60E+03	0.12			0.12	1.5%
15	3	Subsurface	Iron	9.52E+04	0.41			0.41	5.2%
15	3	Subsurface	Manganese	1.62E+03	0.20		0.01	0.21	2.7%
15	3	Subsurface	Mercury	2.08E+01	0.21			0.21	2.6%

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Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	3	Subsurface	Nickel	8.38E+02	0.13		0.00	0.13	1.6%
15	3	Subsurface	Thallium	1.64E+01	4.98			4.98	62.4%
15	3	Subsurface	Uranium	2.16E+02	0.22		0.00	0.22	2.8%
15	3	Subsurface	Vanadium	7.72E+01	0.05		0.00	0.05	0.6%
15	**3**	**Subsurface**	**Totals**		**7.87**	**0.10**	**0.02**	**7.96**	
15	**3**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
15	4	Subsurface	Antimony	9.30E+01	0.71			0.71	8.0%
15	4	Subsurface	Arsenic	3.37E+01	0.34	0.07	0.00	0.42	4.7%
15	4	Subsurface	Cadmium	1.34E+01	0.04	0.01	0.00	0.05	0.6%
15	4	Subsurface	Chromium	8.55E+01	0.00			0.00	0.0%
15	4	Subsurface	Copper	6.00E+02	0.05			0.05	0.5%
15	4	Subsurface	Iron	6.97E+04	0.30			0.30	3.4%
15	4	Subsurface	Manganese	1.29E+03	0.16		0.01	0.17	1.9%
15	4	Subsurface	Mercury	5.08E+01	0.51			0.51	5.8%
15	4	Subsurface	Nickel	1.24E+03	0.19		0.00	0.19	2.2%
15	4	Subsurface	Thallium	2.06E+01	6.28			6.28	70.9%
15	4	Subsurface	Uranium	1.29E+02	0.13		0.00	0.13	1.5%
15	4	Subsurface	Vanadium	7.58E+01	0.05		0.00	0.05	0.5%
15	**4**	**Subsurface**	**Totals**		**8.76**	**0.09**	**0.01**	**8.86**	
15	**4**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
15	5	Subsurface	Aluminum	9.61E+03	0.03		0.00	0.03	1.3%
15	5	Subsurface	Antimony	1.22E+02	0.93			0.93	41.0%
15	5	Subsurface	Arsenic	1.33E+01	0.13	0.03	0.00	0.16	7.3%
15	5	Subsurface	Cadmium	1.80E+01	0.05	0.02	0.00	0.07	3.1%
15	5	Subsurface	Chromium	6.58E+01	0.00			0.00	0.0%
15	5	Subsurface	Copper	5.63E+03	0.43			0.43	18.9%
15	5	Subsurface	Iron	2.31E+04	0.10			0.10	4.4%
15	5	Subsurface	Manganese	7.28E+02	0.09		0.00	0.10	4.3%
15	5	Subsurface	Mercury	1.96E+01	0.20			0.20	8.8%
15	5	Subsurface	Nickel	3.48E+02	0.05		0.00	0.05	2.4%
15	5	Subsurface	Uranium	1.74E+02	0.18		0.00	0.18	7.8%
15	5	Subsurface	Zinc	1.53E+03	0.02			0.02	0.7%
15	**5**	**Subsurface**	**Totals**		**2.21**	**0.05**	**0.01**	**2.27**	
15	**5**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		
15	6	Subsurface	Antimony	9.94E+01	0.76			0.76	44.8%
15	6	Subsurface	Arsenic	1.20E+01	0.12	0.03	0.00	0.15	8.8%
15	6	Subsurface	Cadmium	2.50E+01	0.08	0.02	0.00	0.10	5.9%
15	6	Subsurface	Chromium	7.97E+01	0.00			0.00	0.0%
15	6	Subsurface	Cobalt	1.13E+01	0.11		0.00	0.11	6.8%
15	6	Subsurface	Copper	4.28E+02	0.03			0.03	1.9%
15	6	Subsurface	Iron	3.29E+04	0.14			0.14	8.5%
15	6	Subsurface	Manganese	6.96E+02	0.09		0.00	0.09	5.5%
15	6	Subsurface	Mercury	1.87E+01	0.19			0.19	11.2%
15	6	Subsurface	Nickel	3.00E+02	0.05		0.00	0.05	2.8%
15	6	Subsurface	Uranium	6.26E+01	0.06		0.00	0.06	3.8%
15	**6**	**Subsurface**	**Totals**		**1.63**	**0.05**	**0.01**	**1.68**	
15	**6**	**Subsurface**	**Percent**		**97%**	**3%**	**0%**		
15	7	Subsurface	Aluminum	1.13E+04	0.03		0.00	0.03	1.8%
15	7	Subsurface	Antimony	1.41E+02	1.08			1.08	56.3%
15	7	Subsurface	Arsenic	1.61E+01	0.16	0.04	0.00	0.20	10.4%
15	7	Subsurface	Cadmium	2.78E+01	0.08	0.02	0.00	0.11	5.7%
15	7	Subsurface	Chromium	6.54E+01	0.00			0.00	0.0%
15	7	Subsurface	Copper	6.02E+02	0.05			0.05	2.4%
15	7	Subsurface	Iron	3.45E+04	0.15			0.15	7.8%
15	7	Subsurface	Manganese	1.17E+03	0.15		0.01	0.15	8.1%
15	7	Subsurface	Nickel	5.59E+02	0.08		0.00	0.09	4.5%

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Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	7	Subsurface	Uranium	5.34E+01	0.05		0.00	0.05	2.9%
15	**7**	**Subsurface**	**Totals**		**1.84**	**0.06**	**0.01**	**1.91**	
15	**7**	**Subsurface**	**Percent**		**96%**	**3%**	**1%**		
15	8	Subsurface	Antimony	9.93E+01	0.76			0.76	53.4%
15	8	Subsurface	Arsenic	1.14E+01	0.12	0.03	0.00	0.14	10.0%
15	8	Subsurface	Cadmium	1.68E+01	0.05	0.01	0.00	0.07	4.7%
15	8	Subsurface	Chromium	7.53E+01	0.00			0.00	0.0%
15	8	Subsurface	Iron	2.83E+04	0.12			0.12	8.7%
15	8	Subsurface	Manganese	6.03E+02	0.08		0.00	0.08	5.6%
15	8	Subsurface	Mercury	1.73E+01	0.18			0.18	12.4%
15	8	Subsurface	Nickel	1.82E+02	0.03		0.00	0.03	2.0%
15	8	Subsurface	Uranium	4.46E+01	0.05		0.00	0.05	3.2%
15	**8**	**Subsurface**	**Totals**		**1.37**	**0.04**	**0.00**	**1.43**	
15	**8**	**Subsurface**	**Percent**		**97%**	**3%**	**0%**		
15	9	Subsurface	Antimony	1.22E+02	0.93			0.93	51.2%
15	9	Subsurface	Arsenic	1.31E+01	0.13	0.03	0.00	0.16	8.9%
15	9	Subsurface	Cadmium	2.81E+01	0.09	0.02	0.00	0.11	6.1%
15	9	Subsurface	Chromium	8.92E+01	0.00			0.00	0.0%
15	9	Subsurface	Iron	3.02E+04	0.13			0.13	7.2%
15	9	Subsurface	Manganese	1.57E+03	0.20		0.01	0.21	11.4%
15	9	Subsurface	Mercury	1.74E+01	0.18			0.18	9.7%
15	9	Subsurface	Nickel	1.49E+02	0.02		0.00	0.02	1.3%
15	9	Subsurface	Uranium	3.07E+01	0.03		0.00	0.03	1.7%
15	9	Subsurface	Vanadium	7.33E+01	0.04		0.00	0.04	2.4%
15	**9**	**Subsurface**	**Totals**		**1.75**	**0.05**	**0.01**	**1.81**	
15	**9**	**Subsurface**	**Percent**		**96%**	**3%**	**1%**		
15	10	Subsurface	Antimony	1.26E+02	0.96			0.96	70.9%
15	10	Subsurface	Arsenic	9.75E+00	0.10	0.02	0.00	0.12	8.9%
15	10	Subsurface	Cadmium	1.67E+01	0.05	0.01	0.00	0.07	4.9%
15	10	Subsurface	Chromium	6.29E+01	0.00			0.00	0.0%
15	10	Subsurface	Mercury	7.84E+00	0.08			0.08	5.9%
15	10	Subsurface	Nickel	2.26E+02	0.03		0.00	0.04	2.6%
15	10	Subsurface	Uranium	9.02E+01	0.09		0.00	0.09	6.8%
15	**10**	**Subsurface**	**Totals**		**1.31**	**0.04**	**0.00**	**1.36**	
15	**10**	**Subsurface**	**Percent**		**97%**	**3%**	**0%**		
26	1	Subsurface	Aluminum	1.25E+04	0.04		0.00	0.04	1.5%
26	1	Subsurface	Antimony	7.32E+01	0.56			0.56	21.4%
26	1	Subsurface	Arsenic	1.01E+01	0.10	0.02	0.00	0.13	4.8%
26	1	Subsurface	Beryllium	1.57E+01	0.02		0.00	0.02	0.9%
26	1	Subsurface	Cadmium	1.03E+01	0.03	0.01	0.00	0.04	1.6%
26	1	Subsurface	Cobalt	1.17E+01	0.12		0.00	0.12	4.6%
26	1	Subsurface	Iron	2.93E+04	0.13			0.13	4.9%
26	1	Subsurface	Manganese	8.52E+02	0.11		0.00	0.11	4.3%
26	1	Subsurface	Mercury	5.65E+01	0.57			0.57	22.1%
26	1	Subsurface	Nickel	1.21E+02	0.02		0.00	0.02	0.7%
26	1	Subsurface	Thallium	2.59E-01	0.08			0.08	3.0%
26	1	Subsurface	Uranium	6.70E+02	0.68		0.00	0.68	26.4%
26	1	Subsurface	Vanadium	1.61E+02	0.10		0.00	0.10	3.8%
26	**1**	**Subsurface**	**Totals**		**2.55**	**0.03**	**0.01**	**2.60**	
26	**1**	**Subsurface**	**Percent**		**98%**	**1%**	**0%**		
26	2	Subsurface	Aluminum	2.50E+04	0.08		0.00	0.08	0.8%
26	2	Subsurface	Antimony	2.73E+02	2.08			2.08	20.3%
26	2	Subsurface	Arsenic	4.78E+01	0.48	0.11	0.00	0.59	5.8%
26	2	Subsurface	Beryllium	1.54E+01	0.02		0.00	0.02	0.2%
26	2	Subsurface	Cadmium	1.60E+01	0.05	0.01	0.00	0.06	0.6%
26	2	Subsurface	Chromium	7.26E+01	0.00			0.00	0.0%

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Table D.30. HIs for the Excavation Worker (Continued)

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26	2	Subsurface	Cobalt	4.72E+01	0.48		0.00	0.48	4.7%
26	2	Subsurface	Iron	4.46E+04	0.19			0.19	1.9%
26	2	Subsurface	Manganese	9.14E+02	0.12		0.00	0.12	1.2%
26	2	Subsurface	Mercury	2.36E+01	0.24			0.24	2.3%
26	2	Subsurface	Nickel	1.08E+02	0.02		0.00	0.02	0.2%
26	2	Subsurface	Thallium	1.68E+01	5.12			5.12	50.0%
26	2	Subsurface	Uranium	1.15E+03	1.16		0.01	1.17	11.5%
26	2	Subsurface	Vanadium	1.03E+02	0.06		0.00	0.06	0.6%
26	**2**	**Subsurface**	**Totals**		**10.10**	**0.12**	**0.02**	**10.23**	
26	**2**	**Subsurface**	**Percent**		**99%**	**1%**	**0%**		
26	3	Subsurface	Aluminum	9.30E+03	0.03		0.00	0.03	0.9%
26	3	Subsurface	Antimony	6.79E+01	0.52			0.52	16.9%
26	3	Subsurface	Arsenic	7.52E+01	0.76	0.17	0.00	0.93	30.3%
26	3	Subsurface	Chromium	6.47E+01	0.00			0.00	0.0%
26	3	Subsurface	Cobalt	9.23E+00	0.09		0.00	0.09	3.1%
26	3	Subsurface	Iron	3.45E+04	0.15			0.15	4.9%
26	3	Subsurface	Manganese	5.74E+02	0.07		0.00	0.08	2.5%
26	3	Subsurface	Mercury	1.79E+01	0.18			0.18	5.9%
26	3	Subsurface	Molybdenum	4.40E+01	0.03			0.03	0.9%
26	3	Subsurface	Pentachlorophenol	1.61E+00	0.00	0.00		0.00	0.1%
26	3	Subsurface	Thallium	2.51E+00	0.76			0.76	24.9%
26	3	Subsurface	Uranium	2.05E+02	0.21		0.00	0.21	6.8%
26	3	Subsurface	Vanadium	1.43E+02	0.09		0.00	0.09	2.8%
26	**3**	**Subsurface**	**Totals**		**2.89**	**0.17**	**0.01**	**3.07**	
26	**3**	**Subsurface**	**Percent**		**94%**	**5%**	**0%**		
26	4	Subsurface	Aluminum	1.20E+04	0.04		0.00	0.04	0.6%
26	4	Subsurface	Antimony	7.32E+01	0.56			0.56	9.2%
26	4	Subsurface	Arsenic	6.05E+01	0.61	0.13	0.00	0.75	12.4%
26	4	Subsurface	Cadmium	9.00E+00	0.03	0.01	0.00	0.04	0.6%
26	4	Subsurface	Chromium	1.02E+02	0.00			0.00	0.0%
26	4	Subsurface	Cobalt	1.47E+01	0.15		0.00	0.15	2.5%
26	4	Subsurface	Copper	3.24E+03	0.25			0.25	4.1%
26	4	Subsurface	Iron	3.21E+04	0.14			0.14	2.3%
26	4	Subsurface	Manganese	7.87E+02	0.10		0.00	0.10	1.7%
26	4	Subsurface	Mercury	1.90E+01	0.19			0.19	3.2%
26	4	Subsurface	Molybdenum	4.08E+01	0.02			0.02	0.4%
26	4	Subsurface	Nickel	1.21E+04	1.83		0.04	1.87	31.1%
26	4	Subsurface	Thallium	1.53E+00	0.46			0.46	7.7%
26	4	Subsurface	Uranium	1.34E+03	1.36		0.01	1.37	22.7%
26	4	Subsurface	Vanadium	1.42E+02	0.09		0.00	0.09	1.4%
26	**4**	**Subsurface**	**Totals**		**5.83**	**0.14**	**0.05**	**6.03**	
26	**4**	**Subsurface**	**Percent**		**97%**	**2%**	**1%**		
77	1	Subsurface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Subsurface	Iron	5.03E+04	0.22			0.22	21.9%
77	1	Subsurface	Uranium	6.66E+02	0.68		0.00	0.68	67.9%
77	1	Subsurface	Vanadium	1.68E+02	0.10		0.00	0.10	10.2%
77	**1**	**Subsurface**	**Totals**		**1.00**		**0.00**	**1.00**	
77	**1**	**Subsurface**	**Percent**		**100%**		**0%**		
80	1	Subsurface	Dioxins/Furans, Total	8.82E-05	38%		0.00	0.38	79.3%
80	1	Subsurface	Uranium	9.80E+01	0.10		0.00	0.10	20.7%
80	**1**	**Subsurface**	**Totals**		**0.48**		**0.00**	**0.48**	
80	**1**	**Subsurface**	**Percent**		**100%**		**0%**		
80	2	Subsurface	Antimony	7.57E+01	0.58			0.58	8.1%
80	2	Subsurface	Arsenic	1.01E+01	0.10	0.02	0.00	0.12	1.7%
80	2	Subsurface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Subsurface	Cobalt	1.90E+01	0.19		0.00	0.19	2.7%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	2	Subsurface	Iron	3.52E+04	0.15			0.15	2.1%
80	2	Subsurface	Manganese	1.20E+03	0.15		0.01	0.16	2.2%
80	2	Subsurface	Uranium	5.72E+03	5.80		0.04	5.84	82.0%
80	2	Subsurface	Vanadium	1.29E+02	0.08		0.00	0.08	1.1%
80	**2**	**Subsurface**	**Totals**		**7.06**	**0.02**	**0.05**	**7.12**	
80	**2**	**Subsurface**	**Percent**		**99%**	**0%**	**1%**		
80	3	Subsurface	Antimony	9.99E+01	0.76			0.76	34.2%
80	3	Subsurface	Arsenic	1.04E+01	0.11	0.02	0.00	0.13	5.8%
80	3	Subsurface	Cadmium	1.84E+01	0.06	0.02	0.00	0.07	3.3%
80	3	Subsurface	Iron	3.41E+04	0.15			0.15	6.7%
80	3	Subsurface	Manganese	1.00E+03	0.13		0.01	0.13	6.0%
80	3	Subsurface	Mercury	7.98E+01	0.81			0.81	36.4%
80	3	Subsurface	Molybdenum	3.56E+01	0.02			0.02	1.0%
80	3	Subsurface	Uranium	7.32E+01	0.07		0.00	0.07	3.4%
80	3	Subsurface	Vanadium	1.27E+02	0.08		0.00	0.08	3.5%
80	**3**	**Subsurface**	**Totals**		**2.18**	**0.04**	**0.01**	**2.22**	
80	**3**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		
204	1	Subsurface	Aluminum	1.18E+04	0.04		0.00	0.04	18.3%
204	1	Subsurface	Manganese	6.80E+02	0.09		0.00	0.09	45.0%
204	1	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	36.7%
204	**1**	**Subsurface**	**Totals**		**0.19**		**0.00**	**0.20**	
204	**1**	**Subsurface**	**Percent**		**98%**		**2%**		
204	2	Subsurface	Arsenic	4.59E+01	0.47	0.10	0.00	0.57	65.4%
204	2	Subsurface	Iron	2.69E+04	0.12			0.12	13.5%
204	2	Subsurface	Manganese	8.34E+02	0.11		0.00	0.11	12.7%
204	2	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	8.5%
204	**2**	**Subsurface**	**Totals**		**0.76**	**0.10**	**0.01**	**0.87**	
204	**2**	**Subsurface**	**Percent**		**88%**	**12%**	**1%**		
204	3	Subsurface	Arsenic	1.10E+01	0.11	0.02	0.00	0.14	35.6%
204	3	Subsurface	Manganese	1.05E+03	0.13		0.01	0.14	36.5%
204	3	Subsurface	Silver	5.40E+01	0.03			0.03	8.6%
204	3	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	19.4%
204	**3**	**Subsurface**	**Totals**		**0.35**	**0.02**	**0.01**	**0.38**	
204	**3**	**Subsurface**	**Percent**		**92%**	**6%**	**2%**		
204	4	Subsurface	Arsenic	1.10E+01	0.11	0.02	0.00	0.14	25.8%
204	4	Subsurface	Iron	2.92E+04	0.13			0.13	24.1%
204	4	Subsurface	Manganese	8.97E+02	0.11		0.00	0.12	22.5%
204	4	Subsurface	Molybdenum	4.10E+01	0.02			0.02	4.7%
204	4	Subsurface	Silver	5.90E+01	0.04			0.04	6.8%
204	4	Subsurface	Vanadium	1.39E+02	0.08		0.00	0.08	16.0%
204	**4**	**Subsurface**	**Totals**		**0.50**	**0.02**	**0.01**	**0.53**	
204	**4**	**Subsurface**	**Percent**		**94%**	**5%**	**1%**		
204	5	Subsurface	Arsenic	5.67E+01	0.57	0.12	0.00	0.70	69.4%
204	5	Subsurface	Cobalt	1.04E+01	0.11		0.00	0.11	10.5%
204	5	Subsurface	Manganese	9.75E+02	0.12		0.01	0.13	12.8%
204	5	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	7.3%
204	**5**	**Subsurface**	**Totals**		**0.88**	**0.12**	**0.01**	**1.01**	
204	**5**	**Subsurface**	**Percent**		**87%**	**12%**	**1%**		
204	6	Subsurface	Arsenic	1.00E+01	0.10	0.02	0.00	0.12	18.0%
204	6	Subsurface	Iron	3.17E+04	0.14			0.14	20.0%
204	6	Subsurface	Manganese	2.65E+03	0.34		0.01	0.35	50.9%
204	6	Subsurface	Vanadium	1.25E+02	0.08		0.00	0.08	11.0%
204	**6**	**Subsurface**	**Totals**		**0.65**	**0.02**	**0.01**	**0.69**	
204	**6**	**Subsurface**	**Percent**		**95%**	**3%**	**2%**		
204	7	Subsurface	Arsenic	1.70E+01	0.17	0.04	0.00	0.21	22.4%
204	7	Subsurface	Cobalt	1.50E+01	0.15		0.00	0.15	16.3%

SWMU = solid waste management unit
EU = exposure unit
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Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	7	Subsurface	Iron	2.95E+04	0.13			0.13	13.7%
204	7	Subsurface	Manganese	2.80E+03	0.35		0.02	0.37	39.5%
204	7	Subsurface	Vanadium	1.27E+02	0.08		0.00	0.08	8.2%
204	**7**	**Subsurface**	**Totals**		**0.88**	**0.04**	**0.02**	**0.94**	
204	**7**	**Subsurface**	**Percent**		**94%**	**4%**	**2%**		
204	8	Subsurface	Arsenic	8.40E+00	0.09	0.02	0.00	0.10	16.1%
204	8	Subsurface	Cobalt	1.40E+01	0.14		0.00	0.14	22.1%
204	8	Subsurface	Iron	3.09E+04	0.13			0.13	20.9%
204	8	Subsurface	Manganese	1.39E+03	0.18		0.01	0.18	28.4%
204	8	Subsurface	Vanadium	1.32E+02	0.08		0.00	0.08	12.4%
204	**8**	**Subsurface**	**Totals**		**0.62**	**0.02**	**0.01**	**0.63**	
204	**8**	**Subsurface**	**Percent**		**96%**	**3%**	**1%**		
204	9	Subsurface	Arsenic	8.40E+00	0.09	0.02	0.00	0.10	23.6%
204	9	Subsurface	Iron	3.06E+04	0.13			0.13	30.2%
204	9	Subsurface	Manganese	9.10E+02	0.12		0.00	0.12	27.3%
204	9	Subsurface	Vanadium	1.37E+02	0.08		0.00	0.08	18.9%
204	**9**	**Subsurface**	**Totals**		**0.42**	**0.02**	**0.01**	**0.43**	
204	**9**	**Subsurface**	**Percent**		**95%**	**4%**	**1%**		
204	10	Subsurface	Antimony	1.20E+01	0.09			0.09	26.1%
204	10	Subsurface	Iron	4.10E+04	0.18			0.18	50.9%
204	10	Subsurface	Vanadium	1.33E+02	0.08		0.00	0.08	23.0%
204	**10**	**Subsurface**	**Totals**		**0.35**		**0.00**	**0.35**	
204	**10**	**Subsurface**	**Percent**		**100%**		**0%**		
204	11	Subsurface	Arsenic	8.80E+00	0.09	0.02	0.00	0.11	23.4%
204	11	Subsurface	Iron	3.14E+04	0.14			0.14	29.4%
204	11	Subsurface	Manganese	9.85E+02	0.12		0.01	0.13	28.1%
204	11	Subsurface	Vanadium	1.46E+02	0.09		0.00	0.09	19.1%
204	**11**	**Subsurface**	**Totals**		**0.44**	**0.02**	**0.01**	**0.47**	
204	**11**	**Subsurface**	**Percent**		**95%**	**4%**	**1%**		
204	12	Subsurface	Arsenic	9.80E+00	0.10	0.02	0.00	0.12	19.8%
204	12	Subsurface	Iron	2.86E+04	0.12			0.12	20.3%
204	12	Subsurface	Manganese	2.12E+03	0.27		0.01	0.28	45.7%
204	12	Subsurface	Vanadium	1.44E+02	0.09		0.00	0.09	14.3%
204	**12**	**Subsurface**	**Totals**		**0.58**	**0.02**	**0.01**	**0.61**	
204	**12**	**Subsurface**	**Percent**		**95%**	**4%**	**2%**		
204	13	Subsurface	Arsenic	8.60E+00	0.09	0.02	0.00	0.11	32.0%
204	13	Subsurface	Manganese	1.04E+03	0.13		0.01	0.14	41.5%
204	13	Subsurface	Vanadium	1.45E+02	0.09		0.00	0.09	26.5%
204	**13**	**Subsurface**	**Totals**		**0.31**	**0.02**	**0.01**	**0.34**	
204	**13**	**Subsurface**	**Percent**		**92%**	**6%**	**2%**		
204	14	Subsurface	Arsenic	1.36E+02	1.38	0.30	0.00	1.68	77.6%
204	14	Subsurface	Iron	3.52E+04	0.15			0.15	7.1%
204	14	Subsurface	Manganese	8.21E+02	0.10		0.00	0.11	5.0%
204	14	Subsurface	Uranium	1.34E+02	0.14		0.00	0.14	6.3%
204	14	Subsurface	Vanadium	1.43E+02	0.09		0.00	0.09	4.0%
204	**14**	**Subsurface**	**Totals**		**1.86**	**0.30**	**0.01**	**2.17**	
204	**14**	**Subsurface**	**Percent**		**86%**	**14%**	**0%**		
204	15	Subsurface	Iron	4.59E+04	0.20			0.20	50.1%
204	15	Subsurface	Manganese	8.78E+02	0.11		0.00	0.12	29.2%
204	15	Subsurface	Vanadium	1.36E+02	0.08		0.00	0.08	20.7%
204	**15**	**Subsurface**	**Totals**		**0.39**		**0.01**	**0.40**	
204	**15**	**Subsurface**	**Percent**		**99%**		**1%**		
204	16	Subsurface	Arsenic	8.20E+00	0.08	0.02	0.00	0.10	17.8%
204	16	Subsurface	Iron	2.89E+04	0.13			0.13	22.1%
204	16	Subsurface	Manganese	1.80E+03	0.23		0.01	0.24	41.7%
204	16	Subsurface	Silver	5.10E+01	0.03			0.03	5.4%

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Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	16	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	13.0%
204	**16**	**Subsurface**	**Totals**		**0.54**	**0.02**	**0.01**	**0.57**	
204	**16**	**Subsurface**	**Percent**		**95%**	**3%**	**2%**		
204	17	Subsurface	Arsenic	9.60E+00	0.10	0.02	0.00	0.12	27.4%
204	17	Subsurface	Iron	2.98E+04	0.13			0.13	30.0%
204	17	Subsurface	Manganese	8.33E+02	0.11		0.00	0.11	25.5%
204	17	Subsurface	Vanadium	1.22E+02	0.07		0.00	0.07	17.1%
204	**17**	**Subsurface**	**Totals**		**0.41**	**0.02**	**0.01**	**0.43**	
204	**17**	**Subsurface**	**Percent**		**94%**	**5%**	**1%**		
204	18	Subsurface	Iron	3.35E+04	0.15			0.15	26.8%
204	18	Subsurface	Manganese	1.07E+03	0.14		0.01	0.14	26.0%
204	18	Subsurface	Silver	8.90E+01	0.05			0.05	10.0%
204	18	Subsurface	Uranium	1.09E+02	0.11		0.00	0.11	20.5%
204	18	Subsurface	Vanadium	1.51E+02	0.09		0.00	0.09	16.8%
204	**18**	**Subsurface**	**Totals**		**0.54**		**0.01**	**0.54**	
204	**18**	**Subsurface**	**Percent**		**99%**		**1%**		
204	19	Subsurface	Arsenic	1.20E+01	0.12	0.03	0.00	0.15	28.9%
204	19	Subsurface	Manganese	1.30E+03	0.16		0.01	0.17	33.5%
204	19	Subsurface	Silver	5.50E+01	0.03			0.03	6.5%
204	19	Subsurface	Uranium	8.50E+01	0.09		0.00	0.09	16.9%
204	19	Subsurface	Vanadium	1.21E+02	0.07		0.00	0.07	14.3%
204	**19**	**Subsurface**	**Totals**		**0.48**	**0.03**	**0.01**	**0.51**	
204	**19**	**Subsurface**	**Percent**		**93%**	**5%**	**2%**		
204	20	Subsurface	Arsenic	1.40E+01	0.14	0.03	0.00	0.17	1.2%
204	20	Subsurface	Chromium	1.75E+02	0.00			0.00	0.0%
204	20	Subsurface	Cobalt	1.30E+01	0.13		0.00	0.13	0.9%
204	20	Subsurface	Iron	4.60E+04	0.20			0.20	1.4%
204	20	Subsurface	Manganese	8.39E+02	0.11		0.00	0.11	0.8%
204	20	Subsurface	Silver	4.70E+01	0.03			0.03	0.2%
204	20	Subsurface	Uranium	1.31E+04	13.25		0.09	13.34	94.9%
204	20	Subsurface	Vanadium	1.14E+02	0.07		0.00	0.07	0.5%
204	**20**	**Subsurface**	**Totals**		**13.93**	**0.03**	**0.09**	**14.05**	
204	**20**	**Subsurface**	**Percent**		**99%**	**0%**	**1%**		
204	21	Subsurface	Arsenic	8.60E+00	0.09	0.02	0.00	0.11	20.8%
204	21	Subsurface	Cobalt	1.80E+01	0.18		0.00	0.18	35.8%
204	21	Subsurface	Manganese	1.13E+03	0.14		0.01	0.15	29.2%
204	21	Subsurface	Vanadium	1.20E+02	0.07		0.00	0.07	14.2%
204	**21**	**Subsurface**	**Totals**		**0.49**	**0.02**	**0.01**	**0.51**	
204	**21**	**Subsurface**	**Percent**		**95%**	**4%**	**1%**		
211	1	Subsurface	Antimony	9.74E+01	0.74			0.74	38.5%
211	1	Subsurface	Arsenic	1.00E+01	0.10	0.02	0.00	0.12	6.4%
211	1	Subsurface	Cadmium	1.42E+01	0.04	0.01	0.00	0.06	2.9%
211	1	Subsurface	Chromium	4.84E+01	0.00			0.00	0.0%
211	1	Subsurface	Cobalt	4.95E+01	0.50		0.00	0.50	26.2%
211	1	Subsurface	Iron	4.71E+04	0.20			0.20	10.6%
211	1	Subsurface	Thallium	6.02E-01	0.18			0.18	9.5%
211	1	Subsurface	Uranium	4.85E+01	0.05		0.00	0.05	2.6%
211	1	Subsurface	Vanadium	1.03E+02	0.06		0.00	0.06	3.2%
211	**1**	**Subsurface**	**Totals**		**1.89**	**0.03**	**0.00**	**1.91**	
211	**1**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		
224	1	Subsurface	Antimony	1.08E+02	0.82			0.82	83.2%
224	1	Subsurface	Arsenic	1.00E+01	0.10	0.02	0.00	0.12	12.5%
224	1	Subsurface	Chromium	6.50E+01	0.00			0.00	0.0%
224	1	Subsurface	Uranium	4.15E+01	0.04		0.00	0.04	4.3%
224	**1**	**Subsurface**	**Totals**		**0.97**	**0.02**	**0.00**	**0.98**	
224	**1**	**Subsurface**	**Percent**		**98%**	**2%**	**0%**		

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Table D.30. HIs for the Excavation Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
225	1	Subsurface	Antimony	5.41E+01	0.41			0.41	59.6%
225	1	Subsurface	Arsenic	8.10E+00	0.08	0.02	0.00	0.10	14.5%
225	1	Subsurface	Manganese	8.55E+02	0.11		0.00	0.11	16.4%
225	1	Subsurface	Vanadium	1.09E+02	0.07		0.00	0.07	9.6%
225	**1**	**Subsurface**	**Totals**		**0.67**	**0.02**	**0.01**	**0.69**	
225	**1**	**Subsurface**	**Percent**		**97%**	**3%**	**1%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.01		0.00	0.01	100.0%
13	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
13	**1**	**Surface**	**Percent**		**97%**		**3%**		
13	2	Surface	Iron	2.47E+04	0.04			0.04	29.1%
13	2	Surface	Manganese	1.22E+03	0.06		0.02	0.08	55.0%
13	2	Surface	Vanadium	9.38E+01	0.02		0.00	0.02	15.8%
13	**2**	**Surface**	**Totals**		**0.13**		**0.02**	**0.14**	
13	**2**	**Surface**	**Percent**		**86%**		**14%**		
13	3	Surface	Iron	2.63E+04	0.05			0.05	30.8%
13	3	Surface	Manganese	1.09E+03	0.05		0.02	0.07	49.0%
13	3	Surface	Molybdenum	2.19E+01	0.01			0.01	3.6%
13	3	Surface	Vanadium	9.88E+01	0.02		0.00	0.02	16.6%
13	**3**	**Surface**	**Totals**		**0.13**		**0.02**	**0.15**	
13	**3**	**Surface**	**Percent**		**88%**		**12%**		
13	4	Surface	Iron	2.75E+04	0.05			0.05	66.1%
13	4	Surface	Vanadium	9.81E+01	0.02		0.00	0.02	33.9%
13	**4**	**Surface**	**Totals**		**0.07**		**0.00**	**0.07**	
13	**4**	**Surface**	**Percent**		**99%**		**1%**		
13	5	Surface	Aluminum	9.83E+03	0.01		0.00	0.01	7.8%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.04			0.04	24.2%
13	5	Surface	Manganese	9.08E+02	0.05		0.01	0.06	34.7%
13	5	Surface	Uranium	7.41E+01	0.03		0.00	0.03	18.1%
13	5	Surface	Vanadium	1.06E+02	0.03		0.00	0.03	15.1%
13	**5**	**Surface**	**Totals**		**0.15**		**0.02**	**0.17**	
13	**5**	**Surface**	**Percent**		**90%**		**10%**		
13	6	Surface	Iron	3.09E+04	0.05			0.05	54.1%
13	6	Surface	Uranium	3.70E+01	0.01		0.00	0.02	15.8%
13	6	Surface	Vanadium	1.20E+02	0.03		0.00	0.03	30.1%
13	**6**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
13	**6**	**Surface**	**Percent**		**98%**		**2%**		
13	7	Surface	Iron	2.78E+04	0.05			0.05	39.2%
13	7	Surface	Silver	1.85E+02	0.04			0.04	36.3%
13	7	Surface	Vanadium	1.22E+02	0.03		0.00	0.03	24.5%
13	**7**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
13	**7**	**Surface**	**Percent**		**99%**		**1%**		
13	8	Surface	Iron	2.41E+04	0.04			0.04	29.7%
13	8	Surface	Manganese	1.12E+03	0.06		0.02	0.07	52.7%
13	8	Surface	Vanadium	9.97E+01	0.02		0.00	0.02	17.6%
13	**8**	**Surface**	**Totals**		**0.12**		**0.02**	**0.13**	
13	**8**	**Surface**	**Percent**		**87%**		**13%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.03		0.00	0.03	100.0%
13	**9**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
13	**9**	**Surface**	**Percent**		**97%**		**3%**		
13	10	Surface	Iron	3.80E+04	0.07			0.07	20.9%
13	10	Surface	Manganese	3.09E+03	0.15		0.05	0.20	64.8%
13	10	Surface	Silver	5.40E+01	0.01			0.01	4.2%
13	10	Surface	Vanadium	1.30E+02	0.03		0.00	0.03	10.2%
13	**10**	**Surface**	**Totals**		**0.26**		**0.05**	**0.31**	
13	**10**	**Surface**	**Percent**		**84%**		**16%**		
13	11	Surface	Silver	1.03E+02	0.02			0.02	46.9%
13	11	Surface	Vanadium	1.14E+02	0.03		0.00	0.03	53.1%
13	**11**	**Surface**	**Totals**		**0.05**		**0.00**	**0.05**	
13	**11**	**Surface**	**Percent**		**98%**		**2%**		
13	12	Surface	Iron	2.30E+04	0.04			0.04	22.2%
13	12	Surface	Manganese	1.35E+03	0.07		0.02	0.09	49.8%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Silver	8.88E+01	0.02			0.02	12.0%
13	12	Surface	Vanadium	1.16E+02	0.03		0.00	0.03	16.1%
13	**12**	**Surface**	**Totals**		**0.16**		**0.02**	**0.18**	
13	**12**	**Surface**	**Percent**		**88%**		**12%**		
13	13	Surface	Iron	2.89E+04	0.05			0.05	31.2%
13	13	Surface	Manganese	1.13E+03	0.06		0.02	0.07	46.4%
13	13	Surface	Molybdenum	2.73E+01	0.01			0.01	4.1%
13	13	Surface	Vanadium	1.19E+02	0.03		0.00	0.03	18.3%
13	**13**	**Surface**	**Totals**		**0.14**		**0.02**	**0.16**	
13	**13**	**Surface**	**Percent**		**88%**		**12%**		
13	14	Surface	Vanadium	1.22E+02	0.03		0.00	0.03	100.0%
13	**14**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
13	**14**	**Surface**	**Percent**		**97%**		**3%**		
15	1	Surface	Antimony	7.49E+01	0.22			0.22	42.0%
15	1	Surface	Arsenic	1.27E+01	0.05	0.09	0.00	0.14	26.7%
15	1	Surface	Cadmium	1.56E+01	0.02	0.05	0.00	0.07	12.2%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.05			0.05	9.5%
15	1	Surface	Nickel	1.32E+02	0.01		0.00	0.01	1.7%
15	1	Surface	Thallium	2.40E-01	0.03			0.03	5.4%
15	1	Surface	Uranium	3.26E+01	0.01		0.00	0.01	2.6%
15	**1**	**Surface**	**Totals**		**0.39**	**0.14**	**0.00**	**0.53**	
15	**1**	**Surface**	**Percent**		**74%**	**26%**	**1%**		
15	2	Surface	Antimony	9.83E+01	0.29			0.29	45.3%
15	2	Surface	Arsenic	1.63E+01	0.06	0.12	0.00	0.18	28.2%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.07			0.07	10.2%
15	2	Surface	Mercury	9.33E+00	0.04			0.04	5.7%
15	2	Surface	Nickel	1.97E+02	0.01		0.00	0.01	2.1%
15	2	Surface	Uranium	1.32E+02	0.05		0.00	0.06	8.5%
15	**2**	**Surface**	**Totals**		**0.53**	**0.12**	**0.01**	**0.65**	
15	**2**	**Surface**	**Percent**		**81%**	**18%**	**1%**		
15	3	Surface	Antimony	7.10E+01	0.21			0.21	16.8%
15	3	Surface	Arsenic	2.74E+01	0.11	0.20	0.00	0.31	24.4%
15	3	Surface	Cadmium	1.25E+01	0.01	0.04	0.00	0.05	4.1%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.14		0.00	0.14	11.1%
15	3	Surface	Copper	1.60E+03	0.05			0.05	3.8%
15	3	Surface	Iron	9.20E+04	0.16			0.16	12.5%
15	3	Surface	Manganese	1.60E+03	0.08		0.02	0.10	8.3%
15	3	Surface	Mercury	1.05E+01	0.04			0.04	3.3%
15	3	Surface	Nickel	8.38E+02	0.05		0.01	0.06	4.5%
15	3	Surface	Thallium	2.60E-01	0.03			0.03	2.5%
15	3	Surface	Uranium	2.16E+02	0.09		0.00	0.09	7.2%
15	3	Surface	Vanadium	7.31E+01	0.02		0.00	0.02	1.4%
15	**3**	**Surface**	**Totals**		**0.99**	**0.23**	**0.04**	**1.26**	
15	**3**	**Surface**	**Percent**		**78%**	**19%**	**3%**		
15	4	Surface	Antimony	7.63E+01	0.23			0.23	18.9%
15	4	Surface	Arsenic	3.37E+01	0.13	0.24	0.00	0.38	31.4%
15	4	Surface	Cadmium	1.86E+01	0.02	0.05	0.00	0.08	6.4%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.02			0.02	1.5%
15	4	Surface	Iron	6.90E+04	0.12			0.12	9.8%
15	4	Surface	Manganese	1.29E+03	0.06		0.02	0.08	7.0%
15	4	Surface	Mercury	3.04E+01	0.12			0.12	10.0%
15	4	Surface	Nickel	1.24E+03	0.07		0.01	0.09	7.0%
15	4	Surface	Thallium	1.85E-01	0.02			0.02	1.8%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Uranium	1.29E+02	0.05		0.00	0.05	4.5%
15	4	Surface	Vanadium	8.43E+01	0.02		0.00	0.02	1.7%
15	**4**	**Surface**	**Totals**		**0.88**	**0.30**	**0.04**	**1.21**	
15	**4**	**Surface**	**Percent**		**72%**	**25%**	**3%**		
15	5	Surface	Antimony	1.01E+02	0.30			0.30	38.8%
15	5	Surface	Arsenic	1.28E+01	0.05	0.09	0.00	0.14	18.5%
15	5	Surface	Cadmium	1.46E+01	0.02	0.04	0.00	0.06	7.8%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.17			0.17	21.6%
15	5	Surface	Nickel	3.53E+02	0.02		0.00	0.02	3.1%
15	5	Surface	Uranium	1.76E+02	0.07		0.00	0.07	9.4%
15	5	Surface	Zinc	1.52E+03	0.01			0.01	0.8%
15	**5**	**Surface**	**Totals**		**0.64**	**0.13**	**0.01**	**0.77**	
15	**5**	**Surface**	**Percent**		**82%**	**17%**	**1%**		
15	6	Surface	Antimony	8.85E+01	0.27			0.27	40.4%
15	6	Surface	Arsenic	1.24E+01	0.05	0.09	0.00	0.14	21.4%
15	6	Surface	Cadmium	1.64E+01	0.02	0.05	0.00	0.07	10.4%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.06		0.00	0.07	10.2%
15	6	Surface	Copper	4.23E+02	0.01			0.01	1.9%
15	6	Surface	Iron	3.29E+04	0.06			0.06	8.6%
15	6	Surface	Nickel	3.00E+02	0.02		0.00	0.02	3.1%
15	6	Surface	Uranium	6.30E+01	0.03		0.00	0.03	4.0%
15	**6**	**Surface**	**Totals**		**0.51**	**0.14**	**0.01**	**0.67**	
15	**6**	**Surface**	**Percent**		**78%**	**21%**	**1%**		
15	7	Surface	Antimony	1.37E+02	0.41			0.41	44.4%
15	7	Surface	Arsenic	1.61E+01	0.06	0.12	0.00	0.18	19.6%
15	7	Surface	Cadmium	1.80E+01	0.02	0.05	0.00	0.07	8.1%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.02			0.02	2.7%
15	7	Surface	Iron	3.42E+04	0.06			0.06	6.3%
15	7	Surface	Manganese	1.18E+03	0.06		0.02	0.08	8.4%
15	7	Surface	Nickel	5.59E+02	0.03		0.00	0.04	4.1%
15	7	Surface	Thallium	3.00E-01	0.04			0.04	3.9%
15	7	Surface	Uranium	5.39E+01	0.02		0.00	0.02	2.4%
15	**7**	**Surface**	**Totals**		**0.73**	**0.17**	**0.03**	**0.92**	
15	**7**	**Surface**	**Percent**		**79%**	**18%**	**3%**		
15	8	Surface	Antimony	7.42E+01	0.22			0.22	40.9%
15	8	Surface	Arsenic	1.17E+01	0.05	0.08	0.00	0.13	24.2%
15	8	Surface	Cadmium	1.68E+01	0.02	0.05	0.00	0.07	12.9%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.05			0.05	8.9%
15	8	Surface	Mercury	1.01E+01	0.04			0.04	7.4%
15	8	Surface	Nickel	1.82E+02	0.01		0.00	0.01	2.3%
15	8	Surface	Uranium	4.46E+01	0.02		0.00	0.02	3.4%
15	**8**	**Surface**	**Totals**		**0.41**	**0.13**	**0.00**	**0.54**	
15	**8**	**Surface**	**Percent**		**75%**	**24%**	**1%**		
15	9	Surface	Antimony	1.12E+02	0.34			0.34	53.7%
15	9	Surface	Arsenic	1.10E+01	0.04	0.08	0.00	0.12	20.0%
15	9	Surface	Cadmium	1.81E+01	0.02	0.05	0.00	0.08	12.1%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.05			0.05	7.6%
15	9	Surface	Nickel	1.49E+02	0.01		0.00	0.01	1.6%
15	9	Surface	Uranium	3.07E+01	0.01		0.00	0.01	2.1%
15	9	Surface	Vanadium	7.33E+01	0.02		0.00	0.02	2.9%
15	**9**	**Surface**	**Totals**		**0.49**	**0.13**	**0.00**	**0.63**	
15	**9**	**Surface**	**Percent**		**78%**	**21%**	**1%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	10	Surface	Antimony	1.25E+02	0.37			0.37	70.8%
15	10	Surface	Cadmium	1.67E+01	0.02	0.05	0.00	0.07	13.2%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.03			0.03	5.9%
15	10	Surface	Nickel	2.26E+02	0.01		0.00	0.02	2.9%
15	10	Surface	Uranium	9.02E+01	0.04		0.00	0.04	7.1%
15	**10**	**Surface**	**Totals**		**0.48**	**0.05**	**0.00**	**0.53**	
15	**10**	**Surface**	**Percent**		**90%**	**9%**	**1%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.05			0.05	14.0%
26	1	Surface	Uranium	6.28E+02	0.25		0.01	0.26	74.8%
26	1	Surface	Vanadium	1.61E+02	0.04		0.00	0.04	11.2%
26	**1**	**Surface**	**Totals**		**0.34**		**0.01**	**0.35**	
26	**1**	**Surface**	**Percent**		**96%**		**4%**		
26	2	Surface	Aluminum	2.61E+04	0.03		0.00	0.04	0.9%
26	2	Surface	Arsenic	4.23E+01	0.17	0.31	0.00	0.48	11.7%
26	2	Surface	Beryllium	1.13E+01	0.01		0.00	0.01	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	0.26		0.01	0.27	6.7%
26	2	Surface	Iron	5.20E+04	0.09			0.09	2.2%
26	2	Surface	Nickel	1.03E+02	0.01		0.00	0.01	0.2%
26	2	Surface	Thallium	2.38E+01	2.85			2.85	70.1%
26	2	Surface	Uranium	7.18E+02	0.29		0.01	0.30	7.4%
26	2	Surface	Vanadium	1.16E+02	0.03		0.00	0.03	0.7%
26	**2**	**Surface**	**Totals**		**3.73**	**0.31**	**0.03**	**4.08**	
26	**2**	**Surface**	**Percent**		**92%**	**8%**	**1%**		
26	3	Surface	Arsenic	7.56E+01	0.30	0.55	0.00	0.85	57.4%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.06			0.06	4.0%
26	3	Surface	Molybdenum	4.07E+01	0.01			0.01	0.7%
26	3	Surface	Thallium	3.68E+00	0.44			0.44	29.7%
26	3	Surface	Uranium	2.05E+02	0.08		0.00	0.09	5.8%
26	3	Surface	Vanadium	1.44E+02	0.03		0.00	0.04	2.4%
26	**3**	**Surface**	**Totals**		**0.93**	**0.55**	**0.01**	**1.49**	
26	**3**	**Surface**	**Percent**		**63%**	**37%**	**1%**		
26	4	Surface	Aluminum	1.11E+04	0.01		0.00	0.02	0.9%
26	4	Surface	Arsenic	6.01E+01	0.24	0.43	0.00	0.68	39.9%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.05			0.05	2.8%
26	4	Surface	Mercury	7.33E+01	0.29			0.29	17.2%
26	4	Surface	Molybdenum	3.49E+01	0.01			0.01	0.5%
26	4	Surface	Nickel	8.10E+01	0.00		0.00	0.01	0.3%
26	4	Surface	Uranium	1.47E+03	0.59		0.03	0.62	36.3%
26	4	Surface	Vanadium	1.42E+02	0.03		0.00	0.03	2.1%
26	**4**	**Surface**	**Totals**		**1.23**	**0.43**	**0.04**	**1.71**	
26	**4**	**Surface**	**Percent**		**72%**	**26%**	**2%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.09			0.09	21.2%
77	1	Surface	Uranium	6.66E+02	0.27		0.01	0.28	68.6%
77	1	Surface	Vanadium	1.68E+02	0.04		0.00	0.04	10.1%
77	**1**	**Surface**	**Totals**		**0.39**		**0.01**	**0.41**	
77	**1**	**Surface**	**Percent**		**97%**		**3%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.15		0.00	0.15	78.6%
80	1	Surface	Uranium	9.80E+01	0.04		0.00	0.04	21.4%
80	**1**	**Surface**	**Totals**		**0.19**		**0.00**	**0.19**	
80	**1**	**Surface**	**Percent**		**99%**		**1%**		
80	2	Surface	Antimony	5.82E+01	0.17			0.17	6.4%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.08		0.00	0.08	2.9%
80	2	Surface	Iron	3.52E+04	0.06			0.06	2.2%
80	2	Surface	Uranium	5.72E+03	2.29		0.11	2.40	87.4%
80	2	Surface	Vanadium	1.29E+02	0.03		0.00	0.03	1.2%
80	**2**	**Surface**	**Totals**		**2.63**		**0.11**	**2.74**	
80	**2**	**Surface**	**Percent**		**96%**		**4%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.05			0.05	29.0%
80	3	Surface	Manganese	9.46E+02	0.05		0.01	0.06	34.4%
80	3	Surface	Molybdenum	2.33E+01	0.01			0.01	3.1%
80	3	Surface	Uranium	7.32E+01	0.03		0.00	0.03	17.0%
80	3	Surface	Vanadium	1.21E+02	0.03		0.00	0.03	16.5%
80	**3**	**Surface**	**Totals**		**0.16**		**0.02**	**0.18**	
80	**3**	**Surface**	**Percent**		**91%**		**9%**		
204	1	Surface	Aluminum	1.18E+04	0.01		0.00	0.02	35.1%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.03		0.00	0.03	64.8%
204	**1**	**Surface**	**Totals**		**0.04**		**0.00**	**0.05**	
204	**1**	**Surface**	**Percent**		**94%**		**6%**		
204	2	Surface	Arsenic	4.59E+01	0.18	0.33	0.00	0.52	94.6%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.03		0.00	0.03	5.4%
204	**2**	**Surface**	**Totals**		**0.21**	**0.33**	**0.00**	**0.55**	
204	**2**	**Surface**	**Percent**		**39%**	**61%**	**1%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.01			0.01	30.2%
204	3	Surface	Vanadium	1.22E+02	0.03		0.00	0.03	69.8%
204	**3**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**3**	**Surface**	**Percent**		**98%**		**2%**		
204	4	Surface	Iron	2.92E+04	0.05			0.05	46.3%
204	4	Surface	Molybdenum	4.10E+01	0.01			0.01	9.1%
204	4	Surface	Silver	5.90E+01	0.01			0.01	13.1%
204	4	Surface	Vanadium	1.39E+02	0.03		0.00	0.03	31.6%
204	**4**	**Surface**	**Totals**		**0.11**		**0.00**	**0.10**	
204	**4**	**Surface**	**Percent**		**99%**		**1%**		
204	5	Surface	Arsenic	5.67E+01	0.23	0.41	0.00	0.64	95.6%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.03		0.00	0.03	4.4%
204	**5**	**Surface**	**Totals**		**0.26**	**0.41**	**0.00**	**0.67**	
204	**5**	**Surface**	**Percent**		**38%**	**61%**	**1%**		
204	6	Surface	Vanadium	1.25E+02	0.03		0.00	0.03	100.0%
204	**6**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**6**	**Surface**	**Percent**		**97%**		**3%**		
204	7	Surface	Iron	2.95E+04	0.05			0.05	24.2%
204	7	Surface	Manganese	1.94E+03	0.10		0.03	0.13	60.8%
204	7	Surface	Vanadium	1.27E+02	0.03		0.00	0.03	15.0%
204	**7**	**Surface**	**Totals**		**0.18**		**0.03**	**0.21**	
204	**7**	**Surface**	**Percent**		**85%**		**15%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.06		0.00	0.06	41.1%
204	8	Surface	Iron	2.94E+04	0.05			0.05	35.8%
204	8	Surface	Vanadium	1.32E+02	0.03		0.00	0.03	23.1%
204	**8**	**Surface**	**Totals**		**0.14**		**0.00**	**0.14**	
204	**8**	**Surface**	**Percent**		**98%**		**2%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.05			0.05	60.1%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	9	Surface	Vanadium	1.37E+02	0.03		0.00	0.03	39.9%
204	**9**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
204	**9**	**Surface**	**Percent**		**99%**		**1%**		
204	10	Surface	Antimony	1.20E+01	0.04			0.04	30.5%
204	10	Surface	Iron	3.08E+04	0.05			0.05	44.8%
204	10	Surface	Vanadium	1.19E+02	0.03		0.00	0.03	24.8%
204	**10**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
204	**10**	**Surface**	**Percent**		**99%**		**1%**		
204	11	Surface	Iron	3.05E+04	0.05			0.05	59.8%
204	11	Surface	Vanadium	1.43E+02	0.03		0.00	0.04	40.2%
204	**11**	**Surface**	**Totals**		**0.09**		**0.00**	**0.09**	
204	**11**	**Surface**	**Percent**		**99%**		**1%**		
204	12	Surface	Iron	2.86E+04	0.05			0.05	44.7%
204	12	Surface	Thallium	2.10E-01	0.03			0.03	23.0%
204	12	Surface	Vanadium	1.44E+02	0.03		0.00	0.04	32.3%
204	**12**	**Surface**	**Totals**		**0.11**		**0.00**	**0.12**	
204	**12**	**Surface**	**Percent**		**99%**		**1%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.03		0.00	0.04	100.0%
204	**13**	**Surface**	**Totals**		**0.03**		**0.00**	**0.04**	
204	**13**	**Surface**	**Percent**		**97%**		**3%**		
204	14	Surface	Arsenic	1.36E+02	0.54	0.98	0.01	1.53	91.3%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.05			0.05	3.2%
204	14	Surface	Uranium	1.34E+02	0.05		0.00	0.06	3.3%
204	14	Surface	Vanadium	1.43E+02	0.03		0.00	0.04	2.1%
204	**14**	**Surface**	**Totals**		**0.69**	**0.98**	**0.01**	**1.68**	
204	**14**	**Surface**	**Percent**		**41%**	**59%**	**1%**		
204	15	Surface	Iron	2.90E+04	0.05			0.05	64.2%
204	15	Surface	Vanadium	1.13E+02	0.03		0.00	0.03	35.8%
204	**15**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
204	**15**	**Surface**	**Percent**		**99%**		**1%**		
204	16	Surface	Iron	2.89E+04	0.05			0.05	62.3%
204	16	Surface	Vanadium	1.22E+02	0.03		0.00	0.03	37.7%
204	**16**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
204	**16**	**Surface**	**Percent**		**99%**		**1%**		
204	17	Surface	Iron	2.98E+04	0.05			0.05	63.0%
204	17	Surface	Vanadium	1.22E+02	0.03		0.00	0.03	37.0%
204	**17**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
204	**17**	**Surface**	**Percent**		**99%**		**1%**		
204	18	Surface	Iron	3.35E+04	0.06			0.06	41.0%
204	18	Surface	Uranium	1.09E+02	0.04		0.00	0.05	32.6%
204	18	Surface	Vanadium	1.51E+02	0.04		0.00	0.04	26.5%
204	**18**	**Surface**	**Totals**		**0.14**		**0.00**	**0.15**	
204	**18**	**Surface**	**Percent**		**98%**		**2%**		
204	19	Surface	Silver	5.50E+01	0.01			0.01	17.6%
204	19	Surface	Uranium	8.50E+01	0.03		0.00	0.04	47.6%
204	19	Surface	Vanadium	1.06E+02	0.03		0.00	0.03	34.8%
204	**19**	**Surface**	**Totals**		**0.07**		**0.00**	**0.08**	
204	**19**	**Surface**	**Percent**		**97%**		**3%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%
204	20	Surface	Uranium	1.31E+04	5.22		0.25	5.47	99.5%
204	20	Surface	Vanadium	1.14E+02	0.03		0.00	0.03	0.5%
204	**20**	**Surface**	**Totals**		**5.25**		**0.25**	**5.50**	
204	**20**	**Surface**	**Percent**		**95%**		**5%**		
204	21	Surface	Cobalt	1.80E+01	0.07		0.00	0.07	71.8%
204	21	Surface	Vanadium	1.19E+02	0.03		0.00	0.03	28.2%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.31. HIs for the Future Hypothetical Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	**21**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
204	**21**	**Surface**	**Percent**		**97%**		**3%**		
211	1	Surface	Antimony	6.52E+01	0.20			0.20	62.6%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.05			0.05	16.7%
211	1	Surface	Thallium	3.30E-01	0.04			0.04	12.7%
211	1	Surface	Vanadium	1.01E+02	0.02		0.00	0.02	7.9%
211	**1**	**Surface**	**Totals**		**0.31**		**0.00**	**0.31**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	0.32			0.32	94.9%
224	1	Surface	Uranium	4.15E+01	0.02		0.00	0.02	5.1%
224	**1**	**Surface**	**Totals**		**0.34**		**0.00**	**0.34**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.16			0.16	72.9%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.03			0.03	15.1%
225	1	Surface	Vanadium	1.09E+02	0.03		0.00	0.03	12.0%
225	**1**	**Surface**	**Totals**		**0.22**		**0.00**	**0.22**	
225	**1**	**Surface**	**Percent**		**100%**		**0%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.32. HIs for the Future Hypothetical Child Residential Receptor

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.08		0.00	0.08	100.0%
13	**1**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
13	**1**	**Surface**	**Percent**		**100%**		**0%**		
13	2	Surface	Iron	2.47E+04	0.45			0.45	33.2%
13	2	Surface	Manganese	1.22E+03	0.65		0.02	0.67	49.3%
13	2	Surface	Vanadium	9.38E+01	0.24		0.00	0.24	17.5%
13	**2**	**Surface**	**Totals**		**1.34**		**0.02**	**1.36**	
13	**2**	**Surface**	**Percent**		**99%**		**1%**		
13	3	Surface	Iron	2.63E+04	0.48			0.48	34.6%
13	3	Surface	Manganese	1.09E+03	0.58		0.02	0.60	43.2%
13	3	Surface	Molybdenum	2.19E+01	0.06			0.06	4.0%
13	3	Surface	Vanadium	9.88E+01	0.25		0.00	0.25	18.1%
13	**3**	**Surface**	**Totals**		**1.37**		**0.02**	**1.39**	
13	**3**	**Surface**	**Percent**		**99%**		**1%**		
13	4	Surface	Iron	2.75E+04	0.50			0.50	66.8%
13	4	Surface	Vanadium	9.81E+01	0.25		0.00	0.25	33.2%
13	**4**	**Surface**	**Totals**		**0.75**		**0.00**	**0.75**	
13	**4**	**Surface**	**Percent**		**100%**		**0%**		
13	5	Surface	Aluminum	9.83E+03	0.13		0.00	0.13	7.7%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.44			0.44	26.7%
13	5	Surface	Manganese	9.08E+02	0.48		0.01	0.50	30.1%
13	5	Surface	Uranium	7.41E+01	0.32		0.00	0.32	19.2%
13	5	Surface	Vanadium	1.06E+02	0.27		0.00	0.27	16.2%
13	**5**	**Surface**	**Totals**		**1.64**		**0.02**	**1.66**	
13	**5**	**Surface**	**Percent**		**99%**		**1%**		
13	6	Surface	Iron	3.09E+04	0.56			0.56	54.9%
13	6	Surface	Uranium	3.70E+01	0.16		0.00	0.16	15.4%
13	6	Surface	Vanadium	1.20E+02	0.30		0.00	0.31	29.7%
13	**6**	**Surface**	**Totals**		**1.03**		**0.00**	**1.03**	
13	**6**	**Surface**	**Percent**		**100%**		**0%**		
13	7	Surface	Iron	2.78E+04	0.51			0.51	39.4%
13	7	Surface	Silver	1.85E+02	0.47			0.47	36.6%
13	7	Surface	Vanadium	1.22E+02	0.31		0.00	0.31	24.0%
13	**7**	**Surface**	**Totals**		**1.29**		**0.00**	**1.29**	
13	**7**	**Surface**	**Percent**		**100%**		**0%**		
13	8	Surface	Iron	2.41E+04	0.44			0.44	33.7%
13	8	Surface	Manganese	1.12E+03	0.60		0.02	0.61	47.0%
13	8	Surface	Vanadium	9.97E+01	0.25		0.00	0.25	19.4%
13	**8**	**Surface**	**Totals**		**1.29**		**0.02**	**1.30**	
13	**8**	**Surface**	**Percent**		**99%**		**1%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.30		0.00	0.30	100.0%
13	**9**	**Surface**	**Totals**		**0.30**		**0.00**	**0.30**	
13	**9**	**Surface**	**Percent**		**100%**		**0%**		
13	10	Surface	Iron	3.80E+04	0.69			0.69	24.3%
13	10	Surface	Manganese	3.09E+03	1.65		0.05	1.69	59.3%
13	10	Surface	Silver	5.40E+01	0.14			0.14	4.8%
13	10	Surface	Vanadium	1.30E+02	0.33		0.00	0.33	11.6%
13	**10**	**Surface**	**Totals**		**2.81**		**0.05**	**2.85**	
13	**10**	**Surface**	**Percent**		**98%**		**2%**		
13	11	Surface	Silver	1.03E+02	0.26			0.26	47.6%
13	11	Surface	Vanadium	1.14E+02	0.29		0.00	0.29	52.4%
13	**11**	**Surface**	**Totals**		**0.55**		**0.00**	**0.55**	
13	**11**	**Surface**	**Percent**		**100%**		**0%**		
13	12	Surface	Iron	2.30E+04	0.42			0.42	24.9%
13	12	Surface	Manganese	1.35E+03	0.72		0.02	0.74	44.0%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.32. HIs for the Future Hypothetical Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Silver	8.88E+01	0.23			0.23	13.5%
13	12	Surface	Vanadium	1.16E+02	0.29		0.00	0.30	17.6%
13	**12**	**Surface**	**Totals**		**1.66**		**0.02**	**1.69**	
13	**12**	**Surface**	**Percent**		**99%**		**1%**		
13	13	Surface	Iron	2.89E+04	0.53			0.53	34.8%
13	13	Surface	Manganese	1.13E+03	0.60		0.02	0.62	40.7%
13	13	Surface	Molybdenum	2.73E+01	0.07			0.07	4.6%
13	13	Surface	Vanadium	1.19E+02	0.30		0.00	0.30	19.9%
13	**13**	**Surface**	**Totals**		**1.50**		**0.02**	**1.52**	
13	**13**	**Surface**	**Percent**		**99%**		**1%**		
13	14	Surface	Vanadium	1.22E+02	0.31		0.00	0.31	100.0%
13	**14**	**Surface**	**Totals**		**0.31**		**0.00**	**0.31**	
13	**14**	**Surface**	**Percent**		**100%**		**0%**		
15	1	Surface	Antimony	7.49E+01	2.39			2.39	52.8%
15	1	Surface	Arsenic	1.27E+01	0.54	0.22	0.00	0.76	16.7%
15	1	Surface	Cadmium	1.56E+01	0.20	0.11	0.00	0.31	6.8%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.54			0.54	11.9%
15	1	Surface	Nickel	1.32E+02	0.08		0.00	0.09	1.9%
15	1	Surface	Thallium	2.40E-01	0.31			0.31	6.8%
15	1	Surface	Uranium	3.26E+01	0.14		0.00	0.14	3.1%
15	**1**	**Surface**	**Totals**		**4.20**	**0.33**	**0.00**	**4.54**	
15	**1**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
15	2	Surface	Antimony	9.83E+01	3.14			3.14	53.1%
15	2	Surface	Arsenic	1.63E+01	0.69	0.28	0.00	0.97	16.5%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.71			0.71	12.0%
15	2	Surface	Mercury	9.33E+00	0.40			0.40	6.7%
15	2	Surface	Nickel	1.97E+02	0.13		0.00	0.13	2.2%
15	2	Surface	Uranium	1.32E+02	0.56		0.00	0.56	9.5%
15	**2**	**Surface**	**Totals**		**5.63**	**0.28**	**0.01**	**5.91**	
15	**2**	**Surface**	**Percent**		**95%**	**5%**	**0%**		
15	3	Surface	Antimony	7.10E+01	2.27			2.27	20.4%
15	3	Surface	Arsenic	2.74E+01	1.17	0.47	0.00	1.64	14.7%
15	3	Surface	Cadmium	1.25E+01	0.16	0.09	0.00	0.25	2.2%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	1.45		0.00	1.46	13.1%
15	3	Surface	Copper	1.60E+03	0.51			0.51	4.6%
15	3	Surface	Iron	9.20E+04	1.68			1.68	15.1%
15	3	Surface	Manganese	1.60E+03	0.85		0.02	0.88	7.9%
15	3	Surface	Mercury	1.05E+01	0.45			0.45	4.0%
15	3	Surface	Nickel	8.38E+02	0.54		0.01	0.54	4.9%
15	3	Surface	Thallium	2.60E-01	0.33			0.33	3.0%
15	3	Surface	Uranium	2.16E+02	0.92		0.00	0.92	8.3%
15	3	Surface	Vanadium	7.31E+01	0.19		0.00	0.19	1.7%
15	**3**	**Surface**	**Totals**		**10.52**	**0.56**	**0.04**	**11.12**	
15	**3**	**Surface**	**Percent**		**95%**	**5%**	**0%**		
15	4	Surface	Antimony	7.63E+01	2.44			2.44	24.2%
15	4	Surface	Arsenic	3.37E+01	1.44	0.58	0.00	2.02	20.0%
15	4	Surface	Cadmium	1.86E+01	0.24	0.13	0.00	0.37	3.6%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.19			0.19	1.9%
15	4	Surface	Iron	6.90E+04	1.26			1.26	12.5%
15	4	Surface	Manganese	1.29E+03	0.69		0.02	0.71	7.0%
15	4	Surface	Mercury	3.04E+01	1.29			1.29	12.8%
15	4	Surface	Nickel	1.24E+03	0.79		0.01	0.80	8.0%
15	4	Surface	Thallium	1.85E-01	0.24			0.24	2.3%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.32. HIs for the Future Hypothetical Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Uranium	1.29E+02	0.55		0.00	0.55	5.5%
15	4	Surface	Vanadium	8.43E+01	0.21		0.00	0.21	2.1%
15	**4**	**Surface**	**Totals**		**9.34**	**0.71**	**0.04**	**10.08**	
15	**4**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
15	5	Surface	Antimony	1.01E+02	3.23			3.23	45.3%
15	5	Surface	Arsenic	1.28E+01	0.55	0.22	0.00	0.77	10.7%
15	5	Surface	Cadmium	1.46E+01	0.19	0.10	0.00	0.29	4.0%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	1.80			1.80	25.2%
15	5	Surface	Nickel	3.53E+02	0.23		0.00	0.23	3.2%
15	5	Surface	Uranium	1.76E+02	0.75		0.00	0.75	10.5%
15	5	Surface	Zinc	1.52E+03	0.06			0.06	0.9%
15	**5**	**Surface**	**Totals**		**6.81**	**0.32**	**0.01**	**7.13**	
15	**5**	**Surface**	**Percent**		**95%**	**4%**	**0%**		
15	6	Surface	Antimony	8.85E+01	2.83			2.83	48.9%
15	6	Surface	Arsenic	1.24E+01	0.53	0.21	0.00	0.74	12.9%
15	6	Surface	Cadmium	1.64E+01	0.21	0.11	0.00	0.32	5.6%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.69		0.00	0.69	12.0%
15	6	Surface	Copper	4.23E+02	0.14			0.14	2.3%
15	6	Surface	Iron	3.29E+04	0.60			0.60	10.4%
15	6	Surface	Nickel	3.00E+02	0.19		0.00	0.19	3.4%
15	6	Surface	Uranium	6.30E+01	0.27		0.00	0.27	4.7%
15	**6**	**Surface**	**Totals**		**5.45**	**0.33**	**0.01**	**5.78**	
15	**6**	**Surface**	**Percent**		**94%**	**6%**	**0%**		
15	7	Surface	Antimony	1.37E+02	4.39			4.39	53.4%
15	7	Surface	Arsenic	1.61E+01	0.69	0.28	0.00	0.96	11.7%
15	7	Surface	Cadmium	1.80E+01	0.23	0.12	0.00	0.36	4.3%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.26			0.26	3.2%
15	7	Surface	Iron	3.42E+04	0.62			0.62	7.6%
15	7	Surface	Manganese	1.18E+03	0.63		0.02	0.65	7.9%
15	7	Surface	Nickel	5.59E+02	0.36		0.00	0.36	4.4%
15	7	Surface	Thallium	3.00E-01	0.38			0.38	4.7%
15	7	Surface	Uranium	5.39E+01	0.23		0.00	0.23	2.8%
15	**7**	**Surface**	**Totals**		**7.79**	**0.40**	**0.03**	**8.21**	
15	**7**	**Surface**	**Percent**		**95%**	**5%**	**0%**		
15	8	Surface	Antimony	7.42E+01	2.37			2.37	50.9%
15	8	Surface	Arsenic	1.17E+01	0.50	0.20	0.00	0.70	15.0%
15	8	Surface	Cadmium	1.68E+01	0.22	0.12	0.00	0.33	7.1%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.52			0.52	11.1%
15	8	Surface	Mercury	1.01E+01	0.43			0.43	9.2%
15	8	Surface	Nickel	1.82E+02	0.12		0.00	0.12	2.5%
15	8	Surface	Uranium	4.46E+01	0.19		0.00	0.19	4.1%
15	**8**	**Surface**	**Totals**		**4.33**	**0.32**	**0.00**	**4.66**	
15	**8**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
15	9	Surface	Antimony	1.12E+02	3.57			3.57	64.8%
15	9	Surface	Arsenic	1.10E+01	0.47	0.19	0.00	0.66	12.0%
15	9	Surface	Cadmium	1.81E+01	0.23	0.12	0.00	0.36	6.5%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.50			0.50	9.1%
15	9	Surface	Nickel	1.49E+02	0.10		0.00	0.10	1.8%
15	9	Surface	Uranium	3.07E+01	0.13		0.00	0.13	2.4%
15	9	Surface	Vanadium	7.33E+01	0.19		0.00	0.19	3.4%
15	**9**	**Surface**	**Totals**		**5.19**	**0.31**	**0.00**	**5.51**	
15	**9**	**Surface**	**Percent**		**94%**	**6%**	**0%**		

SWMU = solid waste management unit
EU = exposure unit
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EPC = exposure point concentration
HI = hazard index

Table D.32. HIs for the Future Hypothetical Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	10	Surface	Antimony	1.25E+02	3.99			3.99	76.9%
15	10	Surface	Cadmium	1.67E+01	0.21	0.11	0.00	0.33	6.4%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.33			0.33	6.4%
15	10	Surface	Nickel	2.26E+02	0.14		0.00	0.15	2.8%
15	10	Surface	Uranium	9.02E+01	0.38		0.00	0.39	7.4%
15	**10**	**Surface**	**Totals**		**5.07**	**0.11**	**0.00**	**5.19**	
15	**10**	**Surface**	**Percent**		**98%**	**2%**	**0%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.53			0.53	14.5%
26	1	Surface	Uranium	6.28E+02	2.68		0.01	2.69	74.2%
26	1	Surface	Vanadium	1.61E+02	0.41		0.00	0.41	11.3%
26	**1**	**Surface**	**Totals**		**3.61**		**0.01**	**3.63**	
26	**1**	**Surface**	**Percent**		**100%**		**0%**		
26	2	Surface	Aluminum	2.61E+04	0.33		0.00	0.34	0.8%
26	2	Surface	Arsenic	4.23E+01	1.80	0.73	0.00	2.53	6.2%
26	2	Surface	Beryllium	1.13E+01	0.07		0.00	0.07	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	2.81		0.01	2.82	6.9%
26	2	Surface	Iron	5.20E+04	0.95			0.95	2.3%
26	2	Surface	Nickel	1.03E+02	0.07		0.00	0.07	0.2%
26	2	Surface	Thallium	2.38E+01	30.39			30.39	75.0%
26	2	Surface	Uranium	7.18E+02	3.06		0.01	3.07	7.6%
26	2	Surface	Vanadium	1.16E+02	0.29		0.00	0.29	0.7%
26	**2**	**Surface**	**Totals**		**39.77**	**0.73**	**0.03**	**40.53**	
26	**2**	**Surface**	**Percent**		**98%**	**2%**	**0%**		
26	3	Surface	Arsenic	7.56E+01	3.22	1.30	0.00	4.52	40.4%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.63			0.63	5.6%
26	3	Surface	Molybdenum	4.07E+01	0.10			0.10	0.9%
26	3	Surface	Thallium	3.68E+00	4.71			4.71	42.0%
26	3	Surface	Uranium	2.05E+02	0.87		0.00	0.88	7.8%
26	3	Surface	Vanadium	1.44E+02	0.36		0.00	0.37	3.3%
26	**3**	**Surface**	**Totals**		**9.90**	**1.30**	**0.01**	**11.21**	
26	**3**	**Surface**	**Percent**		**88%**	**12%**	**0%**		
26	4	Surface	Aluminum	1.11E+04	0.14		0.00	0.14	1.0%
26	4	Surface	Arsenic	6.01E+01	2.56	1.03	0.00	3.60	25.4%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.51			0.51	3.6%
26	4	Surface	Mercury	7.33E+01	3.12			3.12	22.0%
26	4	Surface	Molybdenum	3.49E+01	0.09			0.09	0.6%
26	4	Surface	Nickel	8.10E+01	0.05		0.00	0.05	0.4%
26	4	Surface	Uranium	1.47E+03	6.27		0.03	6.30	44.4%
26	4	Surface	Vanadium	1.42E+02	0.36		0.00	0.36	2.5%
26	**4**	**Surface**	**Totals**		**13.12**	**1.03**	**0.04**	**14.17**	
26	**4**	**Surface**	**Percent**		**92%**	**7%**	**0%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.92			0.92	21.9%
77	1	Surface	Uranium	6.66E+02	2.84		0.01	2.85	67.9%
77	1	Surface	Vanadium	1.68E+02	0.43		0.00	0.43	10.2%
77	**1**	**Surface**	**Totals**		**4.18**		**0.01**	**4.20**	
77	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	1.61		0.00	1.61	79.3%
80	1	Surface	Uranium	9.80E+01	0.42		0.00	0.42	20.7%
80	**1**	**Surface**	**Totals**		**2.03**		**0.00**	**2.03**	
80	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	2	Surface	Antimony	5.82E+01	1.86			1.86	6.6%

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Table D.32. HIs for the Future Hypothetical Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.81		0.00	0.81	2.9%
80	2	Surface	Iron	3.52E+04	0.64			0.64	2.3%
80	2	Surface	Uranium	5.72E+03	24.39		0.11	24.51	87.1%
80	2	Surface	Vanadium	1.29E+02	0.33		0.00	0.33	1.2%
80	**2**	**Surface**	**Totals**		**28.03**		**0.11**	**28.15**	
80	**2**	**Surface**	**Percent**		**100%**		**0%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.56			0.56	31.7%
80	3	Surface	Manganese	9.46E+02	0.50		0.01	0.52	29.5%
80	3	Surface	Molybdenum	2.33E+01	0.06			0.06	3.4%
80	3	Surface	Uranium	7.32E+01	0.31		0.00	0.31	17.8%
80	3	Surface	Vanadium	1.21E+02	0.31		0.00	0.31	17.5%
80	**3**	**Surface**	**Totals**		**1.74**		**0.02**	**1.76**	
80	**3**	**Surface**	**Percent**		**99%**		**1%**		
204	1	Surface	Aluminum	1.18E+04	0.15		0.00	0.15	33.3%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.30		0.00	0.31	66.7%
204	**1**	**Surface**	**Totals**		**0.45**		**0.00**	**0.46**	
204	**1**	**Surface**	**Percent**		**99%**		**1%**		
204	2	Surface	Arsenic	4.59E+01	1.96	0.79	0.00	2.75	90.0%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.30		0.00	0.31	10.0%
204	**2**	**Surface**	**Totals**		**2.26**	**0.79**	**0.00**	**3.06**	
204	**2**	**Surface**	**Percent**		**74%**	**26%**	**0%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.14			0.14	30.8%
204	3	Surface	Vanadium	1.22E+02	0.31		0.00	0.31	69.2%
204	**3**	**Surface**	**Totals**		**0.45**		**0.00**	**0.45**	
204	**3**	**Surface**	**Percent**		**100%**		**0%**		
204	4	Surface	Iron	2.92E+04	0.53			0.53	46.7%
204	4	Surface	Molybdenum	4.10E+01	0.10			0.10	9.2%
204	4	Surface	Silver	5.90E+01	0.15			0.15	13.2%
204	4	Surface	Vanadium	1.39E+02	0.35		0.00	0.35	30.9%
204	**4**	**Surface**	**Totals**		**1.14**		**0.00**	**1.13**	
204	**4**	**Surface**	**Percent**		**100%**		**0%**		
204	5	Surface	Arsenic	5.67E+01	2.42	0.98	0.00	3.40	91.7%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.31		0.00	0.31	8.3%
204	**5**	**Surface**	**Totals**		**2.73**	**0.98**	**0.00**	**3.71**	
204	**5**	**Surface**	**Percent**		**74%**	**26%**	**0%**		
204	6	Surface	Vanadium	1.25E+02	0.32		0.00	0.32	100.0%
204	**6**	**Surface**	**Totals**		**0.32**		**0.00**	**0.32**	
204	**6**	**Surface**	**Percent**		**100%**		**0%**		
204	7	Surface	Iron	2.95E+04	0.54			0.54	28.0%
204	7	Surface	Manganese	1.94E+03	1.03		0.03	1.06	55.2%
204	7	Surface	Vanadium	1.27E+02	0.32		0.00	0.32	16.8%
204	**7**	**Surface**	**Totals**		**1.89**		**0.03**	**1.92**	
204	**7**	**Surface**	**Percent**		**98%**		**2%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.60		0.00	0.60	40.7%
204	8	Surface	Iron	2.94E+04	0.54			0.54	36.5%
204	8	Surface	Vanadium	1.32E+02	0.33		0.00	0.34	22.8%
204	**8**	**Surface**	**Totals**		**1.47**		**0.00**	**1.48**	
204	**8**	**Surface**	**Percent**		**100%**		**0%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.54			0.54	60.8%

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Table D.32. HIs for the Future Hypothetical Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	9	Surface	Vanadium	1.37E+02	0.35		0.00	0.35	39.2%
204	**9**	**Surface**	**Totals**		**0.89**		**0.00**	**0.89**	
204	**9**	**Surface**	**Percent**		**100%**		**0%**		
204	10	Surface	Antimony	1.20E+01	0.38			0.38	30.7%
204	10	Surface	Iron	3.08E+04	0.56			0.56	45.1%
204	10	Surface	Vanadium	1.19E+02	0.30		0.00	0.30	24.2%
204	**10**	**Surface**	**Totals**		**1.25**		**0.00**	**1.24**	
204	**10**	**Surface**	**Percent**		**100%**		**0%**		
204	11	Surface	Iron	3.05E+04	0.56			0.56	60.5%
204	11	Surface	Vanadium	1.43E+02	0.36		0.00	0.36	39.5%
204	**11**	**Surface**	**Totals**		**0.92**		**0.00**	**0.92**	
204	**11**	**Surface**	**Percent**		**100%**		**0%**		
204	12	Surface	Iron	2.86E+04	0.52			0.52	45.1%
204	12	Surface	Thallium	2.10E-01	0.27			0.27	23.2%
204	12	Surface	Vanadium	1.44E+02	0.37		0.00	0.37	31.7%
204	**12**	**Surface**	**Totals**		**1.16**		**0.00**	**1.16**	
204	**12**	**Surface**	**Percent**		**100%**		**0%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.37		0.00	0.37	100.0%
204	**13**	**Surface**	**Totals**		**0.37**		**0.00**	**0.37**	
204	**13**	**Surface**	**Percent**		**100%**		**0%**		
204	14	Surface	Arsenic	1.36E+02	5.80	2.34	0.01	8.14	84.3%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.58			0.58	6.0%
204	14	Surface	Uranium	1.34E+02	0.57		0.00	0.57	5.9%
204	14	Surface	Vanadium	1.43E+02	0.36		0.00	0.36	3.8%
204	**14**	**Surface**	**Totals**		**7.31**	**2.34**	**0.01**	**9.65**	
204	**14**	**Surface**	**Percent**		**76%**	**24%**	**0%**		
204	15	Surface	Iron	2.90E+04	0.53			0.53	64.8%
204	15	Surface	Vanadium	1.13E+02	0.29		0.00	0.29	35.2%
204	**15**	**Surface**	**Totals**		**0.82**		**0.00**	**0.82**	
204	**15**	**Surface**	**Percent**		**100%**		**0%**		
204	16	Surface	Iron	2.89E+04	0.53			0.53	63.0%
204	16	Surface	Vanadium	1.22E+02	0.31		0.00	0.31	37.0%
204	**16**	**Surface**	**Totals**		**0.84**		**0.00**	**0.84**	
204	**16**	**Surface**	**Percent**		**100%**		**0%**		
204	17	Surface	Iron	2.98E+04	0.54			0.54	63.7%
204	17	Surface	Vanadium	1.22E+02	0.31		0.00	0.31	36.3%
204	**17**	**Surface**	**Totals**		**0.85**		**0.00**	**0.85**	
204	**17**	**Surface**	**Percent**		**100%**		**0%**		
204	18	Surface	Iron	3.35E+04	0.61			0.61	41.9%
204	18	Surface	Uranium	1.09E+02	0.46		0.00	0.47	31.9%
204	18	Surface	Vanadium	1.51E+02	0.38		0.00	0.38	26.3%
204	**18**	**Surface**	**Totals**		**1.46**		**0.00**	**1.46**	
204	**18**	**Surface**	**Percent**		**100%**		**0%**		
204	19	Surface	Silver	5.50E+01	0.14			0.14	18.2%
204	19	Surface	Uranium	8.50E+01	0.36		0.00	0.36	47.0%
204	19	Surface	Vanadium	1.06E+02	0.27		0.00	0.27	34.8%
204	**19**	**Surface**	**Totals**		**0.77**		**0.00**	**0.77**	
204	**19**	**Surface**	**Percent**		**100%**		**0%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%
204	20	Surface	Uranium	1.31E+04	55.70		0.25	55.95	99.5%
204	20	Surface	Vanadium	1.14E+02	0.29		0.00	0.29	0.5%
204	**20**	**Surface**	**Totals**		**55.99**		**0.25**	**56.24**	
204	**20**	**Surface**	**Percent**		**100%**		**0%**		
204	21	Surface	Cobalt	1.80E+01	0.77		0.00	0.77	71.8%
204	21	Surface	Vanadium	1.19E+02	0.30		0.00	0.30	28.2%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.32. HIs for the Future Hypothetical Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	**21**	**Surface**	**Totals**		**1.07**		**0.00**	**1.07**	
204	**21**	**Surface**	**Percent**		**100%**		**0%**		
211	1	Surface	Antimony	6.52E+01	2.08			2.08	62.8%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.56			0.56	16.8%
211	1	Surface	Thallium	3.30E-01	0.42			0.42	12.7%
211	1	Surface	Vanadium	1.01E+02	0.26		0.00	0.26	7.7%
211	**1**	**Surface**	**Totals**		**3.32**		**0.00**	**3.32**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	3.45			3.45	95.1%
224	1	Surface	Uranium	4.15E+01	0.18		0.00	0.18	4.9%
224	**1**	**Surface**	**Totals**		**3.63**		**0.00**	**3.63**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	1.73			1.73	73.1%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.36			0.36	15.1%
225	1	Surface	Vanadium	1.09E+02	0.28		0.00	0.28	11.7%
225	**1**	**Surface**	**Totals**		**2.36**		**0.00**	**2.37**	
225	**1**	**Surface**	**Percent**		**100%**		**0%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.00		0.00	0.00	100.0%
13	**1**	**Surface**	**Totals**		**0.00**		**0.00**	**0.00**	
13	**1**	**Surface**	**Percent**		**99%**		**1%**		
13	2	Surface	Iron	2.47E+04	0.01			0.01	32.3%
13	2	Surface	Manganese	1.22E+03	0.02		0.00	0.02	50.6%
13	2	Surface	Vanadium	9.38E+01	0.01		0.00	0.01	17.2%
13	**2**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
13	**2**	**Surface**	**Percent**		**96%**		**4%**		
13	3	Surface	Iron	2.63E+04	0.01			0.01	33.8%
13	3	Surface	Manganese	1.09E+03	0.02		0.00	0.02	44.5%
13	3	Surface	Molybdenum	2.19E+01	0.00			0.00	3.9%
13	3	Surface	Vanadium	9.88E+01	0.01		0.00	0.01	17.8%
13	**3**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
13	**3**	**Surface**	**Percent**		**96%**		**4%**		
13	4	Surface	Iron	2.75E+04	0.01			0.01	66.6%
13	4	Surface	Vanadium	9.81E+01	0.01		0.00	0.01	33.4%
13	**4**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
13	**4**	**Surface**	**Percent**		**100%**		**0%**		
13	5	Surface	Aluminum	9.83E+03	0.00		0.00	0.00	7.7%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.01			0.01	26.2%
13	5	Surface	Manganese	9.08E+02	0.01		0.00	0.01	31.1%
13	5	Surface	Uranium	7.41E+01	0.01		0.00	0.01	19.0%
13	5	Surface	Vanadium	1.06E+02	0.01		0.00	0.01	16.0%
13	**5**	**Surface**	**Totals**		**0.05**		**0.00**	**0.04**	
13	**5**	**Surface**	**Percent**		**97%**		**3%**		
13	6	Surface	Iron	3.09E+04	0.02			0.02	54.7%
13	6	Surface	Uranium	3.70E+01	0.00		0.00	0.00	15.5%
13	6	Surface	Vanadium	1.20E+02	0.01		0.00	0.01	29.8%
13	**6**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
13	**6**	**Surface**	**Percent**		**100%**		**0%**		
13	7	Surface	Iron	2.78E+04	0.01			0.01	39.4%
13	7	Surface	Silver	1.85E+02	0.01			0.01	36.5%
13	7	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	24.1%
13	**7**	**Surface**	**Totals**		**0.04**		**0.00**	**0.03**	
13	**7**	**Surface**	**Percent**		**100%**		**0%**		
13	8	Surface	Iron	2.41E+04	0.01			0.01	32.8%
13	8	Surface	Manganese	1.12E+03	0.02		0.00	0.02	48.2%
13	8	Surface	Vanadium	9.97E+01	0.01		0.00	0.01	19.0%
13	**8**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
13	**8**	**Surface**	**Percent**		**96%**		**4%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.01		0.00	0.01	100.0%
13	**9**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
13	**9**	**Surface**	**Percent**		**99%**		**1%**		
13	10	Surface	Iron	3.80E+04	0.02			0.02	23.5%
13	10	Surface	Manganese	3.09E+03	0.05		0.00	0.05	60.5%
13	10	Surface	Silver	5.40E+01	0.00			0.00	4.7%
13	10	Surface	Vanadium	1.30E+02	0.01		0.00	0.01	11.3%
13	**10**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
13	**10**	**Surface**	**Percent**		**95%**		**5%**		
13	11	Surface	Silver	1.03E+02	0.01			0.01	47.5%
13	11	Surface	Vanadium	1.14E+02	0.01		0.00	0.01	52.5%
13	**11**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
13	**11**	**Surface**	**Percent**		**100%**		**0%**		
13	12	Surface	Iron	2.30E+04	0.01			0.01	24.3%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Manganese	1.35E+03	0.02		0.00	0.02	45.3%
13	12	Surface	Silver	8.88E+01	0.01			0.01	13.1%
13	12	Surface	Vanadium	1.16E+02	0.01		0.00	0.01	17.2%
13	**12**	**Surface**	**Totals**		**0.05**		**0.00**	**0.05**	
13	**12**	**Surface**	**Percent**		**96%**		**4%**		
13	13	Surface	Iron	2.89E+04	0.01			0.01	34.0%
13	13	Surface	Manganese	1.13E+03	0.02		0.00	0.02	42.0%
13	13	Surface	Molybdenum	2.73E+01	0.00			0.00	4.5%
13	13	Surface	Vanadium	1.19E+02	0.01		0.00	0.01	19.5%
13	**13**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
13	**13**	**Surface**	**Percent**		**97%**		**3%**		
13	14	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	100.0%
13	**14**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
13	**14**	**Surface**	**Percent**		**99%**		**1%**		
15	1	Surface	Antimony	7.49E+01	0.07			0.07	42.2%
15	1	Surface	Arsenic	1.27E+01	0.02	0.03	0.00	0.04	26.8%
15	1	Surface	Cadmium	1.56E+01	0.01	0.01	0.00	0.02	12.1%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.02			0.02	9.5%
15	1	Surface	Nickel	1.32E+02	0.00		0.00	0.00	1.5%
15	1	Surface	Thallium	2.40E-01	0.01			0.01	5.4%
15	1	Surface	Uranium	3.26E+01	0.00		0.00	0.00	2.5%
15	**1**	**Surface**	**Totals**		**0.12**	**0.04**	**0.00**	**0.16**	
15	**1**	**Surface**	**Percent**		**74%**	**26%**	**0%**		
15	2	Surface	Antimony	9.83E+01	0.09			0.09	45.5%
15	2	Surface	Arsenic	1.63E+01	0.02	0.03	0.00	0.05	28.3%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.02			0.02	10.3%
15	2	Surface	Mercury	9.33E+00	0.01			0.01	5.8%
15	2	Surface	Nickel	1.97E+02	0.00		0.00	0.00	1.9%
15	2	Surface	Uranium	1.32E+02	0.02		0.00	0.02	8.2%
15	**2**	**Surface**	**Totals**		**0.16**	**0.03**	**0.00**	**0.19**	
15	**2**	**Surface**	**Percent**		**82%**	**18%**	**0%**		
15	3	Surface	Antimony	7.10E+01	0.06			0.06	17.3%
15	3	Surface	Arsenic	2.74E+01	0.03	0.06	0.00	0.09	25.0%
15	3	Surface	Cadmium	1.25E+01	0.00	0.01	0.00	0.02	4.2%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.04		0.00	0.04	11.2%
15	3	Surface	Copper	1.60E+03	0.01			0.01	3.9%
15	3	Surface	Iron	9.20E+04	0.05			0.05	12.8%
15	3	Surface	Manganese	1.60E+03	0.02		0.00	0.03	7.1%
15	3	Surface	Mercury	1.05E+01	0.01			0.01	3.4%
15	3	Surface	Nickel	8.38E+02	0.01		0.00	0.02	4.2%
15	3	Surface	Thallium	2.60E-01	0.01			0.01	2.5%
15	3	Surface	Uranium	2.16E+02	0.03		0.00	0.03	7.1%
15	3	Surface	Vanadium	7.31E+01	0.01		0.00	0.01	1.4%
15	**3**	**Surface**	**Totals**		**0.29**	**0.07**	**0.00**	**0.38**	
15	**3**	**Surface**	**Percent**		**80%**	**19%**	**1%**		
15	4	Surface	Antimony	7.63E+01	0.07			0.07	19.3%
15	4	Surface	Arsenic	3.37E+01	0.04	0.07	0.00	0.11	32.0%
15	4	Surface	Cadmium	1.86E+01	0.01	0.02	0.00	0.02	6.5%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.01			0.01	1.5%
15	4	Surface	Iron	6.90E+04	0.04			0.04	10.0%
15	4	Surface	Manganese	1.29E+03	0.02		0.00	0.02	5.9%
15	4	Surface	Mercury	3.04E+01	0.04			0.04	10.3%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.24E+03	0.02		0.00	0.02	6.5%
15	4	Surface	Thallium	1.85E-01	0.01			0.01	1.9%
15	4	Surface	Uranium	1.29E+02	0.02		0.00	0.02	4.4%
15	4	Surface	Vanadium	8.43E+01	0.01		0.00	0.01	1.7%
15	**4**	**Surface**	**Totals**		**0.26**	**0.09**	**0.00**	**0.37**	
15	**4**	**Surface**	**Percent**		**74%**	**25%**	**1%**		
15	5	Surface	Antimony	1.01E+02	0.09			0.09	39.1%
15	5	Surface	Arsenic	1.28E+01	0.02	0.03	0.00	0.04	18.6%
15	5	Surface	Cadmium	1.46E+01	0.01	0.01	0.00	0.02	7.7%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.05			0.05	21.8%
15	5	Surface	Nickel	3.53E+02	0.01		0.00	0.01	2.8%
15	5	Surface	Uranium	1.76E+02	0.02		0.00	0.02	9.2%
15	5	Surface	Zinc	1.52E+03	0.00			0.00	0.8%
15	**5**	**Surface**	**Totals**		**0.19**	**0.04**	**0.00**	**0.23**	
15	**5**	**Surface**	**Percent**		**82%**	**17%**	**0%**		
15	6	Surface	Antimony	8.85E+01	0.08			0.08	40.7%
15	6	Surface	Arsenic	1.24E+01	0.01	0.03	0.00	0.04	21.5%
15	6	Surface	Cadmium	1.64E+01	0.01	0.01	0.00	0.02	10.3%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.02		0.00	0.02	10.0%
15	6	Surface	Copper	4.23E+02	0.00			0.00	1.9%
15	6	Surface	Iron	3.29E+04	0.02			0.02	8.7%
15	6	Surface	Nickel	3.00E+02	0.01		0.00	0.01	2.9%
15	6	Surface	Uranium	6.30E+01	0.01		0.00	0.01	3.9%
15	**6**	**Surface**	**Totals**		**0.15**	**0.04**	**0.00**	**0.20**	
15	**6**	**Surface**	**Percent**		**79%**	**21%**	**0%**		
15	7	Surface	Antimony	1.37E+02	0.12			0.12	45.4%
15	7	Surface	Arsenic	1.61E+01	0.02	0.03	0.00	0.05	19.9%
15	7	Surface	Cadmium	1.80E+01	0.01	0.02	0.00	0.02	8.2%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.01			0.01	2.7%
15	7	Surface	Iron	3.42E+04	0.02			0.02	6.5%
15	7	Surface	Manganese	1.18E+03	0.02		0.00	0.02	7.1%
15	7	Surface	Nickel	5.59E+02	0.01		0.00	0.01	3.8%
15	7	Surface	Thallium	3.00E-01	0.01			0.01	4.0%
15	7	Surface	Uranium	5.39E+01	0.01		0.00	0.01	2.4%
15	**7**	**Surface**	**Totals**		**0.22**	**0.05**	**0.00**	**0.27**	
15	**7**	**Surface**	**Percent**		**81%**	**19%**	**1%**		
15	8	Surface	Antimony	7.42E+01	0.07			0.07	41.1%
15	8	Surface	Arsenic	1.17E+01	0.01	0.03	0.00	0.04	24.2%
15	8	Surface	Cadmium	1.68E+01	0.01	0.01	0.00	0.02	12.8%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.01			0.01	9.0%
15	8	Surface	Mercury	1.01E+01	0.01			0.01	7.4%
15	8	Surface	Nickel	1.82E+02	0.00		0.00	0.00	2.1%
15	8	Surface	Uranium	4.46E+01	0.01		0.00	0.01	3.3%
15	**8**	**Surface**	**Totals**		**0.12**	**0.04**	**0.00**	**0.16**	
15	**8**	**Surface**	**Percent**		**75%**	**25%**	**0%**		
15	9	Surface	Antimony	1.12E+02	0.10			0.10	54.0%
15	9	Surface	Arsenic	1.10E+01	0.01	0.02	0.00	0.04	20.0%
15	9	Surface	Cadmium	1.81E+01	0.01	0.02	0.00	0.02	12.0%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.01			0.01	7.6%
15	9	Surface	Nickel	1.49E+02	0.00		0.00	0.00	1.5%
15	9	Surface	Uranium	3.07E+01	0.00		0.00	0.00	2.0%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	9	Surface	Vanadium	7.33E+01	0.01		0.00	0.01	2.8%
15	**9**	**Surface**	**Totals**		**0.14**	**0.04**	**0.00**	**0.18**	
15	**9**	**Surface**	**Percent**		**78%**	**21%**	**0%**		
15	10	Surface	Antimony	1.25E+02	0.11			0.11	71.3%
15	10	Surface	Cadmium	1.67E+01	0.01	0.01	0.00	0.02	13.1%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.01			0.01	6.0%
15	10	Surface	Nickel	2.26E+02	0.00		0.00	0.00	2.7%
15	10	Surface	Uranium	9.02E+01	0.01		0.00	0.01	7.0%
15	**10**	**Surface**	**Totals**		**0.14**	**0.01**	**0.00**	**0.15**	
15	**10**	**Surface**	**Percent**		**91%**	**9%**	**0%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.01			0.01	14.4%
26	1	Surface	Uranium	6.28E+02	0.07		0.00	0.08	74.3%
26	1	Surface	Vanadium	1.61E+02	0.01		0.00	0.01	11.3%
26	**1**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
26	**1**	**Surface**	**Percent**		**99%**		**1%**		
26	2	Surface	Aluminum	2.61E+04	0.01		0.00	0.01	0.8%
26	2	Surface	Arsenic	4.23E+01	0.05	0.09	0.00	0.14	11.8%
26	2	Surface	Beryllium	1.13E+01	0.00		0.00	0.00	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	0.08		0.00	0.08	6.6%
26	2	Surface	Iron	5.20E+04	0.03			0.03	2.2%
26	2	Surface	Nickel	1.03E+02	0.00		0.00	0.00	0.2%
26	2	Surface	Thallium	2.38E+01	0.85			0.85	70.5%
26	2	Surface	Uranium	7.18E+02	0.09		0.00	0.09	7.2%
26	2	Surface	Vanadium	1.16E+02	0.01		0.00	0.01	0.7%
26	**2**	**Surface**	**Totals**		**1.11**	**0.09**	**0.00**	**1.21**	
26	**2**	**Surface**	**Percent**		**92%**	**8%**	**0%**		
26	3	Surface	Arsenic	7.56E+01	0.09	0.16	0.00	0.25	57.5%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.02			0.02	4.0%
26	3	Surface	Molybdenum	4.07E+01	0.00			0.00	0.7%
26	3	Surface	Thallium	3.68E+00	0.13			0.13	29.9%
26	3	Surface	Uranium	2.05E+02	0.02		0.00	0.02	5.6%
26	3	Surface	Vanadium	1.44E+02	0.01		0.00	0.01	2.3%
26	**3**	**Surface**	**Totals**		**0.28**	**0.16**	**0.00**	**0.43**	
26	**3**	**Surface**	**Percent**		**63%**	**37%**	**0%**		
26	4	Surface	Aluminum	1.11E+04	0.00		0.00	0.00	0.8%
26	4	Surface	Arsenic	6.01E+01	0.07	0.13	0.00	0.20	40.4%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.01			0.01	2.9%
26	4	Surface	Mercury	7.33E+01	0.09			0.09	17.5%
26	4	Surface	Molybdenum	3.49E+01	0.00			0.00	0.5%
26	4	Surface	Nickel	8.10E+01	0.00		0.00	0.00	0.3%
26	4	Surface	Uranium	1.47E+03	0.17		0.00	0.18	35.6%
26	4	Surface	Vanadium	1.42E+02	0.01		0.00	0.01	2.0%
26	**4**	**Surface**	**Totals**		**0.37**	**0.13**	**0.00**	**0.49**	
26	**4**	**Surface**	**Percent**		**73%**	**26%**	**1%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.03			0.03	21.7%
77	1	Surface	Uranium	6.66E+02	0.08		0.00	0.08	68.1%
77	1	Surface	Vanadium	1.68E+02	0.01		0.00	0.01	10.2%
77	**1**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
77	**1**	**Surface**	**Percent**		**99%**		**1%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.04		0.00	0.04	79.2%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	1	Surface	Uranium	9.80E+01	0.01		0.00	0.01	20.8%
80	**1**	**Surface**	**Totals**		**0.06**		**0.00**	**0.05**	
80	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	2	Surface	Antimony	5.82E+01	0.05			0.05	6.6%
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.02		0.00	0.02	2.9%
80	2	Surface	Iron	3.52E+04	0.02			0.02	2.3%
80	2	Surface	Uranium	5.72E+03	0.68		0.01	0.69	87.1%
80	2	Surface	Vanadium	1.29E+02	0.01		0.00	0.01	1.2%
80	**2**	**Surface**	**Totals**		**0.78**		**0.01**	**0.79**	
80	**2**	**Surface**	**Percent**		**99%**		**1%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.02			0.02	31.1%
80	3	Surface	Manganese	9.46E+02	0.01		0.00	0.02	30.6%
80	3	Surface	Molybdenum	2.33E+01	0.00			0.00	3.3%
80	3	Surface	Uranium	7.32E+01	0.01		0.00	0.01	17.7%
80	3	Surface	Vanadium	1.21E+02	0.01		0.00	0.01	17.3%
80	**3**	**Surface**	**Totals**		**0.05**		**0.00**	**0.06**	
80	**3**	**Surface**	**Percent**		**97%**		**3%**		
204	1	Surface	Aluminum	1.18E+04	0.00		0.00	0.00	33.7%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.01		0.00	0.01	66.3%
204	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**1**	**Surface**	**Percent**		**98%**		**2%**		
204	2	Surface	Arsenic	4.59E+01	0.05	0.10	0.00	0.15	94.7%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.01		0.00	0.01	5.3%
204	**2**	**Surface**	**Totals**		**0.06**	**0.10**	**0.00**	**0.16**	
204	**2**	**Surface**	**Percent**		**39%**	**61%**	**0%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.00			0.00	30.6%
204	3	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	69.3%
204	**3**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**3**	**Surface**	**Percent**		**99%**		**1%**		
204	4	Surface	Iron	2.92E+04	0.01			0.01	46.6%
204	4	Surface	Molybdenum	4.10E+01	0.00			0.00	9.2%
204	4	Surface	Silver	5.90E+01	0.00			0.00	13.2%
204	4	Surface	Vanadium	1.39E+02	0.01		0.00	0.01	31.1%
204	**4**	**Surface**	**Totals**		**0.03**		**0.00**	**0.02**	
204	**4**	**Surface**	**Percent**		**100%**		**0%**		
204	5	Surface	Arsenic	5.67E+01	0.07	0.12	0.00	0.19	95.6%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.01		0.00	0.01	4.4%
204	**5**	**Surface**	**Totals**		**0.08**	**0.12**	**0.00**	**0.20**	
204	**5**	**Surface**	**Percent**		**38%**	**62%**	**0%**		
204	6	Surface	Vanadium	1.25E+02	0.01		0.00	0.01	100.0%
204	**6**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**6**	**Surface**	**Percent**		**99%**		**1%**		
204	7	Surface	Iron	2.95E+04	0.01			0.01	27.1%
204	7	Surface	Manganese	1.94E+03	0.03		0.00	0.03	56.5%
204	7	Surface	Vanadium	1.27E+02	0.01		0.00	0.01	16.4%
204	**7**	**Surface**	**Totals**		**0.05**		**0.00**	**0.05**	
204	**7**	**Surface**	**Percent**		**95%**		**5%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.02		0.00	0.02	40.8%
204	8	Surface	Iron	2.94E+04	0.01			0.01	36.4%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	8	Surface	Vanadium	1.32E+02	0.01		0.00	0.01	22.9%
204	**8**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**8**	**Surface**	**Percent**		**99%**		**1%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.02			0.02	60.7%
204	9	Surface	Vanadium	1.37E+02	0.01		0.00	0.01	39.3%
204	**9**	**Surface**	**Totals**		**0.02**		**0.00**	**0.03**	
204	**9**	**Surface**	**Percent**		**100%**		**0%**		
204	10	Surface	Antimony	1.20E+01	0.01			0.01	30.6%
204	10	Surface	Iron	3.08E+04	0.02			0.02	45.0%
204	10	Surface	Vanadium	1.19E+02	0.01		0.00	0.01	24.3%
204	**10**	**Surface**	**Totals**		**0.03**		**0.00**	**0.04**	
204	**10**	**Surface**	**Percent**		**100%**		**0%**		
204	11	Surface	Iron	3.05E+04	0.02			0.02	60.4%
204	11	Surface	Vanadium	1.43E+02	0.01		0.00	0.01	39.6%
204	**11**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**11**	**Surface**	**Percent**		**100%**		**0%**		
204	12	Surface	Iron	2.86E+04	0.01			0.01	45.1%
204	12	Surface	Thallium	2.10E-01	0.01			0.01	23.2%
204	12	Surface	Vanadium	1.44E+02	0.01		0.00	0.01	31.8%
204	**12**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**12**	**Surface**	**Percent**		**100%**		**0%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.01		0.00	0.01	100.0%
204	**13**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
204	**13**	**Surface**	**Percent**		**99%**		**1%**		
204	14	Surface	Arsenic	1.36E+02	0.16	0.29	0.00	0.45	91.5%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.02			0.02	3.2%
204	14	Surface	Uranium	1.34E+02	0.02		0.00	0.02	3.2%
204	14	Surface	Vanadium	1.43E+02	0.01		0.00	0.01	2.1%
204	**14**	**Surface**	**Totals**		**0.20**	**0.29**	**0.00**	**0.50**	
204	**14**	**Surface**	**Percent**		**41%**	**59%**	**0%**		
204	15	Surface	Iron	2.90E+04	0.01			0.01	64.7%
204	15	Surface	Vanadium	1.13E+02	0.01		0.00	0.01	35.3%
204	**15**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
204	**15**	**Surface**	**Percent**		**100%**		**0%**		
204	16	Surface	Iron	2.89E+04	0.01			0.01	62.8%
204	16	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	37.2%
204	**16**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
204	**16**	**Surface**	**Percent**		**100%**		**0%**		
204	17	Surface	Iron	2.98E+04	0.02			0.02	63.5%
204	17	Surface	Vanadium	1.22E+02	0.01		0.00	0.01	36.5%
204	**17**	**Surface**	**Totals**		**0.02**		**0.00**	**0.03**	
204	**17**	**Surface**	**Percent**		**100%**		**0%**		
204	18	Surface	Iron	3.35E+04	0.02			0.02	41.7%
204	18	Surface	Uranium	1.09E+02	0.01		0.00	0.01	32.0%
204	18	Surface	Vanadium	1.51E+02	0.01		0.00	0.01	26.3%
204	**18**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
204	**18**	**Surface**	**Percent**		**99%**		**1%**		
204	19	Surface	Silver	5.50E+01	0.00			0.00	18.1%
204	19	Surface	Uranium	8.50E+01	0.01		0.00	0.01	47.1%
204	19	Surface	Vanadium	1.06E+02	0.01		0.00	0.01	34.8%
204	**19**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
204	**19**	**Surface**	**Percent**		**99%**		**1%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.33. HIs for the Adult Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	20	Surface	Uranium	1.31E+04	1.55		0.02	1.57	99.5%
204	20	Surface	Vanadium	1.14E+02	0.01		0.00	0.01	0.5%
204	**20**	**Surface**	**Totals**		**1.56**		**0.02**	**1.58**	
204	**20**	**Surface**	**Percent**		**99%**		**1%**		
204	21	Surface	Cobalt	1.80E+01	0.02		0.00	0.02	71.8%
204	21	Surface	Vanadium	1.19E+02	0.01		0.00	0.01	28.2%
204	**21**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**21**	**Surface**	**Percent**		**99%**		**1%**		
211	1	Surface	Antimony	6.52E+01	0.06			0.06	62.8%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.02			0.02	16.7%
211	1	Surface	Thallium	3.30E-01	0.01			0.01	12.7%
211	1	Surface	Vanadium	1.01E+02	0.01		0.00	0.01	7.8%
211	**1**	**Surface**	**Totals**		**0.09**		**0.00**	**0.10**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	0.10			0.10	95.1%
224	1	Surface	Uranium	4.15E+01	0.00		0.00	0.00	4.9%
224	**1**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.05			0.05	73.1%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.01			0.01	15.1%
225	1	Surface	Vanadium	1.09E+02	0.01		0.00	0.01	11.8%
225	**1**	**Surface**	**Totals**		**0.07**		**0.00**	**0.07**	
225	**1**	**Surface**	**Percent**		**100%**		**0%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.34. HIs for the Teen Recreational User

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.01		0.00	0.01	100.0%
13	**1**	**Surface**	**Totals**		**0.01**		**0.00**	**0.01**	
13	**1**	**Surface**	**Percent**		**100%**		**0%**		
13	2	Surface	Iron	2.47E+04	0.03			0.03	32.9%
13	2	Surface	Manganese	1.22E+03	0.05		0.00	0.05	49.7%
13	2	Surface	Vanadium	9.38E+01	0.02		0.00	0.02	17.4%
13	**2**	**Surface**	**Totals**		**0.09**		**0.00**	**0.10**	
13	**2**	**Surface**	**Percent**		**98%**		**2%**		
13	3	Surface	Iron	2.63E+04	0.03			0.03	34.4%
13	3	Surface	Manganese	1.09E+03	0.04		0.00	0.04	43.6%
13	3	Surface	Molybdenum	2.19E+01	0.00			0.00	4.0%
13	3	Surface	Vanadium	9.88E+01	0.02		0.00	0.02	18.0%
13	**3**	**Surface**	**Totals**		**0.10**		**0.00**	**0.09**	
13	**3**	**Surface**	**Percent**		**98%**		**2%**		
13	4	Surface	Iron	2.75E+04	0.04			0.04	66.7%
13	4	Surface	Vanadium	9.81E+01	0.02		0.00	0.02	33.3%
13	**4**	**Surface**	**Totals**		**0.05**		**0.00**	**0.06**	
13	**4**	**Surface**	**Percent**		**100%**		**0%**		
13	5	Surface	Aluminum	9.83E+03	0.01		0.00	0.01	7.7%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.03			0.03	26.6%
13	5	Surface	Manganese	9.08E+02	0.03		0.00	0.04	30.4%
13	5	Surface	Uranium	7.41E+01	0.02		0.00	0.02	19.1%
13	5	Surface	Vanadium	1.06E+02	0.02		0.00	0.02	16.2%
13	**5**	**Surface**	**Totals**		**0.11**		**0.00**	**0.12**	
13	**5**	**Surface**	**Percent**		**98%**		**2%**		
13	6	Surface	Iron	3.09E+04	0.04			0.04	54.8%
13	6	Surface	Uranium	3.70E+01	0.01		0.00	0.01	15.4%
13	6	Surface	Vanadium	1.20E+02	0.02		0.00	0.02	29.7%
13	**6**	**Surface**	**Totals**		**0.07**		**0.00**	**0.07**	
13	**6**	**Surface**	**Percent**		**100%**		**0%**		
13	7	Surface	Iron	2.78E+04	0.04			0.04	39.4%
13	7	Surface	Silver	1.85E+02	0.03			0.03	36.6%
13	7	Surface	Vanadium	1.22E+02	0.02		0.00	0.02	24.0%
13	**7**	**Surface**	**Totals**		**0.09**		**0.00**	**0.09**	
13	**7**	**Surface**	**Percent**		**100%**		**0%**		
13	8	Surface	Iron	2.41E+04	0.03			0.03	33.4%
13	8	Surface	Manganese	1.12E+03	0.04		0.00	0.04	47.4%
13	8	Surface	Vanadium	9.97E+01	0.02		0.00	0.02	19.3%
13	**8**	**Surface**	**Totals**		**0.09**		**0.00**	**0.09**	
13	**8**	**Surface**	**Percent**		**98%**		**2%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.02		0.00	0.02	100.0%
13	**9**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
13	**9**	**Surface**	**Percent**		**100%**		**0%**		
13	10	Surface	Iron	3.80E+04	0.05			0.05	24.1%
13	10	Surface	Manganese	3.09E+03	0.11		0.01	0.12	59.7%
13	10	Surface	Silver	5.40E+01	0.01			0.01	4.8%
13	10	Surface	Vanadium	1.30E+02	0.02		0.00	0.02	11.5%
13	**10**	**Surface**	**Totals**		**0.20**		**0.01**	**0.20**	
13	**10**	**Surface**	**Percent**		**97%**		**3%**		
13	11	Surface	Silver	1.03E+02	0.02			0.02	47.6%
13	11	Surface	Vanadium	1.14E+02	0.02		0.00	0.02	52.4%
13	**11**	**Surface**	**Totals**		**0.04**		**0.00**	**0.04**	
13	**11**	**Surface**	**Percent**		**100%**		**0%**		
13	12	Surface	Iron	2.30E+04	0.03			0.03	24.8%

SWMU = solid waste management unit
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HI = hazard index

Table D.34. HIs for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Manganese	1.35E+03	0.05		0.00	0.05	44.4%
13	12	Surface	Silver	8.88E+01	0.02			0.02	13.4%
13	12	Surface	Vanadium	1.16E+02	0.02		0.00	0.02	17.4%
13	**12**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
13	**12**	**Surface**	**Percent**		**98%**		**2%**		
13	13	Surface	Iron	2.89E+04	0.04			0.04	34.6%
13	13	Surface	Manganese	1.13E+03	0.04		0.00	0.04	41.1%
13	13	Surface	Molybdenum	2.73E+01	0.00			0.00	4.6%
13	13	Surface	Vanadium	1.19E+02	0.02		0.00	0.02	19.8%
13	**13**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
13	**13**	**Surface**	**Percent**		**98%**		**2%**		
13	14	Surface	Vanadium	1.22E+02	0.02		0.00	0.02	100.0%
13	**14**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
13	**14**	**Surface**	**Percent**		**100%**		**0%**		
15	1	Surface	Antimony	7.49E+01	0.17			0.17	39.8%
15	1	Surface	Arsenic	1.27E+01	0.04	0.08	0.00	0.12	29.1%
15	1	Surface	Cadmium	1.56E+01	0.01	0.04	0.00	0.06	13.3%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.04			0.04	9.0%
15	1	Surface	Nickel	1.32E+02	0.01		0.00	0.01	1.4%
15	1	Surface	Thallium	2.40E-01	0.02			0.02	5.1%
15	1	Surface	Uranium	3.26E+01	0.01		0.00	0.01	2.3%
15	**1**	**Surface**	**Totals**		**0.29**	**0.13**	**0.00**	**0.43**	
15	**1**	**Surface**	**Percent**		**70%**	**30%**	**0%**		
15	2	Surface	Antimony	9.83E+01	0.22			0.22	43.7%
15	2	Surface	Arsenic	1.63E+01	0.05	0.11	0.00	0.16	31.3%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.05			0.05	9.9%
15	2	Surface	Mercury	9.33E+00	0.03			0.03	5.5%
15	2	Surface	Nickel	1.97E+02	0.01		0.00	0.01	1.8%
15	2	Surface	Uranium	1.32E+02	0.04		0.00	0.04	7.9%
15	**2**	**Surface**	**Totals**		**0.39**	**0.11**	**0.00**	**0.51**	
15	**2**	**Surface**	**Percent**		**78%**	**22%**	**0%**		
15	3	Surface	Antimony	7.10E+01	0.16			0.16	16.6%
15	3	Surface	Arsenic	2.74E+01	0.08	0.18	0.00	0.26	27.7%
15	3	Surface	Cadmium	1.25E+01	0.01	0.03	0.00	0.04	4.7%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.10		0.00	0.10	10.7%
15	3	Surface	Copper	1.60E+03	0.04			0.04	3.7%
15	3	Surface	Iron	9.20E+04	0.12			0.12	12.3%
15	3	Surface	Manganese	1.60E+03	0.06		0.00	0.06	6.5%
15	3	Surface	Mercury	1.05E+01	0.03			0.03	3.3%
15	3	Surface	Nickel	8.38E+02	0.04		0.00	0.04	4.0%
15	3	Surface	Thallium	2.60E-01	0.02			0.02	2.4%
15	3	Surface	Uranium	2.16E+02	0.06		0.00	0.06	6.8%
15	3	Surface	Vanadium	7.31E+01	0.01		0.00	0.01	1.4%
15	**3**	**Surface**	**Totals**		**0.73**	**0.22**	**0.00**	**0.94**	
15	**3**	**Surface**	**Percent**		**77%**	**23%**	**1%**		
15	4	Surface	Antimony	7.63E+01	0.17			0.17	18.3%
15	4	Surface	Arsenic	3.37E+01	0.10	0.23	0.00	0.33	35.0%
15	4	Surface	Cadmium	1.86E+01	0.02	0.05	0.00	0.07	7.1%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.01			0.01	1.4%
15	4	Surface	Iron	6.90E+04	0.09			0.09	9.4%
15	4	Surface	Manganese	1.29E+03	0.05		0.00	0.05	5.4%
15	4	Surface	Mercury	3.04E+01	0.09			0.09	9.7%

SWMU = solid waste management unit
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HI = hazard index

Table D.34. HIs for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.24E+03	0.06		0.00	0.06	6.1%
15	4	Surface	Thallium	1.85E-01	0.02			0.02	1.8%
15	4	Surface	Uranium	1.29E+02	0.04		0.00	0.04	4.2%
15	4	Surface	Vanadium	8.43E+01	0.01		0.00	0.01	1.6%
15	**4**	**Surface**	**Totals**		**0.65**	**0.28**	**0.00**	**0.94**	
15	**4**	**Surface**	**Percent**		**70%**	**30%**	**0%**		
15	5	Surface	Antimony	1.01E+02	0.23			0.23	37.6%
15	5	Surface	Arsenic	1.28E+01	0.04	0.09	0.00	0.12	20.6%
15	5	Surface	Cadmium	1.46E+01	0.01	0.04	0.00	0.05	8.7%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.13			0.13	20.9%
15	5	Surface	Nickel	3.53E+02	0.02		0.00	0.02	2.7%
15	5	Surface	Uranium	1.76E+02	0.05		0.00	0.05	8.8%
15	5	Surface	Zinc	1.52E+03	0.00			0.00	0.8%
15	**5**	**Surface**	**Totals**		**0.47**	**0.12**	**0.00**	**0.60**	
15	**5**	**Surface**	**Percent**		**79%**	**21%**	**0%**		
15	6	Surface	Antimony	8.85E+01	0.20			0.20	38.8%
15	6	Surface	Arsenic	1.24E+01	0.04	0.08	0.00	0.12	23.6%
15	6	Surface	Cadmium	1.64E+01	0.01	0.04	0.00	0.06	11.5%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.05		0.00	0.05	9.5%
15	6	Surface	Copper	4.23E+02	0.01			0.01	1.9%
15	6	Surface	Iron	3.29E+04	0.04			0.04	8.2%
15	6	Surface	Nickel	3.00E+02	0.01		0.00	0.01	2.7%
15	6	Surface	Uranium	6.30E+01	0.02		0.00	0.02	3.7%
15	**6**	**Surface**	**Totals**		**0.38**	**0.13**	**0.00**	**0.51**	
15	**6**	**Surface**	**Percent**		**75%**	**25%**	**0%**		
15	7	Surface	Antimony	1.37E+02	0.31			0.31	43.6%
15	7	Surface	Arsenic	1.61E+01	0.05	0.11	0.00	0.16	22.1%
15	7	Surface	Cadmium	1.80E+01	0.02	0.05	0.00	0.06	9.2%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.02			0.02	2.6%
15	7	Surface	Iron	3.42E+04	0.04			0.04	6.2%
15	7	Surface	Manganese	1.18E+03	0.04		0.00	0.05	6.6%
15	7	Surface	Nickel	5.59E+02	0.02		0.00	0.03	3.6%
15	7	Surface	Thallium	3.00E-01	0.03			0.03	3.8%
15	7	Surface	Uranium	5.39E+01	0.02		0.00	0.02	2.3%
15	**7**	**Surface**	**Totals**		**0.54**	**0.16**	**0.00**	**0.72**	
15	**7**	**Surface**	**Percent**		**77%**	**22%**	**0%**		
15	8	Surface	Antimony	7.42E+01	0.17			0.17	38.8%
15	8	Surface	Arsenic	1.17E+01	0.03	0.08	0.00	0.11	26.5%
15	8	Surface	Cadmium	1.68E+01	0.02	0.05	0.00	0.06	14.1%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.04			0.04	8.5%
15	8	Surface	Mercury	1.01E+01	0.03			0.03	7.0%
15	8	Surface	Nickel	1.82E+02	0.01		0.00	0.01	1.9%
15	8	Surface	Uranium	4.46E+01	0.01		0.00	0.01	3.1%
15	**8**	**Surface**	**Totals**		**0.30**	**0.12**	**0.00**	**0.43**	
15	**8**	**Surface**	**Percent**		**71%**	**29%**	**0%**		
15	9	Surface	Antimony	1.12E+02	0.25			0.25	51.4%
15	9	Surface	Arsenic	1.10E+01	0.03	0.07	0.00	0.11	22.0%
15	9	Surface	Cadmium	1.81E+01	0.02	0.05	0.00	0.06	13.3%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.04			0.04	7.2%
15	9	Surface	Nickel	1.49E+02	0.01		0.00	0.01	1.4%
15	9	Surface	Uranium	3.07E+01	0.01		0.00	0.01	1.9%

SWMU = solid waste management unit
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Table D.34. HIs for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	9	Surface	Vanadium	7.33E+01	0.01		0.00	0.01	2.7%
15	**9**	**Surface**	**Totals**		**0.36**	**0.12**	**0.00**	**0.49**	
15	**9**	**Surface**	**Percent**		**75%**	**25%**	**0%**		
15	10	Surface	Antimony	1.25E+02	0.28			0.28	69.8%
15	10	Surface	Cadmium	1.67E+01	0.01	0.04	0.00	0.06	15.0%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.02			0.02	5.8%
15	10	Surface	Nickel	2.26E+02	0.01		0.00	0.01	2.6%
15	10	Surface	Uranium	9.02E+01	0.03		0.00	0.03	6.8%
15	**10**	**Surface**	**Totals**		**0.35**	**0.04**	**0.00**	**0.40**	
15	**10**	**Surface**	**Percent**		**89%**	**11%**	**0%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.04			0.04	14.5%
26	1	Surface	Uranium	6.28E+02	0.19		0.00	0.19	74.2%
26	1	Surface	Vanadium	1.61E+02	0.03		0.00	0.03	11.3%
26	**1**	**Surface**	**Totals**		**0.25**		**0.00**	**0.26**	
26	**1**	**Surface**	**Percent**		**99%**		**1%**		
26	2	Surface	Aluminum	2.61E+04	0.02		0.00	0.02	0.8%
26	2	Surface	Arsenic	4.23E+01	0.13	0.28	0.00	0.41	13.4%
26	2	Surface	Beryllium	1.13E+01	0.01		0.00	0.01	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	0.20		0.00	0.20	6.4%
26	2	Surface	Iron	5.20E+04	0.07			0.07	2.2%
26	2	Surface	Nickel	1.03E+02	0.00		0.00	0.00	0.2%
26	2	Surface	Thallium	2.38E+01	2.12			2.12	69.3%
26	2	Surface	Uranium	7.18E+02	0.21		0.00	0.22	7.0%
26	2	Surface	Vanadium	1.16E+02	0.02		0.00	0.02	0.7%
26	**2**	**Surface**	**Totals**		**2.77**	**0.28**	**0.00**	**3.07**	
26	**2**	**Surface**	**Percent**		**91%**	**9%**	**0%**		
26	3	Surface	Arsenic	7.56E+01	0.22	0.51	0.00	0.73	61.0%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.04			0.04	3.7%
26	3	Surface	Molybdenum	4.07E+01	0.01			0.01	0.6%
26	3	Surface	Thallium	3.68E+00	0.33			0.33	27.4%
26	3	Surface	Uranium	2.05E+02	0.06		0.00	0.06	5.1%
26	3	Surface	Vanadium	1.44E+02	0.03		0.00	0.03	2.1%
26	**3**	**Surface**	**Totals**		**0.69**	**0.51**	**0.00**	**1.20**	
26	**3**	**Surface**	**Percent**		**58%**	**42%**	**0%**		
26	4	Surface	Aluminum	1.11E+04	0.01		0.00	0.01	0.8%
26	4	Surface	Arsenic	6.01E+01	0.18	0.40	0.00	0.58	44.0%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.04			0.04	2.7%
26	4	Surface	Mercury	7.33E+01	0.22			0.22	16.5%
26	4	Surface	Molybdenum	3.49E+01	0.01			0.01	0.5%
26	4	Surface	Nickel	8.10E+01	0.00		0.00	0.00	0.3%
26	4	Surface	Uranium	1.47E+03	0.44		0.00	0.44	33.4%
26	4	Surface	Vanadium	1.42E+02	0.03		0.00	0.03	1.9%
26	**4**	**Surface**	**Totals**		**0.92**	**0.40**	**0.00**	**1.33**	
26	**4**	**Surface**	**Percent**		**69%**	**30%**	**0%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.06			0.06	21.9%
77	1	Surface	Uranium	6.66E+02	0.20		0.00	0.20	68.0%
77	1	Surface	Vanadium	1.68E+02	0.03		0.00	0.03	10.2%
77	**1**	**Surface**	**Totals**		**0.29**		**0.00**	**0.29**	
77	**1**	**Surface**	**Percent**		**99%**		**1%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.11		0.00	0.11	79.3%

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Table D.34. HIs for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	1	Surface	Uranium	9.80E+01	0.03		0.00	0.03	20.7%
80	**1**	**Surface**	**Totals**		**0.14**		**0.00**	**0.14**	
80	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	2	Surface	Antimony	5.82E+01	0.13			0.13	6.6%
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.06		0.00	0.06	2.9%
80	2	Surface	Iron	3.52E+04	0.04			0.04	2.3%
80	2	Surface	Uranium	5.72E+03	1.70		0.01	1.71	87.1%
80	2	Surface	Vanadium	1.29E+02	0.02		0.00	0.02	1.2%
80	**2**	**Surface**	**Totals**		**1.96**		**0.01**	**1.96**	
80	**2**	**Surface**	**Percent**		**99%**		**1%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.04			0.04	31.5%
80	3	Surface	Manganese	9.46E+02	0.04		0.00	0.04	29.9%
80	3	Surface	Molybdenum	2.33E+01	0.00			0.00	3.4%
80	3	Surface	Uranium	7.32E+01	0.02		0.00	0.02	17.8%
80	3	Surface	Vanadium	1.21E+02	0.02		0.00	0.02	17.4%
80	**3**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
80	**3**	**Surface**	**Percent**		**98%**		**2%**		
204	1	Surface	Aluminum	1.18E+04	0.01		0.00	0.01	33.4%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.02		0.00	0.02	66.5%
204	**1**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**1**	**Surface**	**Percent**		**99%**		**1%**		
204	2	Surface	Arsenic	4.59E+01	0.14	0.31	0.00	0.44	95.4%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.02		0.00	0.02	4.6%
204	**2**	**Surface**	**Totals**		**0.16**	**0.31**	**0.00**	**0.46**	
204	**2**	**Surface**	**Percent**		**34%**	**66%**	**0%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.01			0.01	30.7%
204	3	Surface	Vanadium	1.22E+02	0.02		0.00	0.02	69.2%
204	**3**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**3**	**Surface**	**Percent**		**100%**		**0%**		
204	4	Surface	Iron	2.92E+04	0.04			0.04	46.7%
204	4	Surface	Molybdenum	4.10E+01	0.01			0.01	9.2%
204	4	Surface	Silver	5.90E+01	0.01			0.01	13.2%
204	4	Surface	Vanadium	1.39E+02	0.02		0.00	0.02	31.0%
204	**4**	**Surface**	**Totals**		**0.08**		**0.00**	**0.08**	
204	**4**	**Surface**	**Percent**		**100%**		**0%**		
204	5	Surface	Arsenic	5.67E+01	0.17	0.38	0.00	0.55	96.2%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.02		0.00	0.02	3.8%
204	**5**	**Surface**	**Totals**		**0.19**	**0.38**	**0.00**	**0.57**	
204	**5**	**Surface**	**Percent**		**33%**	**67%**	**0%**		
204	6	Surface	Vanadium	1.25E+02	0.02		0.00	0.02	100.0%
204	**6**	**Surface**	**Totals**		**0.02**		**0.00**	**0.02**	
204	**6**	**Surface**	**Percent**		**100%**		**0%**		
204	7	Surface	Iron	2.95E+04	0.04			0.04	27.7%
204	7	Surface	Manganese	1.94E+03	0.07		0.00	0.08	55.6%
204	7	Surface	Vanadium	1.27E+02	0.02		0.00	0.02	16.7%
204	**7**	**Surface**	**Totals**		**0.13**		**0.00**	**0.14**	
204	**7**	**Surface**	**Percent**		**97%**		**3%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.04		0.00	0.04	40.7%
204	8	Surface	Iron	2.94E+04	0.04			0.04	36.5%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.34. HIs for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	8	Surface	Vanadium	1.32E+02	0.02		0.00	0.02	22.8%
204	**8**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
204	**8**	**Surface**	**Percent**		**100%**		**0%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.04			0.04	60.8%
204	9	Surface	Vanadium	1.37E+02	0.02		0.00	0.02	39.2%
204	**9**	**Surface**	**Totals**		**0.06**		**0.00**	**0.06**	
204	**9**	**Surface**	**Percent**		**100%**		**0%**		
204	10	Surface	Antimony	1.20E+01	0.03			0.03	30.7%
204	10	Surface	Iron	3.08E+04	0.04			0.04	45.1%
204	10	Surface	Vanadium	1.19E+02	0.02		0.00	0.02	24.3%
204	**10**	**Surface**	**Totals**		**0.09**		**0.00**	**0.09**	
204	**10**	**Surface**	**Percent**		**100%**		**0%**		
204	11	Surface	Iron	3.05E+04	0.04			0.04	60.5%
204	11	Surface	Vanadium	1.43E+02	0.03		0.00	0.03	39.5%
204	**11**	**Surface**	**Totals**		**0.06**		**0.00**	**0.07**	
204	**11**	**Surface**	**Percent**		**100%**		**0%**		
204	12	Surface	Iron	2.86E+04	0.04			0.04	45.1%
204	12	Surface	Thallium	2.10E-01	0.02			0.02	23.2%
204	12	Surface	Vanadium	1.44E+02	0.03		0.00	0.03	31.7%
204	**12**	**Surface**	**Totals**		**0.08**		**0.00**	**0.09**	
204	**12**	**Surface**	**Percent**		**100%**		**0%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.03		0.00	0.03	100.0%
204	**13**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
204	**13**	**Surface**	**Percent**		**100%**		**0%**		
204	14	Surface	Arsenic	1.36E+02	0.40	0.91	0.00	1.31	92.5%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.04			0.04	2.8%
204	14	Surface	Uranium	1.34E+02	0.04		0.00	0.04	2.8%
204	14	Surface	Vanadium	1.43E+02	0.03		0.00	0.03	1.8%
204	**14**	**Surface**	**Totals**		**0.51**	**0.91**	**0.00**	**1.42**	
204	**14**	**Surface**	**Percent**		**36%**	**64%**	**0%**		
204	15	Surface	Iron	2.90E+04	0.04			0.04	64.8%
204	15	Surface	Vanadium	1.13E+02	0.02		0.00	0.02	35.2%
204	**15**	**Surface**	**Totals**		**0.06**		**0.00**	**0.06**	
204	**15**	**Surface**	**Percent**		**100%**		**0%**		
204	16	Surface	Iron	2.89E+04	0.04			0.04	62.9%
204	16	Surface	Vanadium	1.22E+02	0.02		0.00	0.02	37.1%
204	**16**	**Surface**	**Totals**		**0.06**		**0.00**	**0.06**	
204	**16**	**Surface**	**Percent**		**100%**		**0%**		
204	17	Surface	Iron	2.98E+04	0.04			0.04	63.6%
204	17	Surface	Vanadium	1.22E+02	0.02		0.00	0.02	36.4%
204	**17**	**Surface**	**Totals**		**0.06**		**0.00**	**0.06**	
204	**17**	**Surface**	**Percent**		**100%**		**0%**		
204	18	Surface	Iron	3.35E+04	0.04			0.04	41.8%
204	18	Surface	Uranium	1.09E+02	0.03		0.00	0.03	31.9%
204	18	Surface	Vanadium	1.51E+02	0.03		0.00	0.03	26.3%
204	**18**	**Surface**	**Totals**		**0.10**		**0.00**	**0.10**	
204	**18**	**Surface**	**Percent**		**100%**		**0%**		
204	19	Surface	Silver	5.50E+01	0.01			0.01	18.1%
204	19	Surface	Uranium	8.50E+01	0.03		0.00	0.03	47.0%
204	19	Surface	Vanadium	1.06E+02	0.02		0.00	0.02	34.8%
204	**19**	**Surface**	**Totals**		**0.05**		**0.00**	**0.06**	
204	**19**	**Surface**	**Percent**		**99%**		**1%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.34. HIs for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	20	Surface	Uranium	1.31E+04	3.89		0.03	3.91	99.5%
204	20	Surface	Vanadium	1.14E+02	0.02		0.00	0.02	0.5%
204	**20**	**Surface**	**Totals**		**3.91**		**0.03**	**3.93**	
204	**20**	**Surface**	**Percent**		**99%**		**1%**		
204	21	Surface	Cobalt	1.80E+01	0.05		0.00	0.05	71.8%
204	21	Surface	Vanadium	1.19E+02	0.02		0.00	0.02	28.2%
204	**21**	**Surface**	**Totals**		**0.07**		**0.00**	**0.07**	
204	**21**	**Surface**	**Percent**		**100%**		**0%**		
211	1	Surface	Antimony	6.52E+01	0.15			0.15	62.8%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.04			0.04	16.8%
211	1	Surface	Thallium	3.30E-01	0.03			0.03	12.7%
211	1	Surface	Vanadium	1.01E+02	0.02		0.00	0.02	7.8%
211	**1**	**Surface**	**Totals**		**0.23**		**0.00**	**0.24**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	0.24			0.24	95.1%
224	1	Surface	Uranium	4.15E+01	0.01		0.00	0.01	4.9%
224	**1**	**Surface**	**Totals**		**0.25**		**0.00**	**0.25**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.12			0.12	73.1%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.02			0.02	15.1%
225	1	Surface	Vanadium	1.09E+02	0.02		0.00	0.02	11.7%
225	**1**	**Surface**	**Totals**		**0.16**		**0.00**	**0.16**	
225	**1**	**Surface**	**Percent**		**100%**		**0%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.35. HIs for the Child Recreational User

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	Vanadium	3.23E+01	0.03		0.00	0.03	100.0%
13	**1**	**Surface**	**Totals**		**0.03**		**0.00**	**0.03**	
13	**1**	**Surface**	**Percent**		**100%**		**0%**		
13	2	Surface	Iron	2.47E+04	0.18			0.18	33.5%
13	2	Surface	Manganese	1.22E+03	0.26		0.00	0.26	48.8%
13	2	Surface	Vanadium	9.38E+01	0.10		0.00	0.10	17.7%
13	**2**	**Surface**	**Totals**		**0.54**		**0.00**	**0.54**	
13	**2**	**Surface**	**Percent**		**100%**		**0%**		
13	3	Surface	Iron	2.63E+04	0.19			0.19	34.9%
13	3	Surface	Manganese	1.09E+03	0.23		0.00	0.24	42.7%
13	3	Surface	Molybdenum	2.19E+01	0.02			0.02	4.1%
13	3	Surface	Vanadium	9.88E+01	0.10		0.00	0.10	18.2%
13	**3**	**Surface**	**Totals**		**0.55**		**0.00**	**0.55**	
13	**3**	**Surface**	**Percent**		**100%**		**0%**		
13	4	Surface	Iron	2.75E+04	0.20			0.20	66.8%
13	4	Surface	Vanadium	9.81E+01	0.10		0.00	0.10	33.2%
13	**4**	**Surface**	**Totals**		**0.30**		**0.00**	**0.30**	
13	**4**	**Surface**	**Percent**		**100%**		**0%**		
13	5	Surface	Aluminum	9.83E+03	0.05		0.00	0.05	7.7%
13	5	Surface	Chromium	1.38E+01	0.00			0.00	0.0%
13	5	Surface	Iron	2.42E+04	0.18			0.18	26.9%
13	5	Surface	Manganese	9.08E+02	0.19		0.00	0.20	29.7%
13	5	Surface	Uranium	7.41E+01	0.13		0.00	0.13	19.3%
13	5	Surface	Vanadium	1.06E+02	0.11		0.00	0.11	16.3%
13	**5**	**Surface**	**Totals**		**0.65**		**0.00**	**0.67**	
13	**5**	**Surface**	**Percent**		**100%**		**0%**		
13	6	Surface	Iron	3.09E+04	0.23			0.23	55.0%
13	6	Surface	Uranium	3.70E+01	0.06		0.00	0.06	15.4%
13	6	Surface	Vanadium	1.20E+02	0.12		0.00	0.12	29.7%
13	**6**	**Surface**	**Totals**		**0.41**		**0.00**	**0.41**	
13	**6**	**Surface**	**Percent**		**100%**		**0%**		
13	7	Surface	Iron	2.78E+04	0.20			0.20	39.5%
13	7	Surface	Silver	1.85E+02	0.19			0.19	36.6%
13	7	Surface	Vanadium	1.22E+02	0.12		0.00	0.12	23.9%
13	**7**	**Surface**	**Totals**		**0.52**		**0.00**	**0.51**	
13	**7**	**Surface**	**Percent**		**100%**		**0%**		
13	8	Surface	Iron	2.41E+04	0.18			0.18	34.0%
13	8	Surface	Manganese	1.12E+03	0.24		0.00	0.24	46.5%
13	8	Surface	Vanadium	9.97E+01	0.10		0.00	0.10	19.5%
13	**8**	**Surface**	**Totals**		**0.52**		**0.00**	**0.52**	
13	**8**	**Surface**	**Percent**		**100%**		**0%**		
13	9	Surface	Chromium	1.43E+01	0.00			0.00	0.0%
13	9	Surface	Vanadium	1.17E+02	0.12		0.00	0.12	100.0%
13	**9**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
13	**9**	**Surface**	**Percent**		**100%**		**0%**		
13	10	Surface	Iron	3.80E+04	0.28			0.28	24.6%
13	10	Surface	Manganese	3.09E+03	0.66		0.01	0.66	58.8%
13	10	Surface	Silver	5.40E+01	0.06			0.06	4.9%
13	10	Surface	Vanadium	1.30E+02	0.13		0.00	0.13	11.7%
13	**10**	**Surface**	**Totals**		**1.12**		**0.01**	**1.13**	
13	**10**	**Surface**	**Percent**		**100%**		**0%**		
13	11	Surface	Silver	1.03E+02	0.11			0.11	47.7%
13	11	Surface	Vanadium	1.14E+02	0.12		0.00	0.12	52.3%
13	**11**	**Surface**	**Totals**		**0.22**		**0.00**	**0.23**	
13	**11**	**Surface**	**Percent**		**100%**		**0%**		
13	12	Surface	Iron	2.30E+04	0.17			0.17	25.2%

SWMU = solid waste management unit
EU = exposure unit
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Table D.35. HIs for the Child Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	12	Surface	Manganese	1.35E+03	0.29		0.00	0.29	43.5%
13	12	Surface	Silver	8.88E+01	0.09			0.09	13.6%
13	12	Surface	Vanadium	1.16E+02	0.12		0.00	0.12	17.7%
13	**12**	**Surface**	**Totals**		**0.67**		**0.00**	**0.67**	
13	**12**	**Surface**	**Percent**		**100%**		**0%**		
13	13	Surface	Iron	2.89E+04	0.21			0.21	35.1%
13	13	Surface	Manganese	1.13E+03	0.24		0.00	0.24	40.2%
13	13	Surface	Molybdenum	2.73E+01	0.03			0.03	4.6%
13	13	Surface	Vanadium	1.19E+02	0.12		0.00	0.12	20.0%
13	**13**	**Surface**	**Totals**		**0.60**		**0.00**	**0.60**	
13	**13**	**Surface**	**Percent**		**100%**		**0%**		
13	14	Surface	Vanadium	1.22E+02	0.12		0.00	0.12	100.0%
13	**14**	**Surface**	**Totals**		**0.12**		**0.00**	**0.12**	
13	**14**	**Surface**	**Percent**		**100%**		**0%**		
15	1	Surface	Antimony	7.49E+01	0.96			0.96	52.9%
15	1	Surface	Arsenic	1.27E+01	0.22	0.09	0.00	0.30	16.7%
15	1	Surface	Cadmium	1.56E+01	0.08	0.04	0.00	0.12	6.8%
15	1	Surface	Chromium	8.21E+01	0.00			0.00	0.0%
15	1	Surface	Iron	2.95E+04	0.22			0.22	11.9%
15	1	Surface	Nickel	1.32E+02	0.03		0.00	0.03	1.9%
15	1	Surface	Thallium	2.40E-01	0.12			0.12	6.8%
15	1	Surface	Uranium	3.26E+01	0.06		0.00	0.06	3.1%
15	**1**	**Surface**	**Totals**		**1.68**	**0.13**	**0.00**	**1.81**	
15	**1**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
15	2	Surface	Antimony	9.83E+01	1.26			1.26	53.2%
15	2	Surface	Arsenic	1.63E+01	0.28	0.11	0.00	0.39	16.5%
15	2	Surface	Chromium	5.90E+01	0.00			0.00	0.0%
15	2	Surface	Iron	3.89E+04	0.28			0.28	12.0%
15	2	Surface	Mercury	9.33E+00	0.16			0.16	6.7%
15	2	Surface	Nickel	1.97E+02	0.05		0.00	0.05	2.1%
15	2	Surface	Uranium	1.32E+02	0.22		0.00	0.22	9.5%
15	**2**	**Surface**	**Totals**		**2.25**	**0.11**	**0.00**	**2.36**	
15	**2**	**Surface**	**Percent**		**95%**	**5%**	**0%**		
15	3	Surface	Antimony	7.10E+01	0.91			0.91	20.5%
15	3	Surface	Arsenic	2.74E+01	0.47	0.19	0.00	0.66	14.8%
15	3	Surface	Cadmium	1.25E+01	0.06	0.03	0.00	0.10	2.2%
15	3	Surface	Chromium	7.53E+01	0.00			0.00	0.0%
15	3	Surface	Cobalt	3.41E+01	0.58		0.00	0.58	13.1%
15	3	Surface	Copper	1.60E+03	0.20			0.20	4.6%
15	3	Surface	Iron	9.20E+04	0.67			0.67	15.2%
15	3	Surface	Manganese	1.60E+03	0.34		0.00	0.34	7.8%
15	3	Surface	Mercury	1.05E+01	0.18			0.18	4.0%
15	3	Surface	Nickel	8.38E+02	0.21		0.00	0.21	4.8%
15	3	Surface	Thallium	2.60E-01	0.13			0.13	3.0%
15	3	Surface	Uranium	2.16E+02	0.37		0.00	0.37	8.3%
15	3	Surface	Vanadium	7.31E+01	0.07		0.00	0.07	1.7%
15	**3**	**Surface**	**Totals**		**4.21**	**0.22**	**0.00**	**4.42**	
15	**3**	**Surface**	**Percent**		**95%**	**5%**	**0%**		
15	4	Surface	Antimony	7.63E+01	0.98			0.98	24.3%
15	4	Surface	Arsenic	3.37E+01	0.57	0.23	0.00	0.81	20.0%
15	4	Surface	Cadmium	1.86E+01	0.10	0.05	0.00	0.15	3.6%
15	4	Surface	Chromium	9.02E+01	0.00			0.00	0.0%
15	4	Surface	Copper	5.99E+02	0.08			0.08	1.9%
15	4	Surface	Iron	6.90E+04	0.50			0.50	12.5%
15	4	Surface	Manganese	1.29E+03	0.27		0.00	0.28	6.9%
15	4	Surface	Mercury	3.04E+01	0.52			0.52	12.9%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.35. HIs for the Child Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.24E+03	0.32		0.00	0.32	7.9%
15	4	Surface	Thallium	1.85E-01	0.09			0.09	2.4%
15	4	Surface	Uranium	1.29E+02	0.22		0.00	0.22	5.5%
15	4	Surface	Vanadium	8.43E+01	0.09		0.00	0.09	2.1%
15	**4**	**Surface**	**Totals**		**3.73**	**0.28**	**0.00**	**4.04**	
15	**4**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
15	5	Surface	Antimony	1.01E+02	1.29			1.29	45.4%
15	5	Surface	Arsenic	1.28E+01	0.22	0.09	0.00	0.31	10.7%
15	5	Surface	Cadmium	1.46E+01	0.07	0.04	0.00	0.11	4.0%
15	5	Surface	Chromium	8.43E+01	0.00			0.00	0.0%
15	5	Surface	Copper	5.63E+03	0.72			0.72	25.3%
15	5	Surface	Nickel	3.53E+02	0.09		0.00	0.09	3.2%
15	5	Surface	Uranium	1.76E+02	0.30		0.00	0.30	10.5%
15	5	Surface	Zinc	1.52E+03	0.03			0.03	0.9%
15	**5**	**Surface**	**Totals**		**2.72**	**0.13**	**0.00**	**2.85**	
15	**5**	**Surface**	**Percent**		**95%**	**4%**	**0%**		
15	6	Surface	Antimony	8.85E+01	1.13			1.13	48.9%
15	6	Surface	Arsenic	1.24E+01	0.21	0.09	0.00	0.30	12.9%
15	6	Surface	Cadmium	1.64E+01	0.08	0.04	0.00	0.13	5.6%
15	6	Surface	Chromium	8.25E+01	0.00			0.00	0.0%
15	6	Surface	Cobalt	1.62E+01	0.28		0.00	0.28	12.0%
15	6	Surface	Copper	4.23E+02	0.05			0.05	2.3%
15	6	Surface	Iron	3.29E+04	0.24			0.24	10.4%
15	6	Surface	Nickel	3.00E+02	0.08		0.00	0.08	3.3%
15	6	Surface	Uranium	6.30E+01	0.11		0.00	0.11	4.6%
15	**6**	**Surface**	**Totals**		**2.18**	**0.13**	**0.00**	**2.32**	
15	**6**	**Surface**	**Percent**		**94%**	**6%**	**0%**		
15	7	Surface	Antimony	1.37E+02	1.75			1.75	53.5%
15	7	Surface	Arsenic	1.61E+01	0.27	0.11	0.00	0.38	11.7%
15	7	Surface	Cadmium	1.80E+01	0.09	0.05	0.00	0.14	4.3%
15	7	Surface	Chromium	7.97E+01	0.00			0.00	0.0%
15	7	Surface	Copper	8.29E+02	0.11			0.11	3.2%
15	7	Surface	Iron	3.42E+04	0.25			0.25	7.6%
15	7	Surface	Manganese	1.18E+03	0.25		0.00	0.25	7.7%
15	7	Surface	Nickel	5.59E+02	0.14		0.00	0.14	4.4%
15	7	Surface	Thallium	3.00E-01	0.15			0.15	4.7%
15	7	Surface	Uranium	5.39E+01	0.09		0.00	0.09	2.8%
15	**7**	**Surface**	**Totals**		**3.12**	**0.16**	**0.00**	**3.26**	
15	**7**	**Surface**	**Percent**		**95%**	**5%**	**0%**		
15	8	Surface	Antimony	7.42E+01	0.95			0.95	51.0%
15	8	Surface	Arsenic	1.17E+01	0.20	0.08	0.00	0.28	15.0%
15	8	Surface	Cadmium	1.68E+01	0.09	0.05	0.00	0.13	7.1%
15	8	Surface	Chromium	7.74E+01	0.00			0.00	0.0%
15	8	Surface	Iron	2.83E+04	0.21			0.21	11.1%
15	8	Surface	Mercury	1.01E+01	0.17			0.17	9.2%
15	8	Surface	Nickel	1.82E+02	0.05		0.00	0.05	2.5%
15	8	Surface	Uranium	4.46E+01	0.08		0.00	0.08	4.1%
15	**8**	**Surface**	**Totals**		**1.73**	**0.13**	**0.00**	**1.87**	
15	**8**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
15	9	Surface	Antimony	1.12E+02	1.43			1.43	64.9%
15	9	Surface	Arsenic	1.10E+01	0.19	0.08	0.00	0.26	12.0%
15	9	Surface	Cadmium	1.81E+01	0.09	0.05	0.00	0.14	6.5%
15	9	Surface	Chromium	9.56E+01	0.00			0.00	0.0%
15	9	Surface	Iron	2.76E+04	0.20			0.20	9.2%
15	9	Surface	Nickel	1.49E+02	0.04		0.00	0.04	1.7%
15	9	Surface	Uranium	3.07E+01	0.05		0.00	0.05	2.4%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.35. HIs for the Child Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	9	Surface	Vanadium	7.33E+01	0.07		0.00	0.07	3.4%
15	**9**	**Surface**	**Totals**		**2.08**	**0.13**	**0.00**	**2.19**	
15	**9**	**Surface**	**Percent**		**94%**	**6%**	**0%**		
15	10	Surface	Antimony	1.25E+02	1.60			1.60	77.0%
15	10	Surface	Cadmium	1.67E+01	0.09	0.05	0.00	0.13	6.3%
15	10	Surface	Chromium	3.55E+01	0.00			0.00	0.0%
15	10	Surface	Mercury	7.84E+00	0.13			0.13	6.4%
15	10	Surface	Nickel	2.26E+02	0.06		0.00	0.06	2.8%
15	10	Surface	Uranium	9.02E+01	0.15		0.00	0.15	7.4%
15	**10**	**Surface**	**Totals**		**2.03**	**0.05**	**0.00**	**2.07**	
15	**10**	**Surface**	**Percent**		**98%**	**2%**	**0%**		
26	1	Surface	Chromium	1.67E+01	0.00			0.00	0.0%
26	1	Surface	Iron	2.88E+04	0.21			0.21	14.5%
26	1	Surface	Uranium	6.28E+02	1.07		0.00	1.07	74.1%
26	1	Surface	Vanadium	1.61E+02	0.16		0.00	0.16	11.3%
26	**1**	**Surface**	**Totals**		**1.44**		**0.00**	**1.44**	
26	**1**	**Surface**	**Percent**		**100%**		**0%**		
26	2	Surface	Aluminum	2.61E+04	0.13		0.00	0.13	0.8%
26	2	Surface	Arsenic	4.23E+01	0.72	0.29	0.00	1.01	6.2%
26	2	Surface	Beryllium	1.13E+01	0.03		0.00	0.03	0.2%
26	2	Surface	Chromium	4.12E+01	0.00			0.00	0.0%
26	2	Surface	Cobalt	6.59E+01	1.12		0.00	1.12	6.9%
26	2	Surface	Iron	5.20E+04	0.38			0.38	2.3%
26	2	Surface	Nickel	1.03E+02	0.03		0.00	0.03	0.2%
26	2	Surface	Thallium	2.38E+01	12.16			12.16	75.0%
26	2	Surface	Uranium	7.18E+02	1.22		0.00	1.23	7.6%
26	2	Surface	Vanadium	1.16E+02	0.12		0.00	0.12	0.7%
26	**2**	**Surface**	**Totals**		**15.91**	**0.29**	**0.00**	**16.21**	
26	**2**	**Surface**	**Percent**		**98%**	**2%**	**0%**		
26	3	Surface	Arsenic	7.56E+01	1.29	0.52	0.00	1.81	40.4%
26	3	Surface	Chromium	4.56E+01	0.00			0.00	0.0%
26	3	Surface	Iron	3.46E+04	0.25			0.25	5.6%
26	3	Surface	Molybdenum	4.07E+01	0.04			0.04	0.9%
26	3	Surface	Thallium	3.68E+00	1.88			1.88	42.0%
26	3	Surface	Uranium	2.05E+02	0.35		0.00	0.35	7.8%
26	3	Surface	Vanadium	1.44E+02	0.15		0.00	0.15	3.3%
26	**3**	**Surface**	**Totals**		**3.96**	**0.52**	**0.00**	**4.48**	
26	**3**	**Surface**	**Percent**		**88%**	**12%**	**0%**		
26	4	Surface	Aluminum	1.11E+04	0.06		0.00	0.06	1.0%
26	4	Surface	Arsenic	6.01E+01	1.02	0.41	0.00	1.44	25.4%
26	4	Surface	Chromium	1.14E+02	0.00			0.00	0.0%
26	4	Surface	Iron	2.81E+04	0.21			0.21	3.6%
26	4	Surface	Mercury	7.33E+01	1.25			1.25	22.1%
26	4	Surface	Molybdenum	3.49E+01	0.04			0.04	0.6%
26	4	Surface	Nickel	8.10E+01	0.02		0.00	0.02	0.4%
26	4	Surface	Uranium	1.47E+03	2.51		0.00	2.51	44.4%
26	4	Surface	Vanadium	1.42E+02	0.14		0.00	0.14	2.5%
26	**4**	**Surface**	**Totals**		**5.25**	**0.41**	**0.00**	**5.67**	
26	**4**	**Surface**	**Percent**		**93%**	**7%**	**0%**		
77	1	Surface	Chromium	8.30E+01	0.00			0.00	0.0%
77	1	Surface	Iron	5.03E+04	0.37			0.37	21.9%
77	1	Surface	Uranium	6.66E+02	1.14		0.00	1.14	67.9%
77	1	Surface	Vanadium	1.68E+02	0.17		0.00	0.17	10.2%
77	**1**	**Surface**	**Totals**		**1.67**		**0.00**	**1.68**	
77	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	1	Surface	Dioxins/Furans, Total	8.82E-05	0.64		0.00	0.64	79.4%

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EU = exposure unit
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HI = hazard index

Table D.35. HIs for the Child Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	1	Surface	Uranium	9.80E+01	0.17		0.00	0.17	20.6%
80	**1**	**Surface**	**Totals**		**0.81**		**0.00**	**0.81**	
80	**1**	**Surface**	**Percent**		**100%**		**0%**		
80	2	Surface	Antimony	5.82E+01	0.74			0.74	6.6%
80	2	Surface	Chromium	1.65E+02	0.00			0.00	0.0%
80	2	Surface	Cobalt	1.90E+01	0.32		0.00	0.32	2.9%
80	2	Surface	Iron	3.52E+04	0.26			0.26	2.3%
80	2	Surface	Uranium	5.72E+03	9.76		0.01	9.77	87.0%
80	2	Surface	Vanadium	1.29E+02	0.13		0.00	0.13	1.2%
80	**2**	**Surface**	**Totals**		**11.21**		**0.01**	**11.22**	
80	**2**	**Surface**	**Percent**		**100%**		**0%**		
80	3	Surface	Chromium	1.81E+01	0.00			0.00	0.0%
80	3	Surface	Iron	3.05E+04	0.22			0.22	31.9%
80	3	Surface	Manganese	9.46E+02	0.20		0.00	0.20	29.1%
80	3	Surface	Molybdenum	2.33E+01	0.02			0.02	3.4%
80	3	Surface	Uranium	7.32E+01	0.12		0.00	0.12	17.9%
80	3	Surface	Vanadium	1.21E+02	0.12		0.00	0.12	17.6%
80	**3**	**Surface**	**Totals**		**0.70**		**0.00**	**0.68**	
80	**3**	**Surface**	**Percent**		**100%**		**0%**		
204	1	Surface	Aluminum	1.18E+04	0.06		0.00	0.06	33.2%
204	1	Surface	Chromium	1.42E+01	0.00			0.00	0.0%
204	1	Surface	Vanadium	1.20E+02	0.12		0.00	0.12	66.8%
204	**1**	**Surface**	**Totals**		**0.18**		**0.00**	**0.18**	
204	**1**	**Surface**	**Percent**		**100%**		**0%**		
204	2	Surface	Arsenic	4.59E+01	0.78	0.32	0.00	1.10	90.0%
204	2	Surface	Chromium	1.84E+01	0.00			0.00	0.0%
204	2	Surface	Vanadium	1.20E+02	0.12		0.00	0.12	10.0%
204	**2**	**Surface**	**Totals**		**0.90**	**0.32**	**0.00**	**1.22**	
204	**2**	**Surface**	**Percent**		**74%**	**26%**	**0%**		
204	3	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	3	Surface	Silver	5.40E+01	0.06			0.06	30.8%
204	3	Surface	Vanadium	1.22E+02	0.12		0.00	0.12	69.1%
204	**3**	**Surface**	**Totals**		**0.18**		**0.00**	**0.18**	
204	**3**	**Surface**	**Percent**		**100%**		**0%**		
204	4	Surface	Iron	2.92E+04	0.21			0.21	46.7%
204	4	Surface	Molybdenum	4.10E+01	0.04			0.04	9.2%
204	4	Surface	Silver	5.90E+01	0.06			0.06	13.2%
204	4	Surface	Vanadium	1.39E+02	0.14		0.00	0.14	30.9%
204	**4**	**Surface**	**Totals**		**0.46**		**0.00**	**0.45**	
204	**4**	**Surface**	**Percent**		**100%**		**0%**		
204	5	Surface	Arsenic	5.67E+01	0.97	0.39	0.00	1.36	91.7%
204	5	Surface	Chromium	1.61E+01	0.00			0.00	0.0%
204	5	Surface	Vanadium	1.21E+02	0.12		0.00	0.12	8.3%
204	**5**	**Surface**	**Totals**		**1.09**	**0.39**	**0.00**	**1.48**	
204	**5**	**Surface**	**Percent**		**74%**	**26%**	**0%**		
204	6	Surface	Vanadium	1.25E+02	0.13		0.00	0.13	100.0%
204	**6**	**Surface**	**Totals**		**0.13**		**0.00**	**0.13**	
204	**6**	**Surface**	**Percent**		**100%**		**0%**		
204	7	Surface	Iron	2.95E+04	0.22			0.22	28.3%
204	7	Surface	Manganese	1.94E+03	0.41		0.00	0.42	54.7%
204	7	Surface	Vanadium	1.27E+02	0.13		0.00	0.13	17.0%
204	**7**	**Surface**	**Totals**		**0.76**		**0.00**	**0.77**	
204	**7**	**Surface**	**Percent**		**100%**		**0%**		
204	8	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	8	Surface	Cobalt	1.40E+01	0.24		0.00	0.24	40.6%
204	8	Surface	Iron	2.94E+04	0.21			0.21	36.6%

SWMU = solid waste management unit
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Table D.35. HIs for the Child Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	8	Surface	Vanadium	1.32E+02	0.13		0.00	0.13	22.8%
204	**8**	**Surface**	**Totals**		**0.59**		**0.00**	**0.58**	
204	**8**	**Surface**	**Percent**		**100%**		**0%**		
204	9	Surface	Chromium	1.80E+01	0.00			0.00	0.0%
204	9	Surface	Iron	2.96E+04	0.22			0.22	60.9%
204	9	Surface	Vanadium	1.37E+02	0.14		0.00	0.14	39.1%
204	**9**	**Surface**	**Totals**		**0.36**		**0.00**	**0.36**	
204	**9**	**Surface**	**Percent**		**100%**		**0%**		
204	10	Surface	Antimony	1.20E+01	0.15			0.15	30.7%
204	10	Surface	Iron	3.08E+04	0.23			0.23	45.1%
204	10	Surface	Vanadium	1.19E+02	0.12		0.00	0.12	24.2%
204	**10**	**Surface**	**Totals**		**0.50**		**0.00**	**0.50**	
204	**10**	**Surface**	**Percent**		**100%**		**0%**		
204	11	Surface	Iron	3.05E+04	0.22			0.22	60.6%
204	11	Surface	Vanadium	1.43E+02	0.15		0.00	0.15	39.4%
204	**11**	**Surface**	**Totals**		**0.37**		**0.00**	**0.37**	
204	**11**	**Surface**	**Percent**		**100%**		**0%**		
204	12	Surface	Iron	2.86E+04	0.21			0.21	45.2%
204	12	Surface	Thallium	2.10E-01	0.11			0.11	23.2%
204	12	Surface	Vanadium	1.44E+02	0.15		0.00	0.15	31.6%
204	**12**	**Surface**	**Totals**		**0.46**		**0.00**	**0.47**	
204	**12**	**Surface**	**Percent**		**100%**		**0%**		
204	13	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	13	Surface	Vanadium	1.45E+02	0.15		0.00	0.15	100.0%
204	**13**	**Surface**	**Totals**		**0.15**		**0.00**	**0.15**	
204	**13**	**Surface**	**Percent**		**100%**		**0%**		
204	14	Surface	Arsenic	1.36E+02	2.32	0.94	0.00	3.25	84.3%
204	14	Surface	Chromium	1.70E+01	0.00			0.00	0.0%
204	14	Surface	Iron	3.17E+04	0.23			0.23	6.0%
204	14	Surface	Uranium	1.34E+02	0.23		0.00	0.23	5.9%
204	14	Surface	Vanadium	1.43E+02	0.15		0.00	0.15	3.8%
204	**14**	**Surface**	**Totals**		**2.92**	**0.94**	**0.00**	**3.86**	
204	**14**	**Surface**	**Percent**		**76%**	**24%**	**0%**		
204	15	Surface	Iron	2.90E+04	0.21			0.21	64.9%
204	15	Surface	Vanadium	1.13E+02	0.11		0.00	0.11	35.1%
204	**15**	**Surface**	**Totals**		**0.33**		**0.00**	**0.32**	
204	**15**	**Surface**	**Percent**		**100%**		**0%**		
204	16	Surface	Iron	2.89E+04	0.21			0.21	63.0%
204	16	Surface	Vanadium	1.22E+02	0.12		0.00	0.12	37.0%
204	**16**	**Surface**	**Totals**		**0.34**		**0.00**	**0.33**	
204	**16**	**Surface**	**Percent**		**100%**		**0%**		
204	17	Surface	Iron	2.98E+04	0.22			0.22	63.7%
204	17	Surface	Vanadium	1.22E+02	0.12		0.00	0.12	36.3%
204	**17**	**Surface**	**Totals**		**0.34**		**0.00**	**0.34**	
204	**17**	**Surface**	**Percent**		**100%**		**0%**		
204	18	Surface	Iron	3.35E+04	0.25			0.25	41.9%
204	18	Surface	Uranium	1.09E+02	0.19		0.00	0.19	31.8%
204	18	Surface	Vanadium	1.51E+02	0.15		0.00	0.15	26.2%
204	**18**	**Surface**	**Totals**		**0.58**		**0.00**	**0.59**	
204	**18**	**Surface**	**Percent**		**100%**		**0%**		
204	19	Surface	Silver	5.50E+01	0.06			0.06	18.2%
204	19	Surface	Uranium	8.50E+01	0.14		0.00	0.15	47.0%
204	19	Surface	Vanadium	1.06E+02	0.11		0.00	0.11	34.8%
204	**19**	**Surface**	**Totals**		**0.31**		**0.00**	**0.32**	
204	**19**	**Surface**	**Percent**		**100%**		**0%**		
204	20	Surface	Chromium	1.75E+02	0.00			0.00	0.0%

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Table D.35. HIs for the Child Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	20	Surface	Uranium	1.31E+04	22.28		0.03	22.31	99.5%
204	20	Surface	Vanadium	1.14E+02	0.12		0.00	0.12	0.5%
204	**20**	**Surface**	**Totals**		**22.40**		**0.03**	**22.43**	
204	**20**	**Surface**	**Percent**		**100%**		**0%**		
204	21	Surface	Cobalt	1.80E+01	0.31		0.00	0.31	71.8%
204	21	Surface	Vanadium	1.19E+02	0.12		0.00	0.12	28.2%
204	**21**	**Surface**	**Totals**		**0.43**		**0.00**	**0.43**	
204	**21**	**Surface**	**Percent**		**100%**		**0%**		
211	1	Surface	Antimony	6.52E+01	0.83			0.83	62.8%
211	1	Surface	Chromium	4.48E+01	0.00			0.00	0.0%
211	1	Surface	Iron	3.05E+04	0.22			0.22	16.8%
211	1	Surface	Thallium	3.30E-01	0.17			0.17	12.7%
211	1	Surface	Vanadium	1.01E+02	0.10		0.00	0.10	7.7%
211	**1**	**Surface**	**Totals**		**1.33**		**0.00**	**1.32**	
211	**1**	**Surface**	**Percent**		**100%**		**0%**		
224	1	Surface	Antimony	1.08E+02	1.38			1.38	95.1%
224	1	Surface	Uranium	4.15E+01	0.07		0.00	0.07	4.9%
224	**1**	**Surface**	**Totals**		**1.45**		**0.00**	**1.45**	
224	**1**	**Surface**	**Percent**		**100%**		**0%**		
225	1	Surface	Antimony	5.41E+01	0.69			0.69	73.2%
225	1	Surface	Chromium	2.55E+01	0.00			0.00	0.0%
225	1	Surface	Thallium	2.80E-01	0.14			0.14	15.1%
225	1	Surface	Vanadium	1.09E+02	0.11		0.00	0.11	11.7%
225	**1**	**Surface**	**Totals**		**0.95**		**0.00**	**0.94**	
225	**1**	**Surface**	**Percent**		**100%**		**0%**		

The percentages listed throughout this table under the "Percent" column represent the percent contributions for each COPC to the Total HI.
The percentages listed in the row beneath "Totals" represent the percent contributions for each pathway to the Total HI.

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index